Shu-Fen Hu

List of Publications by Year
in descending order

64 papers	2,966 citations	147566 31 h-index	161609 54 g-index
64 all docs	64 docs citations	64 times ranked	3415 citing authors

#	Article	IF	Citations
1	Revealing the absence of carbon in aprotic Liâ€“CO₂ batteries: a mechanism study toward CO₂ reduction under a pure CO₂ environment. Journal of Materials Chemistry A, 2022, 10, 3460-3468.	5.2	12
2	Molybdenum Disulfide/Tin Disulfide Ultrathin Nanosheets as Cathodes for Sodiumâ€“Carbon Dioxide Batteries. ACS Applied Materials & Interfaces, 2022, 14, 5834-5842.	4.0	10
3	Halideâ€type Liâ€ion conductors: Future options for highâ€voltage allâ€solidâ€state batteries. Journal of the Chinese Chemical Society, 2022, 69, 1233-1241.	0.8	2
4	Na@C composite anode for a stable Na|NZSP interface in solid-state Naâ€“CO2 battery. Journal of Alloys and Compounds, 2022, 922, 166123.	2.8	3
5	Enticing applications of <scp>nearâ€infrared</scp> phosphors: Review and future perspectives. Journal of the Chinese Chemical Society, 2021, 68, 206-215.	0.8	24
6	Capturing carbon dioxide in Naâ€“<scp>CO₂</scp> batteries: A route for green energy. Journal of the Chinese Chemical Society, 2021, 68, 421-428.	0.8	10
7	Comprehensive view on recent developments in hydrogen evolution using MoS₂ on a Si photocathode: from electronic to electrochemical aspects. Journal of Materials Chemistry A, 2021, 9, 3767-3785.	5.2	14
8	Interfacial chemistry in anode-free batteries: challenges and strategies. Journal of Materials Chemistry A, 2021, 9, 7396-7406.	5.2	65
9	High-Performance NaK₂Li[Li₃SiO₄]₄:Eu Green Phosphor for Backlighting Light-Emitting Diodes. Chemistry of Materials, 2021, 33, 1893-1899.	3.2	31
10	In Situ/Operando Methods of Characterizing All-Solid-State Li-Ion Batteries: Understanding Li-Ion Transport during Cycle. Journal of Physical Chemistry C, 2021, 125, 16921-16937.	1.5	9
11	Naâ€“CO2 battery with NASICON-structured solid-state electrolyte. Nano Energy, 2021, 85, 105972.	8.2	29
12	Effective Ru/CNT Cathode for Rechargeable Solid-State Liâ€“CO₂ Batteries. ACS Applied Materials & Interfaces, 2021, 13, 44266-44273.	4.0	24
13	Comparative Study of Liâ€“CO₂ and Naâ€“CO₂ Batteries with Ru@CNT as a Cathode Catalyst. ACS Applied Materials & Interfaces, 2021, 13, 480-490.	4.0	35
14	Extensively Reducing Interfacial Resistance by the Ultrathin Pt Layer between the Garnet-Type Solid-State Electrolyte and Liâ€“Metal Anode. ACS Applied Materials & Interfaces, 2021, 13, 56181-56190.	4.0	13
15	Phosphorous-doped molybdenum disulfide anchored on silicon as an efficient catalyst for photoelectrochemical hydrogen generation. Applied Catalysis B: Environmental, 2020, 263, 118259.	10.8	40
16	Cuboid-Size-Controlled Color-Tunable Eu-Doped Alkaliâ€“Lithosilicate Phosphors. Chemistry of Materials, 2020, 32, 1748-1759.	3.2	56
17	[INVITED] Near-infrared phosphors and their full potential: A review on practical applications and future perspectives. Journal of Luminescence, 2020, 219, 116944.	1.5	105
18	Interface Between Solid-State Electrolytes and Li-Metal Anodes: Issues, Materials, and Processing Routes. ACS Applied Materials & Interfaces, 2020, 12, 47181-47196.	4.0	62

