

# Hung-Tao Chou

## List of Publications by Year in descending order

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76  
papers

2,654  
citations

293460

24  
h-index

214428

50  
g-index

77  
all docs

77  
docs citations

77  
times ranked

4755  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | High retention supercapacitors using carbon nanomaterials/iron oxide/nickel-iron layered double hydroxides as electrodes. <i>Journal of Energy Storage</i> , 2022, 46, 103805.   | 3.9 | 18        |
| 2  | Binder-free CoMn <sub>2</sub> O <sub>4</sub> /carbon nanotubes composite electrodes for high-performance asymmetric supercapacitor. <i>Journal of Alloys and Compounds</i> , 2022, 897, 163231.                          | 2.8 | 29        |
| 3  | Composition tunable manganese-doped magnetite microwave absorber composites for radio frequency identification communication. <i>Ceramics International</i> , 2022, 48, 15105-15115.                                     | 2.3 | 7         |
| 4  | Human Exhalation CO <sub>2</sub> Sensor Based on the PEI-PEG/ZnO/NUNCD/Si Heterojunction Electrode. <i>ACS Omega</i> , 2022, 7, 15657-15665.   | 1.6 | 2         |
| 5  | Polyethylenimine/Nitrogen-Doped Reduced Graphene Oxide/ZnO Nanorod Layered Composites for Carbon Dioxide Sensing at Room Temperature. <i>ACS Applied Nano Materials</i> , 2022, 5, 6543-6554.                            | 2.4 | 10        |
| 6  | Reduced graphene oxide/Fe <sub>2</sub> O <sub>3</sub> hollow microspheres coated sponges for flexible electromagnetic interference shielding composites. <i>Composites Communications</i> , 2021, 23, 100572.            | 3.3 | 34        |
| 7  | Consequences of gamma-ray irradiation on structural and electronic properties of PEDOT:PSS polymer in air and vacuum environments. <i>RSC Advances</i> , 2021, 11, 20752-20759.  | 1.7 | 6         |
| 8  | Reduced graphene oxide/oyster shell powers/iron oxide composite electrode for high performance supercapacitors. <i>Electrochimica Acta</i> , 2021, 391, 138868.  | 2.6 | 21        |
| 9  | Sulfur Monovacancies in Liquid-Exfoliated MoS <sub>2</sub> Nanosheets for NO <sub>2</sub> Gas Sensing. <i>ACS Applied Nano Materials</i> , 2021, 4, 9459-9470.   | 2.4 | 27        |
| 10 | Nitrogen-Incorporated Boron-Doped Nanocrystalline Diamond Nanowires for Microplasma Illumination. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 55687-55699.   | 4.0 | 9         |
| 11 | Enhancing the Efficiency of a Forward Osmosis Membrane with a Polydopamine/Graphene Oxide Layer Prepared Via the Modified Molecular Layer-by-Layer Method. <i>ACS Omega</i> , 2020, 5, 18738-18745.                      | 1.6 | 15        |
| 12 | Green Treatment of Phosphate from Wastewater Using a Porous Bio-Templated Graphene Oxide/MgMn-Layered Double Hydroxide Composite. <i>IScience</i> , 2020, 23, 101065.  | 1.9 | 21        |
| 13 | Influence of gamma-ray irradiation and post-annealing studies on pentacene films: the anisotropic effects on structural and electronic properties. <i>RSC Advances</i> , 2020, 10, 21092-21099.                          | 1.7 | 9         |
| 14 | Nitrogen-Incorporated Ovoid-Shaped Nanodiamond Films for Dopamine Detection. <i>ACS Applied Nano Materials</i> , 2020, 3, 11970-11978.   | 2.4 | 9         |
| 15 | Gamma Ray Irradiation Enhances the Linkage of Cotton Fabrics Coated with ZnO Nanoparticles. <i>ACS Omega</i> , 2020, 5, 15129-15135.   | 1.6 | 9         |
| 16 | Flexible Supercapacitors Prepared Using the Peanut-Shell-Based Carbon. <i>ACS Omega</i> , 2020, 5, 14417-14426.  | 1.6 | 28        |
| 17 | Biomass-derived three-dimensional carbon framework for a flexible fibrous supercapacitor and its application as a wearable smart textile. <i>RSC Advances</i> , 2020, 10, 6960-6972.                                     | 1.7 | 33        |
| 18 | A Facile Microwave-Assisted Method to Prepare Highly Electrosorptive Reduced Graphene Oxide/Activated Carbon Composite Electrode for Capacitive Deionization. <i>Advanced Materials Technologies</i> , 2019, 4, 1900213. | 3.0 | 14        |

