

研究成果目錄： (* corresponding author) **H-index:38**

Journal papers 期刊論文 **IF** (impact factor): JCR Science Edition 2019

1. Ming-Kai Chuang, Chun-Hao Lin, Fang-Chung Chen*, “Accumulated plasmonic effects of gold nanoparticle decorated PEGylated graphene oxides in organic light-emitting diodes” **Dyes Pigm.** 180, 108412 (2020). (**IF:4.613**)
2. Chien-Lun Huang, Gautham Kumar, Ganesh D. Sharma, Fang-Chung Chen*, “Plasmonic Effects of Copper Nanoparticles in Polymer Photovoltaic Devices for Outdoor and Indoor Applications” **Appl. Phys. Lett.** 116, 253302 (2020). (**IF:3.597**)
3. Hsin-Hung Sung, Chien-Chen Kuo, Hung-Sheng Chiang, Hong-Lin Yue, Fang-Chung Chen*, “Differential Space-Limited Crystallization of Mixed-Cation Lead Iodide Single-Crystal Micro-Plates Enhances the Performance of Perovskite Solar Cells” **Solar RRL**, 3, 1900130 (2019). (**IF:7.527**)
4. Ming-Ju Wu, Chien-Chen Kuo, Lu-Syuan Jhuang, Po-Han Chen, Yi-Fong Lai, and Fang-Chung Chen*, “Bandgap Engineering Enhances the Performance of Mixed-Cation Perovskite Materials for Indoor Photovoltaic Applications” **Adv. Energy Mater.** 9, 1901863 (2019). (**Inside Front Cover**) (**IF:25.245**)
5. Yu-Chi Wang, Heng Li, Yu-Heng Hong, Kuo-Bin Hong, Fang-Chung Chen, Chia-Hung Hsu, Ray-Kuang Lee, Claudio Conti, Tsung Sheng Kao,* and Tien-Chang Lu* “Flexible Organometal–Halide Perovskite Lasers for Speckle Reduction in Imaging Projection” **ACS Nano**, 13, 5421-5429 (2019). (**IF:14.588**)
6. Fang-Chung Chen*, “Virtual Screening of Conjugated Polymers for Organic Photovoltaic Devices Using Support Vector Machines and Ensemble Learning” **Int. J. Polym. Sci.**, 2019, 4538514 (2019). (**IF:1.646**)
7. Ming-Chuan Hsiao, Ping-Cheng Chien, Lu-Syuan Jhuang and Fang-Chung Chen* “Bidentate Chelating Ligands as Effective Passivating Materials for Perovskite Light-Emitting Diodes”, **Phys. Chem. Chem. Phys.**, 21, 7867-7831 (2019). (**IF:3.430**)
8. Fang-Chung Chen*, “Emerging Organic and Organic/Inorganic Hybrid Photovoltaic Devices for Specialty Applications: Low-Level-Lighting Energy Conversion and Biomedical Treatment”, **Adv. Opt. Mater.**, 7, 1800662 (2019). (**Times Cited:5**) (**IF:8.286**)
9. M. L. Keshtov, S. A. Kuklin, I.O. Konstantinov, Fang-Chung Chen, Zhi-yuan Xie, G. D Sharma, “New iridium-containing conjugated polymers for polymer solar cell applications”, **New J. Chem**, 42, 17296-17302 (2018). (**Times Cited:1**) (**IF:3.288**)
10. Hong-Lin Yue, Hsin-Hung Sung and Fang-Chung Chen*, “Seeded Space-Limited Crystallization of CH₃NH₃PbI₃ Single-Crystal Plates for Perovskite Solar Cells”, **Adv. Electron. Mater.**, 4 (issue

