

List of Publications (2017)

Experiments Performed at NSRRC Beamlines

主導性之 SCI 論文

1. W.-R. Wu(吳瑋儒), C.-J. Su*(蘇群仁), W.-T. Chuang(莊偉綜), Y.-C. Huang(黃彥之), P.-W. Yang, P.-C. Lin, C.-Y. Chen(陳軍佑), T.-Y. Yang, A.-C. Su, K.-H. Wei, C.-M. Liu, and U.-S. Jeng*(鄭有舜) , “Surface Layering and Supersaturation for Top-down Nanostructural Development during Spin Coating of Polymer/Fullerene Thin Films ”, *Adv. Energy Mater.* **7**, 1601842 (2017) . (I.F.=21.875) ★
2. H. Y. Huang(黃筱妤), Z. Y. Chen, R.-P. Wang, F. M. F. de Groot, W. B. Wu(吳文斌), J. Okamoto(岡本淳), A. Chainani, A. Singh, Z.-Y. Li, J.-S. Zhou, H.-T. Jeng, G. Y. Guo, J.-G. Park, L. H. Tjeng, C. T. Chen(陳建德), and D. J. Huang*(黃迪靖) , “Jahn-teller Distortion Driven Magnetic Polarons in Magnetite ”, *Nat. Commun.* **8** , 15929 (2017) . (I.F.=12.353) ★
3. Y.-C. Lee*(李耀昌), C.-C. Chiang(江正誠), P.-Y. Huang(黃佩瑜), C.-Y. Chung, T. D. Huang, C.-C. Wang(王俊杰), C.-I. Chen(陳慶曰), R.-S. Chang, C.-H. Liao, and R. R. Reisz* , “Evidence of Preserved Collagen in an Early Jurassic Sauropodomorph Dinosaur Revealed by Synchrotron FTIR Microspectroscopy ”, *Nat. Commun.* **8** , 14220 (2017) . (I.F.=12.353) ★
4. D.-Y. Wang, C.-Y. Wei, M.-C. Lin, C.-J. Pan, H.-L. Chou, H.-A. Chen, M. Gong, Y. Wu, C. Yuan, M. Angell, Y.-J. Hsieh, Y.-H. Chen, C.-Y. Wen, C.-W. Chen, B.-J. Hwang*(黃炳照), C.-C. Chen*(陳家俊), and H. Dai* , “Advanced Rechargeable Aluminium Ion Battery with a High-quality Natural Graphite Cathode ”, *Nat. Commun.* **8** , 14283 (2017) . (I.F.=12.353) ★
5. H.-C. Lu*(盧曉琪), Y.-C. Peng(彭鈺謙), S.-L. Chou(周勝隆), J.-I. Lo(羅仁佑), B.-M. Cheng*(鄭炳銘), and H.-C. Chang*(張煥正) , “Far-UV-excited Luminescence of Nitrogen-vacancy Centers: Evidence for Diamonds in Space ”, *Angew. Chem. Int. Edit.* **56** , 14469 (2017) . (I.F.=12.102) ★
6. R. Sankar*, G. N. Rao, I. P. Muthuselvam, C. Butler, N. Kumar, G. S. Murugan, C. Shekhar, T.-R. Chang, C.-Y. Wen, C.-W. Chen, W.-L. Lee, M.-T. Lin, H.-T. Jeng, C. Felser, and F. C. Chou*(周方正) , “Polymorphic Layered MoTe₂ from Semiconductor, Topological Insulator, to Weyl Semimetal ”, *Chem. Mater.* **29** , 699 (2017) . (I.F.=9.89) ★
7. S. H. Su, P. Y. Chuang, S. W. Chen, H. Y. Chen, Y. Tung, W.-C. Chen(陳韋全), C.-H. Wang, Y.-W. Yang(楊耀文), J. C. A. Huang*(黃榮俊), T.-R. Chang*(張泰榕), H. Lin, H.-T. Jeng, C.-M. Cheng*(鄭澄懋), K.-D. Tsuei(崔古鼎), H. L. Su, and Y. C. Wu , “Selective Hydrogen Etching Leads to 2D Bi(111) Bilayers on Bi₂Se₃: Large Rashba Splitting in Topological Insulator Heterostructure ”, *Chem. Mater.* **29** , 8992 (2017) . (I.F.=9.89) ★
8. Y.-Q. Yeh(葉奕琪), K.-F. Liao(廖桂芬), O. Shih(施怡之), Y.-J. Shiu, W.-R. Wu(吳瑋儒), C.-J. Su(蘇群仁), P.-C. Lin, and U.-S. Jeng*(鄭有舜) , “Probing the Acid-induced Packing Structure Changes of the Molten Globule Domains of a Protein near Equilibrium Unfolding ”, *J. Phys. Chem. Lett.* **8** , 470 (2017) . (I.F.=8.709) ★
9. H.-C. Chia, H.-S. Sheu(許火順), Y.-Y. Hsiao, S.-S. Li, Y.-Ka Lan, C.-Y. Lin, J.-W. Chang, Y.-C. Kuo(郭言謙), C.-H. Chen(陳家浩), S.-C. Weng(翁世璋), C.-J. Su(蘇群仁), A.-C. Su, C.-W. Chen*(陳俊維), and U.-S. Jeng*(鄭有舜) , “Critical Intermediate Structure That Directs the Crystalline Texture and Surface Morphology of Organo-lead Trihalide Perovskite ”, *ACS Appl. Mater. Interfaces* **9** , 36897 (2017) . (I.F.=8.097) ★
10. G.-C. Chiou, M.-W. Lin(林銘偉), Y.-L. Lai(賴玉鈴), C.-K. Chang, J.-M. Jiang, Y.-W. Su, K.-H. Wei*, and Y.-J. Hsu*(許瑤真) , “Fluorene Conjugated Polymer/Nickel Oxide Nanocomposite Hole Transport Layer Enhances the Efficiency of Organic Photovoltaic Devices ”, *ACS Appl. Mater. Interfaces* **9** , 2232 (2017) . (I.F.=8.097) ★
11. M.-J. Deng*(鄧名傑), K.-W. Chen, Y.-C. Che, I.-J. Wang(王薏茹), C.-M. Lin, J.-M. Chen*(陳錦明), K.-T. Lu(盧桂子), Y.-F. Liao(廖彥發), and H. Ishii(石井啟文) , “Cheap, High-performance, and Wearable Mn Oxide Supercapacitors with Urea-LiClO₄ Based Gel Electrolytes ”, *ACS Appl. Mater. Interfaces* **9** , 479 (2017) . (I.F.=8.097) ★
12. A. S. Wotango, W.-N. Su, E. G. Leggesse, A. M. Haregewoin, M.-H. Lin, T. A. Zegeye, J.-H. Cheng, and B.-J. Hwang*(黃炳照) , “Improved Interfacial Properties of MCMB Electrode by 1-(Trimethylsilyl) Imidazole as New Electrolyte Additive to Suppress LiPF₆ Decomposition ”, *ACS Appl. Mater. Interfaces* **9** , 2410 (2017) . (I.F.=8.097) ★
13. B.-J. Hsieh, M.-C. Tsai, C.-J. Pan, W.-N. Su*(蘇威年), J. Rick, J.-F. Lee(李志甫), Y.-W. Yang(楊耀文), and B.-J. Hwang*(黃炳照) , “Platinum Loaded on Dual-doped TiO₂ as an Active and Durable Oxygen Reduction Reaction

Catalyst ", NPG Asia Mater. **9**, e403 (2017) . (I.F.=7.208) ★

14. H.-S. Hsu*(許華書), Y.-Y. Chang, Y.-Y. Chin*(秦伊瑩), H.-J. Lin(林宏基), C.-T. Chen(陳建德), S.-J. Sun*(孫士傑), S. M. Zharkov, C.-R. Lin, and S. G. Ovchinnikov , "Exchange Bias in Graphitic C/Co Composites ", Carbon **114** , 642 (2017) . (I.F.=7.082) ★
15. H.-C. Lu*(盧曉琪), Y.-C. Peng(彭鈺謙), M.-Y. Lin(林孟暉), S.-L. Chou(周勝隆), J.-I. Lo(羅仁佑), B.-M. Cheng*(鄭炳銘) , "Analysis of Boron in Diamond with UV Photoluminescence ", Carbon **111** , 835 (2017) . (I.F.=7.082) ★
16. M.-H. Lin, J.-H. Cheng, H.-F. Huang, U.-F. Chen, C.-M. Huang, H.-W. Hsieh, J.-M. Lee(李振民), J.-M. Chen(陳錦明), W.-N. Su, and B.-J. Hwang*(黃炳照) , "Revealing the Mitigation of Intrinsic Structure Transformation and Oxygen Evolution in a Layered Li_{1.2}Ni_{0.2}Mn_{0.6}O₂ Cathode Using Restricted Charging Protocols ", J. Power Sources **359** , 539 (2017) . (I.F.=6.945) ★
17. T. A. Zegeye, M.-C. Tsai, J.-H. Cheng, M.-H. Lin, H.-M. Chen, J. Rick, W.-N. Su, C.-F. J. Kuo*(郭中豐), and B.-J. Hwang*(黃炳照) , "Controllable Embedding of Sulfur in High Surface Area Nitrogen Doped Three Dimensional Reduced Graphene Oxide by Solution Drop Impregnation Method for High Performance Lithium-sulfur Batteries ", J. Power Sources **353** , 298 (2017) . (I.F.=6.945) ★
18. C.-H. Liu(劉君夏), C.-Y. Lin, J.-L. Chen(陳政龍), K.-T. Lu(盧桂子), J.-F. Lee(李志甫), J.-M. Chen*(陳錦明) , "SBA-15-supported Pd Catalysts: The Effect of Pretreatment Conditions on Particle Size and Its Application to Benzyl Alcohol Oxidation ", J. Catal. **350** , 21 (2017) . (I.F.=6.759) ★
19. Y.-C. Chuang*(莊裕鈞), C.-F. Sheu, G.-H. Lee, Y.-S. Chen, and Y. Wang*(王瑜) , "Charge Density Studies of 3d Metal (Ni/Cu) Complexes with a Non-innocent Ligand ", Acta Crystallogr. B **73** , 634 (2017) . (I.F.=6.467) ★
20. T.-N. Lam, Y.-L. Huang, K.-C. Weng, Y.-L. Lai(賴玉鈴), M.-W. Lin(林銘偉), Y.-H. Chu, H.-J. Lin(林宏基), C.-C. Kaun, D.-H. Wei(魏德新), Y.-C. Tseng*(曾院介), and Y.-J. Hsu*(許瑤真) , "Spin Filtering of a Termination-controlled LSMO/Alq₃ Heterojunction for an Organic Spin Valve ", J. Mater. Chem. C **5** , 9128 (2017) . (I.F.=5.976) ★
21. C.-L. Liu(劉建良) and H.-L. Chen*(陳信龍) , "Variable Crystal Orientation of Poly(ethylene oxide) Confined within the Tubular Space Templatized by Anodic Aluminum Oxide Nanochannels ", Macromolecules **50** , 631 (2017) . (I.F.=5.914) ★
22. J.-H. Cheng, A. A. Assegie, C.-J. Huang, M.-H. Lin, A. M. Tripathi, C.-C. Wang(王俊杰), M.-T. Tang(湯茂竹), Y.-F. Song(宋艷芳), W.-N. Su, and B. J. Hwang*(黃炳照) , "Visualization of Lithium Plating and Stripping via in Operando Transmission X-ray Microscopy ", J. Phys. Chem. C **121** , 7761 (2017) . (I.F.=4.484) ★
23. T. A. Zegeye, C.-F. J. Kuo*(郭中豐), H.-M. Chen, A. M. Tripathi, M.-H. Lin, J.-H. Cheng, A. D. Duma, W.-N. Su, and B.-J. Hwang*(黃炳照) , "Dual-Confining Sulfur in Hybrid Nanostructured Materials for Enhancement of Lithium-sulfur Battery Cathode Capacity Retention ", ChemElectroChem **4** , 636 (2017) . (I.F.=4.446) ★
24. C.-P. Cheng*(鄭秋平), W.-S. Chen, K.-Y. Lin, G.-J. Wei, Y.-T. Cheng, Y.-H. Lin, H.-W. Wan, T.-W. Pi*(皮敦文), R. T. Tung, J. Kwo*(郭瑞年), and M. Hong*(洪銘輝) , "Atomic Nature of the Schottky Barrier Height Formation of the Ag/GaAs(001)-2 × 4 Interface: an In-situ Synchrotron Radiation Photoemission Study ", Appl. Surf. Sci. **393** , 294 (2017) . (I.F.=4.439) ★
25. B.-C. Lin, C.-S. Ku(古慶順), H.-Y. Lee*(李信義), and A. T. Wu*(吳子嘉) , "Epitaxial Growth of ZnO Nanorod Arrays via a Self-assembled Microspheres Lithography ", Appl. Surf. Sci. **414** , 212 (2017) . (I.F.=4.439) ★
26. B.-C. Lin, C.-S. Ku(古慶順), H.-Y. Lee*(李信義), S. Chakraborty, and A. T. Wu*(吳子嘉) , "Analysis of Arrayed Nanocapacitor Formed on Nanorods by Flow-rate Interruption Atomic Layer Deposition ", Appl. Surf. Sci. **426** , 224 (2017) . (I.F.=4.439) ★
27. Y.-Y. Chin(秦伊瑩), H.-J. Lin*(林宏基), Z. Hu, C.-Y. Kuo, D. Mikhailova, J.-M. Lee(李振民), S.-C. Haw(何樹智), S.-A. Chen(陳興安), W. Schnelle, H. Ishii(石井啟文), N. Hiraoka(平岡望), Y.-F. Liao(廖彥發), K.-D. Tsuei(崔古鼎), A. Tanaka, L. H. Tjeng, C.-T. Chen(陳建德), and J.-M. Chen*(陳錦明) , "Relation Between the Co-O Bond Lengths and the Spin State of Co in Layered Cobaltates: a High-pressure Study ", Sci. Rep.-UK **7** , 3656 (2017) . (I.F.=4.122) ★
28. N. Hiraoka*(平岡望) and T. Nomura , "Electron Momentum Densities Near Dirac Cones: Anisotropic Umklapp Scattering and Momentum Broadening ", Sci. Rep.-UK **7** , 565 (2017) . (I.F.=4.122) ★
29. M.-C. Liu(劉孟澄), H.-F. Chen, C.-H. Chin(金之豪), T.-P. Huang(黃自平), Y.-J. Chen, Y.-J. Wu*(吳宇中) , "Identification of a Simplest Hypervalent Hydrogen Fluoride Anion in Solid Argon ", Sci. Rep.-UK **7** , 2984

(2017) . (I.F.=4.122) ★

30. C.-C. Wang*(王俊杰), C.-C. Chiang, B. Liang*, G.-C. Yin, Y.-T. Weng, and L.-C. Wang , “Fast Projection Matching for X-ray Tomography ”, Sci. Rep.-UK **7** , 3691 (2017) . (I.F.=4.122) ★
31. T. S. Wu, Y. W. Chen, S. C. Weng(翁世璋), C. N. Lin, C. H. Lai, Y. J. Huang, H. T. Jeng, S. L. Chang(張石麟),and Y. L. Soo*(蘇雲良) , “Dramatic Band Gap Reduction Incurred by Dopant Coordination Rearrangement in Co-doped Nanocrystals of CeO₂ ”, Sci. Rep.-UK **7** , 4715 (2017) . (I.F.=4.122) ★
32. J.-M. Lee(李振民), S.-C. Haw(何樹智), S.-W. Chen*(陳世偉), S.-A. Chen(陳興安), H. Ishii(石井啟文), K.-D. Tsuei(崔古鼎), N. Hiraoka(平岡望), Y.-F. Liao(廖彥發), K.-T. Lu(盧桂子), and J.-M. Chen*(陳錦明) , “The Fluctuating Population of Sm 4f Configurations in Topological Kondo Insulator SmB₆ Explored with High-resolution X-ray Absorption and Emission Spectra ”, Dalton T. **46** , 11664 (2017) . (I.F.=4.099) ★
33. H.-Y. Chen, J. Friedl, C.-J. Pan, A. Haider, R. Al-Oweini, Y. L. Cheah, M.-H. Lin, U. Kortz, B.-J. Hwang*(黃炳照), M. Srinivasan*, and U. Stimming* , “In Situ X-ray Absorption Near Edge Structure Studies and Charge Transfer Kinetics of Na₆[V₁₀O₂₈] Electrodes ”, Phys. Chem. Chem. Phys. **19** , 3358 (2017) . (I.F.=3.906) ★
34. Y.-R. Lu(盧英睿), T.-Z. Wu, H.-W. Chang, J.-L. Chen(陳政龍), C.-L. Chen(陳啟亮), D.-H. Wei, J.-M. Chen(陳錦明), W.-C. Chou, and C.-L. Dong*(董崇禮) , “Operando X-ray Spectroscopic Observations of Modulations of Local Atomic and Electronic Structures of Color Switching Smart Film ”, Phys. Chem. Chem. Phys. **19** , 14224 (2017) . (I.F.=3.906) ★
35. O. Shih(施怡之), Y.-Q. Yeh(葉奕琪), K.-F. Liao(廖桂芬), T.-C. Sung, Y.-W. Chiang*(江昀緯), and U.-S. Jeng*(鄭有舜) , “Oligomerization Process of Bcl-2 Associated X Protein Revealed from Intermediate Structures in Solution ”, Phys. Chem. Chem. Phys. **19** , 7947 (2017) . (I.F.=3.906) ★
36. S. H. Huang, G. J. Shu, W. W. Pai, H. L. Liu, and F. C. Chou*(周方正) , “Tunable Se Vacancy Defects and the Unconventional Charge Density Wave in 1T-TiSe_{2-δ} ”, Phys. Rev. B **95** , 045310 (2017) . (I.F.=3.813) ★
37. S. K. Karna*, Y. Zhao, R. Sankar, M. Avdeev, P. C. Tseng, C. W. Wang(王進威), G. J. Shu, K. Matan, G. Y. Guo, and F. C. Chou*(周方正) , “Sodium Layer Chiral Distribution and Spin Structure of Na₂Ni₂TeO₆ with a Ni Honeycomb Lattice ”, Phys. Rev. B **95** , 104408 (2017) . (I.F.=3.813) ★
38. M.-K. Lin, Y. Nakayama, Y.-J. Zhuang, K.-J. Su, C.-Y. Wang, T.-W. Pi(皮敦文), S. Metz, T. A. Papadopoulos*, T.-C. Chiang, H. Ishii, and S.-J. Tang*(唐述中) , “Control of the Dipole Layer of Polar Organic Molecules Adsorbed on Metal Surfaces via Different Charge-transfer Channels ”, Phys. Rev. B **95** , 085425 (2017) . (I.F.=3.813) ★
39. G. S. Murugan, P. J. Chen, R. Sankar, I. P. Muthuselvam, G. N. Rao, and F. C. Chou*(周方正) , “Antiferromagnetism of Li₂Cu₅Si₄O₁₄ with Alternating Dimers and Trimers in Chains ”, Phys. Rev. B **95** , 174442 (2017) . (I.F.=3.813) ★
40. L. Y. Chang(張羅嶽), Y.-C. Kuo(郭言謙), H. W. Shiu(許紘瑋), C.-H. Wang(王嘉興), Y.-C. Lee(李耀昌), Y.-W. Yang(楊耀文), S. Gwo(果尚志), and C.-H. Chen*(陳家浩) , “n-alkanethiols Directly Grown on a Bare Si(111) Surface: from Disordered to Ordered Transition ”, Langmuir **33** , 14244 (2017) . (I.F.=3.789) ★
41. M.-H. Hsieh, Y.-S. Shiau, H.-H. Liou, U.-S. Jeng(鄭有舜), M.-T. Lee*(李明道), and K.-L. Lou*(樓國隆) , “Measurement of Hanatoxin-induced Membrane Thinning with Lamellar X-ray Diffraction ”, Langmuir **33** , 2885 (2017) . (I.F.=3.789) ★
42. P.-W. Yang, S. Thoka, P.-C. Lin, C.-J. Su(蘇群仁), H.-S. Sheu(許火順), M. H. Huang*(黃煊益), and U.-S. Jeng*(鄭有舜) , “Tracing the Surfactant-mediated Nucleation, Growth, and Superpacking of Gold Supercrystals Using Time and Spatially Resolved X-ray Scattering ”, Langmuir **33** , 3253 (2017) . (I.F.=3.789) ★
43. M.-L. Lin, J.-M. Huang, C.-S. Ku(古慶順), C.-M. Lin, H.-Y. Lee*(李信義), and J.-Y. Juang*(莊振益) , “High Mobility Transparent Conductive Al-doped ZnO Thin Films by Atomic Layer Deposition ”, J. Alloy. Compd. **727** , 565 (2017) . (I.F.=3.779) ★
44. Y.-H. Wu, Y.-W. Tsai(蔡一葦), W.-C. Liu, Y.-C. Chih, and S.-L. Chang*(張石麟) , “High-resolution Monochromator Using a High-efficiency Single-mode X-ray Resonator at Laue Incidence ”, Opt. Lett. **42** , 2575 (2017) . (I.F.=3.589) ★
45. G. J. Shu, J. C. Tian, C. K. Lin, M. Hayashi, S. C. Liou, W. T. Chen, D. P. Wong, H. L. Liou and F. C. Chou*(周方正) , “Oxygen Vacancy-induced Magnetic Moment in Edge-sharing CuO₂ Chains of Li₂CuO_{2-δ} ”, New J. Phys. **19** , 023026 (2017) . (I.F.=3.579) ★
46. M. Hong*(洪銘輝), H. W. Wan, K. Y. Lin, Y. C. Chang, M. H. Chen, Y. H. Lin, T. D. Lin, T. W. Pi*(皮敦文), and J.

- Kwo*(郭瑞年), "Perfecting the Al₂O₃/In_{0.53}Ga_{0.47}As Interfacial Electronic Structure in Pushing Metal-oxide-semiconductor Field-effect-transistor Device Limits Using In-situ Atomic-layer-deposition", *Appl. Phys. Lett.* **111**, 123502 (2017). (I.F.=3.495) ★
47. M.-T. Lee(李明道), W.-C. Hung, M.-H. Hsieh, H. C. hen, Y.-Y. Chang(張裕勇), and H. W. Huang*(黃惠文), "Molecular State of the Membrane-active Antibiotic Daptomycin", *Biophys. J.* **113**, 82 (2017). (I.F.=3.495) ★
48. T. W. Pi*(皮敦文), W. S. Chen(陳婉馨), Y. H. Lin, Y. T. Cheng, G. J. Wei, K. Y. Lin, C. -P. Cheng*(鄭秋平), J. Kwo*(郭瑞年), and M. Hong*(洪銘輝), "Relevance of GaAs(001) Surface Electronic Structure for High Frequency Dispersion on n-type Accumulation Capacitance", *Appl. Phys. Lett.* **110**, 052107 (2017). (I.F.=3.495) ★
49. Y.-C. Wu, W.-R. Liu*(劉維仁), H.-R. Chen, C.-H. Hsu(徐嘉鴻), and W.-F. Hsieh*(謝文峰), "The Dominant Effect of Non-centrosymmetric Displacement on the Crystal-field Energy Splitting in the Strained A-plane ZnO Epi-films on R-plane Sapphires", *CrystEngComm* **19**, 3348 (2017). (I.F.=3.304) ★
50. J.-I. Lo(羅仁佑), S.-L. Chou(周勝隆), H.-C. Lu(盧曉琪), Y.-C. Peng(彭鉅謙), M.-Y. Lin(林孟暉), B.-M. Cheng*(鄭炳銘), and J. F. Ogilvie, "Ultraviolet and Infrared Spectra of Diboron in Solid Neon at 4 K", *ChemPhysChem* **18**, 124 (2017). (I.F.=2.947) ★
51. T.-P. Huang(黃自平), H.-F. Chen, M.-C. Liu(劉孟澄), C.-H. Chin(金之豪), M. C. Durrant, Y.-Y. Lee(李英裕), and Y.-J. Wu*(吳宇中), "Direct Infrared Observation of Hydrogen Chloride Anions in Solid Argon", *J. Chem. Phys.* **147**, 114301 (2017). (I.F.=2.843) ★
52. Y.-L. Sun(孫翊倫), W.-J. Huang(黃文建), and S.-H. Lee*(李世煌), "Formation of C₉H₂ and C₁₀H₂ from Reactions C₃H + C₆H₂ and C₄H + C₆H₂", *J. Phys. Chem. A* **121**, 9687 (2017). (I.F.=2.836) ★
53. Y.-H. Huang, H.-H. Guan(管泓翔), C.-J. Chen*(陳俊榮), and C.-Y. Huang*(黃晨洋), "Staphylococcus Aureus Single-stranded DNA-binding Protein SsbA Can Bind But Cannot Stimulate PriA Helicase", *PLoS One* **12**, e0182060 (2017). (I.F.=2.766) ★
54. Y.-T. Cheng, Y.-H. Lin, W.-S. Chen, K.-Y. Lin, H.-W. Wan, C.-P. Cheng, H.-H. Cheng, J. Kwo*(郭瑞年), M. Hong*(洪銘輝), and T.-W. Pi*(皮敦文), "Surface Electronic Structure of Epi Germanium (001)-2×1", *Appl. Phys. Express* **10**, 075701 (2017). (I.F.=2.555) ★
55. P. Kaur, S. Kumar*, C.-L. Chen*(陳啟亮), K.-S. Yang, D.-H. Wei, C.-L. Dong, C. Srivastava, and S. M. Rao, "Gd Doping Induced Weak Ferromagnetic Ordering in ZnS Nanoparticles Synthesized by Low Temperature Co-precipitation Technique", *Mater. Chem. Phys.* **186**, 124 (2017). (I.F.=2.21) ★
56. C.-C. Wang*(王志傑), S.-Y. Ke, K.-T. Chen, Y.-F. Hsieh, T.-H. Wang, G.-H. Lee, and Y.-C. Chuang*(莊裕鈞), "Reversible Single-crystal-to-single-crystal Structural Transformation in a Mixed-ligand 2D Layered Metal-organic Framework: Structural Characterization and Sorption Study", *Crystals* **7**, 364 (2017). (I.F.=2.144) ★
57. L. Lee(李寧), C.-Y. Hsu, and H.-W. Yen*(顏宏偉), "The Effects of Hydraulic Retention Time (HRT) on Chromium(VI) Reduction Using Autotrophic Cultivation of Chlorella Vulgaris", *Bioprocess. Biosyst. Eng.* **40**, 1725 (2017). (I.F.=2.139) ★
58. C. K. Cheng, L. B. Young, K. Y. Lin, Y. H. Lin, H. W. Wan, G. J. Lu, M. T. Chang, R. F. Cai, S. C. Lo, M. Y. Li, C. H. Hsu*(徐嘉鴻), J. Kwo*(郭瑞年), and M. Hong*(洪銘輝), "Single-crystal Hexagonal Perovskite YAlO₃ Epitaxially on GaAs(111)A and (001) Using Atomic Layer Deposition", *Microelectron. Eng.* **178**, 125 (2017). (I.F.=2.02) ★
59. E. K. Astani, N.-C. Chen(陳乃齊), Y.-C. Huang(黃彥杰), A. Bahrami, L.-Y. Chen, P.-R. Lin(林沛儒), H.-H. Guan(管泓翔), C.-C. Lin(林建志), P. Chuankhayan(邱康妍), N. L. Hadipour, and C.-J. Chen*(陳俊榮), "DFT, QTAIM, and NBO Studies on the Trimeric Interactions in The protrusion Domain of a Piscine Betanodavirus", *J. Mol. Graph. Model.* **78**, 61 (2017). (I.F.=1.885) ★
60. L. B. Young, C. K. Cheng, G. J. Lu, K. Y. Lin, Y. H. Lin, H. W. Wan, M. Y. Li, R. F. Cai, S. C. Lo, C. H. Hsu*(徐嘉鴻), J. Kwo*(郭瑞年), M. Hong*(洪銘輝), "Atomic Layer Deposited Single-crystal Hexagonal Perovskite YAlO₃ Epitaxially on GaAs(111)A", *J. Vac. Sci. Technol. A* **35**, 01B123 (2017). (I.F.=1.761) ★
61. Y. H. Lin, K. Y. Lin, W. J. Hsueh, L. B. Young, T. W. Chang, J. I. Chyi, T. W. Pi*(皮敦文), J. Kwo*(郭瑞年), and M. Hong*(洪銘輝), "Interfacial Characteristics of Y₂O₃/GaSb(001) Grown by Molecular Beam Epitaxy and Atomic Layer Deposition", *J. Cryst. Growth* **477**, 164 (2017). (I.F.=1.742) ★
62. H. W. Wan, K. Y. Lin, C. K. Cheng, Y. K. Su, W. C. Lee, C. H. Hsu, T. W. Pi*(皮敦文), J. Kwo*(郭瑞年), and M. Hong*(洪銘輝), "GaAs Metal-oxide-semiconductor Push with Molecular Beam Epitaxy Y₂O₃-in Comparison with

