

List of Publications (2018)

Experiments Performed at NSRRC Beamlines

主導性之 SCI 論文

1. K. B. Ibrahim, W.-N. Su*(蘇威年), M.-C. Tsai, S. A. Chala, A. W. Kahsay, M.-H. Yeh, H.-M. Chen, A. D. Duma, H. Dai, and B.-J. Hwang*(黃炳照) , “Robust and Conductive Magnéli Phase Ti_4O_7 Decorated on 3D-nanoflower NiRu-LDH as High-performance Oxygen Reduction Electrocatalyst ”, *Nano Energy* **47** , 309 (2018) . (I.F.=13.12) ★
2. J.-W. Chen, S.-T. Lo, S.-C. Ho, S.-S. Wong, T.-H.-Y. Vu, X.-Q. Zhang, Y.-D. Liu, Y.-Y. Chiou, Y.-X. Chen, J.-C. Yang, Y.-C. Chen, Y.-H. Chu, Y.-H. Lee, C.-J. Chung, T.-M. Chen, C.-H. Chen*(陳家浩), and C.-L. Wu*(吳忠霖) , “A Gate-free Monolayer WSe_2 Pn Diode ”, *Nat. Commun.* **9** , 3143 (2018) . (I.F.=12.353) ★
3. S.-F. Chen, N.-L. Huang, J.-H. Lin, C.-C. Wu, Y.-R. Wang, Y.-J. Yu, M. K. Gilson*, and N.-L. Chan*(詹迺立) , “Structural Insights into the Gating of DNA Passage by the Topoisomerase II DNA-gate ”, *Nat. Commun.* **9** , 3085 (2018) . (I.F.=12.353) ★
4. N.-H. Yang, Y.-F. Song*(宋艷芳), and R.-S. Liu*(劉如熹) , “In Operando Transmission X-ray Microscopy Illuminated by Synchrotron Radiation for Li-ion Batteries ”, *ACS Energ. Lett.* **3** , 1911 (2018) . (I.F.=12.277) ★
5. S.-C. Yang, S. H. Pang, T. P. Sulmonetti, W.-N. Su, J.-F. Lee(李志甫), B.-J. Hwang*(黃炳照), and C. W. Jones* , “Synergy between Ceria Oxygen Vacancies and Cu Nanoparticles Facilitates the Catalytic Conversion of CO_2 to CO under Mild Conditions ”, *ACS Catalysis* **8** , 12056 (2018) . (I.F.=11.384) ★
6. M.-J. Deng*(鄧名傑), T.-H. Chou, L.-H. Yeh*(葉禮賢), J.-M. Chen*(陳錦明), and K.-T. Lu(盧桂子) , “4.2 V Wearable Asymmetric Supercapacitor Devices Based on a $VO_x//MnO_x$ Paper Electrode and an Eco-friendly Deep Eutectic Solvent-based Gel Electrolyte ”, *J. Mater. Chem. A* **6** , 20686 (2018) . (I.F.=9.931) ★
7. J.-J. Kang, T.-Y. Yang, Y.-K. Lan, W.-R. Wu(吳瑋儒), C.-J. Su(蘇群仁), S.-C. Weng(翁世璋), N. L. Yamada, A.-C. Su*(蘇安仲), and U.-S. Jeng*(鄭有舜) , “Directed Vertical Diffusion of Photovoltaic Active Layer Components into Porous ZnO -Based Cathode Buffer Layers ”, *Small* **14** , 1704310 (2018) . (I.F.=9.598) ★
