Hung-Tao Chou

List of Publications by Year
in descending order

76 papers	2,654 citations	257450 24 h-index	189892 50 g-index
77 all docs	77 docs citations	77 times ranked	4194 citing authors

#	Article	IF	Citations
1	Superhydrophobic and superoleophilic properties of graphene-based sponges fabricated using a facile dip coating method. Energy and Environmental Science, 2012, 5, 7908.	30.8	727
2	Carbon materials as oil sorbents: a review on the synthesis and performance. Journal of Materials Chemistry A, 2016, 4, 1550-1565.	10.3	298
3	Electromagnetic interference shielding efficiency of polyaniline composites filled with graphene decorated with metallic nanoparticles. Composites Science and Technology, 2013, 80, 80-86.	7.8	185
4	Green reduction of graphene oxide by Hibiscus sabdariffa L. to fabricate flexible graphene electrode. Carbon, 2014, 80, 725-733.	10.3	93
5	Accumulation and toxicity of intravenouslyâ€injected functionalized graphene oxide in mice. Journal of Applied Toxicology, 2015, 35, 1211-1218.	2.8	83
6	Activated carbon sandwiched manganese dioxide/graphene ternary composites for supercapacitor electrodes. Electrochimica Acta, 2018, 266, 284-292.	5.2	64
7	Highly durable anodes of microbial fuel cells using a reduced graphene oxide/carbon nanotube-coated scaffold. Bioresource Technology, 2014, 169, 532-536.	9.6	59
8	Superhydrophobic graphene-based sponge as a novel sorbent for crude oil removal under various environmental conditions. Chemosphere, 2018, 207, 110-117.	8.2	48
9	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.	8.0	45
10	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.	12.0	42
11	An amperometric urea bisosensor based on covalent immobilization of urease on N2 incorporated diamond nanowire electrode. Biosensors and Bioelectronics, 2014, 56, 64-70.	10.1	39
12	Enhanced field emission properties of a reduced graphene oxide/carbon nanotube hybrid film. Diamond and Related Materials, 2014, 47, 1-6.	3.9	36
13	Reduced graphene oxide/Fe2O3 hollow microspheres coated sponges for flexible electromagnetic interference shielding composites. Composites Communications, 2021, 23, 100572.	6.3	34
14	Biomass-derived three-dimensional carbon framework for a flexible fibrous supercapacitor and its application as a wearable smart textile. RSC Advances, 2020, 10, 6960-6972.	3.6	33
15	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.	8.0	32
16	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.	10.3	31
17	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.	12.0	31
18	High Mobility of Graphene-Based Flexible Transparent Field Effect Transistors Doped with TiO₂ and Nitrogen-Doped TiO₂. ACS Applied Materials & Interfaces, 2015, 7, 9453-9461.	8.0	30

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19	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.	3.1	29
20	Photothermal effects of multi-walled carbon nanotubes on the viability of BT-474 cancer cells. Materials Science and Engineering C, 2013, 33, 989-995.	7.3	29
21	Binder-free CoMn2O4/carbon nanotubes composite electrodes for high-performance asymmetric supercapacitor. Journal of Alloys and Compounds, 2022, 897, 163231.	5.5	29
22	Flexible Supercapacitors Prepared Using the Peanut-Shell-Based Carbon. ACS Omega, 2020, 5, 14417-14426.	3.5	28
23	Sulfur Monovacancies in Liquid-Exfoliated MoS₂ Nanosheets for NO₂ Gas Sensing. ACS Applied Nano Materials, 2021, 4, 9459-9470.	5.0	27
24	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.	3.6	25
25	Enhanced electron field emission properties from hybrid nanostructures of graphene/Si tip array. RSC Advances, 2015, 5, 2928-2933.	3.6	24
26	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.	5.5	23
27	Development of long lifetime cathode materials for microplasma application. RSC Advances, 2014, 4, 47865-47875.	3.6	22
28	Green Treatment of Phosphate from Wastewater Using a Porous Bio-Templated Graphene Oxide/MgMn-Layered Double Hydroxide Composite. IScience, 2020, 23, 101065.	4.1	21
29	Reduced graphene oxide/oyster shell powers/iron oxide composite electrode for high performance supercapacitors. Electrochimica Acta, 2021, 391, 138868.	5.2	21
30	Carbon fiber reinforced phenolic Resin/Silica ceramer composites?processing, mechanical and thermal properties. Polymer Composites, 2000, 21, 305-311.	4.6	20
31	High Stability Electron Field Emitters Synthesized via the Combination of Carbon Nanotubes and N₂-Plasma Grown Ultrananocrystalline Diamond Films. ACS Applied Materials & Interfaces, 2015, 7, 27526-27538.	8.0	20
32	Bioinspired networks consisting of spongy carbon wrapped by graphene sheath for flexible transparent supercapacitors. Communications Chemistry, 2019, 2, .	4.5	20
33	Growth, structural and plasma illumination properties of nanocrystalline diamond-decorated graphene nanoflakes. RSC Advances, 2016, 6, 63178-63184.	3.6	19
34	High retention supercapacitors using carbon nanomaterials/iron oxide/nickel-iron layered double hydroxides as electrodes. Journal of Energy Storage, 2022, 46, 103805.	8.1	18
35	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.	10.1	17
36	Three-dimensional porous polyaniline/graphene-coated activated carbon fiber electrodes for supercapacitors. RSC Advances, 2016, 6, 111465-111471.	3.6	17

