

Yimin Chao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

1,818
citations

22
h-index

39
g-index

95
ext. papers

2,055
ext. citations

5.4
avg, IF

4.66
L-index

#	Paper	IF	Citations
91	Extracting lignin-SiO ₂ composites from Si-rich biomass to prepare Si/C anode materials for lithium ions batteries. <i>Materials Chemistry and Physics</i> , 2021 , 262, 124331	4.4	5
90	Acid Hydrolysis to Provide the Potential for Rice-Husk-Derived C/SiO ₂ Composites for Lithium-Ion Batteries. <i>Journal of Electronic Materials</i> , 2021 , 50, 4426-4432	1.9	2
89	Emission and theoretical studies of Schiff-base [2+2] macrocycles derived from 2,2'-oxydianiline and zinc complexes thereof. <i>Dyes and Pigments</i> , 2021 , 190, 109300	4.6	0
88	Anti-rheumatic effect of quercetin and recent developments in nano formulation.. <i>RSC Advances</i> , 2021 , 11, 7280-7293	3.7	5
87	Pyrolysis transformation of ZIF-8 wrapped with polytriazine to nitrogen enriched core-shell polyhedrons carbon for supercapacitor. <i>Frontiers of Chemical Science and Engineering</i> , 2021 , 15, 944-953	4.5	2
86	Facile and Scalable Synthesis of Si@void@C Embedded in Interconnected 3D Porous Carbon Architecture for High Performance Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2021 , 38, 2000288	3.1	2
85	Al-Based Nano-Sized Composite Energetic Materials (Nano-CEMs): Preparation, Characterization, and Performance. <i>Nanomaterials</i> , 2020 , 10,	5.4	4
84	Silicon nanostructures for sensing and bioimaging: general discussion. <i>Faraday Discussions</i> , 2020 , 222, 384-389	3.6	1
83	Synthesis and characterisation of isothiocyanate functionalised silicon nanoparticles and their uptake in cultured colonic cells. <i>Faraday Discussions</i> , 2020 , 222, 332-349	3.6	1
82	A Muon Spectroscopic and Computational Study of the Microscopic Electronic Structure in Thermoelectric Hybrid Silicon Nanostructures. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9656-9664	3.8	0
81	Enabling the ability of Li storage at high rate as anodes by utilizing natural rice husks-based hierarchically porous SiO ₂ /N-doped carbon composites. <i>Electrochimica Acta</i> , 2020 , 359, 136933	6.7	16
80	Aminal/Schiff-Base Polymer to Fabricate Nitrogen-Doped Porous Carbon Nanospheres for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2020 , 7, 3859-3865	4.3	2
79	Glyco-functionalised quantum dots and their progress in cancer diagnosis and treatment. <i>Frontiers of Chemical Science and Engineering</i> , 2020 , 14, 365-377	4.5	5
78	Complementary stabilization by core/sheath carbon nanofibers/spongy carbon on submicron tin oxide particles as anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 413, 42-49	8.9	19
77	Optical Properties of Nanostructured Silicon 2019 , 189-214		0
76	Anti-cancer activities of allyl isothiocyanate and its conjugated silicon quantum dots. <i>Scientific Reports</i> , 2018 , 8, 1084	4.9	26
75	Integration of the 3DOM Al/CoO nanothermite film with a semiconductor bridge to realize a high-output micro-energetic igniter.. <i>RSC Advances</i> , 2018 , 8, 2552-2560	3.7	18

