研究成果目錄: (* corresponding author) h-index: 51 (Google Scholar)

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- 25. <u>Fang-Chung Chen</u>* "Surface plasmonic effects of metallic nanostructures on the performance of polymer solar cells" 9th World Congress of Chemical Engineering (Seoul, Korea, Aug. 2013) (invited oral presentation)
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- 1. <u>Fang-Chung Chen</u>*, Gautham Kumar, Cheng-Han Sung, Shi-Da Huang, Wen-Chi Lin, Chien-Chung Lin, Hao-Chung Kuo, "Photopatternable Perovskite Quantum Dots for Light-Emitting Devices" The 13th International Symposium for Luminescent Materials (Phosphor Safari 2024), (Taipei, Taiwan, Aug. 2024) (invited oral presentation)
- 2. Gajendra Suthar, Chih-Wei Chu, <u>Fang-Chung Chen</u>* "High-performance narrowband organic photodetectors based on selective exciton activated photomultiplication" Optics & Photonics Taiwan, International Conference 2023 (OPTIC 2023). (Student Paper Award, Oral)
- 3. Gajendra Suthar, Yu-Tang Hsiao, Kuen-Wei Tsai, Chuang-Yi Liao, Chih-Wei Chu, Yi-Ming Chang*, Fang-Chung Chen* "Morphological effects on the performance of broadband organic photomultiplication photodetectors containing selenium substituted non-fullerene acceptors" Optics & Photonics Taiwan, International Conference 2023 (OPTIC 2023).
- 4. Tsu-Hsin Li, Chia-Tse Hsu, <u>Fang-Chung Chen</u>* "Machine Learning Models for Predicting Efficiencies of Organic Photomultiple Photodetectors" Optics & Photonics Taiwan, International Conference 2023 (OPTIC 2023).
- 5. Wen-Chi Lin, Ching-Deng Lin, <u>Fang-Chung Chen</u>* "Effects of Cs ions in Organic-Inorganic Hybrid Perovskite Quantum Dots for X-Ray Imaging Applications" Optics & Photonics Taiwan, International Conference 2023 (OPTIC 2023).
- 6. Yu-Ze Zhang, Chia-Tse Hsu, <u>Fang-Chung Chen</u>* "Rapid Crystal Growth of Quasi-Two-Dimensional Perovskite Single Crystals for Solar Applications Using Alcohols Additives" Optics & Photonics Taiwan, International Conference 2023 (OPTIC 2023).
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- 9. Yen-Hsien Chang, Yan-Yu Shiu, <u>Fang-Chung Chen</u>* "Ligand Engineering of Red Perovskite Quantum Dots for Lighting Applications" Optics & Photonics Taiwan, International Conference 2023 (OPTIC 2023).
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- 11. Gajendra Suthar, Yu-Tang Hsiao, Kuen-Wei Tsai, Chuang-Yi Liao, Chih-Wei Chu, Yi-Ming Chang*, Fang-Chung Chen* "Morphological effects on the performance of broadband organic photomultiplication photodetectors containing selenium substituted non-fullerene acceptors" The 15th Asian Conference on Organic Electronics (A-COE 2023). (Student Poster Paper Award)
- 12. Gautham Kumara, <u>Fang-Chung Chen</u>* "Photoluminescence Enhancement of Quantum Dots Using Gold Nanoparticle-Decorated Graphene Oxides: Unveiling Plasmonic Effects and Real-World Applications" The 15th Asian Conference on Organic Electronics (A-COE 2023).
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- 14. Ching-Wei Lee, <u>Fang-Chung Chen</u>* "Self-Adaptive Transport Layers for Efficient Inverted Perovskite Photovoltaics" Optics & Photonics Taiwan, International Conference 2022 (OPTIC 2022). (Student Poster Paper Award)
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- 25. Yi-Fong Lai, and Fang-Chung Chen*, "Virtual Screening of Conjugated Polymers for Organic Photovoltaic Devices Using Support Vector Machines and Ensemble Learning" The 7th RIKEN-NCTU Symposium on Physical and Chemical Sciences (2019). (Master Student Paper Award)
- 26. <u>Fang-Chung Chen</u>* "Off-grid Photovoltaics for Smart Applications" The EITA Conference on New Materials, Nanotechnology and New Energy 2019, Hsinchu, Taiwan (invited oral presentation)
- 27. Wun-Jhen Chen, Tzu-Hsueh Wu, <u>Fang-Chung Chen</u>* "Enhancing the Performance of Perovskite Solar Cells by Utilizing the Local Surface Plasmon Effects of Copper Nanoparticles" The EITA Conference on New Materials, Nanotechnology and New Energy 2019, Hsinchu, Taiwan.
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- 35. Chi-Yu Yang, Hao-Wu Lin*, Ken-Tsung Wong*, and <u>Fang-Chung Chen</u>* "Efficient Excimer Delay Fluorescence Organic Light Emission Devices Based on Fluorene Derovatives" Optics & Photonics Taiwan, International Conference 2016 (OPTIC 2016)
- 36. Guan Yu Chen, Tsung Sheng Kao, Kuo Bin Hong, Yu Hsun Chou, Jiong Fu Huang, <u>Fang Chung Chen</u>*, Tien Chang Lu* "Lasing performance enhanced by localized surface plasmon in solution-processed perovskites" Optics & Photonics Taiwan, International Conference 2016 (OPTIC 2016) (oral presentation)
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- 42. Chun-Hao Lin, Jiong-Fu Huang, and <u>Fang-Chung Chen</u>*, "Plasmonic Effects of Gold Nanoparticle-Decorated Graphene Oxide Nanocomposites on the Performance of Polymer Light-Emitting Devices" Optics & Photonics Taiwan, International Conference 2014 (OPTIC 2014).
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- 48. Chun-Hsien Chou and <u>Fang-Chung Chen</u>* "Ray-tracing Designed Microlenses for Improving Flexible Waveguiding Photovoltaics" Optics & Photonics Taiwan, International Conference 2013 (OPTIC 2013) (student paper award).
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