Atomic Layer Deposited Al₂O₃”, J. Cryst. Growth **477**, 179 (2017) . (I.F.=1.742) ★

63. E. K. Astani, N. L. Hadipour, and C.-J. Chen*(陳俊榮), “Molecular Interactions Investigated with DFT Calculations of QTAIM and NBO Analyses: an Application to Dimeric Structures of Rice α-amylase/subtilisin Inhibitor”, Chem. Phys. Lett. **672**, 80 (2017) . (I.F.=1.686) ★
64. Y.-L. Sun(孫翊倫), W.-J. Huang(黃文建), and S.-H. Lee*(李世煌), “Formation of Octatetrayne (HC₈H) from the Reaction of Butadiynyl (C₄H) with Butadiyne (HC₄H)”, Chem. Phys. Lett. **690**, 147 (2017) . (I.F.=1.686) ★

合作性之 SCI 論文

1. Z. Xiao, Y. Wang, Y.-C. Huang, Z. Wei, C.-L. Dong*(董崇禮), J. Ma, S. Shen, Y. Li, and S. Wang*(王雙印), “Filling the Oxygen Vacancies in Co₃O₄ with Phosphorus: an Ultra-efficient Electrocatalyst for Overall Water Splitting”, Energ. Environ. Sci. **10**, 2563 (2017) . (I.F.=30.067) ☆
2. J. Chen, C.-L. Dong, D. Zhao, Y.-C. Huang, X. Wang, L. Samad, L. Dang, M. Shearer, S. Shen*(沈少華), and L. Guo , “Molecular Design of Polymer Heterojunctions for Efficient Solar-hydrogen Conversion ”, Adv. Mater. **29**, 1606198 (2017) . (I.F.=21.95) ★
3. F.-J. Lin, C. Guo, W.-T. Chuang(莊偉綜), C.-L. Wang, Q. Wang, H. Liu*(劉歡), C.-S. Hsu*(許千樹), and L. Jiang , “Directional Solution Coating by the Chinese Brush: a Facile Approach to Improving Molecular Alignment for High-performance Polymer TFTs ”, Adv. Mater. **29**, 1606987 (2017) . (I.F.=21.95) ☆
4. S. Dou, C.-L. Dong, Z. Hu, Y.-C. Huang, J.-L. Chen(陳政龍), L. Tao, D. Yan, D. Chen, S. Shen*, S. Chou*, and S. Wang*(王雙印) , “Atomic-scale CoO_x Species in Metal-organic Frameworks for Oxygen Evolution Reaction ”, Adv. Funct. Mater. **27**, 1702546 (2017) . (I.F.=13.325) ☆
5. C.-J. Chen, K.-C. Yang, C.-W. Liu, Y.-R. Lu(盧英睿), C.-L. Dong, D.-H. Wei*(魏大華), S.-F. Hu*(胡淑芬), and R.-S. Liu*(劉如熹) , “Silicon Microwire Arrays Decorated with Amorphous Heterometal-doped Molybdenum Sulfide for Water Photoelectrolysis ”, Nano Energy **32**, 422 (2017) . (I.F.=13.12) ☆
6. Y. Huang, Z. Xu, J. Mai, T.-K. Lau, X. Lu, Y.-J. Hsu(許瑤真), Y. Chen, A. C. Lee, Y. Hou, Y. S. Meng, and Q. Li*(李泉) , “Revisiting the Origin of Cycling Enhanced Capacity of Fe₃O₄ Based Nanostructured Electrode for Lithium Ion Batteries ”, Nano Energy **41**, 426 (2017) . (I.F.=13.12) ☆
7. S.-J. Tsai*(蔡淑如), C.-Y. Lin, C.-L. Wang, J.-W. Chen, C.-H. Chen(陳家浩), and C.-L. Wu*(吳忠霖) , “Efficient Coupling of Lateral Force in GaN Nanorod Piezoelectric Nanogenerators by Vertically Integrated Pyramided Si Substrate ”, Nano Energy **37**, 260 (2017) . (I.F.=13.12) ☆
8. S. Hirai*, S. Yagi, W.-T. Chen, F.-C. Chou(周方正), N. Okazaki, T. Ohno, H. Suzuki, and T. Matsuda , “Non-fermi Liquids as Highly Active Oxygen Evolution Reaction Catalysts ”, Adv. Sci. **4**, 1700176 (2017) . (I.F.=12.441) ★
9. H. Yi, D. Yang, J. Xin, X. Qi, Y. Lan, Y. Deng*, C.-W. Pao(包志文), J.-F. Lee(李志甫), and A. Lei*(雷愛文) , “Unravelling the Hidden Link of Lithium Halides and Application in the Synthesis of Organocuprates ”, Nat. Commun. **8**, 14794 (2017) . (I.F.=12.353) ☆
10. B.-A. Chen, J.-T. Lin, N.-T. Suen, C.-W. Tsao, T.-C. Chu, Y.-Y. Hsu, T.-S. Chan(詹丁山), Y.-T. Chan, J.-S. Yang, C.-W. Chiu, and H. M. Chen*(陳浩銘) , “In Situ Identification of Photo- and Moisture-dependent Phase Evolution of Perovskite Solar Cells ”, ACS Energ. Lett. **2**, 342 (2017) . (I.F.=12.277) ☆
11. C.-M. Tsai, N. Mohanta, C.-Y. Wang, Y.-P. Lin, Y.-W. Yang(楊耀文), C.-L. Wang, C.-H. Hung, and E. W.-G. Diau*(刁維光) , “Formation of Stable Tin Perovskites Co-crystallized with Three Halides for Carbon-based Mesoscopic Lead-free Perovskite Solar Cells ”, Angew. Chem. Int. Edit. **56**, 13819 (2017) . (I.F.=12.102) ☆
12. P.-T. Yu, C. Tsao, C.-C. Wang(王俊杰), C.-Y. Chang, C.-H. Wang(王嘉興), and J. C. C. Chan*(陳振中) , “High-Magnesium Calcite Mesocrystals: Formation in Aqueous Solution under Ambient Conditions ”, Angew. Chem. Int. Edit. **56**, 16202 (2017) . (I.F.=12.102) ☆
13. A. Johansson, P. Myllyperkio, P. Koskinen, J. Aumanen, J. Koivisto, H.-C. Tsai, C.-H. Chen(陳家浩), L.-Y. Chang(張羅嶽), V.-M. Hiltunen, J. J. Manninen, W. Y. Woon, and M. Pettersson* , “Optical Forging of Graphene into Three-dimensional Shapes ”, Nano Lett. **17**, 6469 (2017) . (I.F.=12.08) ☆
14. T. A. Berhe, J.-H. Cheng, W.-N. Su*(蘇威年), C.-J. Pan, M.-C. Tsai, H.-M. Chen, Z. Yang, H. Tan, C.-H. Chen, M.-H. Yeh, A. G. Tamirat, S.-F. Huang, L.-Y. Chen, J.-F. Lee(李志甫), Y.-F. Liao(廖彥發), E. H. Sargent*, H. Dai, and B.-J. Hwang*(黃炳照) , “Identification of the Physical Origin Behind Disorder, Heterogeneity, and Reconstruction and Their

Correlation with the Photoluminescence Lifetime in Hybrid Perovskite Thin Films ”, J. Mater. Chem. A **5**, 21002 (2017) . (I.F.=9.931) ☆

15. C.-C. Chang, J.-F. Lee(李志甫), and S. Cheng*(鄭淑芬), “Highly Catalytically Active Micro/Meso-porous Ti-MCM-36 Prepared by a Grafting Method ”, J. Mater. Chem. A **5**, 15676 (2017) . (I.F.=9.931) ☆
16. Y.-C. Chen, Y.-G. Lin(林彥谷), and Y.-K. Hsu*(徐裕奎) , “Biomimicry of Cuscuta Electrode Design Endows Hybrid Capacitor with Ultrahigh Energy Density Exceeding 2 mW h cm^{-2} at a Power Delivery of 25 mW cm^{-2} ”, J. Mater. Chem. A **5**, 4779 (2017) . (I.F.=9.931) ☆
17. H.-C. Huang, Y.-C. Lin, S.-T. Chang, C.-C. Liu, K.-C. Wang, H.-P. Jhong, J.-F. Lee(李志甫), and C.-H. Wang*(王丞浩) , “Effect of a Sulfur and Nitrogen Dual-doped Fe-N-S Electrocatalyst for the Oxygen Reduction Reaction ”, J. Mater. Chem. A **5**, 19790 (2017) . (I.F.=9.931) ☆
18. C.-H. Lim, B. Selvaraj, Y.-F. Song(宋艷芳), C.-C. Wang(王俊杰), J.-T. Jin, S.-S. Huang, C.-H. Chuang, H. S. Sheu(許火順), Y.-F. Liao(廖彥發), and N.-L. Wu*(吳乃立) , “Insight into Microstructural and Phase Transformations in Electrochemical Sodiation-desodiation of a Bismuth Particulate Anode ”, J. Mater. Chem. A **5**, 21536 (2017) . (I.F.=9.931) ☆
19. M. Chen, Z. Xia*(夏志國), M. S. Molokeev, C. C. Lin, C. Su, Y.-C. Chuang(莊裕鈞), and Q. Liu , “Probing Eu²⁺ Luminescence from Different Crystallographic Sites in Ca₁₀M(PO₄)₇:Eu²⁺ (M = Li, Na, and K) with β-Ca₃(PO₄)₂-type Structure ”, Chem. Mater. **29**, 7563 (2017) . (I.F.=9.89) ☆
20. L.-M. Lyu, Y.-C. Kao, D. A. Cullen, B. T. Sneed, Y.-C. Chuang(莊裕鈞), and C.-H. Kuo*(郭俊宏) , “Spiny Rhombic Dodecahedral CuPt Nanoframes with Enhanced Catalytic Performance Synthesized from Cu Nanocube Templates ”, Chem. Mater. **29**, 5681 (2017) . (I.F.=9.89) ☆
21. F.-M. Wang*(王復民), S. A. Pradanawati, N.-H. Yeh, S.-C. Chang, Y.-T. Yang, S.-H. Huang, P.-L. Lin, J.-F. Lee(李志甫), H.-S. Sheu(許火順), M.-L. Lu(呂孟霖), C.-K. Chang(張仲凱), A. Ramar, and C.-H. Su , “Robust Benzimidazole-based Electrolyte Overcomes High-voltage and High-temperature Applications in 5 V Class Lithium Ion Batteries ”, Chem. Mater. **29**, 5537 (2017) . (I.F.=9.89) ☆
22. W.-L. Wu, M.-H. Fang, W. Zhou, T. Lesniewski, S. Mahlik, M. Grinberg, M. G. Brik, H.-S. Sheu(許火順), B.-M. Cheng(鄭炳銘), J. Wang, and R.-S. Liu*(劉如熹) , “High Color Rendering Index of Rb₂GeF₆:Mn⁴⁺ for Light-emitting Diodes ”, Chem. Mater. **29**, 935 (2017) . (I.F.=9.89) ☆
23. X. Zhang, M.-H. Fang, Y.-T. Tsai, A. Lazarowska*, S. Mahlik, T. Lesniewski, M. Grinberg, W. K. Pang, F. Pan, C. Liang, W. Zhou, J. Wang, J.-F. Lee(李志甫), B.-M. Cheng(鄭炳銘), T.-L. Hung, Y.-Y. Chen, and R.-S. Liu*(劉如熹) , “Controlling of Structural Ordering and Rigidity of β-SiAlON:Eu through Chemical Cosubstitution to Approach Narrow-Band-emission for Light-emitting Diodes Application ”, Chem. Mater. **29**, 6781 (2017) . (I.F.=9.89) ☆
24. G. Fabbris*, D. Meyers, L. Xu, V. M. Katukuri, L. Hozoi, X. Liu, Z.-Y. Chen, J. Okamoto(岡本淳), T. Schmitt, A. Uldry, B. Delley, G. D. Gu, D. Prabhakaran, A. T. Boothroyd, J. van den Brink, D. J. Huang(黃迪靖), and M. P. M. Dean* , “Doping Dependence of Collective Spin and Orbital Excitations in the Spin-1 Quantum Antiferromagnet La_{2-x}Sr_xNiO₄ Observed by X Rays ”, Phys. Rev. Lett. **118**, 156402 (2017) . (I.F.=8.839) ☆
25. K. Tomiyasu*, J. Okamoto(岡本淳), H. Y. Huang(黃筱好), Z. Y. Chen, E. P. Sinaga, W. B. Wu(吳文斌), Y. Y. Chu(朱晏誼), A. Singh(辛艾蒙), R.-P. Wang, F. M. F. de Groot, A. Chainani, S. Ishihara, C. T. Chen(陳建德), and D. J. Huang(黃迪靖) , “Coulomb Correlations Intertwined with Spin and Orbital Excitations in LaCoO₃ ”, Phys. Rev. Lett. **119**, 196402 (2017) . (I.F.=8.839) ☆
26. Y.-M. Chang, M.-L. Lin, T.-Y. Lai, C.-H. Chen, H.-Y. Lee(李信義), C.-M. Lin, Y.-C. S. Wu, Y.-F. Lin*(林彥甫), and J.-Y. Juang*(莊振益) , “Broadband Omnidirectional Light Trapping in Gold-decorated ZnO Nanopillar Arrays ”, ACS Appl. Mater. Interfaces **9**, 11985 (2017) . (I.F.=8.097) ☆
27. Y.-C. Chien, W.-T. Chuang(莊偉綜), U.-S. Jeng(鄭有舜), and S.-H. Hsu*(徐善慧) , “Preparation, Characterization, and Mechanism for Biodegradable and Biocompatible Polyurethane Shape Memory Elastomers ”, ACS Appl. Mater. Interfaces **9**, 5419 (2017) . (I.F.=8.097) ☆
28. K.-E. Hung, C.-E. Tsai, S.-L. Chang, Y.-Y. Lai, U.-S. Jeng(鄭有舜), F.-Y. Cao, C.-S. Hsu, C.-J. Su(蘇群仁), and Y.-J. Cheng*(鄭彥如) , “Bispentafluorophenyl-containing Additive: Enhancing Efficiency and Morphological Stability of Polymer Solar Cells via Hand-grabbing-like Supramolecular Pentafluorophenyl-fullerene Interactions ”, ACS Appl. Mater. Interfaces **9**, 43861 (2017) . (I.F.=8.097) ☆
29. Z. Li, J. Zheng, Y. Zhang*(張豫鵬), C. Zheng, W.-Y. Woon, M.-C. Chuang, H.-C. Tsai, C.-H. Chen(陳家浩), A. Davis,

Z.-Q. Xu, J. Lin, H. Zhang, and Q. Bao*(鮑橋梁), “Synthesis of Ultrathin Composition Graded Doped Lateral WSe₂/WS₂ Heterostructures”, ACS Appl. Mater. Interfaces **9**, 34204 (2017). (I.F.=8.097) ☆

30. N. Zhang, Y.-T. Tsai, M.-H. Fang, C.-G. Ma*, A. Lazarowska, S. Mahlik, M. Grinberg, C.-Y. Chiang, W. Zhou, J. G. Lin, J.-F. Lee(李志甫), J. Zheng, C. Guo*, and R.-S. Liu*(劉如熹), “Aluminate Red Phosphor in Light-emitting Diodes: Theoretical Calculations, Charge Varieties, and High-Pressure Luminescence Analysis”, ACS Appl. Mater. Interfaces **9**, 23995 (2017). (I.F.=8.097) ☆
31. W.-C. Liu, Y.-H. Chiu, Y.-Y. Kung, P.-Y. Liao, C.-H. Cheng, Y.-C. Chih, Y.-W. Tsai, C.-H. Chu(朱家宏), C.-H. Lai, D.-J. Huang(黃迪靖), Y.-L. Soo(蘇雲良), and S.-L. Chang*(張石麟), “Revisiting La_{0.5}Sr_{1.5}MnO₄ Lattice Distortion and Charge Ordering with Multi-beam Resonant Diffraction”, Acta Crystallogr. A **73**, 46 (2017). (I.F.=7.93) ☆
32. A. Johansson, H.-C. Tsai, J. Aumanen, J. Koivistoisen, P. Myllyperkio, Y.-Z. Hung, M.-C. Chuang, C.-H. Chen(陳家浩), W. Y. Woon*(溫偉源), and M. Pettersson*, “Chemical Composition of Two-photon Oxidized Graphene”, Carbon **115**, 77 (2017). (I.F.=7.082) ☆
33. H.-C. Wu, T.-C. Chen, Y.-C. Chen, J.-F. Lee(李志甫), C.-S. Chen*(陳敬勳), “Formaldehyde Oxidation on Silica-supported Pt Catalysts: The Influence of Thermal Pretreatments on Particle Formation and on Oxidation Mechanism”, J. Catal. **355**, 87 (2017). (I.F.=6.759) ☆
34. P. Zhang, C.-H. Liu, L. Chen, J.-M. Chen(陳錦明), Y. Guan*(關業軍), and P. Wu*(吳鵬), “Factors Influencing the Activity of SiO₂ Supported Bimetal Pd-Ni Catalyst for Hydrogenation of α -angelica Lactone: Oxidation State, Particle Size, and Solvents”, J. Catal. **351**, 10 (2017). (I.F.=6.759) ☆
35. L. Yan, H. Tu, T. Chan(詹丁山), and C. Jing*(景傳勇), “Mechanistic Study of Simultaneous Arsenic and Fluoride Removal Using Granular TiO₂-La Adsorbent”, Chem. Eng. J. **313**, 983 (2017). (I.F.=6.735) ☆
36. L. Yan, J. Song, T. Chan(詹丁山), and C. Jing*(景傳勇), “Insights into Antimony Adsorption on {001} TiO₂: XAFS and DFT Study”, Environ. Sci. Technol. **51**, 6335 (2017). (I.F.=6.653) ☆
37. Y. Wu, Z. Huang, Y. Luo, D. Liu, Y. Deng, H. Yi, J.-F. Lee(李志甫), C.-W. Pao(包志文), J.-L. Chen(陳政龍), and A. Lei*(雷愛文), “X-ray Absorption and Electron Paramagnetic Resonance Guided Discovery of the Cu-catalyzed Synthesis of Multiaryl-substituted Furans from Aryl Styrene and Ketones Using DMSO as the Oxidant”, Org. Lett. **19**, 2330 (2017). (I.F.=6.492) ☆
38. L. Zeng, S. Tang, D. Wang, Y. Deng, J.-L. Chen(陳政龍), J.-F. Lee(李志甫), and A. Lei*(雷愛文), “Cobalt-catalyzed Intramolecular Oxidative C(sp³)-H/N-H Carbonylation of Aliphatic Amides”, Org. Lett. **19**, 2170 (2017). (I.F.=6.492) ☆
39. J.-l. Cui, C.-L. Luo, C. W. Tang, T.-S. Chan(詹丁山), X.-D. Li*(李向東), “Speciation and Leaching of Trace Metal Contaminants from e-waste Contaminated Soils”, J. Hazard. Mater. **329**, 150 (2017). (I.F.=6.434) ☆
40. H. Yi, H. Chen, C. Bian, Z. Tang, A. K. Singh, X. Qi, X. Yue, Y. Lan, J.-F. Lee(李志甫), and A. Lei*(雷愛文), “Coordination Strategy-induced Selective C-H Amination of 8-aminoquinolines”, Chem. Commun. **53**, 6736 (2017). (I.F.=6.29) ☆
41. H. Yi, Z. Tang, C. Bian, H. Chen, X. Qi, X. Yue, Y. Lan, J.-F. Lee(李志甫), and A. Lei*(雷愛文), “Oxidation-induced C-H Amination Leads to a New Avenue to Build C-N Bonds”, Chem. Commun. **53**, 8984 (2017). (I.F.=6.29) ☆
42. H.-W. Chang, C.-L. Dong*(董崇禮), Y.-R. Lu, Y.-C. Huang, J.-L. Chen(陳政龍), C. L. Chen(陳啟亮), W.-C. Chou, Y.-C. Tsai*(蔡毓楨), J.-M. Chen(陳錦明), and J.-F. Lee(李志甫), “X-ray Absorption Spectroscopic Study on Interfacial Electronic Properties of FeOOH/Reduced Graphene Oxide for Asymmetric Supercapacitors”, ACS Sustain. Chem. Eng. **5**, 3186 (2017). (I.F.=6.14) ☆
43. Y.-C. Chen, Z.-B. Chen, Y.-G. Lin(林彥谷), and Y.-K. Hsu*(徐裕奎), “Synthesis of Copper Phosphide Nanotube Arrays as Electrodes for Asymmetric Supercapacitors”, ACS Sustain. Chem. Eng. **5**, 3863 (2017). (I.F.=6.14) ☆
44. H.-C. Huang, S.-T. Chang(張孫堂), H.-C. Hsu, H.-Y. Du, C.-H. Wang*(王丞浩), L.-C. Chen*(陳麗秋), and K.-H. Chen*(陳貴賢), “Pyrolysis of Iron-vitamin B9 as a Potential Nonprecious Metal Electrocatalyst for Oxygen Reduction Reaction”, ACS Sustain. Chem. Eng. **5**, 2897 (2017). (I.F.=6.14) ☆
45. P.-J. Yen, C.-C. Ting, Y.-C. Chiu, T.-Y. Tseng, Y.-J. Hsu(許瑤真), W.-W. Wu, and K.-H. Wei*(韋光華), “Facile Production of Graphene Nanosheets Comprising Nitrogen-doping through in Situ Cathodic Plasma Formation during Electrochemical Exfoliation”, J. Mater. Chem. C **5**, 2597 (2017). (I.F.=5.976) ☆
46. H.-F. Wang, C.-H. Chiang, W.-C. Hsu, T. Wen, W.-T. Chuang(莊偉綜), B. Lotz, M.-C. Li*(李明家), and R.-M. Ho*(何

榮銘), “Handedness of Twisted Lamella in Banded Spherulite of Chiral Polylactides and Their Blends”, *Macromolecules* **50**, 5466 (2017). (I.F.=5.914) ☆