8. C.-J. Pan, C. Yuan, G. Zhu, Q. Zhang, C.-J. Huang, M.-C. Lin, M. Angell, B.-J. Hwang*(黃炳照), P. Kaghazchi*, and H. Dai* , “An Operando X-ray Diffraction Study of Chloroaluminate Anion-graphite Intercalation in Aluminum Batteries ”, *P. Natl. Acad. Sci. USA* **115** , 5670 (2018) . (I.F.=9.504) ★
9. O. Shih(施怡之), Y.-Q. Yeh(葉奕琪), K.-F. Liao(廖桂芬), C.-J. Su(蘇群仁), P.-H. Wu, R. K. Heenan, T.-Y. Yu*(余慈顏), and U.-S. Jeng*(鄭有舜) , “Membrane Charging and Swelling upon Calcium Adsorption as Revealed by Phospholipid Nanodiscs ”, *J. Phys. Chem. Lett.* **9** , 4287 (2018) . (I.F.=8.709) ★
10. A. S. Wotango, W. N. Su, A. M. Haregewoin, H.-M. Chen, J.-H. Cheng, M.-H. Lin, C.-H. Wang(王嘉興), and B. J. Hwang*(黃炳照) , “Designed Synergetic Effect of Electrolyte Additives to Improve Interfacial Chemistry of MCMB Electrode in Propylene Carbonate-based Electrolyte for Enhanced Low and Room Temperature Performance ”, *ACS Appl. Mater. Interfaces* **10** , 25252 (2018) . (I.F.=8.097) ★
11. H.-S. Hsu*(許華書), Y.-C. Chang, J.-Y. Huang, Y.-H. Huang, Y.-F. Liao*(廖彥發), J.-S. Lee, S.-J. Sun, and Y.-D. Yao , “Manipulation of the Magneto-optical Properties of a Co/C Heterostructure under an Applied Voltage ”, *Carbon* **140** , 10 (2018) . (I.F.=7.082) ★
12. H.-C. Lu*(盧曉琪), J.-I. Lo(羅仁佑), Y.-C. Peng(彭鈺謙), S.-L. Chou(周勝隆), B.-M. Cheng*(鄭炳銘), W.-H. Hung*(洪偉修) , “Far-UV Photoluminescence of Boron-doped Diamond: Cross Interaction Between Boron and Diamond ”, *Carbon* **134** , 448 (2018) . (I.F.=7.082) ★
13. J.-I. Lo(羅仁佑), S.-L. Chou(周勝隆), Y.-C. Peng(彭鈺謙), H.-C. Lu*(盧曉琪), J. F. Ogilvie, and B.-M. Cheng*(鄭炳銘) , “Formation of Nascent Product N_2O from the Irradiation of O_2 in Icy N_2 ”, *Astrophys. J.* **864** , 95 (2018) . (I.F.=5.551) ★
14. F.-J. Lin, S.-D. Lin, C.-H. Chin(金之豪), W.-T. Chuang*(莊偉綜), and C.-S. Hsu*(許千樹) , “Novel Conjugated Polymers Based on Bis-dithieno [3,2-b;2',3'-d] Pyrrole Vinylene Donor and Diketopyrrolopyrrole Acceptor: Side Chain Engineering in Organic Field Effect Transistors ”, *Polym. Chem.* **9** , 28 (2018) . (I.F.=4.927) ★
15. J.-Y. Jhuang, S.-H. Lee, S.-W. Chen, Y.-H. Chen, Y.-J. Chen, and J.-L. Lin*(林榮良), C. H. Wang(王嘉興), and Y.-W. Yang*(楊耀文) , “Adsorption and Reaction Pathways of 1H-pyrazole on Cu(100) and O/Cu(100) ”, *J. Phys. Chem.*

