

List of Publications (2015)

Experiments Performed at NSRRC Beamlines

主導性之 SCI 論文

1. B. B.-Y. Hsu*, C.-M. Cheng*(鄭澄懋), C. Luo, S. N. Patel, C. Zhong, H. Sun, J. Sherman, B. H. Lee, L. Ying, M. Wang, G. Bazan, M. Chabinyc, J.-L. Brédas, and A. Heeger , “The Density of States and the Transport Effective Mass in a Highly Oriented Semiconducting Polymer: Electronic Delocalization in 1D ”, *Adv. Mater.* **27** , 7759 (2015) . (I.F.=18.96) ★
2. J.-I. Lo(羅仁佑), S.-L. Chou(周勝隆), Y.-C. Peng(彭鈺謙), M.-Y. Lin(林孟暉), H.-C. Lu(盧曉琪), and B.-M. Cheng*(鄭炳銘) , “Formation of N₃, CH₃, HCN, AND HNC From the Far-UV Photolysis of CH₄ in Nitrogen Ice ”, *Astrophys. J. Suppl. Ser.* **221** , 20 (2015) . (I.F.=11.257) ★
3. I.-H. Chiang, W.-T. Chuang*(莊偉綜), C.-L. Lu, M.-T. Lee(李明道), and H.-C. Lin*(林宏洲) , “Shape and Confinement Effects of Various Terminal Siloxane Groups on Supramolecular Interactions of Hydrogen-bonded Bent-core Liquid Crystals ”, *Chem. Mater.* **27** , 4525 (2015) . (I.F.=9.407) ★
4. 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 Diborane(4) with Bridging B-H-B Bonds ”, *Chem. Sci.* **6** , 6872 (2015) . (I.F.=9.144) ★
5. M.-C. Liu(劉孟澄), S.-C. Chen(陳憲璣), C.-H. Chin(金之豪), T.-P. Huang(黃自平), H.-F. Chen, and Y.-J. Wu*(吳宇中) , “Photoisomerization and Infrared Spectra of Allene and Propyne Cations in Solid Argon ”, *J. Phys. Chem. Lett.* **6** , 3185 (2015) . (I.F.=8.539) ★
6. Y.-L. Sun(孫翊倫), W.-J. Huang(黃文建), and S.-H. Lee*(李世煌) , “Formation of Polyynes C₄H₂, C₆H₂, C₈H₂, and C₁₀H₂ from Reactions of C₂H, C₄H, C₆H, and C₈H Radicals with C₂H₂ ”, *J. Phys. Chem. Lett.* **6** , 4117 (2015) . (I.F.=8.539) ★
7. B. A. Aragaw, C.-J. Pan, W.-N. Su, H.-M. Chen, J. Rick, and B.-J. Hwang*(黃炳照) , “Facile One-pot Controlled Synthesis of Sn and C Codoped Single Crystal TiO₂ Nanowire Arrays for Highly Efficient Photoelectrochemical Water Splitting ”, *Appl. Catal. B-Environ.* **163** , 478 (2015) . (I.F.=8.328) ★
8. L. Zhu, Y. Jiang, J. Zheng, N. Zhang, C. Yu, Y. Li, C.-W. Pao, J.-L. Chen, C. Jin, J.-F. Lee*(李志甫), C.-J. Zhong*, and B. H. Chen*(陳秉輝) , “Ultrafine Nanoparticle-supported Ru Nanoclusters with Ultrahigh Catalytic Activity ”, *Small* **11** , 4385 (2015) . (I.F.=8.315) ★
9. A. A. Dubale, C.-J. Pan, A. G. Tamirat, H.-M. Chen, W.-N. Su*(蘇威年), C.-H. Chen*(陳景翔), J. Rick, D. W. Ayele, B. A. Aragaw, J.-F. Lee(李志甫), Y.-W. Yang(楊耀文), and B.-J. Hwang*(黃炳照) , “Heterostructured Cu₂O/CuO Decorated with Nickel as a Highly Efficient Photocathode for Photoelectrochemical Water Reduction ”, *J. Mater. Chem. A* **3** , 12482 (2015) . (I.F.=8.262) ★
10. A. G. Tamirat, W.-N. Su*(蘇威年), A. A. Dubale, H.-M. Chen, and B.-J. Hwang*(黃炳照) , “Photoelectrochemical Water Splitting at low Applied Potential Using a NiOOH Coated Codoped (Sn, Zr) α-Fe₂O₃ Photoanode ”, *J. Mater. Chem. A* **3** , 5949 (2015) . (I.F.=8.262) ★
11. H.-W. Chang(張漢威), Y.-R. Lu, J.-L. Chen(陳政龍), C.-L. Chen, J.-F. Lee(李志甫), J.-M. Chen(陳錦明), Y.-C. Tsai*(蔡毓楨), C.-M. Chang, P.-H. Yeh, W.-C. Chou, Y.-H. Lioug, and C.-L. Dong*(董崇禮) , “Nanoflaky MnO₂/functionalized Carbon Nanotubes for Supercapacitors: an in Situ X-ray Absorption Spectroscopic Investigation ”, *Nanoscale* **7** , 1725 (2015) . (I.F.=7.76) ★
12. I.-L. Chen(陳怡利), Y.-C. Wei, K.-T. Lu(盧桂子), T.-Y. Chen, C.-C. Hu*(胡啟章), and J.-M. Chen*(陳錦明) , “Local Structure Distortion Induced by Ti Dopants Boosting the Pseudocapacitance of RuO₂-based Supercapacitors ”, *Nanoscale* **7** , 15450 (2015) . (I.F.=7.76) ★
13. M.-J. Deng*(鄧名傑), C.-Z. Song, C.-C. Wang(王健嘉), Y.-C. Tseng, J.-M. Chen*(陳錦明), and K.-T. Lu*(盧桂子) , “Low Cost Facile Synthesis of Large-area Cobalt Hydroxide Nanorods with Remarkable Pseudocapacitance ”, *ACS Appl. Mater. Interfaces* **7** , 9147 (2015) . (I.F.=7.145) ★
14. Y.-K. Hsu*(徐裕奎), Y.-C. Chen, and Y.-G. Lin*(林彥谷) , “Novel ZnO/Fe₂O₃ Core-shell Nanowires for Photoelectrochemical Water Splitting ”, *ACS Appl. Mater. Interfaces* **7** , 14157 (2015) . (I.F.=7.145) ★