47. Y.-C. Chen, J.-H. Hsu, Y.-G. Lin(林彥谷), and Y.-K. Hsu*(徐裕奎), “Silver Nanowires on Coffee Filter as Dual-sensing Functionality for Efficient and Low-cost SERS Substrate and Electrochemical Detection”, *Sensor. Actuat. B-Chem.* **245**, 189 (2017). (I.F.=5.667) ☆
48. B.-J. Hsieh, M.-C. Tsai, C.-J. Pan, W.-N. Su*(蘇威年), J. Ricka, H.-L. Chou, J.-F. Lee(李志甫), and B.-J. Hwang*(黃炳照), “Tuning Metal Support Interactions Enhances the Activity and Durability of TiO₂-supported Pt Nanocatalysts”, *Electrochim. Acta* **224**, 452 (2017). (I.F.=5.116) ☆
49. A. Jena, C.-H. Lee, W. K. Pang, V. K. Peterson, N. Sharma, C.-C. Wang(王俊杰), Y.-F. Song(宋艷芳), C.-C. Lin, H. Chang*(張合), and R.-S. Liu*(劉如熹), “Capacity Enhancement of the Quenched Li-Ni-Mn-Co Oxide High-voltage Li-ion Battery Positive Electrode”, *Electrochim. Acta* **236**, 10 (2017). (I.F.=5.116) ☆
50. C.-C. Cheng*(鄭智嘉), J.-H. Wang, W.-T. Chuang(莊偉綜), Z.-S. Liao, J.-J. Huang, S.-Y. Huang, W.-L. Fan, and D.-J. Lee, “Dynamic Supramolecular Self-assembly: Hydrogen Bonding-induced Contraction and Extension of Functional Polymers”, *Polym. Chem.* **8**, 3294 (2017). (I.F.=4.927) ☆
51. D.-Y. Chiou, F.-Y. Cao, J.-Y. Hsu, C.-E. Tsai, Y.-Y. Lai, U.-S. Jeng(鄭有舜), J. Zhang, H. Yan, C.-J. Su(蘇群仁), and Y.-J. Cheng*(鄭彥如), “Synthesis and Side-chain Isomeric Effect of 4,9-/5,10-dialkylated-β-angular-shaped Naphthodithiophenes-based Donor-acceptor Copolymers for Polymer Solar Cells and Field-effect Transistors”, *Polym. Chem.* **8**, 2334 (2017). (I.F.=4.927) ☆
52. C.-W. Chen, W.-J. Syu, T.-C. Huang, Y.-C. Lee(李耀昌), J.-K. Hsiao, K.-Y. Huang, H.-P. Yu, M.-Y. Liao*(廖美儀), and P.-S. Lai*(賴秉杉), “Encapsulation of Au/Fe₃O₄ Nanoparticles into a Polymer Nanoarchitecture with Combined Near Infrared-triggered Chemo-photothermal Therapy Based on Intracellular Secondary Protein Understanding”, *J. Mater. Chem. B* **5**, 5774 (2017). (I.F.=4.776) ☆
53. K. T. Lai, A. C. Komarek, M. T. Fernández-Díaz, P.-S. Chang, S. Huh, H. Rosner, C.-Y. Kuo, Z. Hu, T.-W. Pi(皮敦文), P. Adler, V. Ksenofontov, L. H. Tjeng, and M. Valldor*, “Canted Antiferromagnetism on Rectangular Layers of Fe²⁺ in Polymorphic CaFeSeO”, *Inorg. Chem.* **56**, 4271 (2017). (I.F.=4.7) ☆
54. K. T. Lai*, P. Adler, Y. Prots, Z. Hu, C.-Y. Kuo, T.-W. Pi(皮敦文), and M. Valldor, “Successive Phase Transitions in Fe²⁺ Ladder Compounds Sr₂Fe₃Ch₂O₃ (Ch=S, Se)”, *Inorg. Chem.* **56**, 12606 (2017). (I.F.=4.7) ☆
55. S. Nemrava, D. A. Vinnik*, Z. Hu, M. Valldor, C.-Y. Kuo, D. A. Zhrebtssov, S. A. Gudkova, C.-T. Chen(陳建德), L. H. Tjeng, and R. Niewa, “Three Oxidation States of Manganese in the Barium Hexaferrite BaFe_{12-x}Mn_xO₁₉”, *Inorg. Chem.* **56**, 3861 (2017). (I.F.=4.7) ☆
56. O. Sichevych, Y. Prots*, Y. Utsumi, L. Akselrud, M. Schmidt, U. Burkhardt, M. Coduri, W. Schnelle, M. Bobnar, Y.-T. Wang, Y.-H. Wu, K.-D. Tsuei(崔古鼎), L. H. Tjeng, and Y. Grin*, “Intermediate-valence Ytterbium Compound Yb₄Ga₂₄Pt₉: Synthesis, Crystal Structure, and Physical Properties”, *Inorg. Chem.* **56**, 9343 (2017). (I.F.=4.7) ☆
57. J. Yang, J. Dai, Z. Liu, R. Yu, H. Hojo, Z. Hu, T. Pi(皮敦文), Y. Soo, C. Jin, M. Azuma*, and Y. Long*(龍有文), “High-pressure Synthesis of the Cobalt Pyrochlore Oxide Pb₂Co₂O₇ with Large Cation Mixed Occupancy”, *Inorg. Chem.* **56**, 11676 (2017). (I.F.=4.7) ☆
58. X. Zhang, G. Wang, J. Zou, Y. Li*(李玉陽), W. Li, T. Li, H. Jin, Z. Zhou, and Y.-Y. Lee(李英裕), “Investigation on the Oxidation Chemistry of Methanol in Laminar Premixed Flames”, *Combust. Flame* **180**, 20 (2017). (I.F.=4.494) ☆
59. Y.-T. Chen, A. Jena, W. K. Pang, V. K. Peterson, H.-S. Sheu(許火順), H. Chang*(張合), and R.-S. Liu*(劉如熹), “Voltammetric Enhancement of Li-ion Conduction in Al-doped Li_{7-x}La₃Zr₂O₁₂ Solid Electrolyte”, *J. Phys. Chem. C* **121**, 15565 (2017). (I.F.=4.484) ☆
60. H. Liu, J. Zhou, L. Zhang, Z. Hu, C. Kuo, J. Li, Y. Wang, L. H. Tjeng, T.-W. Pi(皮敦文), A. Tanaka, L. Song*(宋禮), J.-Q. Wang*(王建強), and S. Zhang*, “Insight into the Role of Metal-oxygen Bond and O 2p Hole in High-voltage Cathode LiNi_xMn_{2-x}O₄”, *J. Phys. Chem. C* **121**, 16079 (2017). (I.F.=4.484) ☆
61. G. Long, R. Shi, Y. Zhou, A. Li, B. Kan, W.-R. Wu(吳瑋儒), U.-S. Jeng(鄭有舜), T. Xu, T. Yan, M. Zhang, X. Yang, X. Ke, L. Sun, A. Gray-Weales, X. Wan, H. Zhang, C. Li, Y. Wang*(王延廷), and Y. Chen*(陳永勝), “Molecular Origin of Donor- and Acceptor-rich Domain Formation in Bulk-heterojunction Solar Cells with an Enhanced Charge Transport Efficiency”, *J. Phys. Chem. C* **121**, 5864 (2017). (I.F.=4.484) ☆
62. T. T. Wang, P. Raghunath, Y. G. Lin(林彥谷), and M. C. Lin*(林明璋), “Synergistic Effect of Hydrogenation and

- Thiocyanate Treatments on Ag-loaded TiO₂ Nanoparticles for Solar-to-hydrogen Conversion ", J. Phys. Chem. C **124**, 9681 (2017) . (I.F.=4.484) ☆
63. B. Jia, Y. Wu, F. Zhao, C. Yan, S. Zhu, P. Cheng, J. Mai, T.-K. Lau, X. Lu, C.-J. Su(蘇群仁), C. Wang, and X. Zhan*(占尚衛) , "Rhodanine Flanked Indacenodithiophene as Non-fullerene Acceptor for Efficient Polymer Solar Cells ", Sci. China-Chem. **60**, 257 (2017) . (I.F.=4.448) ☆
64. C.-C. Cheng*(鄭智嘉), W.-T. Chuang(莊偉綜), D.-J. Lee, Z. Xin, and C.-W. Chiu , "Supramolecular Polymer Network-mediated Self-assembly of Semicrystalline Polymers with Excellent Crystalline Performance ", Macromol. Rapid Comm. **38**, 1600702 (2017) . (I.F.=4.441) ☆
65. S. Sinha*, C.-H. Wang(王嘉興), and M. Mukherjee , "Energy Level Alignment and Molecular Conformation at Rubrene/Ag Interfaces: Impact of Contact Contaminations on the Interfaces ", Appl. Surf. Sci. **409**, 22 (2017) . (I.F.=4.439) ☆
66. L. Chai, J. Yang, N. Zhang, P.-J. Wu(吳品鈞), Q. Li*(李青竹), Q. Wang, H. Liu, and H. Yi , "Structure and Spectroscopic Study of Aqueous Fe(III)-As(V) Complexes Using UV-Vis, XAS and DFT-TDDFT ", Chemosphere **182**, 595 (2017) . (I.F.=4.427) ☆
67. C.-L. Chiang, K.-S. Lin*(林錦松), H.-W. Chuang, and C.-M. Wu(吳浚銘) , "Conversion of Hydrogen/Carbon Dioxide into Formic Acid and Methanol over Cu/CuCr₂O₄ Catalyst ", Int. J. Hydrogen Energ. **42**, 23647 (2017) . (I.F.=4.229) ☆
68. C.-L. Chiang, K.-S. Lin*(林錦松), S.-H. Yu, and Y.-G. Lin(林彥谷) , "Synthesis and Characterization of H₃PW₁₂O₄₀/Ce_{0.1}Ti_{0.9}O₂ for Dimethyl Carbonate Formation via Methanol Carbonation ", Int. J. Hydrogen Energ. **42**, 22108 (2017) . (I.F.=4.229) ☆
69. C.-L. Chiang, K.-S. Lin*(林錦松), P.-J. Hsu, and Y.-G. Lin(林彥谷) , "Synthesis and Characterization of Magnetic Zinc and Manganese Ferrite Catalysts for Decomposition of Carbon Dioxide into Methane ", Int. J. Hydrogen Energ. **42**, 22123 (2017) . (I.F.=4.229) ☆
70. T.-Y. Chen*(陳燦耀), Y. Zhang, L.-C. Hsu(許良境), A. Hu*, Y. Zhuang, C.-M. Fan, C.-Y. Wang, T.-Y. Chung, C.-S. Tsao, and H.-Y. Chuang , "Crystal Shape Controlled H₂ Storage Rate in Nanoporous Carbon Composite with Ultra-fine Pt Nanoparticle ", Sci. Rep.-UK **7**, 42438 (2017) . (I.F.=4.122) ☆
71. C.-H. Chuang, S. C. Ray*, D. Mazumder, S. Sharma, A. Ganguly, P. Papakonstantinou, J.-W. Chiou, H.-M. Tsai(蔡煌銘), H.-W. Shiu(許紜瑋), C.-H. Chen(陳家浩), H.-J. Lin(林宏基), J. Guo, and W.-F. Pong*(彭維鋒) , "Chemical Modification of Graphene Oxide by Nitrogenation: An X-ray Absorption and Emission Spectroscopy Study ", Sci. Rep.-UK **7**, 42235 (2017) . (I.F.=4.122) ☆
72. S. H. Hsieh, R. S. Solanki, Y. F. Wang, Y. C. Shao, S. H. Lee, C. H. Yao, C. H. Du, H. T. Wang, J. W. Chiou, Y. Y. Chin(秦伊瑩), H. M. Tsai(蔡煌銘), J.-L. Chen(陳政龍), C. W. Pao(包志文), C.-M. Cheng(鄭澄懋), W.-C. Chen(陳韋全), H. J. Lin(林宏基), J. F. Lee(李志甫), F. C. Chou, and W. F. Pong*(彭維鋒) , "Anisotropy in the Thermal Hysteresis of Resistivity and Charge Density Wave Nature of Single Crystal SrFeO_{3-δ}: X-ray Absorption and Photoemission Studies ", Sci. Rep.-UK **7**, 161 (2017) . (I.F.=4.122) ☆
73. C.-H. Lee, C.-W. Wang(王進威), Y. Zhao, W.-H. Li*(李文献), J. W. Lynn, A. B. Harris, K. Rule, H.-D. Yang, and H. Berger , "Complex Magnetic Incommensurability and Electronic Charge Transfer Through the Ferroelectric Transition in Multiferroic Co₃TeO₆ ", Sci. Rep.-UK **7**, 6437 (2017) . (I.F.=4.122) ☆
74. S.-K. Lin*(林士剛), Y.-C. Liu, S.-J. Chiu(邱上睿), Y.-T. Liu(劉晏廷), and H.-Y. Lee(李信義) , "The Electromigration Effect Revisited: Non-uniform Local Tensile Stress-driven Diffusion ", Sci. Rep.-UK **7**, 3082 (2017) . (I.F.=4.122) ☆
75. S. Nishiyama, H. Fujita, M. Hoshi, X. Miao, T. Terao, X. Yang, T. Miyazaki, H. Goto, T. Kagayama, K. Shimizu, H. Yamaoka, H. Ishii(石井啟文), Y.-F. Liao(廖彥發), and Y. Kubozono* , "Preparation and Characterization of a New Graphite Superconductor: Ca_{0.5}Sr_{0.5}C₆ ", Sci. Rep.-UK **7**, 7436 (2017) . (I.F.=4.122) ☆
76. H. Niwa*, M. Takachi, J. Okamoto(岡本淳), W.-B. Wu(吳文斌), Y.-Y. Chu(朱晏誼), A. Singh(辛艾蒙), D.-J. Huang(黃迪靖), and Y. Moritomo* , "Strong Localization of Oxidized Co³⁺ State in Cobalt-hexacyanoferrate ", Sci. Rep.-UK **7**, 16579 (2017) . (I.F.=4.122) ☆
77. H.-T. Wang, M. K. Srivastava, C.-C. Wu, S.-H. Hsieh, Y.-F. Wang, Y.-C. Shao, Y.-H. Liang, C.-H. Du, J.-W. Chiou, C.-M. Cheng(鄭澄懋), J.-L. Chen(陳政龍), C.-W. Pao(包志文), J.-F. Lee(李志甫), C. N. Kuo, C. S. Lue, M.-K. Wu, and W.-F. Pong*(彭維鋒) , "Electronic and Atomic Structures of the Sr₃Ir₄Sn₁₃ Single Crystal: A Possible Charge Density Wave Material ", Sci. Rep.-UK **7**, 40886 (2017) . (I.F.=4.122) ☆
78. H. Yamaoka*, N. Tsujii, M.-T. Suzuki, Y. Yamamoto, I. Jarrige, H. Sato, J.-F. Lin, T. Mito, J. Mizuki, H. Sakurai, O.

- Sakai, N. Hiraoka(平岡望), H. Ishii(石井啟文), K.-D. Tsuei(崔古鼎), M. Giovannini, and E. Bauer , “Pressure-induced Anomalous Valence Crossover in Cubic YbCu₅-based Compounds ”, *Sci. Rep.-UK* **7** , 5846 (2017) . (I.F.=4.122) ☆
79. H.-L. Huang, H.-Y. Lin, P.-S. Chen, J.-J. Lee(李之釗), H.-C. Kung, and S.-L. Wang*(王素蘭) , “A Highly Flexible Inorganic Framework with Amphiphilic Amine Assemblies as Templates ”, *Dalton T.* **46** , 364 (2017) . (I.F.=4.099) ☆
80. I. C. Liang, C. Y. Weng, C. Huang, C. K. Chang(張仲凱), H. S. Sheu(許火順), J. G. Lin, and K. F. Hsu*(許桂芳) , “New Metal Chalcogenides Found in Mn_{N-1}(Gd_{2-x}In_x) S_{N+2} (N = 3, 4, 5): Syntheses, Structures, and Magnetic Properties ”, *Dalton T.* **46** , 1228 (2017) . (I.F.=4.099) ☆
81. Y. H. Lin, D.-C. Qiu, W.-H. Chang, Y.-Q. Yeh(葉奕琪), U.-S. Jeng(鄭有舜), F.-T. Liu, and J.-R. Huang*(黃介嶸) , “The Intrinsically Disordered N-terminal Domain of Galectin-3 Dynamically Mediates Multisite Self-association of the Protein Through Fuzzy Interactions ”, *J. Biol. Chem.* **292** , 17845 (2017) . (I.F.=4.01) ☆
82. C.-Y. Chang, Y.-C. Huang, C.-S. Tsao*(曹正熙), C.-A. Chen, C.-J. Su(蘇群仁), and W.-F. Su*(林唯芳) , “Quantitative Correlation of the Effects of Crystallinity and Additives on Nanomorphology and Solar Cell Performance of Isoindigo-based Copolymers ”, *Phys. Chem. Chem. Phys.* **19** , 23515 (2017) . (I.F.=3.906) ☆
83. C.-S. Hsu, N.-T. Suen, Y.-Y. Hsu, H.-Y. Lin, C.-W. Tung, Y.-F. Liao(廖彥發), T.-S. Chan(詹丁山), H.-S. Sheu(許火順), S.-Y. Chen, and H. M. Chen*(陳浩銘) , “Valence- and Element-dependent Water Oxidation Behaviors: in Situ X-ray Diffraction, Absorption and Electrochemical Impedance Spectroscopies ”, *Phys. Chem. Chem. Phys.* **19** , 8681 (2017) . (I.F.=3.906) ☆
84. P.-W. Hsu, Z.-H. Liao, T.-C. Hung, H. Lee, Y.-C. Wu, Y.-L. Lai(賴玉鈴), Y.-J. Hsu(許瑤真), Y. Lin, J.-H. Wang*(王禎翰), and M.-F. Luo*(羅夢凡) , “Formation and Structures of Au-Rh Bimetallic Nanoclusters Supported on a Thin Film of Al₂O₃/NiAl(100) ”, *Phys. Chem. Chem. Phys.* **19** , 14566 (2017) . (I.F.=3.906) ☆
85. H.-W. Yen*(顏宏偉), P.-W. Chen, C.-Y. Hsu, and L. Lee(李寧) , “The Use of Autotrophic Chlorella Vulgaris in Chromium (VI) Reduction under Different Reduction Conditions ”, *J. Taiwan Inst. Chem. Eng.* **74** , 1 (2017) . (I.F.=3.849) ☆
86. S. Agrestini, C.-Y. Kuo, D. Mikhailova*, K. Chen, P. Ohresser, T. W. Pi(皮敦文), H. Guo, A. C. Komarek, A. Tanaka, Z. Hu, and L. H. Tjeng , “Intricacies of the Co³⁺ Spin State in Sr₂Co_{0.5}Ir_{0.5}O₄: An X-ray Absorption and Magnetic Circular Dichroism Study ”, *Phys. Rev. B* **95** , 245131 (2017) . (I.F.=3.813) ☆
87. S. Agrestini, C.-Y. Kuo, K.-T. Ko, Z. Hu, D. Kasinathan, H. B. Vasili, J. Herrero-Martin, S. M. Valvidares, E. Pellegrin, L.-Y. Jang(張凌雲), A. Henschel, M. Schmidt, A. Tanaka, and L. H. Tjeng , “Electronically Highly Cubic Conditions for Ru in α -RuCl₃ ”, *Phys. Rev. B* **96** , 161107(R) (2017) . (I.F.=3.813) ☆
88. A. K. Efimenko, N. Hollmann, K. Hoefer, J. Weinen, D. Takegami, K. K. Wolff, S. G. Altendorf, Z. Hu, A. D. Rata, A. C. Komarek, A. A. Nugroho, Y. F. Liao(廖彥發), K.-D. Tsuei(崔古鼎), H. H. Hsieh, H.-J. Lin(林宏基), C. T. Chen(陳建德), L. H. Tjeng*, and D. Kasinathan , “Electronic Signature of the Vacancy Ordering in NbO (Nb₃O₃) ”, *Phys. Rev. B* **96** , 195112 (2017) . (I.F.=3.813) ☆
89. S. Hosokawa*, J. R. Stellhorn, T. Matsushita, N. Hoppo, K. Kimura, K. Hayashi, Y. Ebisu, T. Ozaki, H. Ikemoto, H. Setoyama, T. Okajima, Y. Yoda, H. Ishii(石井啟文), Y.-F. Liao(廖彥發), M. Kitaura, and M. Sasaki , “Impurity Position and Lattice Distortion in a Mn-doped Bi₂Te₃ Topological Insulator Investigated by X-ray Fluorescence Holography and X-ray Absorption Fine Structure ”, *Phys. Rev. B* **96** , 214207 (2017) . (I.F.=3.813) ☆
90. W. B. Jiang, M. Smidman*, W. Xie, J. Y. Liu, J. M. Lee(李振民), J. M. Chen(陳錦明), S. C. Ho, H. Ishii(石井啟文), K. D. Tsuei(崔古鼎), C. Y. Guo, Y. J. Zhang, H. Lee, and H. Q. Yuan* , “Antiferromagnetism with Divalent Eu in EuNi₅As₃ ”, *Phys. Rev. B* **95** , 024416 (2017) . (I.F.=3.813) ☆
91. D. Meyers*, H. Miao, A. C. Walters, V. Bisogni, R. S. Springell, M. d'Astuto, M. Dantz, J. Pelliciari, H. Y. Huang(黃筱妤), J. Okamoto(岡本淳), D. J. Huang(黃迪清), J. P. Hill, X. He, I. Bozovic, T. Schmitt, and M. P. M. Dean* , “Doping Dependence of the Magnetic Excitations in La_{2-x}Sr_xCuO₄ ”, *Phys. Rev. B* **95** , 075139 (2017) . (I.F.=3.813) ☆
92. C.-M. Tu*(杜建明), Y.-C. Chen, P. Huang, P.-Y. Chuang, M.-Y. Lin, C.-M. Cheng(鄭澄懋), J.-Y. Lin, J.-Y. Juang, K.-H. Wu, J.-C. A. Huang*(黃榮俊), W.-F. Pong, T. Kobayashi, and C.-W. Luo*(羅志偉) , “Helicity-dependent Terahertz Emission Spectroscopy of Topological Insulator Sb₂Te₃ Thin Films ”, *Phys. Rev. B* **96** , 195407 (2017) . (I.F.=3.813) ☆
93. Y. Utsumi*, D. Kasinathan, K.-T. Ko, S. Agrestini, M. W. Haverkort, S. Wirth, Y-H. Wu, K-D. Tsuei(崔古鼎), D-J. Kim, Z. Fisk, A. Tanaka, P. Thalmeier, and L. H. Tjeng , “Bulk and Surface Electronic Properties of SmB₆: A Hard

- X-ray Photoelectron Spectroscopy Study ”, Phys. Rev. B **96**, 155130 (2017) . (I.F.=3.813) ☆
94. B.-Y. Wang*(王柏堯), M.-S. Tsai, C.-W. Huang, C.-W. Shih, C.-J. Chen, K. Lin, J.-J. Li, N.-Y. Jih, C.-I. Lu(呂俊毅), T.-H. Chuang(莊子弘), and D.-H. Wei(魏德新) , “Effects of the Antiferromagnetic Spin Structure on Antiferromagnetically Induced Perpendicular Magnetic Anisotropy ”, Phys. Rev. B **96**, 094416 (2017) . (I.F.=3.813) ☆
95. H. Yamaoka*, Y. Yamamoto, J.-F. Lin, J. J. Wu, X. Wang, C. Jin, M. Yoshida, S. Onari, S. Ishida, Y. Tsuchiya, N. Takeshita, N. Hiraoka(平岡望), H. Ishii(石井啟文), K.-D. Tsuei(崔古鼎), P. Chow, Y. Xiao, and J. Mizuki , “Electronic Structures and Spin States of BaFe₂As₂ and SrFe₂As₂ Probed by X-ray Emission Spectroscopy at Fe and As K-absorption Edges ”, Phys. Rev. B **96**, 085129 (2017) . (I.F.=3.813) ☆
96. B. Yue, F. Hong*, K.-D. Tsuei(崔古鼎), N. Hiraoka(平岡望), Y.-H. Wu(吳宇翰), V. M. Silkin, B. Chen, and H.-K. Mao , “High-energy Electronic Excitations in a Bulk MoS₂ Single Crystal ”, Phys. Rev. B **96**, 125118 (2017) . (I.F.=3.813) ☆
97. Y.-T. Chen, H.-S. Su, C.-H. Hung, P.-W. Yang, Y. Hu, T.-L. Lin*(林滄浪), M.-T. Lee(李明道), and U.-S. Jeng(鄭有舜) , “X-ray Reflectivity Studies on the Mixed Langmuir-blodgett Monolayers of Thiol-capped Gold Nanoparticles, Dipalmitoylphosphatidylcholine, and Sodium Dodecyl Sulfate ”, Langmuir **33**, 10886 (2017) . (I.F.=3.789) ☆
98. T. Y. Ou-Yang, Y. C. Zhuang, B. Ramachandran, W. T. Chen, G. J. Shu, C. D. Hu, F. C. Chou(周方正), and Y. K. Kuo*(郭永綱) , “Effect of Co Substitution on Thermoelectric Properties of FeSi ”, J. Alloy. Compd. **702**, 92 (2017) . (I.F.=3.779) ☆
99. P. Chandan, Y. T. Chen, T. M. Hsu, Y. M. Lin, M. K. Wu, H. S. Chang, C. C. Chang, H. S. Sheu(許火順), and H. Y. Tang*(唐宏怡) , “V₂O₅/C₃H₆N₆: A Hybrid Material with Reversible Lithium Intercalation/Deintercalation in a Wide Potential Range ”, J. Electrochem. Soc. **164**, A3191 (2017) . (I.F.=3.662) ☆
100. X. Leng, K.-H. Wu, B.-J. Su, L.-Y. Jang(張凌雲), I. R. Gentle, D.-W. Wang* , “Hydrotalcite-wrapped Co-B Alloy with Enhanced Oxygen Evolution Activity ”, Chin. J. Catal. **38**, 1021 (2017) . (I.F.=3.525) ☆
101. K. H. M. Chen, H. Y. Lin, S. R. Yang, C. K. Cheng, X. Q. Zhang, C. M. Cheng(鄭澄懋), S. F. Lee, C. H. Hsu(徐嘉鴻), Y. H. Lee, M. Hong(洪銘輝)*, and J. Kwo(郭瑞年)* , “Van Der Waals Epitaxy of Topological Insulator Bi₂Se₃ on Single Layer Transition Metal Dichalcogenide MoS₂ ”, Appl. Phys. Lett. **111**, 083106 (2017) . (I.F.=3.495) ☆
102. J.-Y. Liang, Y.-C. Pai, T.-N. Lam, W.-C. Lin, T.-S. Chan(詹丁山), C.-H. Lai, and Y.-C. Tseng*(曾院介) , “Using Magnetic Structure of Co₄₀Pd₆₀/Cu for the Sensing of Hydrogen ”, Appl. Phys. Lett. **111**, 023503 (2017) . (I.F.=3.495) ☆
103. V. T. Tra, R. Huang, X. Gao, Y.-J. Chen, Y. T. Liu, W. C. Kuo, Y. Y. Chin(秦伊瑩), H. J. Lin(林宏基), J. M. Chen(陳錦明), J. M. Lee(李振民), J. F. Lee(李志甫), P. S. Shi, M. G. Jiang, C. G. Duan, J. Y. Juang, C. T. Chen, H. T. Jeng, Q. He, Y.-D. Chuang, J.-Y. Lin*(林俊源), and Y.-H. Chu*(朱英豪) , “The Unconventional Doping in YBa₂Cu₃O_{7-x}/La_{0.7}Ca_{0.3}MnO₃ Heterostructures by Termination Control ”, Appl. Phys. Lett. **110**, 032402 (2017) . (I.F.=3.495) ☆
104. Y.-Z. Hong, W.-H. Chiang, H.-C. Tsai, M.-C. Chuang, Y.-C. Kuo(郭言謙), L.-Y. Chang(張羅嶽), C.-H. Chen(陳家浩), J.-D. White, and W.-Y. Woon* , “Local Oxidation and Reduction of Graphene ”, Nanotechnology **28**, 395704 (2017) . (I.F.=3.404) ☆
105. Y.-C. Chen, J.-H. Hsu, Z.-B. Chen, Y.-G. Lin(林彥谷), and Y.-K. Hsu*(徐裕奎) , “Fabrication of Fe₃O₄ Nanotube Arrays for High-performance Non-enzymatic Detection of Glucose ”, J. Electroanal. Chem. **788**, 144 (2017) . (I.F.=3.235) ☆
106. Y.-C. Chen, J.-H. Hsu, Y.-G. Lin(林彥谷), and Y.-K. Hsu*(徐裕奎) , “Synthesis of Fe₂O₃ Nanorods/Silver Nanowires on Coffee Filter as Low-cost and Efficient Electrodes for Supercapacitors ”, J. Electroanal. Chem. **801**, 65 (2017) . (I.F.=3.235) ☆
107. A. Bagger*, T. Haarman, A. P. Molina, P. G. Moses, H. Ishii(石井啟文), N. Hiraoka(平岡望), Y.-H. Wu(吳宇翰), K.-D. Tsuei(崔古鼎), I. Chorkendorff, and F. D. Groot , “1s2p Resonant Inelastic X-ray Scattering Combined Dipole and Quadrupole Analysis Method ”, J. Synchrotron Radiat. **24**, 296 (2017) . (I.F.=3.232) ☆
108. P.-C. Lin, Z.-H. Wu, M.-S. Chen, Y.-L. Li, W.-R. Chen, T.-P. Huang(黃自平), Y.-Y. Lee(李英裕), and C. C. Wang*(王家蓁) , “Interfacial Solvation and Surface pH of Phenol and Dihydroxybenzene Aqueous Nanoaerosols Unveiled by Aerosol UV Photoelectron Spectroscopy ”, J. Phys. Chem. B **121**, 1054 (2017) . (I.F.=3.146) ☆
109. H.-C. Yang*(楊小青), C.-H. Yang, M.-Y. Huang, J.-F. Lu, J.-S. Wang, Y.-Q. Yeh(葉奕琪), and U.-S. Jeng(鄭有舜)