74	Hierarchical Co ₂ P microspheres assembled from nanorods grown on reduced graphene oxide as anode material for Lithium-ion batteries. <i>Applied Surface Science</i> , 2018 , 459, 665-671	6.7	19
73	Porous Silicon and Thermoelectrics 2018 , 1531-1542		
72	Multifunctional quantum dots and liposome complexes in drug delivery. <i>Journal of Biomedical Research</i> , 2018 , 32, 91-106	1.5	20
71	Enhanced thermoelectric performance of a chalcopyrite compound CuInSeTe (x = 0~0.5) through crystal structure engineering. <i>Scientific Reports</i> , 2017 , 7, 40224	4.9	14
70	A hierarchical porous microstructure for improving long-term stability of Ni _{1-x} Cu _x /SDC anode-supported IT-SOFCs fueled with dry methane. <i>Journal of Alloys and Compounds</i> , 2017 , 702, 186-192	5.7	9
69	Simultaneous Ni Doping at Atom Scale in Ceria and Assembling into Well-Defined Lotuslike Structure for Enhanced Catalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 16243-16251	9.5	22
68	An active core-shell nanoscale design for high voltage cathode of lithium storage devices. <i>Journal of Power Sources</i> , 2017 , 360, 409-418	8.9	13
67	The role of excess Sn in Cu ₄ Sn ₇ S ₁₆ for modification of the band structure and a reduction in lattice thermal conductivity. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4206-4213	7.1	15
66	2D Film of Carbon Nanofibers Elastically Astricted MnO Microparticles: A Flexible Binder-Free Anode for Highly Reversible Lithium Ion Storage. <i>Small</i> , 2017 , 13, 1604182	11	33
65	Core shell lipid-polymer hybrid nanoparticles with combined docetaxel and molecular targeted therapy for the treatment of metastatic prostate cancer. <i>Scientific Reports</i> , 2017 , 7, 5901	4.9	29
64	Enhancing the thermoelectric performance of Cu ₃ SnS ₄ -based solid solutions through coordination of the Seebeck coefficient and carrier concentration. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18808-18815	13	28
63	Significantly Enhanced Thermoelectric Performance of Bi ₂ Se ₃ through Lithiation via Chemical Diffusion. <i>Chemistry of Materials</i> , 2017 , 29, 7467-7474	9.6	12
62	New FTY720-docetaxel nanoparticle therapy overcomes FTY720-induced lymphopenia and inhibits metastatic breast tumour growth. <i>Breast Cancer Research and Treatment</i> , 2017 , 165, 531-543	4.4	16
61	Hybrid Silicon Nanostructures with Conductive Ligands and Their Microscopic Conductivity. <i>Journal of Electronic Materials</i> , 2017 , 46, 3221-3226	1.9	1
60	Magnetoelectric interaction and transport behaviours in magnetic nanocomposite thermoelectric materials. <i>Nature Nanotechnology</i> , 2017 , 12, 55-60	28.7	155
59	Enhanced thermoelectric performance via the solid solution formation: The case of pseudobinary alloy (Cu ₂ Te)(Ga ₂ Te ₃) ₃ upon Sb substitution for Cu. <i>Materials and Design</i> , 2017 , 115, 325-331	8.1	2
58	Hydrogen-terminated mesoporous silicon monoliths with huge surface area as alternative Si-based visible light-active photocatalysts. <i>RSC Advances</i> , 2016 , 6, 71092-71099	3.7	6
57	Ligand Doping on the Hybrid Thermoelectric Materials Based on Terthiophene-Capped Silicon Nanoparticles. <i>Journal of Electronic Materials</i> , 2016 , 45, 1260-1265	1.9	1