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|----|---|-----|-----------|
| 19 | Layered composites composed of multi-walled carbon nanotubes/manganese dioxide/carbon fiber cloth for microwave absorption in the X-band. RSC Advances, 2019, 9, 19217-19225.   | 1.7 | 25        |
| 20 | Electro-assisted selective uptake/release of phosphate using a graphene oxide/MgMn-layered double hydroxide composite. Journal of Materials Chemistry A, 2019, 7, 3962-3970.  | 5.2 | 31        |
| 21 | Hybrid composite mats composed of amorphous carbon, zinc oxide nanorods and nickel zinc ferrite for tunable electromagnetic interference shielding. Composites Part B: Engineering, 2019, 164, 447-457.   | 5.9 | 42        |
| 22 | Manganese ion implanted ultrananocrystalline diamond films: Optical and electrical characterization. Applied Physics Letters, 2019, 114, .  | 1.5 | 6         |
| 23 | Nanoscale measurement of giant saturation magnetization in $\hat{\text{t}}\hat{\text{a}}\hat{\text{e}}^3\text{-Fe}_{16}\text{N}_2$ by electron energy-loss magnetic chiral dichroism. Ultramicroscopy, 2019, 203, 37-43.  | 0.8 | 9         |
| 24 | Bioinspired networks consisting of spongy carbon wrapped by graphene sheath for flexible transparent supercapacitors. Communications Chemistry, 2019, 2, .  | 2.0 | 20        |
| 25 | Layered hybrid composites using multi-walled carbon nanotube film as reflection layer and multi-walled carbon nanotubes/neodymium magnet/ epoxy as absorption layer perform selective electromagnetic interference shielding. Composites Part B: Engineering, 2019, 161, 617-626. | 5.9 | 31        |
| 26 | Activated carbon sandwiched manganese dioxide/graphene ternary composites for supercapacitor electrodes. Electrochimica Acta, 2018, 266, 284-292.   | 2.6 | 64        |
| 27 | Low Temperature Synthesis of Lithium-Doped Nanocrystalline Diamond Films with Enhanced Field Electron Emission Properties. Nanomaterials, 2018, 8, 653.   | 1.9 | 7         |
| 28 | Superhydrophobic graphene-based sponge as a novel sorbent for crude oil removal under various environmental conditions. Chemosphere, 2018, 207, 110-117.  | 4.2 | 48        |
| 29 | Effect of cation ratio and order on magnetic circular dichroism in the double perovskite $\text{Sr}_2\text{Fe}_1+\text{Re}_1\text{-O}_6$ . Ultramicroscopy, 2018, 193, 137-142.   | 0.8 | 11        |
| 30 | Biomimetic structure of carbon fiber cloth grafted with poly(N-isopropylacrylamide) for water collection and smart gates. RSC Advances, 2017, 7, 45799-45806.   | 1.7 | 10        |
| 31 | Toxicity analysis of poly(sodium-4-styrenesulfonate) coated graphene on HMEC-1 cells under dynamic conditions mimicking blood flow. RSC Advances, 2017, 7, 51910-51918.   | 1.7 | 4         |
| 32 | Hollow Few-Layer Graphene-Based Structures from Parafilm Waste for Flexible Transparent Supercapacitors and Oil Spill Cleanup. ACS Applied Materials & Interfaces, 2017, 9, 40645-40654.  | 4.0 | 32        |
| 33 | Nitrogen Incorporated Ultrananocrystalline Diamond Microstructures From Bias-Enhanced Microwave $\text{N}_{2}/\text{CH}_4$ -Plasma Chemical Vapor Deposition. Plasma Processes and Polymers, 2016, 13, 419-428.   | 1.6 | 15        |
| 34 | High-performance flexible electron field emitters fabricated from doped crystalline Si pillar films on polymer substrates. RSC Advances, 2016, 6, 76325-76335.  | 1.7 | 2         |
| 35 | Three-dimensional porous polyaniline/graphene-coated activated carbon fiber electrodes for supercapacitors. RSC Advances, 2016, 6, 111465-111471.   | 1.7 | 17        |
| 36 | Growth, structural and plasma illumination properties of nanocrystalline diamond-decorated graphene nanoflakes. RSC Advances, 2016, 6, 63178-63184.   | 1.7 | 19        |

