

Yimin Chao

List of Publications by Year in descending order

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94
papers

2,277
citations

218677
26
h-index

243625
44
g-index

95
all docs

95
docs citations

95
times ranked

3338
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetoelectric interaction and transport behaviours in magnetic nanocomposite thermoelectric materials. <i>Nature Nanotechnology</i> , 2017, 12, 55-60.	31.5	216
2	Alkyl-Capped Silicon Nanocrystals Lack Cytotoxicity and have Enhanced Intracellular Accumulation in Malignant Cells via Cholesterol-Dependent Endocytosis. <i>Small</i> , 2009, 5, 221-228.	10.0	117
3	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, 3285-3292.	8.0	109
4	Significantly Enhanced Energy Output from 3D Ordered Macroporous Structured Fe ₂ O ₃ /Al Nanothermite Film. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 239-242.	8.0	98
5	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.	10.3	83
6	Evaporation and deposition of alkyl-capped silicon nanocrystals in ultrahigh vacuum. <i>Nature Nanotechnology</i> , 2007, 2, 486-489.	31.5	74
7	Co-encapsulation of Biodegradable Nanoparticles with Silicon Quantum Dots and Quercetin for Monitored Delivery. <i>Advanced Healthcare Materials</i> , 2013, 2, 459-466.	7.6	74
8	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, 7384-7391.	8.0	67
9	Uptake and Toxicity Studies of Polyacrylic Acid Functionalized Silicon Nanoparticles in Cultured Mammalian Cells. <i>Advanced Healthcare Materials</i> , 2012, 1, 189-198.	7.6	65
10	Synthesis of water-dispersible photoluminescent silicon nanoparticles and their use in biological fluorescent imaging. <i>Journal of Nanoparticle Research</i> , 2011, 13, 405-413.	1.9	55
11	Bicontinuous Structure of Li ₃ V 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, 13934-13943.	8.0	53
12	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.	3.3	49
13	Anti-cancer activities of allyl isothiocyanate and its conjugated silicon quantum dots. <i>Scientific Reports</i> , 2018, 8, 1084.	3.3	49
14	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.	7.0	48
15	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.	3.3	39
16	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.	10.3	39
17	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.	10.0	38
18	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	37

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19	Dispersions of alkyl-capped silicon nanocrystals in aqueous media: photoluminescence and ageing. <i>Analyst</i> , 2008, 133, 1573.	3.5	36
20	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.	4.1	36
21	Gold film with gold nitride—A conductor but harder than gold. <i>Applied Physics Letters</i> , 2005, 86, 221912.	3.3	35
22	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.	8.0	30
23	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.	5.2	30
24	Multifunctional quantum dots and liposome complexes in drug delivery. <i>Journal of Biomedical Research</i> , 2018, 32, 91.	1.6	29
25	Synthesis of Porphyrin—CdSe Quantum Dot Assemblies: Controlling Ligand Binding by Substituent Effects. <i>Inorganic Chemistry</i> , 2015, 54, 7368-7380.	4.0	28
26	Vanadyl calix[6]arene complexes: synthesis, structural studies and ethylene homo-(co-)polymerization capability. <i>Dalton Transactions</i> , 2015, 44, 12292-12303.	3.3	27
27	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	26
28	Integration of the 3DOM Al/Co ₃ O ₄ nanothermite film with a semiconductor bridge to realize a high-output micro-energetic igniter. <i>RSC Advances</i> , 2018, 8, 2552-2560.	3.6	26
29	Three-dimensionally Ordered Macroporous Structure Enabled Nanothermite Membrane of Mn ₂ O ₃ /Al. <i>Scientific Reports</i> , 2016, 6, 22588.	3.3	25
30	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.	6.1	25
31	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.	7.8	25
32	Synthesis of Carbohydrate Capped Silicon Nanoparticles and their Reduced Cytotoxicity, In Vivo Toxicity, and Cellular Uptake. <i>Advanced Healthcare Materials</i> , 2015, 4, 1877-1886.	7.6	24
33	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.	2.5	24
34	Bridging silicon nanoparticles and thermoelectrics: phenylacetylene functionalization. <i>Faraday Discussions</i> , 2014, 176, 349-361.	3.2	23
35	Highly Active, Thermally Stable, Ethylene-Polymerisation Pre-Catalysts Based on Niobium/Tantalum-Imine Systems. <i>Chemistry - A European Journal</i> , 2013, 19, 8884-8899.	3.3	22
36	Sulforaphane Protects the Liver against CdSe Quantum Dot-Induced Cytotoxicity. <i>PLoS ONE</i> , 2015, 10, e0138771.	2.5	22