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 12. Shun-Shing Yang, Zong-Chun Hsieh, Muchamed L. Keshtov, Ganesh D. Sharma, and Fang-Chung Chen*, “Toward High-Performance Polymer Photovoltaic Devices for Low-Power Indoor Applications”, **Solar RRL**, 1, 1700174 (2017). **(Times Cited:9) (selected as the front cover) (IF:7.527)**
 13. Soon Yie Kok, Zong-Chun Hsieh, Chun-Hsien Chou, Shun-Shing Yang, Ming-Kai Chuang, Yu-Tung Lin, Seong Shan Yap, Teck Yong Tou and Fang-Chung Chen* “Plasmonic effects on bulk heterojunction polymer solar cells : a transient photovoltage and differential charging study” **Sci. Adv. Mater.** 9, 1435-1439 (2017). **(Times Cited:3) (IF:1.117)**
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- 4,4-bis(2-ethylhexyl)-4*H*-silolo[3,2-*b*:4,5-*b'*] dithiophene Derivatives: Synthesis, Optoelectronic, and Electrochemical Properties” **Doklady Chem.** 470, 274-278 (2016) **(Times Cited:2) (IF:0.497)**.
20. Chiung-Fu Huang, M. L. Keshtov and Fang-Chung Chen*, ”Cross-Linkable Hole-Transport Materials Improve the Device Performance of Perovskite Light-Emitting Diodes” **ACS Appl. Mater. Interfaces** 8, 27006-27011 (2016). **(Times Cited:16) (IF:8.756)**
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2. Ming-Kai Chuang, Jyh-Lih Wu, Shang-Chieh Chien, and Fang-Chung Chen*, “Surface Plasmonic Effects of Nanostructures on the Performance of Polymer Solar Cells”, pp. 299-313, in “Progress in High-Efficient Solution Process Organic Photovoltaic Devices” edited by Y. Yang and G. Li, Springer, 2015. (ISBN 978-3-662-45508-1 for Hardcover; 978-3-662-45509-8 for eBook).
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Conference papers 研討會論文 (sorted by conference Location)

International Conference Papers 國外研討會論文

1. Hsin-Hung Sung, Hong-Lin Yue, Chien-Chen Kuo, Hung-Sheng Chiang, Fang-Chung Chen*, “Asymmetric thin-plate perovskite single crystals for photovoltaic applications”, The 5th International Conference on Advanced Electromaterials (ICAE), Jeju, Korea (2019). **(invited oral presentation)**
2. Hsin-Hung Sung, Hong-Lin Yue, Chien-Chen Kuo, Hung-Sheng Chiang, Fang-Chung Chen*, “Asymmetric thin-plate perovskite single crystals for solar energy applications” 2019 Collaborative Conference on Materials Research (CCMR), Goyang, South Korea (2019). **(invited oral presentation)**
3. Fang-Chung Chen, Shun-Shing Yang, Nai-Wei Teng, and Zong-Chun Hsieh, “High-efficient

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 5. Fang-Chung Chen* “High-efficient organic and perovskite photovoltaic devices for low-power indoor applications” The 27th International Conference on Amorphous and Nanocrystalline Semiconductors, Seoul, Korea, Aug. 2017. **(invited oral presentation)**
 6. Shun-Shing Yang, Po-Han Chen, Zong-Chun Hsieh, Nai-Wei Teng, Fang-Chung Chen* “Emerging Photovoltaic Devices for low-power indoor applications” The EITA Conference on New Materials, Nanotechnology and New Energy 2017, Ann Arbor, Michigan, U.S.A., **(invited oral presentation)**
 7. Fang-Chung Chen* “High-efficient organic and perovskite photovoltaic devices for low-power indoor applications” The 12th Pacific Rim Conference on Ceramic and Glass Technology, Hawaii, U.S.A., May 2017 **(invited oral presentation)**
 8. Ming-Kai Chuang, Chun-Hao Lin, and Fang-Chung Chen* “Plasmonic Effects of Amphiphilic Gold Nanoparticles in Polymer Optoelectronic Devices” 2016 International Conference on Optical MEMS and Nanophotonics (IEEE OMN 2016), Singapore, Aug. 2016.
 9. Fang-Chung Chen,* “Plasmonic nanostructures for organic photovoltaic devices” The 7th Asian Conference on Organic Electronics (A-COE 2015), Beijing, China, Oct. 2015 **(invited oral presentation)**.
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15. Ming-Kai Chuang, Fang-Chung Chen*, and Chain-Shu Hsu “Green synthesis of gold nanoparticle – decorated graphene oxides that enhance the photocurrent in polymer solar cells” 2014 Materials Research Society Spring Meeting (April 2014)
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17. Fang-Chung Chen* “Light Harvesting Schemes for High-performance Polymer Solar Cells” The 12th Emerging Information & Technology Conference (Toronto, Canada, Aug. 2012) **(invited oral presentation)**
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19. Fang-Chung Chen*, and Ming-Kai Chuang “Thin-film Transfer-printing of Polymer Blends with Self-organized Interfaces for Flexible Polymer Solar Cells” 2011 Materials Research Society Spring Meeting (April 2011) (oral presentation).
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29. Fang-Chung Chen* "High-performance polymer solar cells" Printed electronics Asia 08' (**invited oral presentation**)
30. Fang-Chung Chen*, Cheng-Hsiang Liao, Wei-Pang Huang, Tom Huang "Improved Air-stability of n-Channel Organic Thin Film Transistors via Surface Modification on Gate Dielectrics" Pacific Rim Meeting on Electrochemical and Solid-state Science (PRiME) (2008). (oral presentation)
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33. Fang-Chung Chen*, Hisn-Chen Tseng, and Chu-Jung Ko, "Efficient polymer solar cells prepared from co-solvent systems" MRS (Spring 2008).
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Domestic Conference Papers 國內研討會論文