- 舜) , “Homology Modeling and Molecular Dynamics Simulation Combined with X-ray Solution Scattering Defining Protein Structures of Thromboxane and Prostacyclin Synthases ”, *J. Phys. Chem. B* **121** , 11229 (2017) . (I.F.=3.146) ☆
110. A. C. Gandhi, T. S. Chan(詹丁山), J. Pant, and S. Y. Wu*(吳勝允) , “Strong Pinned-spin-mediated Memory Effect in NiO Nanoparticles ”, *Nanoscale Res. Lett.* **12** , 207 (2017) . (I.F.=3.125) ☆
111. Y.-T. Lin, P. V. Wadekar, H.-S. Kao, Y.-J. Zheng, Q. Y.-S. Chen, H.-C. Huang, C.-M. Cheng(鄭澄懋), N.-J. Ho, and L.-W. Tu*(杜立偉) , “Enhanced Ferromagnetic Interaction in Modulation-doped GaMnN Nanorods ”, *Nanoscale Res. Lett.* **12** , 287 (2017) . (I.F.=3.125) ☆
112. J. Zhu, T.-K. Lau, S. Yang, J. Mai, Y.-L. Lai(賴玉鈴), Y.-J. Hsu(許瑤真), H. Luo, X. Lu, and X. Xiao , “New Route for Fabrication of High-quality Zn(S,O) Buffer Layer at High Deposition Temperature on Cu(In,Ga)Se₂ Solar Cells ”, *IEEE J. Photovolt.* **7** , 651 (2017) . (I.F.=3.075) ☆
113. Y.-M. Su*, W. C. Huang, Y.-C. Liu, C.-K. Chang(張仲凱), and Y.-L. Kuo , “Utilization of Electric Arc Furnace Dust as Regenerable Sorbents for the Removal of Hydrogen Sulfide ”, *Ceram. Int.* **43** , S694 (2017) . (I.F.=3.057) ☆
114. Y. Zhang, C. Cao, Y. Li*(李玉陽), W. Yuan, X. Yang, J. Yang*, F. Qi, T.-P. Huang(黃自平), and Y.-Y. Lee(李英裕) , “Pyrolysis of n-Butylbenzene at Various Pressures: Influence of Long Side-chain Structure on Alkylbenzene Pyrolysis ”, *Energy Fuels* **31** , 14270 (2017) . (I.F.=3.024) ☆
115. Y. Ting, C.-S. Tu*(杜繼舜), P.-Y. Chen, C.-S. Chen, J. Anthoniappan, V. H. Schmidt, J.-M. Lee,(李振民) T.-S. Chan(詹丁山), W.-Y. Chen, and R.-W. Song , “Magnetization, Phonon, and X-ray Edge Absorption in Barium-doped BiFeO₃ Ceramics ”, *J. Mater. Sci.* **52** , 581 (2017) . (I.F.=2.993) ☆
116. Y. Tung, C. W. Chong*, C. W. Liao, C. H. Chang, S. Y. Huang, P. Y. Chuang, M. K. Lee, C. M. Cheng(鄭澄懋), Y. C. Li, C. P. Liu, and J. C. A. Huang*(黃榮俊) , “Tuning the Transport and Magnetism in a Cr-Bi₂Se₃ Topological Insulator by Sb Doping ”, *RSC Adv.* **7** , 47789 (2017) . (I.F.=2.936) ☆
117. Y. Wei, H. Jia, H. Xiao, M. M. Shang, C. C. Lin*, C. Su*(蘇昭瑾), T.-S. Chan(詹丁山), G. G. Li*, and J. Lin*(林君) , “Emitting-tunable Eu⁽²⁺³⁺⁾-doped Ca_(8-x)La_(2+x)(PO₄)_{6-x}(SiO₄)_xO₂ Apatite Phosphor for n-UV WLEDs with High-color-rendering ”, *RSC Adv.* **7** , 1899 (2017) . (I.F.=2.936) ☆
118. H. Wen*(溫紅麗), B.-M. Cheng(鄭炳銘), and P. A. Tanner , “Optical Properties of Selected 4d and 5d Transition Metal Ion-doped Glasses ”, *RSC Adv.* **7** , 26411 (2017) . (I.F.=2.936) ☆
119. C.-C. Wang*(王志傑), S.-Y. Ke, C.-W. Cheng, Y.-W. Wang, H.-S. Chiu, Y.-C. Ko, N.-K. Sun, M.-L. Ho*(何美霖), C.-K. Chang(張仲凱), Y.-C. Chuang(莊裕鈞), and G.-H. Lee , “Four Mixed-ligand Zn(II) Three-dimensional Metal-organic Frameworks: Synthesis, Structural Diversity, and Photoluminescent Property ”, *Polymers* **9** , 644 (2017) . (I.F.=2.935) ☆
120. D.-D. Ni, L.-Q. Xu, Y.-W. Liu, K. Yang*(楊科), N. Hiraoka(平岡望), K.-D. Tsuei(崔古鼎), and L.-F. Zhu*(朱林繁) , “Comparative Study of the Low-lying Valence Electronic States of Carbon Dioxide by High-resolution Inelastic X-ray and Electron Scattering ”, *Phys. Rev. A* **96** , 012518 (2017) . (I.F.=2.909) ☆
121. S. Pavithraa, R. R. J. Methikkalam, P. Gorai, J.-I. Lo, A. Das, B. N. R. Sekhar, T. Pradeep, B.-M. Cheng(鄭炳銘), N. J. Mason, B. Sivaraman* , “Qualitative Observation of Reversible Phase Change in Astrochemical Ethanethiol Ices Using Infrared Spectroscopy ”, *Spectrochim. Acta A* **178** , 166 (2017) . (I.F.=2.88) ☆
122. A. C. Gandhi, T. S. Chan(詹丁山), and S. Y. Wu*(吳勝允) , “Phase Diagram of PbBi Alloys: Structureproperty Relations and the Superconducting Coupling ”, *Supercond. Sci. Tech.* **30** , 105010 (2017) . (I.F.=2.861) ☆
123. A. Q. Hernandez*, S.-H. Lee(李世煌), and A. M. Wodtke , “The Collision-free Photochemistry of Methyl Azide at 157 nm: Mechanism and Energy Release ”, *J. Chem. Phys.* **147** , 064307 (2017) . (I.F.=2.843) ☆
124. C. Lee, Y.-C. Lin, S.-H. Lee(李世煌), Y.-Y. Lee(李英裕), C.-M. Tseng, Y.-T. Lee, and C.-K. Ni , “Advantage of Spatial Map Ion Imaging in the Study of Large Molecule Photodissociation ”, *J. Chem. Phys.* **147** , 013904 (2017) . (I.F.=2.843) ☆
125. J. D. Adams, P. G. Scrape, S.-H. Lee(李世煌), and La. J. Butler* , “Dissociative Photoionization of the Elusive Vinoxy Radical ”, *J. Phys. Chem. A* **121** , 6262 (2017) . (I.F.=2.836) ☆
126. J. D. Adams, P. G. Scrape, S. Li, S.-H. Lee(李世煌), and L. J. Butler* , “Primary Product Branching in the Photodissociation of Chloroacetaldehyde at 157 nm ”, *J. Phys. Chem. A* **121** , 6732 (2017) . (I.F.=2.836) ☆
127. B.-L. Lin, C.-Y. Chen*(陳青諭), C.-H. Huang(黃駿翔), T.-P. Ko, C.-H. Chiang(姜政宏), K.-F. Lin, Y.-C. Chang, P.-Y.

- Lin, H.-H. G. Tsai, A. H.-J. Wang*(王惠鈞) , “The Arginine Pairs and C-termini of the Sso7c4 from Sulfolobus Solfataricus Participate in Binding and Bending DNA ”, PLoS One **12** , e0169627 (2017) . (I.F.=2.766) ☆
128. H. Yamaoka*, P. Thunström, N. Tsujii, K. Katoh, Y. Yamamoto, E. F. Schwier, K. Shimada, H. Iwasawa, M. Arita, I. Jarrige, N. Hiraoka(平岡望), H. Ishii(石井啟文), K.-D. Tsuei(崔古鼎), and J. Mizuki , “Electronic Structure of Ferromagnetic Heavy Fermion, YbPdSi, YbPdGe, and YbPtGe Studied by Photoelectron Spectroscopy, X-ray Emission Spectroscopy, and DFT + DMFT Calculations ”, J. Phys.-Condens. Mat. **29** , 475502 (2017) . (I.F.=2.617) ☆
129. J.-F. Chang*(張瑞芬), Y.-C. Lai, R.-H. Yang, Y.-W. Yang(楊耀文), and C.-H. Wang(王嘉興) , “Improvement of Vertical Organic Field-effect Transistors by Surface Modification of Metallic Source Electrodes ”, Appl. Phys. Express **10** , 111601 (2017) . (I.F.=2.555) ☆
130. S. Sinha, C.-H. Wang(王嘉興), T. Mukherjee, and M. Mukherjee* , “Substrate Induced Molecular Conformations in Rubrene Thin Films: A Thickness Dependent Study ”, Synthetic Met. **230** , 51 (2017) . (I.F.=2.526) ☆
131. K.-P. Huang, G. T.-K. Fey*(費定國), Y.-C. Lin, P.-J. Wu(吳品鈞), J.-K. Chang, and H.-M. Kao , “Magnetic Impurity Effects on Self-discharge Capacity, Cycle Performance, and Rate Capability of LiFePO₄/C Composites ”, J. Solid State Electrochem. **21** , 1767 (2017) . (I.F.=2.509) ☆
132. D. Mikhailova*, Z. Hu, C.-Y. Kuo, S. Oswald, K. M. Mogare, S. Agrestini, J.-F. Lee(李志甫), C.-W. Pao(包志文), S.-A. Chen(陳興安), J.-M. Lee(李振民), S.-C. Haw(何樹智), J. M. Chen(陳錦明), Y.-F. Liao(廖彥發), H. Ishii(石井啟文), K.-D. Tsuei(崔古鼎), A. Senyshyn, and H. Ehrenberg , “Charge Transfer and Structural Anomaly in Stoichiometric Layered Perovskite Sr₂Co_{0.5}Ir_{0.5}O₄ ”, Eur. J. Inorg. Chem. **2017** , 587 (2017) . (I.F.=2.507) ☆
133. C. L. Chiang, K. S. Lin*(林鋸松), and Y. G. Lin(林彥谷) , “Preparation and Characterization of Ni₅Ga₃ for Methanol Formation via CO₂ Hydrogenation ”, Top. Catal. **60** , 685 (2017) . (I.F.=2.439) ☆
134. S. Sinha*, C.-H. Wang(王嘉興), and M. Mukherjee , “Influence of Dielectric Substrate Modification and Deposition Temperature on Structure and Morphology of CuPc Thin Films: X-ray Reflectivity and Angle Dependent NEXAFS Study ”, Physica E **93** , 39 (2017) . (I.F.=2.399) ☆
135. H. C. Wells, G. Holmes, U.-S. Jeng(鄭有舜), W.-R. Wu(吳瑋儒), N. Kirby, A. Hawley, S. Mudie, and R. G. Haverkamp* , “A Small Angle X-ray Scattering Study of the Structure and Development of Looseness in Bovine Hides and Leather ”, J. Sci. Food Agric. **97** , 1543 (2017) . (I.F.=2.379) ☆
136. B.-J. Huang, L.-C. Kao, S. Brahma, Y.-E. Jeng, S.-J. Chiu(邱上睿), C.-S. Ku(古慶順), and K.-Y. Lo*(羅光耀) , “Epitaxial Zn Quantum Dots Coherently Grown on Si(111): Growth Mechanism, Nonlinear Optical and Chemical States Analyses ”, J. Phys. D- Appl. Phys. **50** , 175301 (2017) . (I.F.=2.373) ☆
137. J. J. Velasco-Vélez*, T. E. Jones, V. Pfeifer, C.-L. Dong(董崇禮), Y.-X. Chen, C.-M. Chen, H.-Y. Chen, Y.-R. Lu, J.-M. Chen(陳錦明), R. Schlöggl, A. Knop-Gericke, and C.-H. Chuang*(莊程豪) , “Trends in Reactivity of Electrodeposited 3d Transition Metals on Gold Revealed by Operando Soft x-ray Absorption Spectroscopy during Water Splitting ”, J. Phys. D- Appl. Phys. **50** , 024002 (2017) . (I.F.=2.373) ☆
138. W.-C. Ko, Y.-H. Hsu , S.-C. Weng(翁世璋), C.-K. Chang(張仲凱), M.-T. Lee(李明道), W.-T. Chuang(莊偉綜), H.-C. Thong, M. Ali, and E.-W. Huang*(黃爾文) , “Using In-situ Synchrotron X-ray Diffraction to Investigate Phase Transformation and Lattice Relaxation of a Three-way Piezo-phototronic Soft Material ”, Semicond. Sci. Technol. **32** , 074005 (2017) . (I.F.=2.28) ☆
139. J. P. Singh*, S. Gautam, W. C. Lim, K. Asokan, B. B. Singh, M. Raju, S. Chaudhary, D. Kabiraj, D. Kanjilal, J.-M. Lee(李振民), J.-M. Chen(陳錦明), and K. H. Chae* , “Electronic Structure of Magnetic Fe/MgO/Fe/Co Multilayer Structure by NEXAFS Spectroscopy ”, Vacuum **138** , 48 (2017) . (I.F.=2.067) ☆
140. C.-Y. Kuo, T. Haupricht, J. Weinen, H. Wu, K.-D. Tsuei(崔古鼎), M. W. Haverkort, A. Tanaka, and L. H. Tjeng* , “Challenges from Experiment: Electronic Structure of NiO ”, Eur. Phys. J.-Spec. Top. **226** , 2445 (2017) . (I.F.=1.947) ☆
141. S. Sinha*, C.-H. Wang(王嘉興), and M. Mukherjee , “Rubrene on Differently Treated SiO₂/Si Substrates: A Comparative Study by Atomic Force Microscopy, X-ray Absorption and Photoemission Spectroscopies Techniques ”, Thin Solid Films **638** , 167 (2017) . (I.F.=1.939) ☆
142. F. Tang, C. Mei, P. Chuang, T. Song, H. Su*(蘇海林), Y. Wu*, Y. Qiao, J.-C.-A. Huang*(黃榮俊), and Y.-F. Liao(廖彥發) , “Valence State and Magnetism of Mn-doped PbPdO₂ Nanograin Film Synthesized by Sol-gel Spin-coating Method ”, Thin Solid Films **623** , 14 (2017) . (I.F.=1.939) ☆

143. S. Pavithraa, D. Sahu, G. Seth, J.-I. Lo(羅仁佑), B. N. R. Sekhar, B.-M. Cheng(鄭炳銘), A. Das, N. J. Mason, and B. Sivaraman*, “SH Stretching Vibration of Propanethiol Ice-a Signature for Its Identification in the Interstellar Icy Mantles”, *Astrophys. Space Sci.* **362**, 126 (2017) . (I.F.=1.885) ☆
144. X. Guo, D. Pei, H. Zheng, W. Li, J. L. Shohet*, S. W. King, Y.-H. Lin(林易弘), H.-S. Fung(馮學深), C.-C. Chen,(陳政祺) and Y. Nishi , “Extrinsic Time-dependent Dielectric Breakdown of Low-k Organosilicate Thin Films from Vacuum-ultraviolet Irradiation ”, *J. Vac. Sci. Technol. A* **35**, 021509 (2017) . (I.F.=1.761) ☆
145. M. Hong*(洪銘輝), H. W. Wan, P. Chang, T. D. Lin, Y. H. Chang, W. C. Lee, T. W. Pi(皮敦文), and J. Kwo*(郭瑞年) , “Effective Surface Passivation of $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}(001)$ Using Molecular Beam Epitaxy and Atomic Layer Deposited HfO_2 -A Comparative Study ”, *J. Cryst. Growth* **477** , 159 (2017) . (I.F.=1.742) ☆
146. P. G. Scrape, R. J. Xu, J. D. Adams, S.-H. Lee(李世煌), and L. J. Butler*, “A Measurement of the Photoionization Cross Section of CH_2Cl via Photofragment Translational Spectroscopy of Dichloromethane ”, *Chem. Phys. Lett.* **687** , 284 (2017) . (I.F.=1.686) ☆
147. N. Kawamura*, E. Ikenaga, M. Mizumaki, N. Hiraoka(平岡望), H. Yanagihara, and H. Maruyama , “Magnetic Circular Dichroism of X-ray Spectroscopy for Spinel-typeferrites in Hard X-ray Region: X-ray Absorption, X-ray Emission, and X-ray Photoemission ”, *J. Electron Spectrosc.* **220** , 81 (2017) . (I.F.=1.601) ☆
148. C.-Y. Huang, G.-Y. Lin, P.-T. Lin, J.-W. Chen, C.-H. Chen(陳家浩), and F. S.-S. Chien*(簡世森) , “Influences of Sintering Temperature on Low-cost Carbon Paste Based Counter Electrodes for Dye-sensitized Solar Cells ”, *Jpn. J. Appl. Phys. 1* **56** , 082301 (2017) . (I.F.=1.452) ☆
149. Y. Liu, C. Chong*(張昌偉), W. Chen, J.-C.-A. Huang*(黃榮俊), C. Cheng(鄭澄懋), K. Tsuei(崔古鼎), Z. Li, H. Qiu, and V. V. Marchenkov , “Growth and Characterization of MBE-grown $(\text{Bi}_{1-x}\text{Sb}_x)_2\text{Se}_3$ Topological Insulator ”, *Jpn. J. Appl. Phys. 1* **56** , 070311 (2017) . (I.F.=1.452) ☆
150. J. Siritapetawee*, C. Talabnin, J. Vanichtanankul, C. Songsiriritthigul, K. Thumanu, C.-J. Chen(陳俊榮), and N. Komanasin , “Characterization of the Binding of a Glycosylated Serine Protease from Euphorbia cf. Lactea Latex to Human Fibrinogen ”, *Biotechnol. Appl. Biochem.* **64** , 862 (2017) . (I.F.=1.44) ☆
151. D. T. Chu, Y.-C. Chu, J.-A. Lin, Y.-T. Chen, C.-C. Wang(王俊杰), Y.-F. Song(宋豔芳), C.-C. Chiang(江正誠), C. Chen, and K. N. Tu* , “Growth Competition Between Layer-type and Porous-type Cu_3Sn in Microbumps ”, *Microelectron. Reliab.* **79** , 32 (2017) . (I.F.=1.236) ☆
152. S.-Y. Ke, C.-T. Yeh, C.-C. Wang*(王志傑), G.-H. Lee, and H.-S. Sheu(許火順) , “A 3d-4f Complex Constructed by the Assembly of a Cationic Template, $[\text{Cu}(\text{en})_2]^{2+}$, and a 3D Anionic Coordination Polymer, $[\text{Sm}_2(\text{C}_2\text{O}_4)_3(\text{C}_5\text{O}_5)(\text{H}_2\text{O})_2]^{2-}$ ”, *Z. Anorg. Allg. Chem.* **643** , 657 (2017) . (I.F.=1.179) ☆
153. C. Songsiriritthigul*, S. Suebka, C.-J. Chen(陳俊榮), P. Fuengfuloy, and P. Chuawong* , “Crystal Structure of the N-terminal Anticodonbinding Domain of the Nondiscriminating Aspartyl-tRNA Synthetase from Helicobacter Pylori ”, *Acta Crystallogr. F* **73** , 62 (2017) . (I.F.=0.989) ☆

協助性之 SCI 論文

1. K. T. Ly, R.-W. Chen-Cheng, H.-W. Lin*(林皓武), Y.-J. Shiau, S.-H. Liu, P.-T. Chou*(周必泰), C.-S. Tsao, Y.-C. Huang, and Y. Chi*(季昀) , “Near-infrared Organic Light-emitting Diodes with Very High External Quantum Efficiency and Radiance ”, *Nat. Photonics* **11** , 63 (2017) . (I.F.=32.521) ◆
2. Z. Shi, K. Nie, Z.-J. Shao, B. Gao, Hu. Lin, H. Zhang, B. Liu, Y. Wang, Y. Zhang, X. Sun*(孫旭輝), X.-M. Cao*(曹宵銘), P. Hu, Q. Gao*(高慶生), and Y. Tang , “Phosphorus-Mo₂C@carbon Nanowires Toward Efficient Electrochemical Hydrogen Evolution: Composition, Structural and Electronic Regulation ”, *Energ. Environ. Sci.* **10** , 1262 (2017) . (I.F.=30.067) ◆
3. S. Vegiraju, B.-C. Chang, P. Priyanka, D.-Y. Huang, K.-Y. Wu, L.-H. Li, W.-C. Chang, Y.-Y. Lai, S.-H. Hong, B.-C. Yu, C.-L. Wang, W.-J. Chang, C.-L. Liu*(劉振良), M.-C. Chen*(陳銘洲), and A. Facchetti* , “Intramolecular Locked Dithioalkylbithiophene-based Semiconductors for High-performance Organic Field-effect Transistors ”, *Adv. Mater.* **29** , 1702414 (2017) . (I.F.=21.95) ◆
4. L. Zhou, J. Dai, Y. Chai, H. Zhang, S. Dong, H. Cao, S. Calder, Y. Yin, X. Wang, X. Shen, Z. Liu, T. Saito, Y. Shimakawa, H. Hojo, Y. Ikuhara, M. Azuma, Z. Hu, Y. Sun, C. Jin, and Y. Long*(龍有文) , “Realization of Large Electric Polarization and Strong Magnetoelectric Coupling in $\text{BiMn}_3\text{Cr}_4\text{O}_{12}$ ”, *Adv. Mater.* **29** , 1703435 (2017) . (I.F.=21.95) ◆
5. J. Wang, S. Wang, C. Duan*, F. J. M. Colberts, J. Mai, X. Liu, X. Jia, X. Lu*(路新慧), R. A. J. Janssen*, F. Huang*, and

- Y. Cao , “Conjugated Polymers Based on Difluorobenzoxadiazole toward Practical Application of Polymer Solar Cells ”, *Adv. Energy Mater.* **7** , 1702033 (2017) . (I.F.=21.875) ◆
6. H. T. Kreissl, M. M. J. Li, Y.-K. Peng, K. Nakagawa, T. J. N. Hooper, J. V. Hanna, A. Shepherd, T.-S. Wu, Y.-L. Soo, and S. C. E. Tsang* , “Structural Studies of Bulk to Nanosize Niobium Oxides with Correlation to Their Acidity ”, *J. Am. Chem. Soc.* **139** , 12670 (2017) . (I.F.=14.357) ◆
7. C. C. Lin, Y.-T. Tsai, H. E. Johnston, M.-H. Fang, F. Yu, W. Zhou, P. Whitfield, Y. Li, J. Wang, R.-S. Liu*(劉如熹), and J. P. Attfield* , “Enhanced Photoluminescence Emission and Thermal Stability from Introduced Cation Disorder in Phosphors ”, *J. Am. Chem. Soc.* **139** , 11766 (2017) . (I.F.=14.357) ◆
8. S.-C. Lin, C.-S. Hsu, S.-Y. Chiu, T.-Y. Liao, and H. M. Chen*(陳浩銘) , “Edgeless Ag-Pt Bimetallic Nanocages: In Situ Monitor Plasmon-induced Suppression of Hydrogen Peroxide Formation ”, *J. Am. Chem. Soc.* **139** , 2224 (2017) . (I.F.=14.357) ◆
9. Y. Sakai, J. Yang, R. Yu, H. Hojo, I. Yamada, P. Miao, S. Lee, S. Torii, T. Kamiyama, T. Mizokawa, H. Yamamoto, T. Nishikubo, Y. Hattori, K. Oka, Y. Yin, J. Dai, W. Li, S. Ueda, A. Aimi, D. Mori, Y. Inaguma, Z. Hu, T. Uozumi, C. Jin, Y. Long, and M. Azuma* , “A-site and B-site Charge Orderings in an s-d Level Controlled Perovskite Oxide $PbCoO_3$ ”, *J. Am. Chem. Soc.* **139** , 4574 (2017) . (I.F.=14.357) ◆
10. C. Hu, Q. Ma, S.-F. Hung, Z.-N. Chen, D. Ou, B. Ren, H. M. Chen*(陳浩銘), G. Fu*, and N. Zhen* , “In Situ Electrochemical Production of Ultrathin Nickel Nanosheets for Hydrogen Evolution Electrocatalysis ”, *Chem* **3** , 122 (2017) . (I.F.=14.104) ◆
11. C.-C. Hung, Y.-C. Chiu, H.-C. Wu, C. Lu, C. Bouilhac, I. Otsuka, S. Halila, R. Borsali*, S.-H. Tung*(童世煌), and W.-C. Chen*(陳文章) , “Conception of Stretchable Resistive Memory Devices Based on Nanostructure-controlled Carbohydrate-block-polyisoprene Block Copolymers ”, *Adv. Funct. Mater.* **27** , 1606161 (2017) . (I.F.=13.325) ◆
12. S. Vegiraju, G.-Y. He, C. Kim, P. Priyanka, Y.-J. Chiu, C.-W. Liu, C.-Y. Huang, J.-S. Ni, Y.-W. Wu, Z. Chen, G.-H. Lee, S.-H. Tung, C.-L. Liu*(劉振良), M.-C. Chen*(陳銘洲), and A. Facchetti* , “Solution-processable Dithienothiophenoquinoid (DTTQ) Structures for Ambient-stable n-channel Organic Field Effect Transistors ”, *Adv. Funct. Mater.* **27** , 1606761 (2017) . (I.F.=13.325) ◆
13. Q. Ma, C. Hu, K. Liu, S.-F. Hung, D. Ou, H. M. Chen*(陳浩銘), G. Fu*(傅剛), and N. Zheng*(鄭南峰) , “Identifying the Electrocatalytic Sites of Nickel Disulfide in Alkaline Hydrogen Evolution Reaction ”, *Nano Energy* **41** , 148 (2017) . (I.F.=13.12) ◆
14. X. Han, W. Liu, J.-W. Huang, J. Ma, Y. Zheng, T.-P. Ko, L. Xu, Y.-S. Cheng, C.-C. Chen, and R.-T. Guo*(郭瑞庭) , “Structural Insight into Catalytic Mechanism of PET Hydrolase ”, *Nat. Commun.* **8** , 2106 (2017) . (I.F.=12.353) ◆
15. M.-Y. Su, N. Som, C.-Y. Wu, S.-C. Su, Y.-T. Kuo, L.-C. Ke, M.-R. Ho, S.-R. Tzeng, C.-H. Teng, D. Mengin-Lecreux, M. Reddy, and C.-I. Chang*(張崇毅) , “Structural Basis of Adaptor-mediated Protein Degradation by the Tail-specific PDZ-protease Prc ”, *Nat. Commun.* **8** , 1516 (2017) . (I.F.=12.353) ◆
16. W.-H. Tseng, C.-K. Chang, P.-C. Wu, N.-J. Hu, G.-H. Lee, C.-C. Tzeng, S. Neidle, and M.-H. Hou*(侯明宏) , “Induced-fit Recognition of CCG Trinucleotide Repeats by a Nickel-chromomycin Complex Resulting in Large-scale DNA Deformation ”, *Angew. Chem. Int. Edit.* **56** , 8761 (2017) . (I.F.=12.102) ◆
17. H.-C. Wang, W. Wang, A.-C. Tang, H.-Y. Tsai, Z. Bao, T. Ihara, N. Yarita, H. Tahara, Y. Kanemitsu*, S. Chen*(陳樹明), and R.-S. Liu*(劉如熹) , “High-performance $CsPb_{1-x}Sn_xBr_3$ Perovskite Quantum Dots for Light-emitting Diodes ”, *Angew. Chem. Int. Edit.* **56** , 13650 (2017) . (I.F.=12.102) ◆
18. L.-Y. Chu, T.-J. Hsieh, B. Golzarroshan, Y.-P. Chen, S. Agrawa, and H. S. Yuan*(袁小玲) , “Structural insights into RNA unwinding and degradation by RNase R ”, *Nucleic Acids Res.* **45** , 12015 (2017) . (I.F.=11.561) ◆
19. Y.-R. Wang, S.-F. Chen, C.-C. Wu, Y.-W. Liao, T.-S. Lin, K.-T. Liu, Y.-S. Chen, T.-K. Li*(李財坤), T.-C. Chien*(簡敦誠), and N.-L. Chan*(詹迺立) , “Producing Irreversible Topoisomerase II-mediated DNA Breaks by Site-specific Pt(II)-methionine Coordination Chemistry ”, *Nucleic Acids Res.* **45** , 10861 (2017) . (I.F.=11.561) ◆
20. S. K. Cushing, F. Meng, J. Zhang, B. Ding, C. K. Chen, C.-J. Chen, R.-S. Liu*(劉如熹), A. D. Bristow, J. Bright, P. Zheng, and N. Wu* , “Effects of Defects on Photocatalytic Activity of Hydrogen-treated Titanium Oxide Nanobelts ”, *ACS Catalysis* **7** , 1742 (2017) . (I.F.=11.384) ◆
21. J. Cao, H. Yu, S. Zhou, M. Qin, T.-K. Lau, X. Lu, N. Zhao*, and C.-P. Wong , “Low-temperature Solution-processed