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19	Multi-Site Cation Control of Ultra-Broadband Near-Infrared Phosphors for Application in Light-Emitting Diodes. Inorganic Chemistry, 2020, 59, 15101-15110.	1.9	42
20	High-performance Naâ€“CO₂ batteries with ZnCo₂O₄@CNT as the cathode catalyst. Journal of Materials Chemistry A, 2020, 8, 23974-23982.	5.2	25
21	Molybdenum Tungsten Disulfide with a Large Number of Sulfur Vacancies and Electronic Unoccupied States on Silicon Micropillars for Solar Hydrogen Evolution. ACS Applied Materials & Interfaces, 2020, 12, 54671-54682.	4.0	23
22	Ultra-high-efficiency near-infrared Ga₂O₃:Cr³⁺ phosphor and controlling of phytochrome. Journal of Materials Chemistry C, 2020, 8, 11013-11017.	2.7	111
23	Matchmaker of Marriage between a Li Metal Anode and NASICON-Structured Solid-State Electrolyte: Plastic Crystal Electrolyte and Three-Dimensional Host Structure. ACS Applied Materials & Interfaces, 2020, 12, 44754-44761.	4.0	22
24	Improvement of lithium anode deterioration for ameliorating cyclabilities of non-aqueous Liâ€“CO₂ batteries. Nanoscale, 2020, 12, 8385-8396.	2.8	29
25	Spinel Zinc Cobalt Oxide (ZnCo₂O₄) Porous Nanorods as a Cathode Material for Highly Durable Liâ€“CO₂ Batteries. ACS Applied Materials & Interfaces, 2020, 12, 17353-17363.	4.0	37
26	Curtailing the Overpotential of Liâ€“CO 2 Batteries with Shapeâ€Controlled Cu 2 O as Cathode: Effect of Illuminating the Cathode. ChemSusChem, 2020, 13, 2719-2725.	3.6	24
27	Thermally Stable and Deep Red Luminescence of Sr_{1â€“x}Ba_x[Mg₂Al₂N₄]:Eu²⁺ (x = 0â€“1) Phosphors for Solid State and Agricultural Lighting Applications. ACS Applied Materials & Interfaces, 2020, 12, 23165-23171.	4.0	42
28	Current status of women in physics: A report from the Physical Society located in Taipei. AIP Conference Proceedings, 2019, , .	0.3	0
29	Ultra-Broadband Phosphors Converted Near-Infrared Light Emitting Diode with Efficient Radiant Power for Spectroscopy Applications. ACS Photonics, 2019, 6, 3215-3224.	3.2	64
30	An efficient multi-doping strategy to enhance Li-ion conductivity in the garnet-type solid electrolyte Li₇La₃Zr₂O₁₂. Journal of Materials Chemistry A, 2019, 7, 8589-8601.	5.2	124
31	Optimizing the Lithium Phosphorus Oxynitride Protective Layer Thickness on Lowâ€Grade Composite Siâ€Based Anodes for Lithiumâ€Ion Batteries. ChemistrySelect, 2018, 3, 729-735.	0.7	7
32	Highly Efficient Photoelectrochemical Hydrogen Generation Reaction Using Tungsten Phosphosulfide Nanosheets. ACS Applied Materials & Interfaces, 2018, 10, 17280-17286.	4.0	19
33	Ameliorating Interfacial Ionic Transportation in All-Solid-State Li-Ion Batteries with Interlayer Modifications. ACS Energy Letters, 2018, 3, 2775-2795.	8.8	66
34	Vertically-aligned graphene nanowalls grown via plasma-enhanced chemical vapor deposition as a binder-free cathode in Liâ€“O₂ batteries. Nanotechnology, 2018, 29, 505401.	1.3	8
35	Super Broadband Near-Infrared Phosphors with High Radiant Flux as Future Light Sources for Spectroscopy Applications. ACS Energy Letters, 2018, 3, 2679-2684.	8.8	286
36	Amorphous Phosphorus-Doped Cobalt Sulfide Modified on Silicon Pyramids for Efficient Solar Water Reduction. ACS Applied Materials & Interfaces, 2018, 10, 37142-37149.	4.0	27