1. Fang-Chung Chen*, Ming-Ju Wu, Chien-Chen Kuo, Lu-Syuan Jhuang, Shun-Shing Yang, Po-Han Chen, Zong-Chun Hsieh, Nai-Wei Teng, “Emerging Organic and Perovskite Photovoltaic Devices for Indoor Applications” Optics & Photonics Taiwan, International Conference 2019 (OPTIC 2019). **(invited oral presentation)**
2. 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)
3. Fang-Chung Chen* “Off-grid Photovoltaics for Smart Applications” The EITA Conference on New Materials, Nanotechnology and New Energy 2019, Hsinchu, Taiwan **(invited oral presentation)**
4. Wun-Jhen Chen, Tzu-Hsueh Wu, Fang-Chung Chen* “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.
5. Shi-Da Huang, Ren-Yung Yang, Fang-Chung Chen* “Plasmonic Effects of Gold Nanoparticles on the Performance of Perovskite Quantum Dot Light-Emitting Diodes” The EITA Conference on New Materials, Nanotechnology and New Energy 2019, Hsinchu, Taiwan.
6. Hsin-Hung Sung, Hung-Sheng Chiang, Ren-Yung Yang, Fang-Chung Chen* “Fabrication and Characteristic of Mixed-Cation Single-Crystal Plates for Perovskite Solar Cells” The EITA Conference on New Materials, Nanotechnology and New Energy 2019, Hsinchu, Taiwan.
7. Yu-Chang Lin, Wun-Jhen Chen, and Fang-Chung Chen* “Solution-Processable Copper Nanoparticles for Plasmonic-Enhanced Perovskite Solar Cells” Optics & Photonics Taiwan,