56	Synthesis of Diagnostic Silicon Nanoparticles for Targeted Delivery of Thiourea to Epidermal Growth Factor Receptor-Expressing Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8908-175	9.5	20
55	Porous Silicon and Thermoelectrics 2016 , 1-13		
54	Three-dimensionally Ordered Macroporous Structure Enabled Nanothermite Membrane of Mn ₂ O ₃ /Al. <i>Scientific Reports</i> , 2016 , 6, 22588	4.9	19
53	Electron-withdrawing ability tunable polyphosphazene frameworks as novel heterogeneous catalysts for efficient biomass upgrading. <i>RSC Advances</i> , 2016 , 6, 48694-48698	3.7	6
52	Engineering Band Structure via the Site Preference of Pb(2+) in the In(+) Site for Enhanced Thermoelectric Performance of In ₆ Se ₇ . <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23175-80	9.5	5
51	A high energy output and low onset temperature nanothermite based on three-dimensional ordered macroporous nano-NiFe ₂ O ₄ . <i>RSC Advances</i> , 2016 , 6, 93330-93334	3.7	11
50	3D ordered macroporous NiO/Al nanothermite film with significantly improved higher heat output, lower ignition temperature and less gas production. <i>Materials and Design</i> , 2016 , 110, 304-310	8.1	33
49	Engineering the energy gap near the valence band edge in Mn-incorporated Cu ₃ Ga ₅ Te ₉ for an enhanced thermoelectric performance. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8014-8019	7.1	5
48	Vanadyl calix[6]arene complexes: synthesis, structural studies and ethylene homo-(co-)polymerization capability. <i>Dalton Transactions</i> , 2015 , 44, 12292-303	4.3	20
47	Thermal Diffusivity of SPS Pressed Silicon Powders and the Potential for Using Bottom-Up Silicon Quantum Dots as a Starting Material. <i>Journal of Electronic Materials</i> , 2015 , 44, 1931-1935	1.9	2
46	Bicontinuous Structure of LiV ₂ (PO ₄) ₃ Clustered via Carbon Nanofiber as High-Performance Cathode Material of Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13934-43	9.5	48
45	Synthesis of Porphyrin-CdSe Quantum Dot Assemblies: Controlling Ligand Binding by Substituent Effects. <i>Inorganic Chemistry</i> , 2015 , 54, 7368-80	5.1	22
44	Synthesis of low-oxide blue luminescent alkyl-functionalized silicon nanoparticles with no nitrogen containing surfactant. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	2
43	Synthesis of Carbohydrate Capped Silicon Nanoparticles and their Reduced Cytotoxicity, In Vivo Toxicity, and Cellular Uptake. <i>Advanced Healthcare Materials</i> , 2015 , 4, 1877-86	10.1	23
42	Sulforaphane Protects the Liver against CdSe Quantum Dot-Induced Cytotoxicity. <i>PLoS ONE</i> , 2015 , 10, e0138771	3.7	20
41	Triazaheterocyclic compound as an efficient catalyst for dehydration of fructose into 5-hydroxymethylfurfural. <i>RSC Advances</i> , 2014 , 4, 13434	3.7	11
40	Amine-terminated nanoparticle films: pattern deposition by a simple nanostencilling technique and stability studies under X-ray irradiation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5817-23	3.6	
39	Bridging silicon nanoparticles and thermoelectrics: phenylacetylene functionalization. <i>Faraday Discussions</i> , 2014 , 176, 349-61	3.6	19

38	In situ preparation of SnO ₂ @polyaniline nanocomposites and their synergetic structure for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8334	13	67
37	Novel approach to the preparation of organic energetic film for microelectromechanical systems and microactuator applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10992-6	9.5	11
36	Use of Electrochemical Etching to Produce Doped Phenylacetylene Functionalized Particles and Their Thermal Stability. <i>Journal of Electronic Materials</i> , 2014 , 43, 2006-2010	1.9	6
35	Measurement of Thermoelectric Properties of Phenylacetylene-Capped Silicon Nanoparticles and Their Potential in Fabrication of Thermoelectric Materials. <i>Journal of Electronic Materials</i> , 2013 , 42, 1495-1498	1.9	17
34	Rhenium(I) phenanthrolines bearing electron withdrawing CF ₃ substituents: synthesis, characterization and biological evaluation. <i>RSC Advances</i> , 2013 , 3, 23963	3.7	12
33	Synthesis of nickel picrate energetic film in a 3D ordered silicon microchannel plate through an in situ chemical reaction. <i>Journal of Materials Science</i> , 2013 , 48, 8302-8307	4.3	3
32	Vanadium(III) phenoxyimine complexes for ethylene or ϵ -caprolactone polymerization: mononuclear versus binuclear pre-catalysts. <i>Catalysis Science and Technology</i> , 2013 , 3, 152-160	5.5	27
31	Significantly enhanced energy output from 3D ordered macroporous structured Fe ₂ O ₃ /Al nanothermite film. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 239-42	9.5	91
30	The effect of alkyl chain length on the level of capping of silicon nanoparticles produced by a one-pot synthesis route based on the chemical reduction of micelle. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	11
29	Synthesis of D-mannose capped silicon nanoparticles and their interactions with MCF-7 human breast cancerous cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7384-91	9.5	57
28	Co-encapsulation of biodegradable nanoparticles with silicon quantum dots and quercetin for monitored delivery. <i>Advanced Healthcare Materials</i> , 2013 , 2, 459-66	10.1	64
27	Highly active, thermally stable, ethylene-polymerisation pre-catalysts based on niobium/tantalum-imine systems. <i>Chemistry - A European Journal</i> , 2013 , 19, 8884-99	4.8	21
26	Silicon Photonics for Biology. <i>Series in Optics and Optoelectronics</i> , 2013 , 707-748		
25	Highly luminescent and nontoxic amine-capped nanoparticles from porous silicon: synthesis and their use in biomedical imaging. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3285-92	9.5	96
24	Simple fabrication of nanostructured silicon and photoluminescence. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 109, 437-440	2.6	3
23	Cellular uptake studies of two hexanuclear, carboxylate bridged, zinc ring structures using fluorescence microscopy. <i>Chemical Communications</i> , 2012 , 48, 6627-9	5.8	16
22	An in situ chemical reaction approach to synthesize zinc picrate energetic thin film upon zinc oxide nanowires array. <i>Surface and Interface Analysis</i> , 2012 , 44, 1203-1208	1.5	7
21	Uptake and toxicity studies of poly-acrylic acid functionalized silicon nanoparticles in cultured mammalian cells. <i>Advanced Healthcare Materials</i> , 2012 , 1, 189-98	10.1	61

