

Patent

1. "Novel pattern design for electrode screen printing of NPO MLCC", Taiwan provisional patent (TW patent No: M327074).
2. **Meng-Fang Lin**, Vijay Kumar Thakur and Pooi See Lee, "Graft copolymers of a poly(vinylidene fluoride)-based polymer and at least one type of electrically conductive polymer, and methods for forming the graft copolymer", US Provisional patent 61, 568,977.
3. **Meng-Fang Lin**, and Pooi See Lee, "Core-shell structured ceramic-polymer nanocomposites for energy storage applications", US provisional patent 61/554,620 61/820,375.
4. **Meng-Fang Lin**, Xiong Jiaqing and Pooi See Lee, "Hydrophobic cellulose nanoparticles (HCNPs) functionalized coatings for superhydrophobicity, water energy harvesting and wearable mechanical energy harvesting", PAT/356/16/17/SG PRV.
5. **Meng-Fang Lin**, Xiong Jiaqing and Pooi See Lee, "Dual functional materials for capacitive pressure sensor and triboelectric energy harvesting applications", PAT/047/17/17/SG PRV.

International Journal Publications

1. Chinedum Ogonna Mgbemena, Danning Li, **Meng-Fang Lin**, Paul Daniel Liddel, Kali Babu Katnam, Vijay Kumar Thakur, Hamed Yazdani Nezhad, "Accelerated microwave curing of fiber-reinforced thermoset polymer composites for structural applications: A review of scientific challenges", Composites Part A-Applied Science and manufacturing, 2018, 15, 88.
2. Jiaqing Xiong, Peng Cui, Xiaoliang Chen, Jiangxin Wang, Kaushik Parida, **Meng-Fang Lin**, and Pooi See Lee, "Skin-touch-actuated textile-based triboelectric nanogenerator with black phosphorus for durable biomechanical energy harvesting", Nature Communication, 2018, 9, 4280.
3. **Meng-Fang Lin**, Jiaqing Xiong, Jiangxin Wang, Kaushik Parida, Pooi See Lee, "Core-shell nanofiber mats for tactile pressure sensor and nanogenerator applications.", Nano Energy, 2018, 44, 248.
4. Jiangxin Wang,¹ **Meng-Fang Lin**,¹ Sangbaek Park, Pooi See Lee, "Deformable conductors for human-machine interface",
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Materials Today, 2018, 21, 508.

5. Jiaqing Xiong, Shaohui Lim Yiyang Ye, Jiangxin Kai Qian, Peng Cui, Dace Gao, **Meng-Fang Lin**, Tupei Chen, Pooi See Lee, "A deformable and highly robust ethyl cellulose transparent conductor with a scalable silver nanowires bundle micromesh", *Advance Material*, 2018, 30, 1802803.
6. **Meng-Fang Lin**, Kaushik Parida, Xing Cheng, Pooi See Lee, "Water energy harvesting: Flexible superamphiphobic film for water energy harvesting", *Adv. Mater. Technol.*, 2017, 2, 1600186.
7. Xialiang Chen, Kaushik Parida, Jiangxin Wang, Jiaqing Xiong, **Meng-Fang Lin**, Jinyou Shao, Pooi See Lee, "A stretchable and transparent nanocomposite nanogenerator for self-powered physiological monitoring", *ACS Appl. Mater. Interface*, 2017, 9, 42200.
8. Guafa Cai, Jiangxin Wang, **Meng-Fang Lin**, Jingwei Chen, Mengqi Cui, Kai Qian, Shaohui Li, Peng Cui, Pooi See Lee, "A semitransparent snake-like tactile and olfactory bionic sensor with reversibly stretchable properties", *NPG Asia Mater.*, 2017, 9, e437.
9. Peng Cui, Kaushik Parida, **Meng-Fang Lin**, Jiaqing Xiong, Guafa Cai, Pooi See Lee, "Transparent, flexible cellulose nanofibril-phosphorene hybrid paper as triboelectric nanogenerator", *Adv. Mater. Interfaces*, 2017, 4, 1700615.
10. Alice Lee-Sie Eh, **Meng-Fang Lin**, Mengqi Cui, Guafa Cai, Pooi See Lee, "A copper-based reversible electrochemical mirror device with switchability between transparent, blue, and mirror states.", *J. Mater. Chem. C*, 2017, 5, 6547-6554.
11. Jiaqing Xiong, **Meng-Fang Lin**, Jiangxin Wang, Sheng Long Gaw, Kaushik Parida, Pooi See Lee, "Wearable all-fabric-based triboelectric generator for water energy harvesting", *Adv. Energy Mater.*, 2017, 1701243.
12. Kai Qian, Roland Yingjie, **Meng-Fang Lin**, Jingwei Chen, Huakai Li, Jinjun Lin, Jiangxin Wang, Cuofa cai, Viet Cuong Nguyen, Edwin Hang Tong Teo, Tupei Chen, Pooi See Lee, "Direct Observation of Indium Conductive Filaments in Transparent Flexible, and Transferable Resistive Switching Memory", *ACS Nano*, 2017, 11, 1712.
13. Xu Gao, **Meng-Fang Lin**, Bao-Hua Mao, Maki Shimizu, Nobuhiko Mitoma, Takio Kizu, Wei Ou-Yang, Toshihide Nabatame, Zhi Liu, Kazuhito Tsukagoshi, "Correlation between active layer thickness and ambient gas stability in IGZO thin-film transistors", *J. Phys. D Appl. Phys.*, 2016, 50, 2.