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8. Chen-Min Yang, Lu-Syuan Jhuang, Fang-Chung Chen* “Plasmonic Effects of Gold Nanoparticles on the Performance of Perovskite Light-Emitting Diodes” Optics & Photonics Taiwan, International Conference 2018 (OPTIC 2018).
9. Ming-Ju Wu, Chien-Chen Kuo, and Fang-Chung Chen* “Band-gap Engineering of Perovskite Photovoltaic Devices for Indoor Applications” Optics & Photonics Taiwan, International Conference 2018 (OPTIC 2018).
10. Xin-Jie Chen, Ming-Ju Wu, and Fang-Chung Chen* “Semitransparent Perovskite Solar Cells and their Tandem Structures Assembled with Si Cells” Optics & Photonics Taiwan, International Conference 2017 (OPTIC 2017)
11. Pang-Hua Huang, Yi-Chun Lai, Sih-Han Chen, Peichen Yu*, and Fang-Chung Chen ” Hybrid Carbon Nanotube/Silicon Schottky Junction Solar Cells” Optics & Photonics Taiwan, International Conference 2016 (OPTIC 2016)
12. Chi-Yu Yang, Hao-Wu Lin*, Ken-Tsung Wong*, and Fang-Chung Chen* “Efficient Excimer Delay Fluorescence Organic Light Emission Devices Based on Fluorene Derivatives” Optics & Photonics Taiwan, International Conference 2016 (OPTIC 2016)
13. Guan Yu Chen, Tsung Sheng Kao, Kuo Bin Hong, Yu Hsun Chou, Jiong Fu Huang, Fang Chung Chen*, Tien Chang Lu* “Lasing performance enhanced by localized surface plasmon in solution-processed perovskites” Optics & Photonics Taiwan, International Conference 2016 (OPTIC 2016) (oral presentation)
14. Zong-Chun Hsieh, Po-Han Chen and Fang-Chung Chen* ” Organic Photovoltaic Devices Prepared with a Low-Band-Gap Polymer for Low Light Applications” Optics & Photonics Taiwan, International Conference 2015 (OPTIC 2015)
15. Shun-Shing Yang, Nai-Wei Teng, and Fang-Chung Chen* ”Organic Photovoltaic Devices for Indoor Applications” Optics & Photonics Taiwan, International Conference 2015 (OPTIC 2015)
16. Shun-Shing Yang and Fang-Chung Chen* ”Organic Photovoltaic Devices for Indoor Applications” 2015 International Conference on Flexible and Printed Electronics, (The 6th ICFPE, 2015, Taipei)
17. Zong-Chun Hsieh and Fang-Chung Chen* ” Organic Photovoltaic Devices Prepared with a Low-Band-Gap Polymer for Low Light Applications” 2015 International Conference on Flexible and Printed Electronics, (The 6th ICFPE, 2015, Taipei)
18. Wai-Chen Lin, Hung-Wen Hsu, and Fang-Chung Chen* ” Polymer Solar Cells Prepared with Photoexfoliated Fluorinated Graphite as Cathode Buffer Layer” 2015 International Conference on Flexible and Printed Electronics, (The 6th ICFPE, 2015, Taipei)
19. Chun-Hao Lin, Jiong-Fu Huang, and Fang-Chung Chen*, “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).
20. Ming-Kai Chuang, Shun-Shing Yang and Fang-Chung Chen*, “PEGylated gold nanoparticle-decorated graphene oxides for realizing synergistic plasmonic effects on polymer solar cells” Optics & Photonics Taiwan, International Conference 2014 (OPTIC 2014).
 21. Fang-Chung Chen* “Plasmonic nanostructures for light-trapping in organic photovoltaic devices” International Conference on New Materials, Nanotechnology and New Green Energy 2014 (EITA–New Materials 2014) (**invited talk**).
 22. Fang-Chung Chen* Ming-Kai Chuang, and Shih-Wei Lin, “Graphene Derivatives for Organic Optoelectronics” Graphene 2014 International Conference (Nov. 2014) (**invited talk**).
 23. Fang-Chung Chen*, Ming-Kai Chuang, and Shih-Wei Lin, “Plasmonic nanostructures for polymer photovoltaic devices” International Symposium on Organic Photovoltaics (OPV-2014) (**invited talk**).
 24. Chun-Hsien Chou, Fang-Chung Chen*, Li Wen-Chieh, Lin Yao-Leng, Wu Cheng-Han “Anti-reflection encapsulant for solar cells” Annual Meeting of The Physical Society of Republic of China, 2014.
 25. Chun-Hsien Chou and Fang-Chung Chen* “Ray-tracing Designed Microlenses for Improving Flexible Waveguiding Photovoltaics” Optics & Photonics Taiwan, International Conference 2013 (OPTIC 2013) (**student paper award**).
 26. An-Kai Ling, Chun-Hao Lin, and Fang-Chung Chen* “Enhanced Light Out-Coupling Efficiency of Polymer Light-Emitting Devices by Blending Low Refractive Index materials” Optics & Photonics Taiwan, International Conference 2013 (OPTIC 2013).
 27. Yan-Hao Liao, Fang-Chung Chen*, Michael H. Huang and Min-Yi Yang “Au Nanosheets Induced Surface Plasmon to Enhance Performance of Organic Solar Cells” Optics & Photonics Taiwan, International Conference 2013 (OPTIC 2013).
 28. Yen-Tseng Lin, and Fang-Chung Chen* “Multiple-device stacked structures for High-performance organic cells” Optics & Photonics Taiwan, International Conference 2013 (OPTIC 2013).
 29. Chun-Hsien Chou and Fang-Chung Chen* “A Novel Concentrator Design with High Performance Flexible Waveguiding Photovoltaics” Photovoltaic Science and Engineering Conference (International PVSEC-23).
 30. Shih-Wei Lin, Ming-Kai Chuang, and Fang-Chung Chen* “Gold nanoparticle–decorated graphene oxide nanocomposites for plasmonic-enhanced polymer photovoltaic devices” Photovoltaic Science and Engineering Conference (International PVSEC-23).
 31. Kim-Shih Tan, Jyh-Lih Wu, Fang-Chung Chen*, Shu-Hao Chang, and Hsing-Yu Tuan “Near-