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|----|---|-----|-----------|
| 37 | Carbon materials as oil sorbents: a review on the synthesis and performance. Journal of Materials Chemistry A, 2016, 4, 1550-1565.  | 5.2 | 298       |
| 38 | Flexible Solar Cells Using Doped Crystalline Si Film Prepared by Self-Biased Sputtering Solid Doping Source in $\text{SiCl}_4/\text{H}_2$ Microwave Plasma. ACS Applied Materials & Interfaces, 2016, 8, 4624-4632.                       | 4.0 | 3         |
| 39 | Heterogranular-Structured Diamond-Gold Nanohybrids: A New Long-Life Electronic Display Cathode. ACS Applied Materials & Interfaces, 2015, 7, 27078-27086.   | 4.0 | 15        |
| 40 | A high carrier-mobility crystalline silicon film directly grown on polyimide using $\text{SiCl}_4/\text{H}_2$ microwave plasma for flexible thin film transistors. Journal of Materials Chemistry C, 2015, 3, 7513-7522.                  | 2.7 | 13        |
| 41 | High Stability Electron Field Emitters Synthesized via the Combination of Carbon Nanotubes and $\text{N}_2$ -Plasma Grown Ultrananocrystalline Diamond Films. ACS Applied Materials & Interfaces, 2015, 7, 27526-27538.                   | 4.0 | 20        |
| 42 | Catalytically induced nanographitic phase by a platinum-ion implantation/annealing process to improve the field electron emission properties of ultrananocrystalline diamond films. Journal of Materials Chemistry C, 2015, 3, 2632-2641. | 2.7 | 23        |
| 43 | Highly Conductive Diamond-Graphite Nanohybrid Films with Enhanced Electron Field Emission and Microplasma Illumination Properties. ACS Applied Materials & Interfaces, 2015, 7, 14035-14042.  | 4.0 | 13        |
| 44 | Role of Carbon Nanotube Interlayer in Enhancing the Electron Field Emission Behavior of Ultrananocrystalline Diamond Coated Si-Tip Arrays. ACS Applied Materials & Interfaces, 2015, 7, 7732-7740.  | 4.0 | 10        |
| 45 | An ultrasensitive sandwich type electrochemiluminescence immunosensor for triiodothyronine detection using silver nanoparticle-decorated graphene oxide as a nanocarrier. Biosensors and Bioelectronics, 2015, 71, 476-482.               | 5.3 | 17        |
| 46 | High Mobility of Graphene-Based Flexible Transparent Field Effect Transistors Doped with $\text{TiO}_2$ and Nitrogen-Doped $\text{TiO}_2$ . ACS Applied Materials & Interfaces, 2015, 7, 9453-9461.                                       | 4.0 | 30        |
| 47 | One-Step Process for High-Performance, Adhesive, Flexible Transparent Conductive Films Based on p-Type Reduced Graphene Oxides and Silver Nanowires. ACS Applied Materials & Interfaces, 2015, 7, 18553-18559.                            | 4.0 | 45        |
| 48 | Accumulation and toxicity of intravenously injected functionalized graphene oxide in mice. Journal of Applied Toxicology, 2015, 35, 1211-1218.  | 1.4 | 83        |
| 49 | Enhanced electron field emission properties from hybrid nanostructures of graphene/Si tip array. RSC Advances, 2015, 5, 2928-2933.  | 1.7 | 24        |
| 50 | Gold Nanobone/Carbon Nanotube Hybrids for the Efficient Nonenzymatic Detection of $\text{H}_2\text{O}_2$ and Glucose. Electroanalysis, 2014, 26, 1816-1823.   | 1.5 | 11        |
| 51 | An amperometric urea biosensor based on covalent immobilization of urease on $\text{N}_2$ incorporated diamond nanowire electrode. Biosensors and Bioelectronics, 2014, 56, 64-70.  | 5.3 | 39        |
| 52 | Development of long lifetime cathode materials for microplasma application. RSC Advances, 2014, 4, 47865-47875.   | 1.7 | 22        |
| 53 | Enhancing the stability of microplasma device utilizing diamond coated carbon nanotubes as cathode materials. Applied Physics Letters, 2014, 104, .   | 1.5 | 14        |
| 54 | Highly durable anodes of microbial fuel cells using a reduced graphene oxide/carbon nanotube-coated scaffold. Bioresource Technology, 2014, 169, 532-536.   | 4.8 | 59        |

