

Po-Chun Hsu

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

20,224
citations

41258

49
h-index

106150

65
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all docs

67
docs citations

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times ranked

22766
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulphurâ€“TiO ₂ yolkâ€“shell nanoarchitecture with internal void space for long-cycle lithiumâ€“sulphur batteries. Nature Communications, 2013, 4, 1331.	5.8	1,884
2	Selective deposition and stable encapsulation of lithium through heterogeneous seeded growth. Nature Energy, 2016, 1, .	19.8	1,516
3	Bifunctional non-noble metal oxide nanoparticle electrocatalysts through lithium-induced conversion for overall water splitting. Nature Communications, 2015, 6, 7261.	5.8	1,006
4	Electrochemical tuning of vertically aligned MoS ₂ nanofilms and its application in improving hydrogen evolution reaction. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19701-19706.	3.3	894
5	A transparent electrode based on a metal nanotrough network. Nature Nanotechnology, 2013, 8, 421-425.	15.6	851
6	High Ionic Conductivity of Composite Solid Polymer Electrolyte via In Situ Synthesis of Monodispersed SiO ₂ Nanospheres in Poly(ethylene oxide). Nano Letters, 2016, 16, 459-465.	4.5	791
7	Ionic Conductivity Enhancement of Polymer Electrolytes with Ceramic Nanowire Fillers. Nano Letters, 2015, 15, 2740-2745.	4.5	782
8	Radiative human body cooling by nanoporous polyethylene textile. Science, 2016, 353, 1019-1023.	6.0	764
9	Transparent air filter for high-efficiency PM _{2.5} capture. Nature Communications, 2015, 6, 6205.	5.8	690
10	Rapid water disinfection using vertically aligned MoS ₂ nanofilms and visible light. Nature Nanotechnology, 2016, 11, 1098-1104.	15.6	681
11	Two-dimensional layered transition metal disulphides for effective encapsulation of high-capacity lithium sulphide cathodes. Nature Communications, 2014, 5, 5017.	5.8	530
12	Polymer Nanofiber-Guided Uniform Lithium Deposition for Battery Electrodes. Nano Letters, 2015, 15, 2910-2916.	4.5	495
13	Lithium Metal Anodes with an Adaptive â€œSolid-Liquidâ€ Interfacial Protective Layer. Journal of the American Chemical Society, 2017, 139, 4815-4820.	6.6	460
14	Nanofiber Air Filters with High-Temperature Stability for Efficient PM _{2.5} Removal from the Pollution Sources. Nano Letters, 2016, 16, 3642-3649.	4.5	456
15	Personal Thermal Management by Metallic Nanowire-Coated Textile. Nano Letters, 2015, 15, 365-371.	4.5	415
16	Electrochemical tuning of layered lithium transition metal oxides for improvement of oxygen evolution reaction. Nature Communications, 2014, 5, 4345.	5.8	411
17	Roll-to-Roll Encapsulation of Metal Nanowires between Graphene and Plastic Substrate for High-Performance Flexible Transparent Electrodes. Nano Letters, 2015, 15, 4206-4213.	4.5	410
18	A dual-mode textile for human body radiative heating and cooling. Science Advances, 2017, 3, e1700895.	4.7	399

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19	A high tap density secondary silicon particle anode fabricated by scalable mechanical pressing for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 2371-2376.	15.6	397
20	A half-wave rectified alternating current electrochemical method for uranium extraction from seawater. <i>Nature Energy</i> , 2017, 2, .	19.8	388
21	Air-stable and freestanding lithium alloy/graphene foil as an alternative to lithium metal anodes. <i>Nature Nanotechnology</i> , 2017, 12, 993-999.	15.6	376
22	Nanoporous polyethylene microfibrils for large-scale radiative cooling fabric. <i>Nature Sustainability</i> , 2018, 1, 105-112.	11.5	370
23	Improving lithium-sulphur batteries through spatial control of sulphur species deposition on a hybrid electrode surface. <i>Nature Communications</i> , 2014, 5, 3943.	5.8	369
24	Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. <i>Advanced Materials</i> , 2018, 30, e1802152.	11.1	362
25	Efficient solar-driven water splitting by nanocone BiVO ₄ -perovskite tandem cells. <i>Science Advances</i> , 2016, 2, e1501764.	4.7	351
26	Roll-to-Roll Transfer of Electrospun Nanofiber Film for High-Efficiency Transparent Air Filter. <i>Nano Letters</i> , 2016, 16, 1270-1275.	4.5	289
27	Warming up human body by nanoporous metallized polyethylene textile. <i>Nature Communications</i> , 2017, 8, 496.	5.8	280
28	Performance enhancement of metal nanowire transparent conducting electrodes by mesoscale metal wires. <i>Nature Communications</i> , 2013, 4, 2522.	5.8	279
29	Facile synthesis of Li ₂ S-polypyrrole composite structures for high-performance Li ₂ S cathodes. <i>Energy and Environmental Science</i> , 2014, 7, 672.	15.6	277
30	High Electrochemical Selectivity of Edge versus Terrace Sites in Two-Dimensional Layered MoS ₂ Materials. <i>Nano Letters</i> , 2014, 14, 7138-7144.	4.5	269
31	Fast and reversible thermoresponsive polymer switching materials for safer batteries. <i>Nature Energy</i> , 2016, 1, .	19.8	253
32	Thermal Management in Nanofiber-Based Face Mask. <i>Nano Letters</i> , 2017, 17, 3506-3510.	4.5	228
33	Electrolessly Deposited Electrospun Metal Nanowire Transparent Electrodes. <i>Journal of the American Chemical Society</i> , 2014, 136, 10593-10596.	6.6	189
34	Integration of daytime radiative cooling and solar heating for year-round energy saving in buildings. <i>Nature Communications</i> , 2020, 11, 6101.	5.8	188
35	Direct/Alternating Current Electrochemical Method for Removing and Recovering Heavy Metal from Water Using Graphene Oxide Electrode. <i>ACS Nano</i> , 2019, 13, 6431-6437.	7.3	181
36	Passivation Coating on Electrospun Copper Nanofibers for Stable Transparent Electrodes. <i>ACS Nano</i> , 2012, 6, 5150-5156.	7.3	176