- Infrared Laser-Driven Polymer Photovoltaic Devices Containing Upconversion Nanocrystals”, Optics & Photonics Taiwan, International Conference 2012 (OPTIC 2012, formerly OPT 2012).
32. Chuan-Sheng Kao and Fang-Chung Chen* “Plasmonic-Enhanced Polymer Solar Cells with Inverted Structures”, Optics & Photonics Taiwan, International Conference 2012 (OPTIC 2012, formerly OPT 2012).
 33. Fang-Chung Chen* “Light Harvesting Schemes for High-performance Polymer Solar Cells” International Conference on Functional Organic Materials and Related Devices 2012.
 34. Chen-Wei Lin and Fang-Chung Chen* “Small Molecule Sensitizers in Polymer Photodetectors for Extended Spectral Response” Symposium on Nano Device Technology 2012.
 35. Ya-Wei Chung, Hsieh Po-Cheng, Yu-Ze Chen, Yu-Lun Chueh, and Fang-Chung Chen* “Effect of Doping Ratio on the Electrical Properties of Zirconium-Indium-Zinc-Oxide Thin-film Transistors Fabricated by Using a Solution Process” Taiwan Display Conference (2012).
 36. Shao-Tang Chuang, and Fang-Chung Chen* “Realization of Broad Spectral Response of Organic Photomultiple Photodetectors through Codoping Near-Infrared Dyes” International Photonics Conference (IPC 2011).
 37. Jyh-Lih Wu, Ming-Kai Chuang, Kim-Shih Tan, and Fang-Chung Chen* “Near-Infrared Laser-Driven Polymer Photovoltaic Devices and Their Biomedical Applications” International Photonics Conference (IPC 2011).
 38. Shu-Cheng Lin, and Fang-Chung Chen* “Charge Blocking Layers for Improving Detectivity of Organic Photomultiple Photodetectors” International Photonics Conference (IPC 2011).
 39. Wai-Chen Lin*, Mei-Ju Lee, Chao-Feng Sung, Fang-Chung Chen “Inverted and semitransparent polymer solar cells” The Asian Conference on Organic Electronics” (ACOE 2011).
 40. Fang-Chung Chen* “Light Harvesting Schemes for High-performance Polymer Solar Cells” 2011 Asia Pacific Academy of Materials (APAM) (2011) **(Invited)**
 41. Fang-Chung Chen*, Jyh-Lih Wu, Yi Hong, and Chia-Ling Lee “Light Trapping Approaches for High-performance Polymer Solar Cells” 16th Opto-electronics and Communications Conference (OECC) (2011). **(Invited)**
 42. Ya-Wei Chung, Ying-Pin Chen, and Fang-Chung Chen* “Solution-Processed ZrInZnO Semiconductor for Thin Film Transistors” International Display Manufacturing Conference (IDMC) (2011).
 43. Fang-Chung Chen*, Shang-Chieh Chien, Shao-Tang Chuang, and Guan-Lin Cious “High-performance organic photomultiple photodetectors exhibiting broadband response” 2010 International Conference on Optics and Photonics in Taiwan (OPT’ 10)
 44. Ming-Kai Chuang and Fang-Chung Chen* “A novel transfer-printing technique for flexible polymer

solar cells” 2010 International Conference on Optics and Photonics in Taiwan (OPT’ 10)