- NiOx Films for Air-stable Perovskite Solar Cells ", J. Mater. Chem. A **5**, 11071 (2017) . (I.F.=9.931) ◆
22. M. E. Farahat, P. Perumal, W. Budiawan, Y.-F. Chen, C.-H. Lee*(李志浩), and C.-W. Chu*(朱治偉) , "Efficient Molecular Solar Cells Processed from Green Solvent Mixtures ", J. Mater. Chem. A **5**, 571 (2017) . (I.F.=9.931) ◆
 23. X. Gao, J. Wang, D. Zhang, K. Nie, Y. Ma*(馬艷芸), J. Zhong, and X. Sun*(孫旭輝) , "Hollow NiFe₂O₄ Nanospheres on Carbon Nanorods as a Highly Efficient Anode Material for Lithium Ion Batteries ", J. Mater. Chem. A **5**, 5007 (2017) . (I.F.=9.931) ◆
 24. Y.-Z. Guo, S.-Y. Yan, C.-W. Liu, T.-F. Chou, J.-H. Wang*(王禎翰), and K.-W. Wang*(王冠文) , "The Enhanced Oxygen Reduction Reaction Performance on PtSn Nanowires: The Importance of Segregation Energy and Morphological Effects ", J. Mater. Chem. A **5**, 14355 (2017) . (I.F.=9.931) ◆
 25. J. Mai, H. Lu, T.-K. Lau, S.-H. Peng, C.-S. Hsu, W. Hua, N. Zhao, X. Xiao, and X. Lu*(路新慧) , "High Efficiency Ternary Organic Solar Cell with Morphology-compatible Polymers ", J. Mater. Chem. A **5**, 11739 (2017) . (I.F.=9.931) ◆
 26. M. Sha, H. Zhang, Y. Nie, K. Nie, X. Lv, N. Sun, X. Xie, Y. Ma*(馬艷芸), and X. Sun*(孫旭輝) , "Sn Nanoparticles@nitrogen-doped Carbon Nanofiber Composites as High-performance Anodes for Sodium-ion Batteries ", J. Mater. Chem. A **5**, 6277 (2017) . (I.F.=9.931) ◆
 27. B. Wang, W. Liu, H. Li, J. Mai, S. Liu, X. Lu, H. Li, M. Shi, C.-Z. Li*(李昌治), and H. Chen*(陳紅征) , "Electron Acceptors with Varied Linkages between Perylene Diimide and Benzotri thiophene for Efficient Fullerene-free Solar Cells ", J. Mater. Chem. A **5**, 9396 (2017) . (I.F.=9.931) ◆
 28. G. Yang, H. Lei, H. Tao, X. Zheng, J. Ma, Q. Liu, W. Ke, Z. Chen, L. Xiong, P. Qin, Z. Chen, M. Qin, X. Lu, Y. Yan*, and G. Fang*(方國家) , "Reducing Hysteresis and Enhancing Performance of Perovskite Solar Cells Using Low-temperature Processed Y-Doped SnO₂ Nanosheets as Electron Selective Layers ", Small **13**, 1601769 (2017) . (I.F.=9.598) ◆
 29. C.-Y. Chen, S.-S. Ho, T.-Y. Kuo, H.-L. Hsieh, and Y.-S. Cheng*(鄭貽生) , "Structural Basis of Jasmonate-amido Synthetase FIN219 in Complex With Glutathione S-transferase FIP1 During the JA Signal Regulation ", P. Natl. Acad. Sci. USA **114**, E1815 (2017) . (I.F.=9.504) ◆
 30. T.-Y. Huang, C.-K. Chang, Y.-F. Kao, C.-H. Chin, C.-W. Ni, H.-Y. Hsu, N.-J. Hu, L.-C. Hsieh, S.-H. Chou, I.-R. Lee*(李以仁), and M.-H. Hou*(侯明宏) , "Parity-dependent Hairpin Configurations of Repetitive DNA Sequence Promote Slippage Associated with DNA Expansion ", P. Natl. Acad. Sci. USA **114**, 9535 (2017) . (I.F.=9.504) ◆
 31. H.-C. Tai*(戴桓青), G.-C. Li, S.-J. Huang, C.-R. Jhu, J.-H. Chung, B. Y. Wang, C.-S. Hsu, B. Brandmair, D.-T. Chung, H. M. Chen, and J. C. C. Chan , "Chemical Distinctions between Stradivari's Maple and Modern Tonewood ", P. Natl. Acad. Sci. USA **114**, 27 (2017) . (I.F.=9.504) ◆
 32. Y.-J. Chen(陳俞融), G. M. Muñoz Caro, S. Aparicio, A. Jiménez-Escobar, J. Lasne, A. Rosu-Finsen, M. R. S. McCoustra, A. M. Cassidy, and D. Field , "Wannier-Mott Excitons in Nanoscale Molecular Ices ", Phys. Rev. Lett. **119**, 157703 (2017) . (I.F.=8.839) ◆
 33. C.-C. Chang, T.-L. Huang, Y. Shimamoto, S.-Y. Tsai, and K.-C. Hsia*(夏國強) , "Regulation of Mitotic Spindle Assembly Factor NuMA by Importin-β ", J. Cell Biol. **216**, 3453 (2017) . (I.F.=8.784) ◆
 34. C.-H. Wang, C.-H. Yang, and J.-K. Chang*(張仍奎) , "High-selectivity Electrochemical Non-enzymatic Sensors Based on Graphene/Pd Nanocomposites Functionalized with Designated Ionic Liquids ", Biosens. Bioelectron. **89**, 483 (2017) . (I.F.=8.173) ◆
 35. M.-H. Cheng, Y.-C. Hsu, C.-W. Chang, H.-W. Ko, P.-Y. Chung, and J.-T. Chen*(陳俊太) , "Blending Homopolymers for Controlling the Morphology Transitions of Block Copolymer Nanorods Confined in Cylindrical Nanopores ", ACS Appl. Mater. Interfaces **9**, 21010 (2017) . (I.F.=8.097) ◆
 36. Y.-J. Hsieh, Y.-C. Huang, W.-S. Liu, Y.-A. Su, C.-S. Tsao*(曹正熙), S.-P. Rwei, and L. Wang*(王立義) , "Insights into the Morphological Instability of Bulk Heterojunction PTB7-Th/PCBM Solar Cells upon High-temperature Aging ", ACS Appl. Mater. Interfaces **9**, 14808 (2017) . (I.F.=8.097) ◆
 37. Y.-S. Sun*(孫亞賢), C.-F. Lin, S.-T. Luo, and C.-Y. Su , "Block-copolymer-templated Hierarchical Porous Carbon Nanostructures with Nitrogen-rich Functional Groups for Molecular Sensing ", ACS Appl. Mater. Interfaces **9**, 31235 (2017) . (I.F.=8.097) ◆
 38. S.-L. Wu, Y.-F. Huang, C.-T. Hsieh, B.-H. Lai, P.-S. Tseng, J.-T. Ou, S.-T. Liao, S.-Y. Chou, K.-Y. Wu, and C.-L. Wang*(王建隆) , "Roles of 3-ethylrhodanine in Attaining Highly Ordered Crystal Arrays of Ambipolar

- Diketopyrrolopyrrole Oligomers ", ACS Appl. Mater. Interfaces **9**, 14967 (2017) . (I.F.=8.097) ◆
39. C. Wang*, A. A. Levin, J. Karel, S. Fabbrici, J. Qian, C. E. Violbarbosa, S. Ouardi, F. Albertini, W. Schnelle, J. Rohlicek, G. H. Fecher, and C. Felser*, "Size-dependent Structural and Magnetic Properties of Chemically Synthesized Co-Ni-Ga Nanoparticles ", Nano Res. **10**, 3421 (2017) . (I.F.=7.994) ◆
40. P.-Y. Lin, E.-Y. Chuang, Y.-H. Chiu, H.-L. Chen, K.-J. Lin, J.-H. Juang, C.-H. Chiang, F.-L. Mi*(糜福龍), and H.-W. Sung*(宋信文) , "Safety and Efficacy of Self-assembling Bubble Carriers Stabilized with Sodium Dodecyl Sulfate for Oral Delivery of Therapeutic Proteins ", J. Control. Release **259**, 168 (2017) . (I.F.=7.877) ◆
41. H.-Y. Li, C.-M. Tseng, C.-H. Yang, T.-C. Lee, C.-Y. Su, C.-T. Hsieh, and J.-K. Chang*(張仍奎) , "Eco-Efficient Synthesis of Highly Porous CoCO₃ Anodes from Supercritical CO₂ for Li⁺ and Na⁺ Storage ", ChemSusChem **10**, 2464 (2017) . (I.F.=7.411) ◆
42. D. Chen, C.-L. Dong*(董崇禮), Y. Zou*, D. Su*, Y.-C. Huang, L. Tao, S. Dou, S. Shen*, and S. Wang* , "In Situ Evolution of Highly Dispersed Amorphous CoO_x Clusters for Oxygen Evolution Reaction ", Nanoscale **9**, 11969 (2017) . (I.F.=7.233) ◆
43. H.-Y. T. Chen, J.-P. Chou, C.-Y. Lin, C.-W. Hu, Y.-T. Yang, and T.-Y. Chen*(陳燦耀) , "Heterogeneous Cu-Pd Binary Interface Boosts Stability and Mass Activity of Atomic Pt Clusters in the Oxygen Reduction Reaction ", Nanoscale **9**, 7207 (2017) . (I.F.=7.233) ◆
44. S.-Y. Chen*(陳詩芸), E. Tseng, Y.-T. Lai, W. Lee, and A. Gloter* , "Interface Interactions and Enhanced Room Temperature Ferromagnetism of Ag@CeO₂ Nanostructures ", Nanoscale **9**, 10764 (2017) . (I.F.=7.233) ◆
45. J. Patra, P. C. Rath, C.-H. Yang, D. Saikia, H.-M. Kao*(高憲明), and J.-K. Chang*(張仍奎) , "Three-dimensional Interpenetrating Mesoporous Carbon Confining SnO₂ Particles for Superior Sodiation/Desodiation Properties ", Nanoscale **9**, 8674 (2017) . (I.F.=7.233) ◆
46. H.-L. Chu, J.-J. Lai, L.-Y. Wu, S.-L. Chang, C.-M. Liu, W.-B. Jian*(簡紋濱), Y.-C. Chen*(陳煜璋), C.-J. Yuan, T.-S. Wu, Y.-L. Soo, M. D. Ventra, and C.-C. Chang*(張家靖) , "Exploration and Characterization of the Memcapacitor and Memristor Properties of Ni-DNA Nanowire Devices ", NPG Asia Mater. **9**, e430 (2017) . (I.F.=7.208) ◆
47. S.-C. Hou, Y.-F. Su, C.-C. Chang*(張家欽), C.-W. Hu, T.-Y. Chen, S.-M. Yang, and J.-L. Huang*(黃肇瑞) , "The Synergistic Effects of Combining the High Energy Mechanical Milling and Wet Milling on Si Negative Electrode Materials for Lithium Ion Battery ", J. Power Sources **349**, 111 (2017) . (I.F.=6.945) ◆
48. H.-F. Chang, S.-L. Wang, and K.-C. Yeh*(葉國楨) , "Effect of Gallium Exposure in Arabidopsis thaliana is Similar to Aluminum Stress ", Environ. Sci. Technol. **51**, 1241 (2017) . (I.F.=6.653) ◆
49. N. Karimian*, S. G. Johnston, and E. D. Burton , "Antimony and Arsenic Behavior During Fe(II)-induced Transformation of Jarosite ", Environ. Sci. Technol. **51**, 4259 (2017) . (I.F.=6.653) ◆
50. V. A. Schoepfer, E. D. Burton*, S. G. Johnston, and P. Kraal , "Phosphate-imposed Constraints on Schwertmannite Stability under Reducing Conditions ", Environ. Sci. Technol. **51**, 9739 (2017) . (I.F.=6.653) ◆
51. C.-Z. Liao, Y. Tang, P.-H. Lee, C. Liu*(劉承帥), K. Shih*(施凱閔), and F. Li , "Detoxification and Immobilization of Chromite Ore Processing Residuein Spinel-based Glass-ceramic ", J. Hazard. Mater. **321**, 449 (2017) . (I.F.=6.434) ◆
52. C.-P. Tso* and Y.-H. Shih , "The Influence of Carboxymethylcellulose (CMC) on the Reactivity of FeNPs Toward Decabrominated Diphenyl Ether: The Ni Doping, Temperature, pH, and Anion Effects ", J. Hazard. Mater. **322**, 145 (2017) . (I.F.=6.434) ◆
53. C.-C. Cheng*(鄭智嘉), D.-J. Lee, and J.-K. Chen , "Self-assembled Supramolecular Polymers with Tailorable Properties that Enhance Cell attachment and Proliferation ", Acta Biomater. **50**, 476 (2017) . (I.F.=6.383) ◆
54. S. Vegiraju, D.-Y. Huang, P. Priyanka, Y.-S. Li, X.-L. Luo, S.-H. Hong, J.-S. Ni, S.-H. Tung, C.-L. Wang, W.-C. Lien, S. L. Yau, C.-L. Liu*(劉振良), and M.-C. Chen*(陳鎧洲) , "High Performance Solution-processable Tetrathienoacene (TTAR) Based Small Molecules for Organic Field Effect Transistors (OFETs) ", Chem. Commun. **53**, 5898 (2017) . (I.F.=6.29) ◆
55. G. Schwertz, M. C. Witschel, M. Rottmann, R. Bonnert, U. Leartsakulpanich, P. Chitnumsub, A. Jaruwat, W. Ittarat, A. Schafer, R. A. Aponte, S. A. Charman, K. L. White, A. Kundu, S. Sadhukhan, M. Lloyd, G. M. Freiberg, M. Srikuamran, M. Sigel, A. Zwysig, P. Chaiyen, and F. Diederich* , "Antimalarial Inhibitors Targeting Serine Hydroxymethyltransferase (SHMT) with in Vivo Efficacy and Analysis of their Binding Mode Based on X-ray Cocrystal Structures ", J. Med. Chem. **60**, 4840 (2017) . (I.F.=6.253) ◆

56. Y.-W. Chen, Y.-C. Lin, H.-M. Kuo, and C. K. Lai*(賴重光), "Fluorescent Columnar Bis(Boron Difluoride) Complexes Derived from Tetraketones", *J. Mater. Chem. C* **5**, 5465 (2017). (I.F.=5.976) ◆
57. F.-S. Wang, T.-F. Wang, H.-H. Lu, W.-S. Ao-Ieong, J. Wang, H.-L. Chen*(陳信龍), and C.-H. Peng*(彭之皓), "Highly Stretchable Free-standing Poly(Acrylic Acid)-block-poly(Vinylalcohol) Films Obtained from Cobalt-mediated Radical Polymerization", *Macromolecules* **50**, 6054 (2017). (I.F.=5.914) ◆
58. J.-T. Wang, S. Takshima, H.-C. Wu, C.-C. Shih, T. Isono, T. Kakuchi, T. Satoh*, and W.-C. Chen*(陳文章), "Stretchable Conjugated Rod-coil Poly(3-hexylthiophene)-blockpoly(Butyl Acrylate) Thin Films for Field Effect Transistor Applications", *Macromolecules* **50**, 1442 (2017). (I.F.=5.914) ◆
59. H.-F. Wen, H.-C. Wu*(吳泓錦), J. Aimi, C.-C. Hung, Y.-C. Chiang, C.-C. Kuo*(郭靄慶), and W.-C. Chen*(陳文章), "Soft Poly(Butyl Acrylate) Side Chains toward Intrinsically Stretchable Polymeric Semiconductors for Field-effect Transistor Applications", *Macromolecules* **50**, 4982 (2017). (I.F.=5.914) ◆
60. H. L. Yi, C. H. Wu, C. I. Wang, and C. C. Hua*(華繼中), "Solvent-regulated Mesoscale Aggregation Properties of Dilute PBTTC₁₄ Solutions", *Macromolecules* **50**, 5498 (2017). (I.F.=5.914) ◆
61. B. Bazri, Y.-C. Lin, T.-H. Lu, C.-J. Chen, E. Kowsari*, S.-F. Hu*(胡淑芬), and R.-S. Liu*(劉如熹), "A Heteroelectrode Structure for Solar Water Splitting: Integrated Cobalt Ditelluride Across a TiO₂-passivated Silicon Microwire Array", *Catal. Sci. Technol.* **7**, 1488 (2017). (I.F.=5.365) ◆
62. I. Ja'baz, J. Chen, B. Etschmann, Y. Ninomiya, and L. Zhang*, "High-temperature Tube Corrosion upon the Interaction with Victorian Brown Coal Fly Ash under the Oxy-fuel Combustion Condition", *Proc. Combust. Inst.* **36**, 3941 (2017). (I.F.=5.336) ◆
63. Y.-H. Hsueh*(薛逸煌), P.-H. Tsai, K.-S. Lin, W.-J. Ke, and C.-L. Chiang, "Antimicrobial Effects of Zero-valent Iron Nanoparticles on Gram-positive Bacillus Strains and Gram-negative Escherichia Coli Strains", *J. Nanobiotech.* **15**, 77 (2017). (I.F.=5.294) ◆
64. H.-L. Huang, W.-Y. Huang, and S.-L. Wang*(王素蘭), "From Bola-surfactant Templatized Bimetal Phosphites to the Design of Crystalline Inorganic Mesoporous Frameworks", *Chem.-Eur. J.* **23**, 4962 (2017). (I.F.=5.16) ◆
65. G. Schwertz, M. S. Frei, M. C. Witsche, M. Rottmann, U. Leartsakulpanich, P. Chitnumsub, A. Jaruwat, W. Ittarat, A. Schafer, R. A. Aponte, N. Trapp, K. Mark, P. Chaiyen, and F. Diederich*, "Conformational Aspects in the Design of Inhibitors for Serine Hydroxymethyltransferase (SHMT): Biphenyl, Aryl Sulfonamide, and Aryl Sulfone Motifs", *Chem.-Eur. J.* **23**, 14345 (2017). (I.F.=5.16) ◆
66. M. Shieh*(謝明惠), C.-C. Yu, C.-Y. Miu, C.-H. Kung, C.-Y. Huang, Y.-H. Liu, H.-L. Liu*(劉祥麟), and C.-C. Shen, "Semiconducting Coordination Polymers Based on the Predesigned Ternary Te-Fe-Cu Carbonyl Cluster and Conjugation-interrupted Dipyridyl Linkers", *Chem.-Eur. J.* **23**, 11261 (2017). (I.F.=5.16) ◆
67. M. Shieh*(謝明惠), C.-C. Yu, K.-J. Hsing, and W.-J. Chang, "A Multiply Bonded Trigonal-Planar Bismuth(III) Complex: Prodigious Lewis Acidity, Solvatochromism, Etherification, and Semiconducting Characteristics", *Chem.-Eur. J.* **23**, 11677 (2017). (I.F.=5.16) ◆
68. J.-Y. Wu, M. G. Mohamed, and S.-W. Kuo*(郭紹偉), "Directly Synthesized Nitrogen-doped Microporous Carbons from Polybenzoxazine Resins for Carbon Dioxide Capture", *Polym. Chem.* **8**, 5481 (2017). (I.F.=4.927) ◆
69. I. Ja'baz, J. Chen, B. Etschmann, Y. Ninomiya, and L. Zhang*, "Effect of Silica Additive on the High-temperature Fireside Tube Corrosion during the Air-firing and Oxy-firing of Lignite (Xinjiang Coal)-characteristics of Bulk and Cross-sectional Surfaces for the Tubes", *Fuel* **187**, 68 (2017). (I.F.=4.908) ◆
70. J. Huen, C.-L. Lin, B. Golzarroshan, W.-L. Yi, W.-Z. Yang, H. S. Yuan*(袁小玲), "Structural Insights into a Unique Dimeric DEAD-box Helicase CshA that Promotes RNA Decay", *Structure* **25**, 469 (2017). (I.F.=4.907) ◆
71. S.-M. Lin, S.-C. Lin, J.-Y. Hong, T.-W. Su, B.-J. Kuo, W.-H. Chang, Y.-F. Tu, and Y.-C. Lo*(羅玉枝), "Structural Insights into Linear Tri-ubiquitin Recognition by A20-Binding Inhibitor of NF-κB, ABIN-2", *Structure* **25**, 66 (2017). (I.F.=4.907) ◆
72. T.-W. Su, C.-Y. Yang, W.-P. Kao, B.-J. Kuo, S.-M. Lin, J.-Y. Lin, Y.-C. Lo*(羅玉枝), and S.-C. Lin*(林世昌), "Structural Insights into DD-fold Assembly and Caspase-9 Activation by the Apaf-1 Apoptosome", *Structure* **25**, 407 (2017). (I.F.=4.907) ◆
73. L. Zhang, Y. Tao, P. Xiao, L. Dai, L. Song, Y. Huang*, J. Zhang, S.-W. Kuo, and T. Chen*, "Air/Water Interfacial Formation of "Clean" Tiny AuNPs Anchored Densely on CNT Film for Electrocatalytic Alcohol Oxidation", *Adv.*