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37	All-Solid-State Li-Ion Battery Using Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ As Electrolyte Without Polymer Interfacial Adhesion. Journal of Physical Chemistry C, 2018, 122, 14383-14389.	1.5	50
38	CdSe/ZnS QD@CNT nanocomposite photocathode for improvement on charge overpotential in photoelectrochemical Li-O2 batteries. Chemical Engineering Journal, 2018, 349, 235-240.	6.6	38
39	A heteroelectrode structure for solar water splitting: integrated cobalt ditelluride across a TiO₂-passivated silicon microwire array. Catalysis Science and Technology, 2017, 7, 1488-1496.	2.1	24
40	Silicon microwire arrays decorated with amorphous heterometal-doped molybdenum sulfide for water photoelectrolysis. Nano Energy, 2017, 32, 422-432.	8.2	58
41	CoSe₂ Embedded in C₃N₄: An Efficient Photocathode for Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2016, 8, 26690-26696.	4.0	48
42	The substitution of the platinum counter electrode in a plasmonic photoelectrochemical system with near-infrared absorption for solar water splitting. RSC Advances, 2016, 6, 103160-103168.	1.7	5
43	Wide Range pH-Tolerable Silicon@Pyrite Cobalt Dichalcogenide Microwire Array Photoelectrodes for Solar Hydrogen Evolution. ACS Applied Materials & Interfaces, 2016, 8, 5400-5407.	4.0	22
44	Current developments for Taiwanese women in physics. AIP Conference Proceedings, 2015, , .	0.3	0
45	High specific capacity retention of graphene/silicon nanosized sandwich structure fabricated by continuous electron beam evaporation as anode for lithium-ion batteries. Electrochimica Acta, 2015, 165, 166-172.	2.6	34
46	A low-temperature co-precipitation approach to synthesize fluoride phosphors K₂MF₆:Mn⁴⁺(M = Ge, Si) for white LED applications. Journal of Materials Chemistry C, 2015, 3, 1655-1660.	2.7	182
47	A rare earth-free GaZnON phosphor prepared by combustion for white light-emitting diodes. Journal of Materials Chemistry C, 2015, 3, 1473-1479.	2.7	12
48	Heterostructure of Si and CoSe₂: A Promising Photocathode Based on a Nonâ€noble Metal Catalyst for Photoelectrochemical Hydrogen Evolution. Angewandte Chemie - International Edition, 2015, 54, 6211-6216.	7.2	134
49	An integrated cobalt disulfide (CoS₂) co-catalyst passivation layer on silicon microwires for photoelectrochemical hydrogen evolution. Journal of Materials Chemistry A, 2015, 3, 23466-23476.	5.2	68
50	Agâ€“Si artificial microflowers for plasmon-enhanced solar water splitting. Chemical Communications, 2015, 51, 549-552.	2.2	33
51	Efficient energy storage capabilities promoted by hierarchical MnCo2O4 nanowire-based architectures. RSC Advances, 2014, 4, 17230.	1.7	60
52	Chitosan-Modified Stable Colloidal Gold Nanostars for the Photothermolysis of Cancer Cells. Journal of Physical Chemistry C, 2013, 117, 2396-2410.	1.5	36
53	Flower-like ZnCo2O4 nanowires: toward a high-performance anode material for Li-ion batteries. RSC Advances, 2013, 3, 20143.	1.7	82
54	Cd-ZnGeON solid solution: the effect of local electronic environment on the photocatalytic water cleavage ability. Journal of Materials Chemistry A, 2013, 1, 7422.	5.2	9

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55	Status of women in physics in China-Taipei from the view of quantity and quality. , 2013, , .		0
56	Controlling The Activator Site To Tune Europium Valence in Oxyfluoride Phosphors. Chemistry of Materials, 2012, 24, 2220-2227.	3.2	164
57	Xâ€ray Absorption Spectroscopy Approaches to Electronic State and Coordination Type of Lithium Phosphorus Oxynitride Thin Films. Journal of the Chinese Chemical Society, 2012, 59, 1270-1274.	0.8	0
58	Luminescence and density functional theory (DFT) calculation of undoped nitridosilicate phosphors for light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 5828.	6.7	17
59	Combinatorial chemistry approach to searching phosphors for white light-emitting diodes in (Gd-Y-Bi-Eu)VO4 quaternary system. Journal of Materials Chemistry, 2011, 21, 3677.	6.7	73
60	Highly Stable Red Oxynitride Î²-SiAlON:Pr³⁺ Phosphor for Light-Emitting Diodes. Chemistry of Materials, 2011, 23, 3698-3705.	3.2	171
61	Preparation and Characterization of Ni or Co/Cu Multilayer Nanowires. Journal of the Chinese Chemical Society, 2010, 57, 888-891.	0.8	4
62	Improvement efficiency of a dye-sensitized solar cell using Eu3+ modified TiO2 nanoparticles as a secondary layer electrode. Journal of Materials Chemistry, 2010, 20, 6505.	6.7	37
63	Near-ultraviolet excitable orange-yellow Sr3(Al2O5)Cl2:Eu2+ phosphor for potential application in light-emitting diodes. Applied Physics Letters, 2008, 93, .	1.5	103
64	Synthesis and characterization of long gold nanorods. IEEJ Transactions on Electrical and Electronic Engineering, 2007, 2, 468-472.	0.8	2