45. 陳宗達、陳方中*，可撓式有機薄膜電晶體在彎曲應力下的電性探討，Taiwan Display Conference (2010). (Student paper award)
46. Tzung-Han Tsai, Shang-Chieh Chien, and Fang-Chung Chen* “Performance-enhanced n-channel organic thin-film transistors incorporating poly(ethylene glycol)” Taiwan Display Conference (2010).
47. Shang-Chieh Chien, and Fang-Chung Chen*, “Nanoscale functional interlayers formed through spontaneous vertical phase separation in high-performance polymer photovoltaic devices”, Optics and Photonics Taiwan (OPT) (2009). (Student paper award)
48. Jyh-Lih Wu, Yi Hung, and Fang-Chung Chen*, “The exploitation of optical interference for improving the performance of inverted polymer solar cells”, Optics and Photonics Taiwan (OPT) (2009). (Student paper award)
49. Bing-Ruei Zeng, Fang-Chung Chen*, Shang-Chieh Chien, Chi-Neng Mo, Huai-An Li, and Shou-Cheng Weng, “Hysteresis-free photopatternable dielectrics for flexible organic thin-film transistors” International Display Manufacturing Conference/3D System and Application/Asia Display, (2009).
50. Yi-Hsing Chu, Gao-Ming Wu, Wei-Kuan Yu, Fang-Chung Chen, and Han-Ping D. Shieh, “Complementary circuits of ambipolar organic/oxide thin-film transistors for AMFPD applications” International Display Manufacturing Conference/3D System and Application/Asia Display, (2009). (Best paper award)
51. Jyh-Lih Wu, Fang-Chung Chen*, Kuo-Huang Hsieh, and Wen-Chang Chen “Transparent cathode for bulk-heterojunction organic solar cells”, International Conference on Optics and Photonics in Taiwan (OPT) (2008) (Student paper award)
52. Wen-Che Huang, Shang-Chieh Chien and Fang-Chung Chen*, “Highly efficient semi-transparent polymer solar cells”, International Conference on Optics and Photonics in Taiwan (OPT) (2008)
53. Shang-Chieh Chien, Hsin-Chen Tseng and Fang-Chung Chen* “Solvent mixtures for improving device efficiency of polymer photovoltaic devices” International Conference on Optics and Photonics in Taiwan (OPT) (2008).
54. Yu-Jen Huang, Hsiao-Fen Chang, Su-Ting Tsai, Chiao-Shun Chuang, Jung-An Cheng, Fang-Chung Chen*, and Han-Ping D. Shieh “Color filtering functional organic thin-film transistors” International Display Manufacturing Conference & Exhibition, (2007).
55. Yin-Ting Shih and Fang-Chung Chen* “The post-annealing effect on the electrical properties of pentacene thin film transistors” International Display Manufacturing Conference & Exhibition, (2007).