74. C.-Y. Lin, W.-P. Li, S.-P. Huang, C.-S. Yeh, and C.-M. Yang*(楊家銘), “Hollow Mesoporous Silica Nanosphere-supported FePt Nanoparticles for Potential Theranostic Applications”, J. Mater. Chem. B **5**, 7598 (2017) . (I.F.=4.776) ◆
75. L. Yang, J. L. Bourque, J. A. McLeod, P. Shen, K. M. Baines*, and L. Liu*(劉麗佳), “Beyond Oxidation States: Distinguishing Chemical States of Gallium in Compounds with Multiple Gallium Centers”, Inorg. Chem. **56**, 2985 (2017) . (I.F.=4.7) ◆
76. C.-L. Chen, J.-C. Hsu, C.-W. Lin, C.-H. Wang, M.-H. Tsai, C.-Y. Wu, C.-H. Wong*(翁啟惠), and C. Ma*(馬徹), “Crystal Structure of a Homogeneous IgG-Fc Glycoform with the N-glycan Designed to Maximize the Antibody Dependent Cellular Cytotoxicity”, ACS Chem. Biol. **12**, 1335 (2017) . (I.F.=4.592) ◆
77. Y.-P. Chen, H.-L. Wu, K. Boyé, C.-Y. Pan, Y.-C. Chen, N. Pujol, C.-W. Lin, L.-Y. Chiu, C. Billottet, I. D. Alves, A. Bikfalvi*, and S.-C. Sue*(蘇士哲), “Oligomerization State of CXCL4 Chemokines Regulates G Protein-coupled Receptor Activation”, ACS Chem. Biol. **12**, 2767 (2017) . (I.F.=4.592) ◆
78. L.-C. Hung, I. Jiang, C.-J. Chen, J.-Y. Lu, Y.-F. Hsieh, P.-H. Kuo, Y.-L. Hung, L. H.-C. Wang, M. D.-T. Chang*(張大慈), and S.-C. Sue*(蘇士哲), “Heparin-promoted Cellular Uptake of the Cell-penetrating Glycosaminoglycan Binding Peptide, GBP_{ECP}, Depends on a Single Tryptophan”, ACS Chem. Biol. **12**, 398 (2017) . (I.F.=4.592) ◆
79. A. Harada, N. Kamimura, K. Takeuchi, H. Y. Yu, E. Masai, and T. Senda*, “The Crystal Structure of a New O-demethylase from Sphingobium sp. Strain SYK-6”, FEBS J. **284**, 1855 (2017) . (I.F.=4.53) ◆
80. H.-L. Huang*(黃心亮), “Extraction of Copper Species from the Nanoporous Sorbent with an Ionic Liquid”, J. Mol. Liq. **230**, 24 (2017) . (I.F.=4.513) ◆
81. G.-Y. Yeap*, F. Osman, N. Maeta, M. M. Ito, C.-M. Lin, and H.-C. Lin, “Unveiling the Influence of Inner Spacer Length of the Non-linear S-shaped Chiral Oligomers on Liquid Crystalline Phase”, J. Mol. Liq. **236**, 1 (2017) . (I.F.=4.513) ◆
82. A. Kato, M. Kuratani, T. Yanagisawa, K. Ohtake, A. Hayashi, Y. Amano, K. Kimura, S. Yokoyama*, K. Sakamoto*, and Y. Shiraishi*, “Extensive Survey of Antibody Invariant Positions for Efficient Chemical Conjugation Using Expanded Genetic Codes”, Bioconjugate Chem. **28**, 2099 (2017) . (I.F.=4.485) ◆
83. H.-J. Liao, Y.-M. Chen, Y.-T. Kao, J.-Y. An, Y.-H. Lai, and D.-Y. Wang*(王迪彥), “Freestanding Cathode Electrode Design for High-performance Sodium Dual-ion Battery”, J. Phys. Chem. C **121**, 24463 (2017) . (I.F.=4.484) ◆
84. Y.-S. Sun*(孫亞賢), C.-F. Lin, and S.-T. Luo, “Two-dimensional Nitrogen-enriched Carbon Nanosheets with Surface-enhanced Raman Scattering”, J. Phys. Chem. C **121**, 14795 (2017) . (I.F.=4.484) ◆
85. Z.-X. Yang, S.-W. Chen, S.-H. Lee, T.-Y. Chen, and J.-L. Lin*(林榮良), “Comparative Study on the Reaction Pathways of 2-chloropropanoic Acid on Cu(100) and O/Cu(100)”, J. Phys. Chem. C **121**, 315 (2017) . (I.F.=4.484) ◆
86. J.-Q. Xu, W. Liu, S.-Y. Liu, J. Ling, J. Mai, X. Lu, C.-Z. Li*(李昌治), A. K.-Y. Jen*, and H. Chen*(陳紅征), “A-D-A Small Molecule Donors Based on Pyrene and Diketopyrrolopyrrole for Organic Solar Cells”, Sci. China-Chem. **60**, 561 (2017) . (I.F.=4.448) ◆
87. F.-H. Cho, Y.-C. Lin, and Y.-H. Lai*(賴英煌), “Electrochemically Fabricated Gold Dendrites with High-index Facets for Use as Surface-enhanced Raman-scattering-active Substrates”, Appl. Surf. Sci. **402**, 147 (2017) . (I.F.=4.439) ◆
88. C.-F. Chang*(張瓊芬), T.-Y. Chen, C.-J. M. Chin, and Y.-T. Kuo, “Enhanced Electrochemical Degradation of Ibuprofen in Aqueous Solution by PtRu Alloy Catalyst”, Chemosphere **175**, 76 (2017) . (I.F.=4.427) ◆
89. L. Tao, Z.-K. Zhu, F.-B. Li*(李芳柏), and S.-L. Wang, “Fe(II)/Cu(II) Interaction on Goethite Stimulated by an Iron-reducing Bacteria Aeromonas Hydrophila HS01 under Anaerobic Conditions”, Chemosphere **187**, 43 (2017) . (I.F.=4.427) ◆
90. K. Hew, S. Veerappan, D. Sim, T. Cornvik, P. Nordlund*, and S.-L. Dahlroth*, “Structure of the Open Reading Frame 49 Protein Encoded by Kaposi's Sarcoma-associated Herpesvirus”, J. Virol. **91**, e01947 (2017) . (I.F.=4.368) ◆
91. C.-L. Chiang and K.-S. Lin*(林錦松), “Preparation and Characterization of CuO-Al₂O₃ Catalyst for Dimethyl Ether Production via Methanol Dehydration”, Int. J. Hydrogen Energ. **42**, 23526 (2017) . (I.F.=4.229) ◆
92. S.-F. Weng, H.-C. Hsieh, and C.-S. Lee*(李積琛), “Hydrogen Production from Oxidative Steam Reforming of Ethanol on Nickel-substituted Pyrochlore Phase Catalysts”, Int. J. Hydrogen Energ. **42**, 2849 (2017) . (I.F.=4.229) ◆
93. H. Y. K. Kaan, S. W. Chan, S. K. J. Tan, F. Guo, C. J. Lim, W. Hong*, and H. Song*, “Crystal Structure of TAZ-TEAD

- Complex Reveals a Distinct Interaction Mode from That of YAP-TEAD Complex ”, Sci. Rep.-UK **7**, 2035 (2017) . (I.F.=4.122) ◆
94. I.-M. Lee, I.-F. Tu, F.-L. Yang, T.-P. Ko, J.-H. Liao, N.-T. Lin, C.-Y. Wu, C.-T. Ren, A. H.-J. Wang, C.-M. Chang, K.-F. Huang*(黃開發), and S.-H. Wu*(吳世雄) , “Structural Basis for Fragmenting the Exopolysaccharide of *Acinetobacter Baumannii* by Bacteriophage ΦAB6 Tailspike Protein ”, Sci. Rep.-UK **7**, 42711 (2017) . (I.F.=4.122) ◆
 95. H.-W. Park, Z. Ma, H. Zhu, S. Jiang, R. C. Robinson, and S. A. Endow* , “Structural Basis of Small Molecule ATPase Inhibition of a Human Mitotic Kinesin Motor Protein ”, Sci. Rep.-UK **7**, 15121 (2017) . (I.F.=4.122) ◆
 96. S. Sakakibara*, T. Arimori, K. Yamashita, H. Jinzai, D. Motooka, S. Nakamura, S. Li, K. Takeda, J. Katayama, M. A. E. Hussien, M. Narazaki, T. Tanaka, D. M. Standley, J. Takagi, and H. Kikutani* , “Clonal Evolution and Antigen Recognition of Anti-nuclear Antibodies in Acute Systemic Lupus Erythematosus ”, Sci. Rep.-UK **7**, 16428 (2017) . (I.F.=4.122) ◆
 97. Y.-F. Tsai, W.-I. Luo, J.-L. Chang, C.-W. Chang, H.-C. Chuang, R. Ramu, G.-T. Wei, J.-M. Zen*(曾志明), and S. S.-F. Yu*(俞聖法) , “Electrochemical Hydroxylation of C₃-C₁₂ n-Alkanes by Recombinant Alkane Hydroxylase (AlkB) and Rubredoxin-2 (AlkG) from *Pseudomonas putida* GPo1 ”, Sci. Rep.-UK **7**, 8369 (2017) . (I.F.=4.122) ◆
 98. M.-C. Wu*(吳明忠), C.-H. Chen, W.-K. Huang, K.-C. Hsiao, T.-H. Lin, S.-H. Chan, P.-Y. Wu, C.-F. Lu, Y.-H. Chang, T.-F. Lin, K.-H. Hsu, J.-F. Hsu, K.-M. Lee, J.-J. Shyue, K. Kordás, and W.-F. Su , “Improved Solar-driven Photocatalytic Performance of Highly Crystalline Hydrogenated TiO₂ Nanofibers with Core-shell Structure ”, Sci. Rep.-UK **7**, 40896 (2017) . (I.F.=4.122) ◆
 99. W.-L. Wu, M.-Y. Chen, I.-F. Tu, Y.-C. Lin, N. EswarKumar, M.-Y. Chen, M.-C. Ho*(何孟樵), and S.-H. Wu*(吳世雄) , “The Discovery of Novel Heat-stable Keratinases from *Meiothermus Taiwanensis* WR-220 and Other Extremophiles ”, Sci. Rep.-UK **7**, 4658 (2017) . (I.F.=4.122) ◆
 100. Z. Xiao, Z. Ye, V. S. Tadwal, M. Shen, and E. C. Ren* , “Dual Non-contiguous Peptide Occupancy of HLA Class I Evoke Antiviral Human CD8 T Cell Response and form Neo-epitopes with Self-antigens ”, Sci. Rep.-UK **7**, 5072 (2017) . (I.F.=4.122) ◆
 101. S. Yang, Q. Shen, S. Wang, C. Song, Z. Lei, S. Han, X. Zhang, J. Zheng*(鄭積敏), and Z. Jia* , “Characterization of C-terminal Structure of MinC and Its Implication in Evolution of Bacterial Cell Division ”, Sci. Rep.-UK **7**, 7627 (2017) . (I.F.=4.122) ◆
 102. Y.-W. Chen, G.-H. Lee, and C. K. Lai*(賴重光) , “Fluorescent Mesogenic Boron Difluoride Complexes Derived from Heterocyclic Benzoxazoles ”, Dalton T. **46**, 12274 (2017) . (I.F.=4.099) ◆
 103. D. Chen, A. Jansson, D. Sim, A. Larsson, and P. Nordlund* , “Structural Analyses of Human Thymidylate Synthase Reveal a Site That May Control Conformational Switching Between Active and Inactive States ”, J. Biol. Chem. **292**, 13449 (2017) . (I.F.=4.01) ◆
 104. X. Chen, H.-F. Cheng, J. Zhou, C.-Y. Chan, K.-F. Lau, S. K.-W. Tsui, and S. W.-N. Au*(區詠娥) , “Structural Basis of the PE-PPE Protein Interaction in *Mycobacterium Tuberculosis* ”, J. Biol. Chem. **292**, 16880 (2017) . (I.F.=4.01) ◆
 105. Y.-C. Li, V. Naveen, M.-G. Lin, and C.-D. Hsiao*(蕭傳鐙) , “Structural Analyses of the Bacterial Primosomal Protein DnaB Reveal That it is a Tetramer and Forms a Complex with a Primosomal Re-initiation Protein ”, J. Biol. Chem. **292**, 15744 (2017) . (I.F.=4.01) ◆
 106. S. Singh, P. Samanta, R. Srivastava, A. Horechyy, U. Reuter, M. Stamm, H.-L. Chen, and B. Nandan* , “Ligand Displacement Induced Morphologies in Block Copolymer/Quantum Dot Hybrids and Formation of Core-shell Hybrid Nanoobjects ”, Phys. Chem. Chem. Phys. **19**, 27651 (2017) . (I.F.=3.906) ◆
 107. Y.-H. Hsueh*(薛逸煌), K.-S. Lin*(林錦松), Y.-T. Wang, and C.-L. Chiang , “Copper, Nickel, and Zinc Cations Biosorption Properties of Gram-positive and Gram-negative MerP Mercury-resistance Proteins ”, J. Taiwan Inst. Chem. Eng. **80**, 168 (2017) . (I.F.=3.849) ◆
 108. H. Zhang, K. H. Lam, W. W. L. Lam, S. Y. Y. Wong, V. S. F. Chan, and S. W. N. Au*(區詠娥) , “A Putative Spermidine Synthase Interacts with Flagellar Switch Protein FliM and Regulates Motility in *Helicobacter pylori* ”, Mol. Microbiol. **106**, 690 (2017) . (I.F.=3.816) ◆
 109. H. C. Wu, K. D. Chandrasekhar, J. K. Yuan, J. R. Huang, J.-Y. Lin, H. Berger, and H. D. Yang*(楊弘敦) , “Anisotropic Spin-flip-induced Multiferroic Behavior in Kagome Cu₃Bi(SeO₃)₂O₂Cl ”, Phys. Rev. B **95**, 125121 (2017) . (I.F.=3.813) ◆
 110. Y.-W. Chen, C.-H. Lee, Y.-L. Wang, T.-L. Li, and H.-C. Chang*(張煥正) , “Nanodiamonds as Nucleating Agents for

Protein Crystallization ", Langmuir **33**, 6521 (2017) . (I.F.=3.789) ◆

111. W. S. Chang, C.-S. Tu*(杜繼舜), P.-Y. Chen, C.-S. Chen, C.-Y. Lin, K.-C. Feng, Y. L. Hsieh, and Y. H. Huang , "Effects of Fe 3d-O 2p and Bi 6sp-O 2p Orbital Hybridizations in Nd Doped BiFeO₃ Ceramics ", J. Alloy. Compd. **710** , 870 (2017) . (I.F.=3.779) ◆
112. N. C. Mamillapalli, S. Vegiraju, P. Priyanka, C.-Y. Lin, X.-L. Luo, H.-C. Tsai, S.-H. Hong, J.-S. Ni, W.-C. Lien, G. Kwon, S. L. Yau*(姚學麟), C. Kim*, C.-L. Liu*(劉振良), and M.-C. Chen(陳銘洲)* , "Solution-processable End-functionalized Tetrathienoacene Semiconductors: Synthesis, Characterization and Organic Field Effect transistors applications ", Dyes Pigment. **145** , 584 (2017) . (I.F.=3.767) ◆
113. P. Samanta, R. Srivastava, B. Nandan*, and H.-L. Chen*(陳信龍) , "Crystallization Behavior of Crystalline/Crystalline Polymer Blends under Confinement in Electrospun Nanofibers of Polystyrene/Poly (Ethylene Oxide)/Poly(ϵ -caprolactone) Ternary Mixtures ", Soft Matter **13** , 1569 (2017) . (I.F.=3.709) ◆
114. Y.-H. Hsueh*(薛逸煌), P.-H. Tsai, and K.-S. Lin , "pH-dependent Antimicrobial Properties of Copper Oxide Nanoparticles in Staphylococcus Aureus ", Int. J. Mol. Sci. **18** , 793 (2017) . (I.F.=3.687) ◆
115. Y. K. Toh, A. M. Balakrishna, M. S. S. Manimekalai, B. B. Chionh, R. R. C. Seetharaman, F. Eisenhaber, B. Eisenhaber, and G. Grüber* , "Novel Insights into the Vancomycin-resistant Enterococcus Faecalis (V583) Alkylhydroperoxide Reductase Subunit F ", BBA-Gen. Subjects **1861** , 3201 (2017) . (I.F.=3.679) ◆
116. C.-W. Chen, P.-A. Chen, C.-J. Wei, H.-L. Huang, C.-J. Jou, Y.-L. Wei, and H. P. Wang*(王鴻博) , "Lithium Recovery with LiTi₂O₄ Ion-sieves ", Mar. Pollut. Bull. **124** , 1106 (2017) . (I.F.=3.241) ◆
117. W.-T. Chen, H.-K. Chang, C.-C. Lin, S.-M. Yang, and H.-S. Yin*(殷獻生) , "Chicken Interleukin-1 β Mutants are Effective Single-dose Vaccine Adjuvants that Enhance Mucosal Immune Response ", Mol. Immunol. **87** , 308 (2017) . (I.F.=3.188) ◆
118. A. C. Gandhi and J. G. Lin*(林昭吟) , "Exchange Bias in Finite Sized NiO Nanoparticles with Ni Clusters ", J. Magn. Magn. Mater. **424** , 221 (2017) . (I.F.=3.046) ◆
119. B. Singal, A. M. Balakrishna, W. Nartey, M. S. S. Manimekalai, J. Jeyakanthan, and G. Gruber* , "Crystallographic and Solution Structure of the N-terminal Domain of the Rel Protein from Mycobacterium Tuberculosis ", FEBS Lett. **591** , 2323 (2017) . (I.F.=2.999) ◆
120. E. S.-W. Chen, J.-H. Weng, Y.-H. Chen, S.-C. Wang, X.-X. Liu, W.-C. Huang, T. Matsui, Y. Kawano, J.-H. Liao, L.-H. Lim, Y. Bessho, K.-F. Huang, W.-J. Wu, and M.-D. Tsai*(蔡明道) , "Phospho-priming Confers Functionally Relevant Specificities for Rad53 Kinase Autophosphorylation ", Biochemistry **56** , 5112 (2017) . (I.F.=2.997) ◆
121. Y.-C. Yang, J. R. Deka, C.-E. Wu, C.-H. Tsai, D. Saikia, and H.-M. Kao*(高憲明) , "Cage Like Ordered Carboxylic Acid Functionalized Mesoporous Silica with Enlarged Pores for Enzyme Adsorption ", J. Mater. Sci. **52** , 6322 (2017) . (I.F.=2.993) ◆
122. F.-H. Cho, S.-C. Kuo, and Y.-H. Lai*(賴英煌) , "Surface-plasmon-induced Azo Coupling Reaction between Nitro Compounds on Dendritic Silver Monitored by Surface-enhanced Raman Spectroscopy ", RSC Adv. **7** , 10259 (2017) . (I.F.=2.936) ◆
123. C. H. Lam, H.-Y. Chi, S.-M. Hsu, Y.-S. Li, W.-Y. Lee, I.-C. Cheng, and D.-Y. Kang*(康敦彥) , "Surfactant-mediated Self-assembly of Nanocrystals to form Hierarchically Structured Zeolite Thin Films with Controlled Crystal Orientation ", RSC Adv. **7** , 49048 (2017) . (I.F.=2.936) ◆
124. Y. R. Jheng, M. G. Mohamed, and S.-W. Kuo*(郭紹偉) , "Supramolecular Interactions Induce Unexpectedly Strong Emissions from Triphenylamine-functionalized Polytyrosine Blended with Poly(4-vinylpyridine) ", Polymers **9** , 503 (2017) . (I.F.=2.935) ◆
125. M. G. Mohamed, Y.-R. Jheng, S.-L. Yeh, T. Chen, and S.-W. Kuo*(郭紹偉) , "Unusual Emission of Polystyrene-Based Alternating Copolymers Incorporating Aminobutyl Maleimide Fluorophore-containing Polyhedral Oligomeric Silsesquioxane Nanoparticles ", Polymers **9** , 103 (2017) . (I.F.=2.935) ◆
126. J. Gao, J.-W. Huang, Q. Li, W. Liu, T.-P. Ko, Y. Zheng, X. Xiao, C.-J. Kuo, C.-C. Chen*, and R.-T. Guo*(郭瑞庭) , "Characterization and Crystal Structure of a Thermostable Glycoside Hydrolase Family 45 1,4- β -endoglucanase from Thielavia Terrestris ", Enzyme Microb. Technol. **99** , 32 (2017) . (I.F.=2.932) ◆
127. H.-L. Huang*(黃心亮), H.-H. Huang, and Y. J. Wei , "Reduction of Toxic Cr(VI)-humic Acid in an Ionic Liquid ", Spectrochim. Acta B **133** , 9 (2017) . (I.F.=2.854) ◆

128. C. J. Schwalen, X. Feng, W. Liu, B. O-Dowd, T.-P. Ko, C. J. Shin, R.-T. Guo, D. A. Mitchell*, and E. Oldfield* , “Head-to-head Prenyl Synthases in Some Pathogenic Bacteria ”, *ChemBioChem* **18** , 985 (2017) . (I.F.=2.774) ◆
129. H. Y. K. Kaan, A. Y. L. Sim, S. K. J. Tan, C. Verma*, and H. Song* , “Targeting YAP/TAZ-TEAD Protein-protein Interactions Using Fragment-based and Computational Modeling Approaches ”, *PLoS One* **12** , e0178381 (2017) . (I.F.=2.766) ◆
130. H.-Y. Chang*(張欣暘), S.-T. Lin, T.-P. Ko, S.-M. Wu, T.-H. Lin, Y.-C. Chang, K.-F. Huang, and T.-M. Lee*(李澤民) , “Enzymatic Characterization and Crystal Structure Analysis of Chlamydomonas Reinhardtii Dehydroascorbate Reductase and Their Implications for Oxidative Stress ”, *Plant Physiol. Biochem.* **120** , 144 (2017) . (I.F.=2.718) ◆
131. G.-Y. Yeap*, F. Osman, K. Ito, D. Takeuchi, C.-M. Lin, and H. C. Lin , “Influence of Terminal Substituent on Non-linear S-shaped Oligomers Consisting of Azobenzene Moieties at the Peripheral Arm: Synthesis, Characterisation and Phase Transition Behaviour ”, *Liq. Cryst.* **44** , 809 (2017) . (I.F.=2.636) ◆
132. A. C. Gandhi, R. Das, F.-C. Chou, and J. G. Lin*(林昭吟) , “Magnetocrystalline Two-fold Symmetry in CaFe₂O₄ Single Crystal ”, *J. Phys.-Condens. Mat.* **29** , 175802 (2017) . (I.F.=2.617) ◆
133. A. C. Gandhi and J. G. Lin*(林昭吟) , “Magnetic Resonance Study of Exchange-biased Ni/NiO Nanoparticles ”, *J. Phys.-Condens. Mat.* **29** , 215802 (2017) . (I.F.=2.617) ◆
134. Y.-C. Liu, Y.-M. Su, K. J. Chen, W. C. Huang, Y. L. Kuo*(郭俞麟), and S. D. Lin*(林昇佃) , “Electrocatalysis Enhancement of a Screen-printed Carbon Electrode by Modification with Trisoctahedral Gold Nanocrystals for H₂O₂ and NADH Sensing Application ”, *J. Chem. Technol. Biotechnol.* **92** , 2460 (2017) . (I.F.=2.587) ◆
135. K. Boonyapakron, A. Jaruwat, B. Liwnaree, T. Nimchua, V. Champreda, and P. Chitnumsub* , “Structure-based Protein Engineering for Thermostable and Alkaliphilic Enhancement of Endo-β-1,4-xylanase for Applications in Pulp Bleaching ”, *J. Biotechnol.* **259** , 95 (2017) . (I.F.=2.533) ◆
136. T.-R. Chen*(陳存仁), P.-C. Liu, H.-P. Lee, F.-S. Wu, and K. H.-C. Chen , “Cyclometalated Iridium(III) Complexes with Ligand Effects on the Catalytic C-H Bond Activation of Toluene ”, *Eur. J. Inorg. Chem.* **2017** , 2023 (2017) . (I.F.=2.507) ◆
137. Y.-H. Lin, H.-L. Chen*(陳信龍), R. Goseki, and A. Hirao , “Phase Structure of the Exact Graft Copolymer Synthesized by Iterative Methodology Based on Living Anionic Polymerization ”, *Macromol. Chem. Phys.* **218** , 1700150 (2017) . (I.F.=2.492) ◆
138. Y.-Y. Li, H.-L. Chen, G.-J. Chen, C.-L. Kuo, P.-H. Hsieh, and W.-S. Hwang*(黃文星) , “Investigation of the Defect Structure of Congruent and Fe-doped LiNbO₃ Powders Synthesized by the Combustion Method ”, *Materials* **10** , 380 (2017) . (I.F.=2.467) ◆
139. Z.-Y. Lei, H.-M. Kuo, and C. K. Lai*(賴重光) , “Mesogenic Heterocyclic Pyrazoles, Isoxazoles and 1,3,4-oxadiazoles ”, *Tetrahedron* **73** , 1650 (2017) . (I.F.=2.377) ◆
140. H. C. Wu, W. J. Tseng, P. Y. Yang, K. D. Chandrasekhar, H. Berger, and H. D. Yang*(楊弘敦) , “Anisotropic Pressure Effects on the Kagome Cu₃Bi(SeO₃)₂O₂Cl Metamagnet ”, *J. Phys. D- Appl. Phys.* **50** , 265002 (2017) . (I.F.=2.373) ◆
141. M.-C. Lee, S.-T. Tseng, J.-C. Yang, T.-J. Hsieh, S.-C. Wu, S -M. Kuan, M.-J. Chen, M.-C. Chang, C.-C. Wang, H.-L. Chen, G.-C. Fang, W.-J. Huang, T.-P. Ko*(柯子平), and Y. Chen*(陳暉) , “Expression, Purification, Crystallization, and X-ray Structural Analysis of CRISPR-associated Protein Cas6 from Methanocaldococcus Jannaschii ”, *Crystals* **7** , 344 (2017) . (I.F.=2.144) ◆
142. Y.-C. Liu, S. Nachimuthu, K.-H. Tsau, Y. Ku*(顧洋), and J.-C. Jiang*(江志強) , “An Experimental Study on the Reduction Kinetics of Iron Titanium Based Oxygen Carriers with CO Validated by First Principle Calculations ”, *ChemistrySelect* **2** , 274 (2017) . (I.F.=1.505) ◆
143. M.-C. Wu*(吳明忠), Y.-H. Chang, and T.-H. Lin , “Bismuth Doping Effect on Crystal Structure and Photodegradation Activity of Bi-TiO₂ Nanoparticles ”, *Jpn. J. Appl. Phys. 1* **56** , 04CJ01 (2017) . (I.F.=1.452) ◆
144. W.-T. Liu, S.-C. Tsai*(蔡世欽), T.-L. Tsai, C.-P. Lee, and C.-H. Lee*(李志浩) , “Characteristic Study for the Uranium and Cesium Sorption on Bentonite by Using XPS and XANES ”, *J. Radioanal. Nucl. Chem.* **314** , 2237 (2017) . (I.F.=1.181) ◆
145. C.-K. Seou, S.-T. Ha*, S.-L. Lee, G.-Y. Yeap, C.-M. Lin, H.-C. Lin, and Y.-F. Win , “Synthesis and Phase Transition Behaviours of Laterally Substituted Liquid Crystals Containing Methylhydroquinone: Emerging of Smectic C Phase for

- Higher Homologues ”, Phase Transit. **90** , 449 (2017) . (I.F.=1.028) ◆
146. S.-Y. Chow, Y.-L. Wang, Y.-C. Hsieh, G.-C. Lee, and S.-H. Liaw*(廖淑惠), “The N253F Mutant Structure of Trehalose Synthase from Deinococcus Radiodurans Reveals an Open Active-site Topology ”, Acta Crystallogr. F **73** , 588 (2017) . (I.F.=0.989) ◆
147. R. Hui, X. Hu, W. Liu, W. Liu, Y. Zheng, Y. Chen, R.-T. Guo, J. Jina*, and C.-C. Chen*, “Characterization and Crystal Structure of a Novel Zearalenone Hydrolase from Cladophialophora Bantiana ”, Acta Crystallogr. F **73** , 515 (2017) . (I.F.=0.989) ◆

主導性之非SCI論文

1. S.-L. Chou(周勝隆), J.-I Lo(羅仁佑), Y. C. Peng(彭鈺謙), M.-Y. Lin(林孟暉), H.-C. Lu(盧曉琪), B.-M. Cheng*(鄭炳銘), and J. F. Ogilvie , “Identification of cyc-B₃H₃ with Three Bridging B-H-B Bonds in a Six-membered Ring ”, ACS Omega **2** , 529 (2017) . ★