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|----|---|------|-----------|
| 55 | Green reduction of graphene oxide by Hibiscus sabdariffa L. to fabricate flexible graphene electrode. Carbon, 2014, 80, 725-733.  | 5.4  | 93        |
| 56 | Enhanced field emission properties of a reduced graphene oxide/carbon nanotube hybrid film. Diamond and Related Materials, 2014, 47, 1-6.   | 1.8  | 36        |
| 57 | Electron Field Emission Enhancement of Vertically Aligned Ultrananocrystalline Diamond-Coated ZnO Core-Shell Heterostructured Nanorods. , 2014, 10, 179.  |      | 1         |
| 58 | Electromagnetic interference shielding efficiency of polyaniline composites filled with graphene decorated with metallic nanoparticles. Composites Science and Technology, 2013, 80, 80-86.                                     | 3.8  | 185       |
| 59 | Photothermal effects of multi-walled carbon nanotubes on the viability of BT-474 cancer cells. Materials Science and Engineering C, 2013, 33, 989-995.  | 3.8  | 29        |
| 60 | Using an Au interlayer to enhance electron field emission properties of ultrananocrystalline diamond films. Journal of Applied Physics, 2012, 112, 103711.  | 1.1  | 14        |
| 61 | Electrophoresis of Nanodiamond on the Growth of Ultrananocrystalline Diamond Films on Silicon Nanowires and the Enhancement of the Electron Field Emission Properties. Journal of Physical Chemistry C, 2012, 116, 19867-19876. | 1.5  | 29        |
| 62 | Superhydrophobic and superoleophilic properties of graphene-based sponges fabricated using a facile dip coating method. Energy and Environmental Science, 2012, 5, 7908.  | 15.6 | 727       |
| 63 | Field Emission Enhancement in Ion Implanted Ultra-nanocrystalline Diamond Films. Plasma Processes and Polymers, 2009, 6, S834.  | 1.6  | 5         |
| 64 | Gas sensing improvement of carbon nanotubes by NH <sub>4</sub> OH "flash treatment: a nondestructive purification technique. Journal of Materials Chemistry, 2007, 17, 3581.  | 6.7  | 13        |
| 65 | Synthesis of nano-sized polycrystalline PZT powders using molecular building blocks by designed chemical route. Journal of Nanoparticle Research, 2006, 8, 287-292.   | 0.8  | 8         |
| 66 | MICROWAVE PROPERTIES OF BST AND BST/BMT THIN FILMS GROWN ON SAPPHIRE SUBSTRATE BY EVANESCENT MICROWAVE PROBE. Integrated Ferroelectrics, 2005, 77, 45-50.   | 0.3  | 2         |
| 67 | Laser Annealing of Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> Thin Films Using Pulsed Excimer (KrF) Laser. Integrated Ferroelectrics, 2003, 52, 119-126.  | 0.3  | 1         |
| 68 | Ferroelectric Properties of Pb(Zr <sub>1-x</sub> Ti <sub>x</sub> )O <sub>3</sub> Graded Thin Films. Ferroelectrics, 2002, 271, 235-240.   | 0.3  | 2         |
| 69 | Compressive Strength of Composite/Concrete Cylinders after Low Energy Impact. Journal of Reinforced Plastics and Composites, 2001, 20, 849-870.   | 1.6  | 2         |
| 70 | Nanofiber Formation in the Fabrication of Carbon/Silicon Carbide Ceramic Matrix Nanocomposites by Slurry Impregnation and Pulse Chemical Vapor Infiltration. Journal of the American Ceramic Society, 2001, 84, 1683-1688.      | 1.9  | 11        |
| 71 | Compression after impact (CAI) strength of concrete cylinders reinforced by non-adhesive filament wound composites. Polymer Composites, 2000, 21, 268-280.  | 2.3  | 5         |
| 72 | Carbon fiber reinforced phenolic Resin/Silica ceramer composites?processing, mechanical and thermal properties. Polymer Composites, 2000, 21, 305-311.  | 2.3  | 20        |

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|----|---|-----|-----------|
| 73 | Effects of low-energy impact and thermal cycling loadings on fatigue behavior of the quasi-isotropic carbon/epoxy composites. <i>Journal of Polymer Research</i> , 1998, 5, 143-151.    | 1.2 | 3         |
| 74 | Effects of Deposition Mechanisms in the Modeling of Forced-Flow/Temperature-Gradient Chemical Vapor Infiltration. <i>Journal of the American Ceramic Society</i> , 1994, 77, 849-851.   | 1.9 | 8         |
| 75 | Chemical resistance of carbon fiber-reinforced poly(ether ether ketone) and poly(phenylene sulfide) composites. <i>Polymer Composites</i> , 1992, 13, 435-440.                          | 2.3 | 12        |
| 76 | Effect of physical aging on the toughness of carbon fiber-reinforced poly(ether ether ketone) and poly(phenylene sulfide) composites. I. <i>Polymer Composites</i> , 1992, 13, 441-447. | 2.3 | 15        |