56. Shu-Ting Tsai and Fang-Chung Chen* “Effect of the surface treatments on the turn-on voltages of pentacene-based thin film transistors” International Display Manufacturing Conference & Exhibition, (2007).
57. Ying-Pin Chen and Fang-Chung Chen* “Effect of deposition temperature on the channel and contact resistance of pentacene thin film transistors” International Display Manufacturing Conference & Exhibition, (2007).
58. Hao-Wei Ting and Fang-Chung Chen* “Triplet energy transfer between a conjugated polymer and phosphorescent molecules” International Display Manufacturing Conference & Exhibition, (2007).
59. Yan-Chu Tsai, Shu-Ting Tsai, Chiao-Shun Chuang, Jung-An Cheng, Fang-Chung Chen, and Han-Ping D. Shieh* “Organic thin-film transistors with novel solution-process polymeric gate insulators” International Display Manufacturing Conference & Exhibition, (2007).
60. Fang-Chung Chen* “Recent Developments in polymer photovoltaic devices” Flexible Electronics – Organic Photovoltaic Workshop (2007). **(Invited)**
61. Fang-Chung Chen* “Recent development of phosphorescent polymer light-emitting diodes and other organic electronics” The 5th International OLED and PLED workshop in Taipei (2007). **(Invited)**
62. Jyh-Lih Wu, Fang-Chung Chen*, and Sidney S. Yang “Highly Efficient Organic Solar Cell with an Interlayer of Cesium Carbonate” Optics and Photonics Taiwan (2006).
63. Yi-Kai Lin, Fang-Chung Chen* and Chu-Jung Ko “Manipulation of the phase separation in organic blends by self-alignment method in sub-micron scale” Optics and Photonics Taiwan (2006).
64. Shang-Chieh Chien, and Fang-Chung Chen* “Polymer electrophosphorescent devices with Low turn-on voltage and high power conversion efficiencies” Optics and Photonics Taiwan (2006).
65. Ying-Pin Chen and Fang-Chung Chen* “Effect of deposition temperature on the device properties of pentacene thin-film transistors” Optics and Photonics Taiwan (2006).
66. Chu-Jung Ko, Yi-Kai Lin, and Fang-Chung Chen* “Microwave annealing processes in polymer photovoltaic devices” International Symposium on Flexible electronics and Display, (2006)
67. Tung-Hsien Chen, and Fang-Chung Chen* “Metal oxides as the buffer layers for organic thin-film transistors” Taiwan Display Conference (2006)
68. Li-Jen Kung, and Fang-Chung Chen* “High-performance organic thin-film transistors with copper phthalocyanine-modified source/drain contacts” Taiwan Display Conference (2006)
69. 劉思芳，王文生，陳方中*，偏極化高分子發光二極體之新型導電配向層，Taiwan Display Conference (2006)
70. 甘惠君，王文生，黃文奎，陳方中*，利用自組裝微小陣列透鏡增加有機發光二極體的光耦合效率，Taiwan Display Conference (2006)

71. Fang-Chung Chen* “The development of high-performance organic electronics” ITRI 學員交流論壇, (June 2006) (invited).
72. Fang-Chung Chen* “Organic Photovoltaic Devices for Low Power Sensor Networks” Wireless Sensor Network Workshop 2005
73. Chiao-Shun Chuang, Han-Ping D. Shieh, Yang Yang, and Fang-Chung Chen* “Numerical Prediction of Effective Dielectric Constant in Organic Thin-film Transistors with Nanocomposite Gate Insulator” International Display Manufacturing Conference & Exhibition, (2005).
74. Wen-Kuei Huang, Chu-Jung Ko, Hui-Chun Kan, and Fang-Chung Chen* “Fabrication of self-organized microlens array on plastic substrates” Optics and Photonics Taiwan (2005).

Other Publications

其他 (中文專刊)

1. 陳新傑、岳宏霖、莊名凱、陳方中，2017 年，「鈣鈦礦太陽能電池」，奈米通訊，二十四卷，p21-26。
2. 陳方中，2013 年，「有機光偵測器與三維空間動作感知技術」，電子月刊，第 216 期。
3. 莊名凱、陳方中，2011 年，「以轉印製程製作高分子太陽能電池」，光學工程，第 114 期。
4. 陳方中，2011 年，「高分子太陽能電池與其新穎集光方式的探討」，化工，第 58 卷，第 2 期。
5. 陳方中，2009 年，「可撓性高效能高分子薄膜太陽能電池的發展」，化合物半導體與光電技術。
4. 陳方中，2008 年，「高分子薄膜太陽能電池」，化合物半導體與光電技術。
5. 吳志力、陳方中，2008 年，「透明與疊層式有機太陽能電池」，光學工程，第 102 期。
6. 黃昱仁、廖呈祥、陳方中，2008 年，「有機半導體材料與電晶體技術」，電子月刊，第 153 期。
7. 葛祖榮、陳方中，2007 年，「高分子太陽能電池之退火技術」，光學工程，第 100 期。
8. 葛祖榮、陳方中，2007 年，「有機高分子太陽能電池的發展現況」，奈米通訊，十四卷。
9. 葛祖榮、林義凱、陳方中，「高分子太陽能電池光電轉換效率的提升」，電子月刊，第 145 期。
10. 陳方中、陳東賢、林永昇，「有機薄膜電晶體的發展與應用」，化合物半導體與光電技術。