C **122**, 6195 (2018). (I.F.=4.484) ★

16. K.-S. Yang, Y.-R. Lu, Y.-Y. Hsu, C.-J. Lin, C.-M. Tseng, S. Y H. Liou, K. Kumar, D.-H. Wei, C.-L. Dong, and C.-L. Chen*(陳啟亮), “Plasmon-induced Visible-light Photocatalytic Activity of Au Nanoparticle-decorated Hollow Mesoporous TiO₂: A View by X-ray Spectroscopy”, J. Phys. Chem. C **122**, 6955 (2018). (I.F.=4.484) ★
17. C.-J. Chang*(張棋榕), Y.-G. Lin*(林彥谷), H.-T. Weng, and Y.-H. Wei, “Photocatalytic Hydrogen Production from Glycerol Solution at Room Temperature by ZnO-ZnS/Graphene Photocatalysts”, Appl. Surf. Sci. **451**, 198 (2018). (I.F.=4.439) ★
18. J. Cui, J. Du, H. Tian, T. Chan*(詹丁山), and C. Jing*(景傳勇), “Rethinking Anaerobic As(III) Oxidation in Filters: Effect of Indigenous Nitrate Respirers”, Chemosphere **196**, 223 (2018). (I.F.=4.427) ★
19. L.-C. Hsu(許良境), Y.-L. Cho, Y.-T. Liu*(劉雨庭), Y.-M. Tzou*(鄒裕民), H. Y. Teah, “Capacity and Recycling of Polyoxometalate Applied in As(III) Oxidation by Fe(II)-amended Zero-valent Aluminum”, Chemosphere **200**, 1 (2018). (I.F.=4.427) ★
20. C.-W. Tung, Y. Chuang, H.-C. Chen, T.-S. Chan*(詹丁山), J.-Y. Li, and H. M. Chen*(陳浩銘), “Tunable Electrodeposition of Ni Electrocatalysts onto Si Microwires Array for Photoelectrochemical Water Oxidation”, Part. Part. Syst. Charact. **35**, 1700321 (2018). (I.F.=4.384) ★
21. T. Luo, L. Ye, T. Chan*(詹丁山), and C. Jing*(景傳勇), “Mobilization of Arsenic on Nano-TiO₂ in Soil Columns with Sulfate Reducing Bacteria”, Environ. Pollut. **234**, 762 (2018). (I.F.=4.358) ★
22. H. Y. Lin, C. K. Cheng, K. H. M. Chen, C. C. Tseng, S. W. Huang, M. T. Chang, S. C. Tseng*(曾紹欽), M. Hong*(洪銘輝), and J. Kwo*(郭瑞年), “A New Stable, Crystalline Capping Material for Topological Insulators”, APL Mater. **6**, 066108 (2018). (I.F.=4.127) ★
23. L.-Y. Chen, Y.-C. Huang(黃彥杰), S.-T. Huang, Y.-C. Hsieh(謝殷程), H.-H. Guan(管泓翔), N.-C. Chen(陳乃齊), P. Chuankhayan(邱康妍), M. Yoshimura(吉村政人), M.-H. Tai*(戴明泓), and C.-J. Chen*(陳俊榮), “Domain Swapping and SMYD1 Interactions with the PWWP Domain of Human Hepatomaderived Growth Factor”, Sci. Rep.-UK **8**, 287 (2018). (I.F.=4.122) ★
24. C.-H. Chin(金之豪), M.-Y. Lin(林孟曄), T.-P. Huang(黃自平), P.-Z. Wu, and Y.-J. Wu*(吳宇中), “Direct IR Absorption Spectra of Propargyl Cation Isolated in Solid Argon”, Sci. Rep.-UK **8**, 14392 (2018). (I.F.=4.122) ★
25. H.-H. Guan(管泓翔), Y.-C. Hsieh(謝殷程), P.-J. Lin(林沛儒), Y.-C. Huang(黃彥杰), M. Yoshimura(吉村政人), L.-Y. Chen, S.-K. Chen, P. Chuankhayan(邱康妍), C.-C. Lin(林建志), N.-C. Chen(陳乃齊), A. Nakagawa, S. I. Chan, and C.-J. Chen*(陳俊榮), “Structural Insights into the Electron/Proton Transfer Pathways in the Quinol: Fumarate Reductase from Desulfovibrio Gigas”, Sci. Rep.-UK **8**, 14935 (2018). (I.F.=4.122) ★
26. I. V. B. Maggay, L. M. Z. De Juan, J.-S. Lu, M. T. Nguyen, T. Yonezawa, T.-S. Chan(詹丁山), and W.-R. Liu*(劉維仁), “Electrochemical Properties of Novel FeV₂O₄ as an Anode for Na-ion Batteries”, Sci. Rep.-UK **8**, 8839 (2018). (I.F.=4.122) ★
27. S.-L. Chou(周勝隆), J.-I. Lo(羅仁佑), Y.-C. Peng(彭鈺謙), H.-C. Lu(盧曉琪), B.-M. Cheng*(鄭炳銘), and J. F. Ogilvie*, “Photolysis of O₂ Dispersed in Solid Neon with Far-ultraviolet Radiation”, Phys. Chem. Chem. Phys. **20**, 7730 (2018). (I.F.=3.906) ★