14. Wenbin Kang, **Meng-Fang Lin**, Jingwei Chen, Pooi See Lee, "Foldable electronic devices: Highly transparent conducting nanopaper for solid state foldable electrochromic devices", *Small*, 2016, 12, 6418.
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15. **Meng-Fang Lin**, Gao Xu, Nobuhiko Mitoma, Takio Kizu, Wei Ou-Yang, Shinya Aikawa, Toshihide Nabatame, and Kazuhito Tsukagoshia "Reduction of the interfacial trap density of indium-oxide thin film transistors by incorporation of hafnium and annealing process", *AIP Advances*, 2015, 5, 017116.
16. Nobuhiko Mitoma, Shinya Aikawa, Wei Ou-Yang, Gao Xu, Takio Kizu, **Meng-Fang Lin**, Akihiko Fujiwara, Toshihide Nabatame, and Kazuhito Tsukagoshia "Dopant selection for control of charge carrier density and mobility in amorphous indium oxide thin-film transistors: comparison between Si-and W-dopants", *Appl. Phys. Lett.*, 2015, 106, 1042106.
17. Jiangxin Wang, Chaoyi Yan, **Meng-Fang Lin**, Kazuhito Tsukagoshia, and Pooi See Lee "Solution-assembled nanowires for high performance flexible and transparent solar-blind photodetectors", *J. Mater. Chem. C*, 2015, 3, 596.
18. Wei Ou-Yang, Nobuhiko Mitoma, Takio Kizu, Gao Xu, **Meng-Fang Lin**, Toshihide Nabatame, and Kazuhito Tsukagoshia "Controllable film densification and interface flatness for high-performance amorphous indium oxide based thin film transistors", *Appl. Phys. Lett.*, 2014, 105, 163503.
19. Gao Xu, Shinya Aikawa, Nobuhiko Mitoma, **Meng-Fang Lin**, Takio Kizu, Toshihide Nabatame, and Kazuhito Tsukagoshia "Self-formed copper oxide contact interlayer for high-performance oxide thin film transistors", *Appl. Phys. Lett.*, 2014, 105, 023503.
20. Takio Kizu, Shinya Aikawa, Nobuhiko Mitoma, Maki Shimizu, Gao Xu, **Meng-Fang Lin**, Toshihide Nabatame, and Kazuhito Tsukagoshia "Low temperature processable amorphous In-W-O thin-film transistors with high mobility and stability", *Appl. Phys. Lett.*, 2014, 104, 152103.
21. Nobuhiko Mitoma, Shinya Aikawa, Xu Gao, Takio Kizu, Maki Shimizu, **Meng-Fang Lin**, Toshihide Nabatame, and Kazuhito Tsukagoshia "Stable amorphous In_2O_3 -based thin-film transistors by incorporating SiO_2 to suppress oxygen vacancies", *Appl. Phys. Lett.*, 2014, 104, 102103.
22. **Meng-Fang Lin**, Vijay Kumar Thakur, and Pooi See Lee "Formation of PVDF-g-HEMA/BaTiO₃ nanocomposites via in situ nanoparticle synthesis for high performance capacitor applications" *J. Mater. Chem. A*, 2013, 1, 14455-14459.

