

Publication list

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3. First-Principles Calculations of Hydrogen Generation Due to Water Splitting on Polar GaN Surfaces. Po-Tuan Chen, Chia-Liang Sun, Michitoshi Hayashi, *J. Phys. Chem. C* **2010**, 114 (42), 18228-18232.
4. Barrierless Proton Transfer within Short Protonated Peptides in the Presence of Water Bridges. A Density Functional Theory Study. Po-Tuan Chen, Chia-Ching Wang, Jyh-Chiang Jiang, Hsi-Kai Wang, Michitoshi Hayashi, *J. Phys. Chem. B* **2011**, 155 (6), 1485-1490.
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8. First-Principles Calculations Analysis of ELNES Splitting for Mn₃O₄ Spinels Related to Atomic Local Symmetry. Po-Tuan Chen, Chuan-Ming Tseng, Tung-Yuan Yung, Ming-Wen Chu, Cheng-Hsuan Chen, Michitoshi Hayashi, *Ultramicroscopy* **2014**, 140, 51-56.
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10. Synthesis and Characterizations of Ni-NiO Nanoparticles on PDDA-Modified Graphene for Oxygen Reduction Reaction. Tung-Yuan Yung, Li-Ying Huang, Tzu-Yi Chan, Kuan-Syun Wang, Ting-Yu Liu, Po-Tuan Chen, Chi-Yang Chao, Ling-Kang Liu, *Nanoscale Res. Lett.* **2014**, 9, 444.
11. Characterization of Au and Bimetallic PtAu Nanoparticles on PDDA-Graphene Sheets as Electrocatalysts for Formic Acid Oxidation. Tung-Yuan Yung, Ting-Yu Liu, Li-Ying Huang, Kuan-Syun Wang, Huei-Ming Tzou, Po-Tuan Chen, Chi-Yang Chao, Ling-Kang Liu, *Nanoscale Res. Lett.* **2015**, 10, 365.
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 17. Moderate Energy for Charging Li-Ion Batteries Determined by First-Principles Calculations. Po-Tuan Chen*, Fang-Haur Yang, Hong-Min Gao, K. David Huang, *Batteries & Supercaps* **2018**, *1*, 209–214.
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Conference report:

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5. Density function theory study of CH₃N chemisorbed onto copper surface (110). *2005 Ann. Chin. Phys. Soc.*, Po-Tuan Chen, Michitoshi Hayashi, Cheng-Hsuan Chen.
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18. Edge Effect Analysis for O_2 Adsorption and Dissociation on N-Doped Graphene Nanoribbon, *International Symposium on Chemical-Environmental-Biomedical Technology 2014 (isCEBT 2014)*, Po-Tuan Chen, Chia-Liang Sun, and Michitoshi Hayashi.
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