20	Thermal evaporation and x-ray photostability of dodecyl-passivated silicon nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 355303	3	3
19	Evaporation and decomposition of acrylic acid grafted luminescent silicon quantum dots in ultrahigh vacuum. <i>Journal of Physics: Conference Series</i> , 2011 , 286, 012039	0.3	
18	Synthesis of water-dispersible photoluminescent silicon nanoparticles and their use in biological fluorescent imaging. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 405-413	2.3	51
17	Characteristics of silicon nanocrystals for photovoltaic applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 604-607	1.6	11
16	Soft X-ray induced oxidation on acrylic acid grafted luminescent silicon quantum dots in ultrahigh vacuum. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 2424-2429	1.6	11
15	An abrupt switch between the two photoluminescence bands within alkylated silicon nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 495301	3	17
14	Core and valence exciton formation in x-ray absorption, x-ray emission and x-ray excited optical luminescence from passivated Si nanocrystals at the Si L(2,3) edge. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 095005	1.8	19
13	Simultaneous photocharging and luminescence intermittency in silicon nanocrystals. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 235301	1.8	7
12	Alkyl-capped silicon nanocrystals lack cytotoxicity and have enhanced intracellular accumulation in malignant cells via cholesterol-dependent endocytosis. <i>Small</i> , 2009 , 5, 221-8	11	112
11	Dispersions of alkyl-capped silicon nanocrystals in aqueous media: photoluminescence and ageing. <i>Analyst, The</i> , 2008 , 133, 1573-80	5	34
10	Electron energy loss spectroscopy on alkylated silicon nanocrystals. <i>Journal of Applied Physics</i> , 2008 , 104, 084318	2.5	3
9	Intact sublimation of silicon nanocrystals evidenced via HREM imaging and EELS in a dedicated STEM. <i>Journal of Physics: Conference Series</i> , 2008 , 126, 012066	0.3	
8	Evaporation and deposition of alkyl-capped silicon nanocrystals in ultrahigh vacuum. <i>Nature Nanotechnology</i> , 2007 , 2, 486-9	28.7	69
7	Optical luminescence from alkyl-passivated Si nanocrystals under vacuum ultraviolet excitation: Origin and temperature dependence of the blue and orange emissions. <i>Applied Physics Letters</i> , 2006 , 88, 263119	3.4	36
6	Reactions and luminescence in passivated Si nanocrystallites induced by vacuum ultraviolet and soft-x-ray photons. <i>Journal of Applied Physics</i> , 2005 , 98, 044316	2.5	33
5	Gold film with gold nitride as a conductor but harder than gold. <i>Applied Physics Letters</i> , 2005 , 86, 221912	3.4	34
4	Photoemission spectroscopy of clean and potassium-intercalated carbon onions. <i>Physical Review B</i> , 2003 , 67,	3.3	18
3	Photoemission spectroscopy of the evolution of In-terminated InP(100) as a function of temperature: Surface- and cluster-related In 4d lines. <i>Physical Review B</i> , 2002 , 66,	3.3	11

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| 2 | Thermally induced decomposition of single-wall carbon nanotubes adsorbed on H/Si(111). <i>Applied Physics Letters</i> , 2002 , 81, 4847-4849 | 3-4 | 6 |
| 1 | Photoluminescence properties of TlGaS ₂ and TlGaS ₂ :Er ³⁺ single crystals. <i>Journal of Physics and Chemistry of Solids</i> , 1995 , 56, 787-790 | 3-9 | 3 |