11. 陳方中，2006 年，「磷光高分子發光二極體與其三重態的能量轉移」，光學工程，第 94 期。
12. 葛祖榮、黃文奎、陳方中，2006 年，「有機高分子太陽能電池的發展現況」，工業材料雜誌，第 230 期。
13. 陳方中，2005 年，「有機薄膜太陽能電池」，工業材料雜誌，第 219 期。
14. 陳方中、楊陽，No. 9，October、2004 年，「奈米技術於有機太陽能電池的應用」，產業奈米技術應用資訊園地奈米粉體與應用專刊。
15. 陳方中，2004 年，「有機電激磷光顯示器的發展及現況」，光訊，第 108 期。

Patents 專利

1. 「鈣鈦礦單晶的合成方法」，陳方中、岳宏霖。中華民國專利第 I657172 號。
2. 「鈣鈦礦型發光元件及其製造方法」，陳方中、黃炯福。中華民國專利第 I657123 號。(美國專利申請中)
3. 「一種太陽能電池抗反射封裝膜之製程方法」，吳政翰、倪國裕、薄慧雲、林遙冷、陳方中、周俊賢。中華民國專利第 I497736 號。
4. 「製備二維材料的方法」，陳方中、林渭澄。中華民國專利第 I548448 號。(美國專利申請中)
5. 「可撓性照明光伏打複合模組及其製備方法」，陳方中、周俊賢。中華民國專利第 I542826 號。
6. 「用於刺激神經增生之裝置及其製法」，陳方中、莊名凱、陳鍵熙 (中華民國專利申請中)
7. 「Device for stimulating neural regeneration and fabrication method thereof」，陳方中、莊名凱、陳鍵熙；美國專利: US 9,108,042 B2
8. 「Manufacturing method for organic optoelectronic thin film」，陳方中、莊名凱。美國專利: US 8,252,627 B2 (日本專利申請中)
9. 「提高有機有機發光二極體之光萃取之方法及其結構」，陳方中、凌安愷。中華民國專利第 I513078 號。
10. 「一種太陽能電池抗反射封裝膜之製程方法」，吳政翰、倪國裕、薄慧雲、林遙冷、陳方中、周俊賢。中華民國專利第 I497736 號。
11. 「有機光電薄膜元件之製造方法」，陳方中、莊名凱。中華民國專利第 I437744 號。
12. 「高分子太陽能電池及其製作方法」，陳方中、簡上傑；中華民國專利第 I497740 號。

13. 「太陽能電池模組及其製造方法」，陳方中、周俊賢、莊睿綱、林晏增。中華民國專利第 I493744 號。
14. 「提高光偵測度之光偵測元件及其形成方法」，陳方中、林書丞；中華民國專利第 I458105；日本專利特許第 5787170 號。(中國大陸專利申請中)。
15. 「有機太陽能電池及其製作方法」，陳方中、李佳霖、吳志力 (中華民國專利第 I458151)。
16. 「倒置式有機太陽能元件及其製作方法」，陳方中、吳志力、洪毅，中華民國專利第 I426633 號。
17. 「有機電致發光元件」，陳方中、陳永軒、簡上傑、莫啟能、鄒健龍、連詹田，中華民國專利第 I388056 號。
18. 「薄膜電晶體、畫素結構及液晶顯示面板」，莊喬舜、陳方中、謝漢萍，中華民國專利第 I345671 號。
19. 「微波退火法提升有機電子元件特性之方法」，陳方中、葛祖榮、林義凱，中華民國專利第 I341561 號(日本、歐盟專利申請中)。
20. 「高分子太陽能電池及其製造方法」，陳方中、朱治偉、葛祖榮、林義凱，中華民國專利第 I328290 號 (日本、德國專利申請中)
21. 「透鏡陣列的製造方法、透鏡陣列及其光學元件陣列裝置」，黃文奎、葛祖榮、陳方中，中華民國專利第 I315321 號。
22. 「光學元件微透鏡模組及其製造方法」，呂志平、黃文奎、陳方中、李裕正、鄭兆凱，中華民國專利第 I306954 號；中國大陸發明第 ZL200610101384.1 號專利。
23. 「閘極介電結構及其在有機薄膜電晶體之應用」，陳方中、莊喬舜、林永昇，中華民國專利第 I300273 號。
24. 「有機半導體元件之接面結構及有機電晶體及其製造方法」，陳方中、莊喬舜，中華民國專利第 I260785 號。