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37	Effect of physical aging on the toughness of carbon fiber-reinforced poly(ether ether ketone) and poly(phenylene sulfide) composites. I. Polymer Composites, 1992, 13, 441-447.	4.6	15
38	Heterogranular-Structured Diamondâ€“Gold Nanohybrids: A New Long-Life Electronic Display Cathode. ACS Applied Materials & Interfaces, 2015, 7, 27078-27086.	8.0	15
39	Nitrogen Incorporated Ultrananocrystalline Diamond Microstructures From Biasâ€Enhanced Microwave N₂/CH₄â€Plasma Chemical Vapor Deposition. Plasma Processes and Polymers, 2016, 13, 419-428.	3.0	15
40	Enhancing the Efficiency of a Forward Osmosis Membrane with a Polydopamine/Graphene Oxide Layer Prepared Via the Modified Molecular Layer-by-Layer Method. ACS Omega, 2020, 5, 18738-18745.	3.5	15
41	Using an Au interlayer to enhance electron field emission properties of ultrananocrystalline diamond films. Journal of Applied Physics, 2012, 112, 103711.	2.5	14
42	Enhancing the stability of microplasma device utilizing diamond coated carbon nanotubes as cathode materials. Applied Physics Letters, 2014, 104, .	3.3	14
43	A Facile Microwaveâ€Assisted Method to Prepare Highly Electrosorptive Reduced Graphene Oxide/Activated Carbon Composite Electrode for Capacitive Deionization. Advanced Materials Technologies, 2019, 4, 1900213.	5.8	14
44	Gas sensing improvement of carbon nanotubes by NH4OHâ€“flash treatment: a nondestructive purification technique. Journal of Materials Chemistry, 2007, 17, 3581.	6.7	13
45	A high carrier-mobility crystalline silicon film directly grown on polyimide using SiCl₄/H₂ microwave plasma for flexible thin film transistors. Journal of Materials Chemistry C, 2015, 3, 7513-7522.	5.5	13
46	Highly Conductive Diamondâ€“Graphite Nanohybrid Films with Enhanced Electron Field Emission and Microplasma Illumination Properties. ACS Applied Materials & Interfaces, 2015, 7, 14035-14042.	8.0	13
47	Chemical resistance of carbon fiber-reinforced poly(ether ether ketone) and poly(phenylene sulfide) composites. Polymer Composites, 1992, 13, 435-440.	4.6	12
48	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.	3.8	11
49	Gold Nanobone/Carbon Nanotube Hybrids for the Efficient Nonenzymatic Detection of H₂O₂ and Glucose. Electroanalysis, 2014, 26, 1816-1823.	2.9	11
50	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite Sr2Fe1+Re1-O6. Ultramicroscopy, 2018, 193, 137-142.	1.9	11
51	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.	8.0	10
52	Biomimetic structure of carbon fiber cloth grafted with poly(N-isopropylacrylamide) for water collection and smart gates. RSC Advances, 2017, 7, 45799-45806.	3.6	10
53	Polyethylenimine/Nitrogen-Doped Reduced Graphene Oxide/ZnO Nanorod Layered Composites for Carbon Dioxide Sensing at Room Temperature. ACS Applied Nano Materials, 2022, 5, 6543-6554.	5.0	10
54	Nanoscale measurement of giant saturation magnetization in Î±â€³-Fe16N2 by electron energy-loss magnetic chiral dichroism. Ultramicroscopy, 2019, 203, 37-43.	1.9	9