23. Jian Yan, Liping Yang, **Meng-Fang Lin**, Jan Ma, Xuehong Lu, and Pooi See Lee “*Polydopamine spheres as an active template for convenient synthesis of various nanostructures*”, *Small*, 2013, 9(4), 596-603.
24. Xu Wang, Afriyanti Sumboja, **Meng-Fang Lin**, Jian Yan, and Pooi See Lee, “*Enhancing electrochemical reaction sites in Ni_xCo_{1-x} layered double hydroxides on Zn_2SnO_4 nanowire hybrid material for asymmetric supercapacitor device*”, *Nanoscale*, 2012, 4, 7266-7272.
25. Vijay Kumar Thakur, **Meng-Fang Lin**, Eu Jin Tan and Pooi See Lee “*Green aqueous modification of fluoropolymers for energy storage applications*”, *J. Mater. Chem.*, 2012, 22, 5951-5959.
- 
26. Vijay Kumar Thakur, Jian Yan, **Meng-Fang Lin**, Chunyi Zhi, Dmitri Golberg, Yoshio Bando, Raymond Sim and Pooi See Lee “*Novel polymer nanocomposites from bioinspired green aqueous functionalization of BNNTs*”, *Polym. Chem.*, 2012, 3, 962-969.
27. **Meng-Fang Lin**, Vijay Kumar Thakur, Eu Jin Tan, and Pooi See Lee, “*Dopant induced hollow $BaTiO_3$ nanostructures for application in high performance capacitors*”, *J. Mater. Chem.*, 2012, 21(41), 16500-16504.
28. Xu Wang, Xuanding Han, **Meng-Fang Lin**, Nandan Singh, Chee Lip Gan, Jan Ma, Pooi See Lee, “*Nickel Cobalt Oxide-Single Wall Carbon Nanotube Composite Material for Superior Cycling Stability and High Performance Supercapacitor Application*”, *J. Phys. Chem. C*, 2012, 116 (23), pp 12448-12454.
29. **Meng-Fang Lin**, Vijay Kumar Thakur, Eu Jin Tan, and Pooi See Lee, “*Surface-functionalization of $BaTiO_3$ nanoparticles and electrical properties of $BaTiO_3/polyvinylidene fluoride composite$* ”, *RCS Advances*, 2011, 1(4), 576-578.
30. Vijay Kumar Thakur, Eu Jin Tan, **Meng-Fang Lin** and Pooi See Lee “*Polystyrene grafted polyvinylidenefluoride copolymers with high capacitive performance*”, *Polym. Chem.*, 2011, 2(9), 2000-2009.
31. Vijay Kumar Thakur, Eu Jin Tan, **Meng-Fang Lin** and Pooi See Lee “*Poly(vinylidene fluoride)-graft-poly(2-hydroxyethyl methacrylate): a novel material for high energy density capacitors*”, *J. Mater. Chem.*, 2011, 21, 3751-3759.
32. Jingeyueh Jeng, **Meng-Fang Lin**, Fong-Yu Cheng, Chen-sheng Yeh, and Jentaeie shiea, “*Using high-concentration trypsin-immobilized magnetic nanoparticles for rapid in situ protein digestion at elevated temperature*”, *Rapid Commun. Mass Spectrum (RCM)*, 2007, 21, 3060-3068.