15. Y.-Y. Hsu, N.-T. Suen, C.-C. Chang, S.-F. Hung, C.-L. Chen*(陳啟亮), T.-S. Chan*(詹丁山), C.-L. Dong, C.-C. Chan, S.-Y. Chen, and H. M. Chen*(陳浩銘) , “Heterojunction of Zinc Blende/Wurtzite in $Zn_{1-x}Cd_xS$ Solid Solution for Efficient Solar Hydrogen Generation: X-ray Absorption/Diffraction Approaches ”, *ACS Appl. Mater. Interfaces* **7** , 22558 (2015) . (I.F.=7.145) ★
16. S. Hy, Y.-H. Chen, H.-M. Cheng, C.-J. Pan, J.-H. Cheng, J. Rick, and B.-J. Hwang*(黃炳照) , “Stabilizing Nanosized Si Anodes with the Synergetic Usage of Atomic Layer Deposition and Electrolyte Additives for Li-ion Batteries ”, *ACS Appl. Mater. Interfaces* **7** , 13801 (2015) . (I.F.=7.145) ★
17. N.-C. Chen(陳乃齊), M. Yoshimura(吉村政人), H.-H. Guan(管泓翔), T.-Y. Wang, Y. Misumi, C.-C. Lin, P. Chuankhayan(邱康妍), A. Nakagawa, S. I. Chan, T. Tsukihara, T.-Y. Chen*(陳宗嶽), and C.-J. Chen*(陳俊榮) , “Crystal Structures of a Piscine Betanodavirus: Mechanisms of Capsid Assembly and Viral Infection ”, *PLoS Pathog.* **11** , e1005203 (2015) . (I.F.=7.003) ★
18. H.-F. Chen, M.-C. Liu(劉孟澄), S.-C. Chen(陳憲璁), T.-P. Huang(黃自平), and Y.-J. Wu*(吳宇中) , “Irradiation of Ethylene Diluted in Solid Nitrogen with Vacuum Ultraviolet Light And Electrons: Its Implications for the Formation Of HCN And HNC ”, *Astrophys. J.* **804** , 36 (2015) . (I.F.=5.909) ★
19. 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), and B.-M. Cheng*(鄭炳銘) , “Analysis of Nickel Defect in Diamond with Photoluminescence upon Excitation near 200 nm ”, *Anal. Chem.* **87** , 7340 (2015) . (I.F.=5.886) ★
20. S. Hu, L. Yan, T. S. Chan*(詹丁山), and C. Jing*(景傳勇) , “Molecular Insights into Ternary Surface Complexation of Arsenite and Cadmium on TiO_2 ”, *Environ. Sci. Technol.* **49** , 5973 (2015) . (I.F.=5.393) ★
21. C.-M. Cheng*(鄭澄懋), L. F. Xie*, A. Pachoud, H. O. Moser, W. Chen, A. T. S. Wee, A. H. C. Neto, K.-D. Tsuei*(崔古鼎), and B. Özyilmaz* , “Anomalous Spectral Features of a Neutral Bilayer Graphene ”, *Sci. Rep.-UK* **5** , 10025 (2015) . (I.F.=5.228) ★