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55	Influence of gamma-ray irradiation and post-annealing studies on pentacene films: the anisotropic effects on structural and electronic properties. RSC Advances, 2020, 10, 21092-21099.	3.6	9
56	Nitrogen-Incorporated Ovoid-Shaped Nanodiamond Films for Dopamine Detection. ACS Applied Nano Materials, 2020, 3, 11970-11978.	5.0	9
57	Gamma Ray Irradiation Enhances the Linkage of Cotton Fabrics Coated with ZnO Nanoparticles. ACS Omega, 2020, 5, 15129-15135.	3.5	9
58	Nitrogen-Incorporated Boron-Doped Nanocrystalline Diamond Nanowires for Microplasma Illumination. ACS Applied Materials & Interfaces, 2021, 13, 55687-55699.	8.0	9
59	Effects of Deposition Mechanisms in the Modeling of Forced-Flow/Temperature-Gradient Chemical Vapor Infiltration. Journal of the American Ceramic Society, 1994, 77, 849-851.	3.8	8
60	Synthesis of nano-sized polycrystalline PZT powders using molecular building blocks by designed chemical route. Journal of Nanoparticle Research, 2006, 8, 287-292.	1.9	8
61	Low Temperature Synthesis of Lithium-Doped Nanocrystalline Diamond Films with Enhanced Field Electron Emission Properties. Nanomaterials, 2018, 8, 653.	4.1	7
62	Composition tunable manganese-doped magnetite microwave absorber composites for radio frequency identification communication. Ceramics International, 2022, 48, 15105-15115.	4.8	7
63	Manganese ion implanted ultrananocrystalline diamond films: Optical and electrical characterization. Applied Physics Letters, 2019, 114, .	3.3	6
64	Consequences of gamma-ray irradiation on structural and electronic properties of PEDOT:PSS polymer in air and vacuum environments. RSC Advances, 2021, 11, 20752-20759.	3.6	6
65	Compression after impact (CAI) strength of concrete cylinders reinforced by non-adhesive filament wound composites. Polymer Composites, 2000, 21, 268-280.	4.6	5
66	Field Emission Enhancement in Ion Implanted Ultraâ€nanocrystalline Diamond Films. Plasma Processes and Polymers, 2009, 6, S834.	3.0	5
67	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.	3.6	4
68	Effects of low-energy impact and thermal cycling loadings on fatigue behavior of the quasi-isotropic carbon/epoxy composites. Journal of Polymer Research, 1998, 5, 143-151.	2.4	3
69	Flexible Solar Cells Using Doped Crystalline Si Film Prepared by Self-Biased Sputtering Solid Doping Source in SiCl₄/H₂ Microwave Plasma. ACS Applied Materials & Interfaces, 2016, 8, 4624-4632.	8.0	3
70	Compressive Strength of Composite/Concrete Cylinders after Low Energy Impact. Journal of Reinforced Plastics and Composites, 2001, 20, 849-870.	3.1	2
71	Ferroelectric Properties of Pb(Zr 1â^'x Ti x)O 3 Graded Thin Films. Ferroelectrics, 2002, 271, 235-240.	0.6	2
72	MICROWAVE PROPERTIES OF BST AND BST/BMT THIN FILMS GROWN ON SAPPHIRE SUBSTRATE BY EVANESCENT MICROWAVE PROBE. Integrated Ferroelectrics, 2005, 77, 45-50.	0.7	2

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73	High-performance flexible electron field emitters fabricated from doped crystalline Si pillar films on polymer substrates. RSC Advances, 2016, 6, 76325-76335.	3.6	2
74	Human Exhalation CO₂ Sensor Based on the PEI-PEG/ZnO/NUNCD/Si Heterojunction Electrode. ACS Omega, 2022, 7, 15657-15665.	3.5	2
75	Laser Annealing of Pb(Zr0.52Ti0.48)O3 Thin Films Using Pulsed Excimer (KrF) Laser. Integrated Ferroelectrics, 2003, 52, 119-126.	0.7	1
76	Electron Field Emission Enhancement of Vertically Aligned Ultrananocrystalline Diamond-Coated ZnO Coreâ€“Shell Heterostructured Nanorods. , 2014, 10, 179.		1