合作性之非SCI論文

1. Z. W. Li, H. Guo, Z. Hu, T. S. Chan(詹丁山), K. Nemkovski, and A. C. Komarek* , “Single-crystal Growth and Physical Properties of 50% Electron-doped Rhodate Sr_{1.5}La_{0.5}RhO₄ ”, Phys. Rev. Mater. **1** , 044005 (2017) . ☆

協助性之非SCI論文

1. Y.-T. Chan, T.-P. Ko, S.-H. Yao, Y.-W. Chen, C.-C. Lee*(李政忠), and A. H.-J. Wang*(王惠鈞) , “Crystal Structure and Potential Head-to-middle Condensation Function of a Z,Z-Farnesyl Diphosphate Synthase ”, ACS Omega **2** , 930 (2017) . ◆

Beamline/End Station Instrumentation

主導性之會議論文

1. A. Singh*(辛艾蒙), M. H. Modi, R. Dhawan, P. Jonnard, K. L. Guen, and J.- M. André , “Study of Complex Waveguide Structure Using Soft X-ray Reflectivity Technique ”, AIP Conference Proceedings, ★

合作性之會議論文

1. C.-L. Lee, S.-W. Chien, S.-Y. Chen, C.-H. Liu, K.-Y. Tsai*(蔡坤諭), J.-H. Li, B.-Y. Shew(許博淵), C.-S. Hong, and C.-T. Lee , “Fabrication of Metrology Test Structures with Helium Ion Beam Direct Write ”, Proceedings of SPIE, ☆
2. T.-H. Yang, Z.-L. Guo, Y.-M. Fu, Y.-T. Cheng*(鄭裕庭), Y.-F. Song(宋艷芳), and P.-W. Wu(吳樸偉) , “A Low Temperature Inkjet Pring and Filling Process for low Resistive Silver TSV Fabrication in a SU-8 Substrate ”, International Conference on Micro Electro Mechanical Systems (MEMS), Las Vegas, USA(2017). ☆

Accelerator Facility

主導性之SCI論文

1. Y.-S. Wong(黃永信), J.-F. Chen*(陳建富), K.-B. Liu(劉國賓), and Y.-P. Hsieh , “A Novel High Step-up DC-DC Converter with Coupled Inductor and Switched Clamp Capacitor Techniques for Photovoltaic Systems ”, Energies **10** , 378 (2017) . (I.F.=2.676) ★
2. C.-C. Chang*(張進春), L.-H. Wu(吳怜慧), C. Shueh(薛秦), C.-K. Chan(詹哲鎧), I.-C. Shen(沈怡青), and C.-K. Kuan(管建銘) , “Evaluation of Microstructure and Mechanical Properties of Dissimilar Welding of Copper Alloy and Stainless Steel ”, Int. J. Adv. Manuf. Technol. **91** , 2217 (2017) . (I.F.=2.601) ★
3. C. K. Chan*(詹哲鎧), C. C. Chang(張進春), C. Shueh(薛秦), I. C. Yang(楊易晨), L. H. Wu(吳怜慧), C. M. Cheng(鄭家沐), Y. T. Huang(黃英子), J. Y. Chuang(莊俊彥), Y. T. Cheng(鄭宇尊), Y. M. Hsiao(蕭元銘), B. Y. Chen(陳柏穎), and A. Sheng(沈怡青) , “Replacement of the TPS Bending Chamber with an On-site Cutting Method ”, Vacuum **143** , 229 (2017) . (I.F.=2.067) ★
4. J.-C. Huang*(黃睿哲), H. Kitamura, C.-K. Yang(楊謹綱), C.-H. Chang(張正星), C.-H. Chang(張正祥), and C.-S. Hwang(黃清鄉) , “Challenges of In-vacuum and Cryogenic Permanent Magnet Undulator Technologies ”, Phys. Rev. Spec. Top.-Accel. Beams **20** , 064801 (2017) . (I.F.=1.844) ★
5. C.-C. Wang(王昭晴), C.-H. Chang*(張正祥), C.-S. Hwang(黃清鄉), and C.-H. Lee(李志浩) , “A Compact 4.4 Tesla

- Cryogenic Wavelength Shifter for the Taiwan Photon Source ", IEEE Magn. Lett. **8**, 6501805 (2017) . (I.F.=1.568) ★
6. C. K. Yang(楊謹綱), C. Y. Kuo(郭政穎), Y. L. Chu(朱耘諒), J. C. Huang(黃睿哲), T. Y. Chung(鍾廷翊), and C. S. Hwang(黃清鄉) , "Effect of Magnetic Circuit Imperfections on the Field Performance of In-vacuum Undulators for the Taiwan Photon Source ", IEEE Magn. Lett. **8**, 6501905 (2017) . (I.F.=1.568) ★
 7. C. K. Chan*(詹哲鎧), C. C. Chang(張進春), C. Shueh,(薛秦) I. C. Yang(楊易晨), L. H. Wu(吳怜慧), B. Y. Chen(陳柏穎), C. M. Cheng(鄭家沐), Y. T. Huang(黃英子), J. Y. Chuang(莊俊彥), Y. T. Cheng(鄭宇尊), Y. M. Hsiao(蕭元銘), and A. Sheng(沈怡青) , "Conditioning of the Vacuum System of the TPS Storage Ring without Baking in Situ ", Nucl. Instrum. Meth. A **851** , 57 (2017) . (I.F.=1.336) ★
 8. C.-C. Chang*(張進春), C.-K. Chan(詹哲鎧), L.-H. Wu(吳怜慧), C. Shueh,(薛秦) I.-C. Shen(沈怡青), C.-M. Cheng(鄭家沐), and I.-C. Yang(楊易晨) , "Development and Fabrication of the Vacuum Systems for an Elliptically Polarized Undulator at Taiwan Photon Source ", Nucl. Instrum. Meth. A **853** , 36 (2017) . (I.F.=1.336) ★
 9. T.-Y. Chung*(鍾廷翊), C.-S. Yang(楊智勝), Y.-L. Chu(朱耘諒), F.-Y. Lin(林富源), J.-C. Jan(詹智全), and C.-S. Hwang(黃清鄉) , "Investigating Excitation-dependent and Fringe-field Effects of Electromagnet and Permanent-magnet Phase Shifters for a Crossed Undulator ", Nucl. Instrum. Meth. A **850** , 72 (2017) . (I.F.=1.336) ★
 10. C. Shueh*(薛秦), C. K. Chan(管建銚), C. C. Chang(張進春), and I. C. Sheng(沈怡青) , "Investigation of Vacuum Properties of CuCrZr Alloy for High-heat-load Absorber ", Nucl. Instrum. Meth. A **841** , 1 (2017) . (I.F.=1.336) ★
 11. C. Wang*(王兆恩), L.-H. Chang(張隆海), M.-H. Chang(張美霞), L.-J. Chen(陳令振), F.-T. Chung(鍾福財), M.-C. Lin(林明泉), Z.-K. Liu(劉宗凱), C.-H. Lo(羅志宏), C.-L. Tsai(蔡奇霖), M.-S. Yeh(葉孟書), and T.-C. Yu(尤宗旗) , "Mitigation of Multipacting, Enhanced by Gas Condensation on the High Power Input Coupler of a Superconducting RF Module, by Comprehensive Warm Aging ", Nucl. Instrum. Meth. A **872** , 150 (2017) . (I.F.=1.336) ★
 12. K.-B. Liu(劉國賓), C.-Y. Liu*(柳振堯), Y.-C. Chien(簡源震), B.-S. Wang(王寶勝), and Y. S. Wong(黃永信) , "Rigorous Mathematical Modelling for a Fast Corrector Power Supply in TPS ", J. Instrum. **12** , T04004 (2017) . (I.F.=1.258) ★
 13. Y.-S. Wong(黃永信), K.-B. Liu(劉國賓), C.-Y. Liu(柳振堯), and B.-S. Wang(王寶勝) , "Cabling Design of Booster and Storage Ring Construction Progress of TPS ", J. Instrum. **12** , P06011 (2017) . (I.F.=1.258) ★
 14. Y.-S. Wong(黃永信), J.-F. Chen*(陳建富), K.-B. Liu(劉國賓), C.-Y. Liu(柳振堯), and B.-S. Wang(王寶勝) , "Compensator Design for Corrector Magnet Power Supply of TPS Facility ", J. Instrum. **12** , T10001 (2017) . (I.F.=1.258) ★
 15. Y.-S. Wong(黃永信), J.-F. Chen*(陳建富), K.-B. Liu(劉國賓), and Y.-P. Hsieh , "High Conversion Ratio DC-DC Converter with Isolated Transformer and Switched-clamp Capacitor for Taiwan Photon Source ", J. Instrum. **12** , T12005 (2017) . (I.F.=1.258) ★

主導性之非 SCI 論文

1. C. H. Chen*(陳家祥), Y. C. Liu(劉毅志), J. Y. Chen(陳家益), M. S. Chiu(邱茂森), F. H. Tseng(曾繁信), S. Fann(范正光), C. C. Liang(梁成志), C. S. Huang(黃春憲), T. Y. Lee(李宗諭), B. Y. Chen(陳柏穎), H. J. Tsai(蔡弘人), G. H. Luo(羅國輝), and C. C. Kuo(郭錦城) , "Preliminary Study of Injection Transients in the TPS Storage Ring ", J. Phys.-Conf. Ser. **874** , 012060 (2017) . ★
2. C. L. Chen*(陳慶隆) and C. C. Chang*(張進春) , "New Automatic Welding Processes and Deformation Analysis for Large Aluminum Ultra-high Vacuum Chambers ", Key Eng. Mater. **730** , 282 (2017) . ★
3. Y. C. Chien(簡源震), C. Y. Liu(柳振堯), and B. S. Wang*(王寶勝) , "A Digital Fast Corrector Power Converter Design for TPS Ring ", ICIC Express Lett. pt. B **8** , 1085 (2017) . ★
4. Y. C. Chien(簡源震), C. Y. Liu(柳振堯), Y. S. Wong(黃永信), K. B. Liu(劉國賓), and B. S. Wang*(王寶勝) , "Digital Learning Controller Design for the Booster Ring AC Power Supplies in Taiwan Photon Source ", ICIC Express Lett. pt. B **8** , 827 (2017) . ★
5. T.-Y. Chung*(鍾廷翊), M.-S. Chiu(邱茂森), H.-W. Luo(羅皓文), C.-K. Yang(楊謹綱), J.-C. Huang(黃睿哲), J.-C. Jan(詹智全), and C.-S. Hwang(黃清鄉) , "Optimized Undulator to Generate Low Energy Photons from Medium to High Energy Accelerators ", J. Phys.-Conf. Ser. **874** , 012019 (2017) . ★

6. H. C. Li*(李興傑), H. H. Tsai(蔡黃修), T. F. Lin(林再福), W. S. Chiou(邱文崧), S. H. Chang(張盛雄), F. Z. Hsiao(蕭豐初), W. R. Liao(廖文榮), and P. S. D. Chuang(莊秉勳) , “The Redundant Compressor System for the Helium Cryogenic Plant at TPS ”, IOP Conf. Ser.: Mater. Sci. Eng. **171** , 012041 (2017) . ★
7. B. S. Wang*(王寶勝), Y. C. Chien*(簡源震), C. Y. Liu(柳振堯), and K. B. Liu(劉國賓) , “Implementation of the Digital Control Card for TLS Corrector Magnet Power Supplies ”, ICIC Express Lett. pt. B **8** , 1155 (2017) . ★
8. Y.-S. Wong(黃永信), C.-Y. Liu*(柳振堯), K.-B. Liu(劉國賓), Y.-C. Chien(簡源震), and B.-S. Wang(王寶勝) , “Novel Lead-Lag Compensator for Magnet Correction Power Supply of TPS ”, ICIC Express Lett. pt. B **8** , 711 (2017) . ★
9. Y.-S. Wong(黃永信), K.-B. Liu*(劉國賓), C.-Y. Liu(柳振堯), Y.-C. Chien(簡源震), and B.-S. Wang(王寶勝) , “Development of a Novel High Step-down Correction Magnet Power Supply with Photovoltaic System ”, ICIC Express Lett. pt. B **8** , 469 (2017) . ★
10. Y. C. Yang*(楊易晨), C. K. Chan(詹哲鎧), I. C. Sheng(沈怡青), I. T. Huang(黃英子), J. Y. Chung(莊俊彥), and C. C. Liang(梁成志) , “Two Year Operational Experience with the TPS Vacuum System ”, J. Phys.-Conf. Ser. **874** , 012103 (2017) . ★
11. T. C. Yu*(尤宗旗), Ch. Wang(王兆恩), L. H. Chang(張隆海), M. S. Yeh(葉孟書), M. C. Lin(林明泉), C. H. Lo(羅志宏), M. H. Tsai(蔡明訓), F. T. Chung(鍾福財), M. H. Chang(張美霞), L. J. Chen(陳令振), Z. K. Liu(劉宗凱), C. L. Tsai(蔡奇霖), and F.-Y. Chang(張富毓) , “Quarter Wavelength Combiner for an 8.5kW Solid-state Amplifier and Conceptual Studies of Hybrid Combiners ”, J. Phys.-Conf. Ser. **874** , 012094 (2017) . ★

主導性之會議論文

1. C. K. Chan*(詹哲鎧), C. C. Chang(張進春), C. Shueh(薛秦), I. C. Yang,(楊易晨) L. H. Wu(吳怜慧), B. Y. Chen(陳柏穎), C. M. Cheng(鄭家沐), Y. T. Huang(黃英子), J. Y. Chuang(莊俊彥), Y. T. Cheng(鄭宇尊), Y. M. Hsiao(蕭元銘), and A. Sheng(沈怡青) , “Beam Cleaning of the Vacuum System of the TPS Storage Ring without Baking in Situ ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017) . ★
2. F.-Y. Chang(張富毓), L.-H. Chang(張隆海), M.-H. Chang(張美霞), L.-J. Chen(陳令振), F.-T. Chung(鍾福財), M.-C. Lin(林明泉), Z.-K. Liu(劉宗凱), C.-H. Lo(羅志宏), C. L. Tsai(蔡奇霖), Ch. Wang(王兆恩), M.-S. Yeh(葉孟書), and T.-C. Yu(尤宗旗) , “Digital Low Level RF Control System for the Taiwan Photon Source ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017) . ★
3. J. C. Chang(張瑞麒), J. C. Huang(黃昭銓), Y. C. Chang, F. Z. Hsiao(蕭豐初), S. P. Kao(高小萍), H. C. Li(李興傑), W. R. Liao(廖文榮), and C. Y. Liu(劉清源) , “Finite Element Analysis on Helium Discharge in the Storage Ring Tunnel ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017) . ★
4. C. H. Chen*(陳家祥), Y. C. Liu(劉毅志), J. Y. Chen(陳家益), M. S. Chiu(邱茂森), F. H. Tseng(曾繁信), S. Fann(范正光), C. C. Liang(梁成志), C. S. Huang(黃春憲), T. Y. Lee(李宗諭), B. Y. Chen(陳柏穎), H. J. Tsai(蔡弘人), G. H. Luo(羅國輝), and C. C. Kuo(郭錦城) , “Preliminary Study of Injection Transients in the TPS Storage Ring ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017) . ★
5. C. L. Chen*(陳慶隆), H. P. Chang(張和平), K. L. Tsai(蔡光隆), C. S. Fann(范棋翔), and K. K. Lin(林克剛) , “TPS Linac Temperature Monitoring System ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017) . ★
6. H.-C. Chen*(陳鴻樵), H.-H. Chen(陳信輝), Y.-K. Lin(林耀光), C.-L. Chen(陳慶隆), and C. H. Kuo(郭長和) , “Observation of Beam Disturbance Caused by ID Gap Variation at TLS Storage Ring ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017) . ★
7. H.-H. Chen(陳信輝), Y.-K. Lin(林耀光), C.-L. Chen(陳慶隆), C.-S. Fann(范棋翔), H.-P. Chang(張和平), K.-L. Tsai(蔡光隆), and K.-K. Lin(林克剛) , “Bz Calculation of TPS Linac Focusing Coils and a Toolkit for Bz Optimization ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017) . ★
8. J. Y. Chen(陳家益), C. H. Chen(陳家祥), M. S. Chiu(邱茂森), P. C. Chiu(邱斐珍), P. J. Chou(周炳榮), S. Fann(范正光), K. H. Hu(胡國華), C. S. Huang(黃春憲), C. C. Kuo(郭錦城), T. Y. Lee(李宗諭), C. C. Liang(梁成志), Y. C. Liu(劉毅志), G. H. Luo(羅國輝), H. J. Tsai(蔡弘人), and F. H. Tseng(曾繁信) , “A Fast Gain Calibration Algorithm for Beam Position Monitoring at Taiwan Photon Source ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017) . ★
9. Y. S. Cheng*(鄭永森), J. Chen(陳秀珍), C. Y. Liao(廖志裕), C. Y. Wu(吳俊億), C. H. Huang(黃至賢), D. Lee(李淑華), K. H. Hu(胡國華), and K. T. Hsu(許國棟) , “Upgrade of BTS Control System for the Taiwan Light Source ”,

International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★

10. M. S. Chiu*(邱茂森), T. Y. Chung(鍾廷翊), F. H. Tseng(曾繁信), J. Y. Chen(陳家益), C. H. Chen(陳家祥), Y. C. Liu(劉毅志), and P. J. Chou(周炳榮) , “Beam Dynamics Simulation for Epu200 in TPS ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
11. P. C. Chiu(邱斐珍), K. H. Hu(胡國華), C. H. Huang(黃至賢), C. Y. Liao(廖志裕), C. C. Liang(梁成志), Y. C. Liu(劉毅志), C. C. Kuo(郭錦城), F. H. Tseng(曾繁信), H. J. Tsai(蔡弘人), and K. T. Hsu(許國棟) , “Orbit Correction with Path Length Compensation Based on RF Frequency Adjustments in TPS ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
12. P. J. Chou*(周炳榮), C. K. Chan(詹哲鎧), C. C. Chang(張進春), K. T. Hsu(許國棟), K. H. Hu(胡國華), C. K. Kuan(管建銚), and I. C. Sheng(沈怡青) , “The Design Improvement of Horizontal Stripline Kicker in TPS Storage Ring ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
13. J. Y. Chuang*(莊俊彥), C. K. Kuan(管建銚), I. C. Sheng(沈怡青) Y. Z. Lin(林育正), Y. M. Hsiao(蕭元銘), Y. C. Yang(楊易晨), C. K. Chan(詹哲鎧), and C. S. Lin , “Development and Construction of Safety and Control Systems for the TPS Front End Interlock ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
14. F.-T. Chung*(鍾福財), M.-S. Yeh(葉孟書), T.-C. Yu(尤宗旗), Ch. Wang(王兆恩), M.-H. Chang(張美霞), L.-H. Chang(張隆海), L.-J. Chen(陳令振), C.-H. Lo(羅志宏), Z.-K. Liu(劉宗凱), M.-C. Lin(林明泉), C.-L. Tsai(蔡奇霖), and F.-Y. Chang(張富毓) , “Upgrade of the Existing Pid Controller and Oxygen Detection Alarm System for SRF Modules Operating in the Taiwan Light Source ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
15. T. Y. Chung*(鍾廷翊), M. S. Chiu(邱茂森), H. W. Luo(羅皓文), C. K. Yang(楊謹綱), J. C. Huang(黃睿哲), J. C. Jan(詹智全), and C. S. Hwang(黃清鄉) , “Optimized Undulator to Generate Low Energy Photons from Medium to High Energy Accelerators ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
16. C. H. Huang*(黃至賢), P. C. Chiu(邱斐珍), C. Y. Wu(吳俊億), Y. S. Cheng(鄭永森), K. H. Hu(胡國華), C. Y. Liao(廖志裕), and K. T. Hsu(許國棟) , “Study of 60 Hz Beam Orbit Fluctuations in the Taiwan Photon Source ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
17. C. S. Huang(黃春憲), C. H. Chen(陳家祥), C. C. Liang(梁成志), T. Y. Lee(李宗諭), M. S. Chiu(邱茂森), J. Y. Chen(陳家益), S. Fann(范正光), B. Y. Chen(陳柏穎), W. Y. Lin(林威佑), Y. C. Liu(劉毅志), and C. H. Kuo(郭長和) , “Introduction of Operating Procedures at TPS ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
18. J.-C. Huang*(黃睿哲), C.-K. Yang(楊謹綱), C.-H. Chang(張正星), C.-S. Yang(楊智勝), T.-Y. Chung(鍾廷翊), J.-C. Jan(詹智全), C.-S. Hwang(黃清鄉), and H. Kitamura , “Development of a Cryogenic Permanent Magnet Undulator for the TPS ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
19. Y.-T. Huang*(黃英子), C.-K. Chan(詹哲鎧), J.-Y. Chuang(莊俊彥), Y.-C. Yang(楊易晨), and I.-C. Sheng(沈怡青) , “Thermal Tests on TPS Beam Position Monitors ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
20. J. C. Jan*(詹智全), H. H. Chen(陳輝煌), S. D. Chen(陳思達), F. Y. Lin(林富源), C. S. Hwang(黃清鄉), C. H. Chang, T. Y. Chung(鍾廷翊), and G. H. Luo(羅國輝) , “Design of a 3.5 T Superconducting Multipole Wiggler ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
21. C. K. Kuan(管建銚), I. C. Sheng(沈怡青), Y. T. Cheng(鄭宇尊), J. Y. Chuang(莊俊彥), H. Y. Yan(顏宏益), Y. M. Hsiao(蕭元銘), C. Shueh(薛秦), and C. K. Chan(詹哲鎧) , “General Design of ID Front Ends in the TPS ”, International Particle Accelerator Conference (IPAC), Denmark(2017). ★
22. T. Y. Lee*(李宗諭) B. Y. Chen(陳柏穎), C. H. Chen(陳家祥), J. Y. Chen(陳家益), M. S. Chiu(邱茂森), S. Fann(范正光), C. S. Huang(黃春憲), C. C. Liang(梁成志), W. Y. Lin(林威佑), Y. C. Liu(劉毅志), H. J. Tsai(蔡弘人), and F. H. Tseng(曾繁信) , “Development of Automatic Turn-on System for TPS Machine ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
23. Y.-T. Li*(李易達), K.-B. Liu(劉國賓), B.-S. Wang(王寶勝), C.-Y. Liu(柳振堯), and Y. S. Wong(黃永信) , “Single-inductor Bipolar Outputs Power Converters ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
24. C. C. Liang*(梁成志), M. C. Chou(邱茂森), A. P. Lee(李安平), N. Y. Huang(黃暖雅), J. Y. Hwang(黃景一), W. K.

- Lau(劉偉強), C. H. Chen(陳家祥), T. C. Yu(尤宗旗), C. S. Huang(黃春憲), T. Y. Lee(李宗諭), W. Y. Lin(林威佑), B. Y. Chen(陳柏穎), and S. Fann(范正光) , “Characterization of the THz Radiation-based Bunch Length Measurement System for the NSRRC Photoinjector ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
25. C. Y. Liao(廖志裕), C. Y. Wu(吳俊億), C. H. Huang(黃志賢), Y. S. Cheng(鄭永森), K. H. Hu(胡國華), and K. T. Hsu(許國棟) , “Post-mortem System for the Taiwan Photon Source ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
26. Y. C. Liu(劉毅志), C. H. Chen(陳家祥), J. Y. Chen(陳家益), M. S. Chiu(邱茂森), P. J. Chou(周炳榮), C. S. Huang(黃春憲), S. Fann(范正光), C. C. Kuo(郭錦城), T. Y. Lee(李宗諭), C. C. Liang(梁成志), G. H. Luo(羅國輝), H. J. Tsai(蔡弘人), and F. H. Tseng(曾繁信) , “The Experience of Taiwan Photon Source Commissioning and Operation ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
27. Y.-H. Liu*(劉永慧), Y.-C. Chung(鍾炎慶), C.-K. Kuan(管建銚), and Z.-D. Tsai(蔡宗達) , “The Data Acquisition System and Inspection Equipment on Vibration Evaluation for Deionized and Cooling Water Pumps in TPS ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
28. Z. K. Liu*(劉宗凱), F.-Y. Chang(張富毓), L.-H. Chang(張隆海), M.-H. Chang(張美霞), L.-J. Chen(陳令振), F.-T. Chung(鍾福財), M.-C. Lin(林明泉), C.-H. Lo(羅志宏), C.-L. Tsai(蔡奇霖), Ch. Wang(王兆恩), M.-S. Yeh(葉孟書), and T.-C. Yu(尤宗旗) , “Input Output Controller of Digital Low Level RF System in NSRRC ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
29. T.-S. Ueng(翁宗賢), Y.-F. Chiu(邱永豐), Y.-C. Lin(林育智), K.-C. Kuo(郭坤政), and C.-K. Kuan(管建銚) , “Arc-flash Hazard and Protection for Electric Switchboard at NSRRC ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
30. B. S. Wang(王寶勝), Y. C. Chien(簡源震), Y. S. Wong(黃永信), C. Y. Liu(柳振堯), and K. B. Liu(劉國賓) , “Simulation the Iterative Learing Control Applied to the TPS Booster Ring Quadrupole Magnet Power Supply ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
31. Ch. Wang*(王兆恩), F. Y. Chang(張富毓), L. H. Chang(張隆海), M. H. Chang(張美霞), J. Chen(陳秀珍), L. J. Chen(陳令振), M. C. Lin(林明泉), F. T. Chung(鍾福財), Z. K. Liu(劉宗凱), C. H. Lo(羅志宏), C. L. Tsai(蔡奇霖), T. C. Yu(尤宗旗), and M. S. Yeh(葉孟書) , “Strategy towards Non-interrupted Operation of Superconducting Radio Frequency Modules at NSRRC ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
32. Y. S. Wong*(黃永信), K. B. Liu(劉國賓), C. Y. Liu(柳振堯), and B. S. Wang(王寶勝) , “Switching Power Supply Automatic Test System in Taiwan Photon Source ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
33. C. K. Yang(楊謹綱), C. H. Chang, J. C. Huang(黃睿哲), W. H. Hsieh(謝文軒), T. Y. Chung(鍾廷翊), and C. S. Hwang(黃清鄉) , “Field Measurement System for a Cryogenic Permanent Magnet Undulator in TPS ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
34. Y.-C. Yang*(楊易晨), C.-K. Chan(詹哲鎧), I.-C. Sheng(沈怡青), I.-T. Huang(黃英子), J.-Y. Chung(莊俊彥), and C.-C. Liang(梁成志) , “Two Year Operational Experience with the TPS Vacuum System ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
35. T. C. Yu*(尤宗旗), Ch. Wang(王兆恩), L. H. Chang(張隆海), M. S. Yeh(葉孟書), M. C. Lin(林明泉), C. H. Lo(羅志宏), M. H. Tsai(蔡明訓), F. T. Chung(鍾福財), M. H. Chang(張美霞), L. J. Chen(陳令振), Z. K. Liu(劉宗凱), C. L. Tsai(蔡奇霖), and F.-Y. Chang(張富毓) , “The Study of Electromagnet Compensated High Power Ferrite Circulator Operation with Superconducting RF Cavity ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★
36. T. C. Yu*(尤宗旗), Ch. Wang(王兆恩), L. H. Chang(張隆海), M. S. Yeh(葉孟書), M. C. Lin(林明泉), C. H. Lo(羅志宏), M. H. Tsai(蔡明訓), F. T. Chung(鍾福財), M. H. Chang(張美霞), L. J. Chen(陳令振), Z. K. Liu(劉宗凱), C. L. Tsai(蔡奇霖), and F.-Y. Chang(張富毓) , “Quarter Wavelength Combiner for an 8.5kW Solid-state Amplifier and Conceptual Studies of Hybrid Combiners ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ★