28. J.-I. Lo(羅仁佑), S.-L. Chou(周勝隆), Y.-C. Peng(彭鈺謙), H.-C. Lu(盧曉琪), J. F. Ogilvie, and B.-M. Cheng*(鄭炳銘), “Thresholds of Photolysis of O₂ and of Formation of O₃ from O₂ Dispersed in Solid Neon”, Phys. Chem. Chem. Phys. **20**, 13113 (2018). (I.F.=3.906) ★
29. C.-J. Su*(蘇群仁), M.-T. Lee(李明道), K.-F. Liao(廖桂芬), O. Shih(施怡之), and U.-S. Jeng*(鄭有舜), “Interplay of Entropy and Enthalpy in Peptide Binding to Zwitterionic Phospholipid Membranes as Revealed from Membrane Thinning”, Phys. Chem. Chem. Phys. **20**, 26830 (2018). (I.F.=3.906) ★
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32. M.-H. Hsieh, P.-T. Huang, H.-H. Liou, P.-H. Liang, P.-M. Chen, S. A. Holt, I. F. Yu, M. James, Y.-S. Shiau, M.-T. Lee*(李明道), T.-L. Lin*(林滄浪), and K.-L. Lou*(樓國隆) , “The Penetration Depth for Hanatoxin Partitioning into the Membrane Hydrocarbon Core Measured with Neutron Reflectivity ”, *Langmuir* **34** , 9036 (2018) . (I.F.=3.789) ★
33. C.-L. Liu(劉建良) and H.-L Chen*(陳信龍) , “Crystal Orientation of PEO Confined within the Nanorod Templatized by AAO Nanochannels ”, *Soft Matter* **14** , 5461 (2018) . (I.F.=3.709) ★
34. T.-H. Chuang(莊子弘), K.-T. Lu(呂昆達), C.-I. Lu(呂俊毅), Y.-J. Hsu(許瑤真), and D.-H. Wei*(魏德新) , “Hybridization Regulated Metal Penetration at Transition Metal-organic Semiconductor Contacts ”, *Appl. Phys. Lett.* **112** , 081601 (2018) . (I.F.=3.495) ★
35. B.-H. Lin*(林碧軒), Y.-C. Wu, H.-Y. Chen(陳皇暉), S.-C. Tseng(曾紹欽), J.-X. Wu, X.-Y. Li(李嘯雲), B.-Y. Chen(陳伯毅), C.-Y. Lee(李建佑), G.-C. Yin(殷廣鈴), S.-H. Chang(張世泓), M.-T. Tang(湯茂竹), and W.-F. Hsieh , “Peculiar Near-band-edge Emission of Polarization-dependent XEOL from a Non-polar a-plane ZnO Wafer ”, *Opt. Express* **26** , 2731 (2018) . (I.F.=3.356) ★
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37. J.-I. Lo(羅仁佑), S.-L. Chou(周勝隆), Y.-C. Peng(彭鈺謙), H.-C. Lu(盧曉琪), and B.-M. Cheng*(鄭炳銘) , “Photodissociation Threshold and Emission with 220 nm of Icy Ethene ”, *Icarus* **302** , 261 (2018) . (I.F.=2.981) ★
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44. M.-Y. Lin(林孟暉), T.-P. Huang(黃自平), C.-H. Chin(金之豪), Y.-Y. Lee(李英裕), and Y.-J. Wu*(吳宇中) , “Infrared Spectra of Isotopomers of Chloromethylene in Solid Argon ”, *J. Mol. Spectrosc.* **345** , 17 (2018) . (I.F.=1.834) ★
45. Y.-J. Chiang(江昱儒), Y.-S. Lin, H.-R. Lin, and C.-L. Liu*(劉振霖) , “Specific Dissociation of Core-excited Pyrimidine Nucleobases ”, *Chem. Phys. Lett.* **706** , 215 (2018) . (I.F.=1.686) ★
46. C.-L. Chen*(陳啟亮), C.-L. Dong, K. Asokan, G. Chern, and C. L. Chang , “Electronic Structure of Cr Doped Fe₃O₄ Thin Films by X-ray Absorption Near-edge Structure Spectroscopy ”, *Solid State Commun.* **272** , 48 (2018) . (I.F.=1.549) ★
47. M. S. Harvey*, J. G. Cosgrove, D. Harms, P. A. Selden, C. Shih, and C.-C. Wang*(王俊杰) , “The Oldest Chthonioid Pseudoscorpion Arachnida: Pseudoscorpiones: Chthonioidea: Chthoniidae: A New Genus and Species From mid-cretaceous Burmese Amber ”, *Zool. Anz.* **273** , 102 (2018) . (I.F.=1.345) ★