22. H.-H. Guan(管泓翔), M. Yoshimura(吉村政人), P. Chuankhayan(邱康妍), C.-C. Lin(林建志), N.-C. Chen(陳乃齊), M.-C. Yang, A. Ismail, H.-K. Fun, and C.-J. Chen*(陳俊榮) , “Crystal Structure of an Antigenic Outer-membrane Protein from *Salmonella Typhi* Suggests a Potential Antigenic Loop and an Efflux Mechanism ”, *Sci. Rep.-UK* **5** , 16441 (2015) . (I.F.=5.228) ★
23. W. B. Jiang, L. Yang, C. Y. Guo, Z. Hu, J. M. Lee(李振民), M. Smidman, Y. F. Wang, T. Shang, Z. W. Cheng, F. Gao, H. Ishii(石井啟文), K. D. Tsuei(崔古鼎), Y. F. Liao(廖彥發), X. Lu, L. H. Tjeng, J. M. Chen*(陳錦明), and H. Q. Yuan*(袁輝球) , “Crossover from a Heavy Fermion to Intermediate Valence State in Noncentrosymmetric $Yb_2Ni_{12}(P,As)_7$ ”, *Sci. Rep.-UK* **5** , 17608 (2015) . (I.F.=5.228) ★
24. C.-C. Wang*(王俊杰), Y.-F. Song*(宋艷芳), S.-R. Song, Q. Ji, C.-C. Chiang(江正誠), Q. Meng, H. Li, K. Hsiao, Y.-C. Lu, B.-Y. Shew(許博淵), T. Huang and R. R. Reisz* , “Evolution and Function of Dinosaur Teeth at Ultramicrostructural Level Revealed Using Synchrotron Transmission X-ray Microscopy ”, *Sci. Rep.-UK* **5** , 15202 (2015) . (I.F.=5.228) ★
25. J.-I. Lo(羅仁佑), M.-Y. Lin(林孟暉), Y.-C. Peng(彭鈺謙), S.-L. Chou(周勝隆), H.-C. Lu(盧曉琪), B.-M. Cheng*(鄭炳銘), and J. F. Ogilvie , “Far-ultraviolet Photolysis of Solid Methane ”, *Mon. Not. R. Astron. Soc.* **451** , 159 (2015) . (I.F.=4.952) ★
26. H.-C. Lu*(盧曉琪), M.-Y. Lin(林孟暉), Y.-C. Peng(彭鈺謙), S.-L. Chou(周勝隆), J.-I. Lo(羅仁佑), and B.-M. Cheng*(鄭炳銘) , “Absorption, Emission and Photolysis of C_{60} with Far-UV Excitation ”, *Mon. Not. R. Astron. Soc.* **452** , 2788 (2015) . (I.F.=4.952) ★
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31. J.-L. Chen, C.-C. Chang, Y.-K. Ho, C. L. Chen*, C.-C. Hsu, W.-L. Jang, D.-H. Wei, C.-L. Dong*(董崇禮), C.-W. Pao, J.-F. Lee, J.-M. Chen, J. Guod, and M.-K. Wu , “Behind the Color Switching in Gasochromic VO₂ ”, Phys. Chem. Chem. Phys. **17** , 3482 (2015) . (I.F.=4.449) ★
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41. Y.-K. Hsu*(徐裕奎), J.-R. Wu, M.-H. Chen, Y.-C. Chen, and Y.-G. Lin*(林彥谷) , “Fabrication of Homojunction Cu₂O Solar Cells by Electrochemical Deposition ”, Appl. Surf. Sci. **354** , 8 (2015) . (I.F.=3.15) ★
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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。

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