合作性之會議論文

1. H. W. Luo*, T. Y. Chung(鍾廷翊), C. S. Hwang(黃清鄉), and C. H. Lee , “Analysis of the Synchrotron Radiation

from Segmented Undulator in Double-mini Beta Function ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ☆

2. Y.-H. Wen, N.-Y. Huang(黃暖雅), A.-P. Lee(李安平), C.-H. Chen(陳家祥), and W.-K. Lau(劉偉強) , “Effects of Non-axisymmetric Solenoid Field on Beam Quality in Velocity Bunching ”, International Particle Accelerator Conference (IPAC), Copenhagen, Denmark(2017). ☆

Others

主導性之SCI論文

1. J. Shi, M.-H. Lin, I.-T. Chen, N. M. Estakhri, X.-Q. Zhang, Y. Wang, H.-Y. Chen, C.-A. Chen, C.-K. Shih, A. Alù, X. Li*, Y.-H. Lee*(李奕賢), and S. Gwo*(果尚志) , “Cascaded Exciton Energy Transfer in a Monolayer Semiconductor Lateral Heterostructure Assisted by Surface Plasmon Polariton ”, *Nat. Commun.* **8**, 35 (2017) . (I.F.=12.353) ★
2. F. Lee, M.-C. Tsai, M.-H. Lin, Y. L. Ni'mah, S. Hy, C.-Y. Kuo, J.-H. Cheng, J. Rick, W.-N. Su*(蘇威年), and B.-J. Hwang*(黃炳照) , “Capacity Retention of Lithium Sulfur Batteries Enhanced with Nano-sized TiO₂-embedded Polyethylene Oxide ”, *J. Mater. Chem. A* **5**, 6708 (2017) . (I.F.=9.931) ★
3. M.-K. Nguyen, W.-N. Su, and B.-J. Hwang*(黃炳照) , “A Plasmonic Coupling Substrate Based on Sandwich Structure of Ultrathin Silica-coated Silver Nanocubes and Flower-like Alumina-coated Etched Aluminum for Sensitive Detection of Biomarkers in Urine ”, *Adv. Healthc. Mater.* **6**, 1601290 (2017) . (I.F.=5.609) ★
4. M. Nugraha, M.-C. Tsai, J. Rick, W.-N. Su, H.-L. Chou*(周宏隆), and B. J. Hwang*(黃炳照) , “DFT Study Reveals Geometric and Electronic Synergisms of Palladiummercury Alloy Catalyst Used for Hydrogen Peroxide Formation ”, *Appl. Catal. A-Gen.* **547**, 69 (2017) . (I.F.=4.521) ★
5. A. Singh*(辛艾蒙), M. Sinha, R. K. Gupta, and M. H. Modi , “Investigation on Depth Resolved Compositions of E-beam Deposited ZrO₂ Thin Film ”, *Appl. Surf. Sci.* **419**, 337 (2017) . (I.F.=4.439) ★
6. R. Sankar*, G. Peramaiyan, I. P. Muthuselvam, C. J. Butler, K. Dimitri, M. Neupane, G. N. Rao, M.-T. Lin, and F. C. Chou*(周方正) , “Crystal Growth of Dirac Semimetal ZrSiS with High Magnetoresistance and Mobility ”, *Sci. Rep.-UK* **7**, 40603 (2017) . (I.F.=4.122) ★
7. A. G. Tamirat, A. A. Dubale, W.-N. Su*(蘇威年), H.-M. Chen, and B.-J. Hwang*(黃炳照) , “Sequentially Surface Modified Hematite Enables Lower Applied Bias Photoelectrochemical Water Splitting ”, *Phys. Chem. Chem. Phys.* **19**, 20881 (2017) . (I.F.=3.906) ★
8. C.-J. Pan, M.-C. Tsai, W.-N. Su, J. Rick, N. G. Akalework, A. Agegnehu, S.-Y. Cheng, and B.-J. Hwang*(黃炳照) , “Tuning/Exploiting Strong Metal-support Interaction (SMSI) in Heterogeneous Catalysis ”, *J. Taiwan Inst. Chem. Eng.* **74**, 154 (2017) . (I.F.=3.849) ★
9. C.-W. Chen(陳志偉), P.-H. Wang, L.-J. Chou, Y.-Y. Lee(李英裕), B.-J. Chang, and S.-Y. Chiang(江素玉) , “High-resolution Light-scattering Imaging with Two-dimensional Hexagonal Illumination Patterns: System Implementation and Image Reconstruction Formulations ”, *Opt. Express* **25**, 21652 (2017) . (I.F.=3.356) ★
10. M.-K. Nguyen, W.-N. Su, C.-H. Chen, J. Rick, and B.-J. Hwang*(黃炳照) , “Highly Sensitive and Stable Ag@SiO₂ Nanocubes for Label-free SERS-photoluminescence Detection of Biomolecules ”, *Spectrochim. Acta A* **175**, 239 (2017) . (I.F.=2.88) ★
11. R. Sankar*, G. N. Rao, I. P. Muthuselvam, T.-R. Chang, H. T. Jeng, G. S. Murugan, W.-L. Lee, and F. C. Chou*(周方正) , “Anisotropic Superconducting Property Studies of Single Crystal PbTaSe₂ ”, *J. Phys.-Condens. Mat.* **29**, 095601 (2017) . (I.F.=2.617) ★
12. M. L. Mekonnen, W.-N. Su*(蘇威年), C.-H. Chen, and B.-J. Hwang*(黃炳照) , “Ag@SiO₂ Nanocube Loaded Miniaturized Filter Paper as a Hybrid Flexible Plasmonic SERS Substrate for Trace Melamine Detection ”, *Anal. Methods* **9**, 6823 (2017) . (I.F.=2.073) ★
13. J.-X. Wu*(巫建興), G.-C. Chen*(陳冠均), M.-J. Wu*(吳明瑞), C.-H. Lin*, and T. Chen* , “Bilateral Photoplethysmography for Arterial Steal Detection in Arteriovenous Fistula Using a Fractional-order Decision-making Quantizer ”, *Med. Biol. Eng. Comput.* **55**, 257 (2017) . (I.F.=1.971) ★
14. J.-X. Wu(巫建興), C.-M. Li, G.-C. Chen, Y.-R. Ho, and C.-H. Lin* , “Peripheral Arterial Disease Screening for Hemodialysis Patients Using a Fractional-order Integrator and Transition Probability Decision-making Model ”, *IET Syst. Biol.* **11**, 69 (2017) . (I.F.=0.873) ★

合作性之 SCI 論文

1. W.-H. Hung*(洪緯璿), K.-L. Yang, S.-N. Lai, C.-R. Yang, J.-J. Shyue, C.-S. Ku(古慶順), and S. B. Cronin , “Demonstration of Enhanced Carrier Transport, Charge Separation, and Long-term Stability for Photocatalytic Water Splitting by a Rapid Hot Pressing Process ”, *J. Mater. Chem. A* **5** , 10687 (2017) . (I.F.=9.931) ☆
2. M. Angell, C.-J. Pan, Y. Rong, C. Yuan, M.-C. Lin, B.-J. Hwang(黃炳照), and H. Dai* , “High Coulombic Efficiency Aluminum-ion Battery Using an AlCl₃-urea Ionic Liquid Analog Electrolyte ”, *P. Natl. Acad. Sci. USA* **114** , 834 (2017) . (I.F.=9.504) ☆
3. G. Cheng, W. Qin, M.-H. Lin, L. Wei*, X. Fan, H. Zhang, S. Gwo(果尚志), C. Zeng*(曾長淦), J. G. Hou, and Z. Zhang , “Substantially Enhancing Quantum Coherence of Electrons in Graphene via Electron-plasmon Coupling ”, *Phys. Rev. Lett.* **119** , 156803 (2017) . (I.F.=8.839) ☆
4. A. P. Bateman, Z. Gong, T. H. Harder, S. S. de Sá, B. Wang, P. Castillo, S. China, Y. Liu, R. E. O'Brien, B. B. Palm, H.-W. Shiu(許紘璋), G. G. Cirino, R. Thalman, K. Adachi, M. L. Alexander, P. Artaxo, A. K. Bertram, P. R. Buseck, M. K. Gilles, J. L. Jimenez, A. Laskin, A. O. Manzi, A. Sedlacek, R. A. F. Souza, J. Wang, R. Zaveri, and S. T. Martin* , “Anthropogenic Influences on the Physical State of Submicron Particulate Matter Over a Tropical Forest ”, *Atmos. Chem. Phys.* **17** , 1759 (2017) . (I.F.=5.509) ☆
5. M. Bala, S. Gupta, S. K. Srivastava, S. Amirthapandian, T. S. Tripathi, S. K. Tripathi, C.-L. Dong, C.-L. Chen(陳啟亮), D. K. Avasthi, and K. Asokan* , “Evolution of Nanostructured Single-phase CoSb₃ Thin Films by Low-energy Ion Beam Induced Mixing and Their Thermoelectric Performance ”, *Phys. Chem. Chem. Phys.* **19** , 24886 (2017) . (I.F.=3.906) ☆
6. C. J. Butler*, Y.-M. Wu, C.-R. Hsing, Y. Tseng, R. Sankar, C.-M. Wei*(魏金明), F.-C. Chou(周方正), and M.-T. Lin*(林敏聰) , “Quasiparticle Interference in ZrSiS: Strongly Band-selective Scattering Depending on Impurity Lattice Site ”, *Phys. Rev. B* **96** , 195125 (2017) . (I.F.=3.813) ☆
7. C. J. Butler*, Y. Tseng, C.-R. Hsing, Y.-M. Wu, R. Sankar, M.-F. Wang, C.-M. Wei*(魏金明), F.-C. Chou(周方正), and M.-T. Lin*(林敏聰) , “Observation of Surface Superstructure Induced by Systematic Vacancies in the Topological Dirac Semimetal Cd₃As₂ ”, *Phys. Rev. B* **95** , 081410(R) (2017) . (I.F.=3.813) ☆
8. S. Xing*, J. Mansart, V. Brouet, M. Sicot, Y. Fagot-Revurat, B. Kierren, P. Le Fèvre, F. Bertran, J. E. Rault, U. B. Paramanik, Z. Hossain, A. Chainani, and D. Malterre , “Band Structure and Fermi Surfaces of the Reentrant Ferromagnetic Superconductor Eu(Fe_{0.86}Ir_{0.14})₂As₂ ”, *Phys. Rev. B* **96** , 174513 (2017) . (I.F.=3.813) ☆
9. P. Rajput*, A. Singh(辛艾蒙), M. Kumar*, M. Gupta, V. R. Reddy, N. Ramanan, S. N. Jha, D. Bhattacharyya, and N. K. Sahoo , “Investigation of Local Structural and Magnetic Properties of Discontinuous to Continuous Layer of Co at Co/MgO Interface in MgO/Co/MgO Trilayer Structure ”, *J. Alloy. Compd.* **700** , 267 (2017) . (I.F.=3.779) ☆
10. H.-M. Cheng, F.-M. Wang*(王復民), J. P. Chu, B.-J. Hwang, J. Rick, and H.-L. Chou , “Developing Multivariate Linear Regression Models to Predict the Electrochemical Performance of Lithium Ion Batteries Based on Material Property Parameters ”, *J. Electrochem. Soc.* **164** , A1393 (2017) . (I.F.=3.662) ☆
11. K.-L. Lou*(樓國隆), M.-H. Hsieh, W.-J. Chen, Y.-C. Cheng, J.-N. Jian, M.-T. Lee(李明道), T.-L. Ling, Y.-S. Shiau, H.-H. Liou*(劉宏輝) , “Hanatoxin Inserts into Phospholipid Membranes without Pore Formation ”, *BBA-Biomembranes* **1859** , 917 (2017) . (I.F.=3.438) ☆
12. K. Mizutani, M. Niyyama, T. Nakano, M. Yosoi, Y. Nozawa, D. S. Ahn, J. K. Ahn, W. C. Chang, J. Y. Chen(陳家益) S. Daté, W. Gohn, H. Hamano, T. Hashimoto, K. Hicks, T. Hiraiwa, T. Hotta, S. H. Hwang, T. Ishikawa, K. Joo, W. S. Jung [etc] , “ φ Photoproduction on the Proton at $E_\gamma = 1.5\text{--}2.9 \text{ GeV}$ ”, *Phys. Rev. C* **96** , 062201(R) (2017) . (I.F.=3.304) ☆
13. Y.-S. Chen, H.-Y. Dai, Y.-W. Hsu, S.-L. Ou*(歐信良), S.-W. Chen(陳世偉), H.-C. Lu, S.-F. Wang, and A.-C. Sun*(孫安正) , “Room Temperature Deposition of Perpendicular Magnetic Anisotropic Co₃Pt Thin Films on Glass Substrate ”, *J. Magn. Magn. Mater.* **425** , 57 (2017) . (I.F.=3.046) ☆
14. R. Chang*(張瑞麟), H.-Y. Chung, C.-W. Chen(陳智偉), H.-P. Chiang*(江海邦), P. T. Leung* , “Optical Effects of Charges in Colloidal Solutions ”, *Opt. Mater.* **66** , 43 (2017) . (I.F.=2.32) ☆
15. G. Lugito, E. M. Woo*, and W.-T. Chuang(莊偉綜) , “Interior Lamellar Assembly and Optical Birefringence in Poly(Trimethylene Terephthalate) Spherulites: Mechanisms from Past to Present ”, *Crystals* **7** , 56 (2017) . (I.F.=2.144) ☆
16. K. Matsuda, K. Kimura, T. Nagao, T. Hagiya, Y. Kajihara, M. Inui, K. Tamura, M. Katoh, M. Itou, N. Hiraoka(平岡望), and Y. Sakurai , “Charge Inhomogeneity in an Expanded Fluid Metal: X-ray Compton Scattering Observation ”,

17. S. Chaipayang, C. Songsiriritthigul, C.-J. Chen(陳俊榮), P. M. Palacios, B. S. Pierce, N. Jangpromma, S. Klaynongsruang*, “Purification, Characterization, Cloning and Structural Analysis of *Crocodylus Siamensis* Ovotransferrin for Insight into Functions of Iron Binding and Autocleavage”, Comp. Biochem. Physiol. B-Biochem. Mol. Biol. **212**, 59 (2017) . (I.F.=1.684) ☆
18. A. Singh(辛艾蒙), M. H. Modia*, P. Jonnard, K. L. Guen, and J.-M. Andréb , “Investigation of ZrC/Al Interfaces in a Al/ZrC/Al/W Waveguide-like Structure by Soft X-ray Reflectivity Technique ”, J. Electron Spectrosc. **220** , 6 (2017) . (I.F.=1.601) ☆

Neutron Project

主導性之 SCI 論文

1. C.-M. Wu([吳浚銘), P.-I. Pan, Y.-W. Cheng, C.-P. Liu*(劉全璞), C.-C. Chang*(張家欽), M. Avdeev, and S.-K. Lin , “The Mechanism of the Sodiation and Desodiation in Super P Carbon Electrode for Sodium-ion Battery ”, J. Power Sources **340** , 14 (2017) . (I.F.=6.945) ★
2. Y.-C. Lai, C.-H. Du*(杜昭宏), C.-H. Lai, Y.-H. Liang, C.-W. Wang(王進威), K. C. Rule*, H.-C. Wu, H.-D. Yang, W.-T. Chen, G. J. Shu, and F.-C. Chou , “Magnetic Ordering and Dielectric Relaxation in the Double Perovskite YBaCuFeO_5 ”, J. Phys.-Condens. Mat. **29** , 145801 (2017) . (I.F.=2.617) ★
3. C. W. Wang(王進威), J. W. Lin(林哲緯), C. S. Lue, H. F. Liu, C. N. Kuo, R. A. Mole, and J. S. Gardner*(高佳山) , “Magnetic Correlations in the Intermetallic Antiferromagnet $\text{Nd}_3\text{Co}_4\text{Sn}_{13}$ ”, J. Phys.-Condens. Mat. **29** , 435801 (2017) . (I.F.=2.617) ★
4. J. W. Lin(林哲緯), J. S. Gardner(高佳山), C.-W. Wang, G. Deng, C. M. Wu, V. K. Peterson, and J. G. Lin*(林昭吟) , “Local Bonds Anomalies and Dynamics in Bismuth Ferrite ”, AIP Advances **7** , 055836 (2017) . (I.F.=1.653) ★

合作性之 SCI 論文

1. Y. Song, J. Chen*, X. Liu, C. Wang(王進威), Q. Gao, Q. Li, L. Hu, J. Zhang, S. Zhang, and X. Xing , “Structure, Magnetism, and Tunable Negative Thermal Expansion in $(\text{Hf},\text{Nb})\text{Fe}_2$ Alloys ”, Chem. Mater. **29** , 7078 (2017) . (I.F.=9.89) ☆
2. R. Muruganantham, Y.-T. Chiu, C.-C. Yang, C.-W. Wang(王進威), and W.-R. Liu*(劉偉仁) , “An Efficient Evaluation of F-doped Polyanion Cathode Materials with Long Cycle Life for Na-ion Batteries Applications ”, Sci. Rep.-UK **7** , 14808 (2017) . (I.F.=4.122) ☆
3. C. D. Ling*, M. C. Allison, S. Schmid, M. Avdeev, J. S. Gardner(高佳山), C.-W. Wang(王進威), D. H. Ryan, M. Zbiri, and T. Söhnel , “Striped Magnetic Ground State of the Kagome Lattice in $\text{Fe}_4\text{Si}_2\text{Sn}_7\text{O}_{16}$ ”, Phys. Rev. B **96** , 180410(R) (2017) . (I.F.=3.813) ☆
4. K. C. Rule, B. Willenberg, M. Schapers, A. U. B. Wolter, B. Buchner, S.-L. Drechsler, G. Ehlers, D. A. Tennant, R. A. Mole, J. S. Gardner(高佳山), S. Sullow, and S. Nishimoto , “Dynamics of Linarite: Observations of Magnetic Excitations ”, Phys. Rev. B **95** , 024430 (2017) . (I.F.=3.813) ☆
5. R. S. Solanki, S.-H. Hsieh, C. H. Du, G. Deng, C. W. Wang(王進威), J. S. Gardner(高佳山), H. Tonomoto, T. Kimura, and W. F. Pong*(彭維鋒) , “Correlations and Dynamics of Spins in an XY-like Spin-glass $(\text{Ni}_{0.4}\text{Mn}_{0.6})\text{TiO}_3$ Single-crystal System ”, Phys. Rev. B **95** , 024425 (2017) . (I.F.=3.813) ☆
6. J. A. M. Paddison*, G. Ehlers, O. A. Petrenko, A. R. Wildes, J. S. Gardner(高佳山), and J. R. Stewart , “Spin Correlations in the Dipolar Pyrochlore Antiferromagnet $\text{Gd}_2\text{Sn}_2\text{O}_7$ ”, J. Phys.-Condens. Mat. **29** , 144001 (2017) . (I.F.=2.617) ☆

協助性之 SCI 論文

1. S. Seo, E.-W. Huang, W. Woo, and S. Y. Lee* , “Neutron Diffraction Residual Stress Analysis during Fatigue Crack Growth Retardation of Stainless Steel ”, Int. J. Fatigue **104** , 408 (2017) . (I.F.=3.132) ◆

內部技術報告

1. 劉宗凱, 張富毓, 張隆海, 張美霞, 張鮮文, 陳令振, 鍾福財, 林明泉, 羅志宏, 蔡奇麟, 王兆恩, 葉孟書, 尤宗旗 , “數位高頻低階控制系統 IO 控制器設計與實現 ”, 2017

2. 羅志宏, 王兆恩, “CESR 型式高次模組之材料，處理與製作 ”, 2017
3. 陳柏穎, 梁成志, 李宗諭, 黃春憲, 范正光, 林威佑, 林郁琦, 郭長和, “TPS 丟失原因分析及對應之輻射分佈 ”, 2017
4. 范棋翔, 許森元, 許國棟, 張和平, 陳慶隆, 蔡光隆, 林克剛, “TLS 隔板磁鐵全波型脈衝電源的製作與測試結果 ”, 2017
5. 范棋翔, 許森元, 許國棟, 張和平, 陳慶隆, 蔡光隆, 林克剛, “TPS 增能環注射偏踢磁鐵固態開關脈衝電源系統建置安裝 ”, 2017
6. 范棋翔, 許森元, 張和平, 陳慶隆, 蔡光隆, 許國棟, 陳家祥, 黎家安, 林克剛, 黃衍介, “100 kV 電子槍測試平台的建置 ”, 2017
7. 范棋翔, 張和平, 陳慶隆, 蔡光隆, 許森元, 許國棟, 陳家祥, 陳昂佑, 林克剛, 黃衍介, “一座重新啟用的 XK5 速調管特性檢測 ”, 2017
8. 羅志宏, 王兆恩, 林明泉, 張美霞, 葉孟書, 鍾福財, 陳令振, 尤宗旗, 劉宗凱, “台灣光子源 KEKB 型式超導共振腔模組之整合組裝 ”, 2017
9. 黃思榮, 林耀光, 郭長和, 陳信輝, 陳鴻樵, 黎家安, “運轉小組警報語音/簡訊通報系統操作介面使用說明 ”, 2017
10. 陳信輝, 郭長和, 林克剛, “TLS-linac 速調管的導流係數量測及其運轉效能的評估 ”, 2017
11. 張朝毓, 張劍虹, 劉金炎, 張家峯, “TPS 02A 腦神經圖譜 X 光顯微成像光束線細部設計報告 ”, 2017
12. 林郁琦, 陳建榮, 張富東, 劉志青, “台灣光子源中子能譜評估與測量 ”, 2017
13. 鄭宇尊, 薛秦, 莊俊彥, 蕭元銘, 林育正, 管建銘, 沈怡青, “台灣光子源彎段磁鐵前端區真空系統建造 ”, 2017
14. 葉明峰, 鄭淵源, 李明聰, 劉清源, 詹文碩, 林家瑞, “TPS 開挖期間 TLS 基礎補強工法與沉陷量測結果簡介 ”, 2017
15. 黃思榮, “台灣光源新磁格試倉經驗 ”, 2017
16. 李長生, 于冠禮, 張劍虹, 劉金炎, 張家峯, 許火順, 徐嘉鴻, 張石麟, 宋艷芳, “TPS 09A 時間同調 X 光繞射光束線細部設計報告 ”, 2017
17. 李興傑, 蔡黃修, 林再福, 蕭豐初, 邱文崧, 廖文榮, 莊秉勳, 張盛雄, “TPS 液氮傳輸系統 ”, 2017
18. 李長生, 傅皇文, 蔡煌銘, 張劍虹, 張朝毓, 劉金炎, 張家峯, 林宏基, “TPS 45A 次微米軟 X 光光譜光束線輻射屏蔽防護屋設計報告 ”, 2017
19. 溫博鈞, 高小萍, 劉志青, “化學廢棄物貯存區設置 ”, 2017
20. 曾繁信, “高頻腔頻率回饋圖形控制介面 ”, 2017
21. 張和平, 陳慶隆, 范棋翔, 蔡光隆, 林克剛, “台灣光子源線型加速器微波分配控制系統的建置與研究 ”, 2017
22. 張和平, 范棋翔, 黃至賢, 吳俊億, 陳信輝, 黃思榮, 陳慶隆, 蔡光隆, 林克剛, “台灣光源儲存環注射偏踢脈衝磁鐵調校研究 ”, 2017
23. 張和平, 范棋翔, 陳信輝, 陳慶隆, 蔡光隆, 林克剛, “TPS 和 TLS 線型加速器 TH2100A 速調管的導流係數量測 ”, 2017
24. 張和平, 范棋翔, 陳信輝, 黃思榮, 黃至賢, 吳俊億, 邱斐珍, 許森元, 胡國華, 陳慶隆, 蔡光隆, 林克剛, 許國棟, “使用全正弦波脈衝隔板磁鐵電源進行恆定電流運轉之台灣光源儲存環電子軌道擾動研究 ”, 2017
25. 王寶勝, 簡源震, 劉國賓, “反覆式學習控制器之磁鐵電源供應器設計 ”, 2017
26. 王寶勝, 簡源震, 劉國賓, “發展全數位化 TPS 快速修正磁鐵電源供應器 ”, 2017
27. 李易達, “電源供應器解耦合設計報告 ”, 2017
28. 廖志裕, 吳俊億, 黃至賢, 邱斐珍, 鄭永森, 胡國華, 許國棟, “TPS 跳機診斷系統簡介及使用者操作介面使用說明 ”, 2017
29. 陳家益, “台灣光子源 Touschek 生命期研究 ”, 2017
30. 劉宗凱, 張富毓, 張隆海, 張美霞, 陳令振, 鍾福財, 林明泉, 羅志宏, 蔡奇麟, 王兆恩, 葉孟書, 尤宗旗, “NSLS-II 數

位高頻低階控制器測試報告 ”, 2017

31. 陳慶隆, 范棋翔, 張和平, 蔡光隆, 許森元, 許國棟, 林耀光, 陳信輝, 林克剛 , “TPS 線型加速器聚焦線圈縱向磁場 (Bz) 計算和優化工具包 ”, 2017

備註: 1. TLS 為 Taiwan Light Source 的縮寫，指國家同步輻射研究中心現有光源。
2. I.F. (Impact Factor) 以 2017 JCR (Journal Citation Reports) 為資料依據。
3. “★” 表中心主導性論文(主導性論文指該論文中心同仁為第一作者或通訊作者);
“☆” 表中心合作性論文(合作性論文指該論文的作者群中有中心同仁);
“◆” 表中心協助性論文(協助性論文指該論文作者群中無中心同仁, 但該論文使用到同步輻射光源)
4. 資料更新日期: 2019/3/14