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37	Electrochemical tuning of olivine-type lithium transition-metal phosphates as efficient water oxidation catalysts. <i>Energy and Environmental Science</i> , 2015, 8, 1719-1724.	15.6	167
38	Remediation of heavy metal contaminated soil by asymmetrical alternating current electrochemistry. <i>Nature Communications</i> , 2019, 10, 2440.	5.8	156
39	Lithium Extraction from Seawater through Pulsed Electrochemical Intercalation. <i>Joule</i> , 2020, 4, 1459-1469.	11.7	152
40	Engineering the surface of LiCoO ₂ electrodes using atomic layer deposition for stable high-voltage lithium ion batteries. <i>Nano Research</i> , 2017, 10, 3754-3764.	5.8	78
41	Core-Shell Nanofibrous Materials with High Particulate Matter Removal Efficiencies and Thermally Triggered Flame Retardant Properties. <i>ACS Central Science</i> , 2018, 4, 894-898.	5.3	73
42	Photon-engineered radiative cooling textiles. <i>Science</i> , 2020, 370, 784-785.	6.0	68
43	Microbial battery for efficient energy recovery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15925-15930.	3.3	67
44	In Situ Investigation on the Nanoscale Capture and Evolution of Aerosols on Nanofibers. <i>Nano Letters</i> , 2018, 18, 1130-1138.	4.5	65
45	In-situ grown hollow Fe ₃ O ₄ onto graphene foam nanocomposites with high EMI shielding effectiveness and thermal conductivity. <i>Composites Science and Technology</i> , 2020, 188, 107975.	3.8	64
46	Use of low cost and easily regenerated Prussian Blue cathodes for efficient electrical energy recovery in a microbial battery. <i>Energy and Environmental Science</i> , 2015, 8, 546-551.	15.6	63
47	Metalized polyamide heterostructure as a moisture-responsive actuator for multimodal adaptive personal heat management. <i>Science Advances</i> , 2021, 7, eabj7906.	4.7	59
48	Ultra-Wideband Transparent Conductive Electrode for Electrochromic Synergistic Solar and Radiative Heat Management. <i>ACS Energy Letters</i> , 2021, 6, 3906-3915.	8.8	56
49	Morphology and property investigation of primary particulate matter particles from different sources. <i>Nano Research</i> , 2018, 11, 3182-3192.	5.8	54
50	Multispectral Thermal Management Designs for Net-Zero Energy Buildings. , 2020, 2, 1624-1643.		50
51	Controlled Growth of ZnO Nanopagoda Arrays with Varied Lamination and Apex Angles. <i>Crystal Growth and Design</i> , 2009, 9, 3161-3167.	1.4	49
52	Low-temperature fabrication of superconducting FeSe thin films by pulsed laser deposition. <i>Thin Solid Films</i> , 2010, 519, 1540-1545.	0.8	43
53	Theophylline-citric acid co-crystals easily induced by DSC-FTIR microspectroscopy or different storage conditions. <i>Asian Journal of Pharmaceutical Sciences</i> , 2013, 8, 19-27.	4.3	39
54	A Triple-Mode Midinfrared Modulator for Radiative Heat Management of Objects with Various Emissivity. <i>Nano Letters</i> , 2021, 21, 4106-4114.	4.5	36

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55	Pulsed laser deposition of $(\text{MoO}_3)_{1-x}(\text{V}_2\text{O}_5)_x$ thin films: Preparation, characterization and gasochromic studies. <i>Thin Solid Films</i> , 2010, 519, 1552-1557.	0.8	32
56	A portable fiber-optic Raman analyzer for fast real-time screening and identifying cocrystal formation of drug-coformer via grinding process. <i>Microchemical Journal</i> , 2013, 110, 15-20.	2.3	31
57	Bifacial solar cell with SnS absorber by vapor transport deposition. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	30
58	Design and Utilization of Infrared Light for Interfacial Solar Water Purification. <i>ACS Energy Letters</i> , 2021, 6, 2645-2657.	8.8	29
59	Solid-state thermal behavior and stability studies of theophylline-citric acid cocrystals prepared by neat cogrinding or thermal treatment. <i>Journal of Solid State Chemistry</i> , 2012, 192, 238-245.	1.4	26
60	Large-Scale Production of Graphene Nanoribbons from Electrospun Polymers. <i>Journal of the American Chemical Society</i> , 2014, 136, 17284-17291.	6.6	26
61	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
62	Bio-Inspired Computational Design of Vascularized Electrodes for High-Performance Fast-Charging Batteries Optimized by Deep Learning. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	9
63	A Biomimetic Electrospun Membrane Supports the Differentiation and Maturation of Kidney Epithelium from Human Stem Cells. <i>Bioengineering</i> , 2022, 9, 188.	1.6	9
64	Effect of Chemical Structure on Polymer-Templated Growth of Graphitic Nanoribbons. <i>ACS Nano</i> , 2015, 9, 9043-9049.	7.3	6
65	Compound-induced changes in thermal, structural and optical properties of indium-gallium-zinc oxides prepared by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 71, 260-266.	1.1	5
66	Raman and X-ray diffraction studies of superconducting FeSe under pressure. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S502-S503.	0.6	4
67	A Triple-Mode Mid-infrared Modulator for All-Surface Radiative Thermal Management. , 2021, , .		0