合作性之SCI論文

1. S. Song, J. Zhou, X. Su, Y. Wang*(王羽), J. Li, L. Zhang, G. Xiao, C. Guan, R. Liu, S. Chen, H.-J. Lin(林宏基), S. Zhang*(張碩), and J.-Q. Wang*(王建強) , “Operando X-ray Spectroscopic Tracking of Self-reconstruction for Anchored Nanoparticles as High-performance Electrocatalysts Towards Oxygen Evolution ”, *Energ. Environ.*

2. G. Chen, Z. Hu, Y. Zhu, B. Gu, Y. Zhong, H.-J. Lin(林宏基), C.-T. Chen(陳建德), W. Zhou*(周嵬), and Z. Shao*(邵宗平), “A Universal Strategy to Design Superior Water-splitting Electrocatalysts Based on Fast in Situ Reconstruction of Amorphous Nanofilm Precursors”, *Adv. Mater.* **30**, 1804333 (2018) . (I.F.=21.95) ☆
3. M.-Y. Chen, J.-T. Lin, C.-S. Hsu, C.-K. Chang(張仲凱), C.-W. Chiu*(邱靜雯), H. M. Chen*(陳浩銘), and P.-T. Chou*(周必泰) , “Strongly Coupled Tin-halide Perovskites to Modulate Light Emission: Tunable 550-640 nm Light Emission (FWHM 36-80 nm) with a Quantum Yield of up to 6.4% ”, *Adv. Mater.* **30** , 1706592 (2018) . (I.F.=21.95) ☆
4. M.-H. Li, H.-H. Yeh, Y.-H. Chiang, U.-S. Jeng(鄭有舜), C.-J. Su(蘇群仁), H.-W. Shiu(許紜瑋), Y.-J. Hsu(許瑤真), N. Kosugi, T. Ohigashi, Y.-A. Chen, P.-S. Shen, P. Chen*(陳昭宇), and T.-F. Guo*(郭宗枋) , “Highly Efficient 2D/3D Hybrid Perovskite Solar Cells via Low-pressure Vapor-assisted Solution Process ”, *Adv. Mater.* **30** , 1801401 (2018) . (I.F.=21.95) ☆
5. S.-F. Hung, Y.-Y. Hsu, C.-J. Chang, C.-S. Hsu, N.-T. Suen, T.-S. Chan(詹丁山), and H. M. Chen*(陳浩銘) , “Unraveling Geometrical Site Confinement in Highly Efficient Iron-doped Electrocatalysts toward Oxygen Evolution Reaction ”, *Adv. Energy Mater.* **8** , 1701686 (2018) . (I.F.=21.875) ☆
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7. C. F. Chang, T. C. Koethe, Z. Hu, J. Weinen, S. Agrestini, L. Zhao, J. Gegner, H. Ott, G. Panaccione, H. Wu, M. W. Haverkort, H. Roth, A. C. Komarek, F. Offi, G. Monaco*, Y.-F. Liao(廖彥發), K.-D. Tsuei(崔古鼎), H.-J. Lin(林宏基), C. T. Chen(陳建德), A. Tanaka, and L. H. Tjeng , “c-Axis Dimer and Its Electronic Breakup: The Insulator-to-metal Transition in Ti_2O_3 ”, *Phys. Rev. X* **8** , 021004 (2018) . (I.F.=14.385) ☆
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9. J. Qiao, L. Ning*(宁利新), M. S. Molokeev, Y.-C. Chuang(莊裕鈞), Q. Liu, and Z. Xia*(夏志國) , “ Eu^{2+} Site Preferences in the Mixed Cation $K_2BaCa(PO_4)_2$ and Thermally Stable Luminescence ”, *J. Am. Chem. Soc.* **140** , 9730 (2018) . (I.F.=14.357) ☆
10. J.-K. Huang*, M. Li, Y. Wan, S. Dey, M. Ostwal, D. Zhang, C.-W. Yang, C.-J. Su(蘇群仁), U.-S. Jeng(鄭有舜), J. Ming, A. Amassian, Z. Lai, Y. Han, S. Li*, and L.-J. Li* , “Functional Two-dimensional Coordination Polymeric Layer as a Charge Barrier in Li-S Batteries ”, *ACS Nano* **12** , 836 (2018) . (I.F.=13.709) ☆
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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。

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4. 資料更新日期: 2019/3/14