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37	Synthesis of Diagnostic Silicon Nanoparticles for Targeted Delivery of Thiourea to Epidermal Growth Factor Receptor-Expressing Cancer Cells. ACS Applied Materials & Interfaces, 2016, 8, 8908-8917.	8.0	22
38	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. Journal of Materials Chemistry C, 2017, 5, 4206-4213.	5.5	22
39	An active core-shell nanoscale design for high voltage cathode of lithium storage devices. Journal of Power Sources, 2017, 360, 409-418.	7.8	21
40	An abrupt switch between the two photoluminescence bands within alkylated silicon nanocrystals. Journal Physics D: Applied Physics, 2011, 44, 495301.	2.8	19
41	Measurement of Thermoelectric Properties of Phenylacetylene-Capped Silicon Nanoparticles and Their Potential in Fabrication of Thermoelectric Materials. Journal of Electronic Materials, 2013, 42, 1495-1498.	2.2	19
42	Al-Based Nano-Sized Composite Energetic Materials (Nano-CEMs): Preparation, Characterization, and Performance. Nanomaterials, 2020, 10, 1039.	4.1	19
43	Photoemission spectroscopy of clean and potassium-intercalated carbon onions. Physical Review B, 2003, 67, .	3.2	18
44	Cellular uptake studies of two hexanuclear, carboxylate bridged, zinc ring structures using fluorescence microscopy. Chemical Communications, 2012, 48, 6627.	4.1	18
45	Significantly Enhanced Thermoelectric Performance of In_2Se_3 through Lithiation via Chemical Diffusion. Chemistry of Materials, 2017, 29, 7467-7474.	6.7	18
46	Anti-rheumatic effect of quercetin and recent developments in nano formulation. RSC Advances, 2021, 11, 7280-7293.	3.6	18
47	Enhanced thermoelectric performance of a chalcopyrite compound $\text{CuIn}_3\text{Se}_5\text{Te}_x$ ($x=0-0.5$) through crystal structure engineering. Scientific Reports, 2017, 7, 40224.	3.3	17
48	Characteristics of silicon nanocrystals for photovoltaic applications. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 604-607.	1.8	14
49	Triazaheterocyclic compound as an efficient catalyst for dehydration of fructose into 5-hydroxymethylfurfural. RSC Advances, 2014, 4, 13434.	3.6	14
50	A high energy output and low onset temperature nanothermite based on three-dimensional ordered macroporous nano- NiFe_2O_4 . RSC Advances, 2016, 6, 93330-93334.	3.6	14
51	Photoemission spectroscopy of the evolution of In-terminated $\text{InP}(100)\sqrt{2}\times\sqrt{2}$ as a function of temperature: In Surface- and cluster-related In d lines. Physical Review B, 2002, 66, .	3.2	13
52	Rhenium(i) phenanthrolines bearing electron withdrawing CF_3 substituents: synthesis, characterization and biological evaluation. RSC Advances, 2013, 3, 23963.	3.6	13
53	A hierarchical porous microstructure for improving long-term stability of $\text{Ni}_{1-x}\text{Cu}_x/\text{SDC}$ anode-supported IT-SOFCs fueled with dry methane. Journal of Alloys and Compounds, 2017, 702, 186-192.	5.5	13
54	Extracting lignin- SiO_2 composites from Si-rich biomass to prepare Si/C anode materials for lithium ions batteries. Materials Chemistry and Physics, 2021, 262, 124331.	4.0	13

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55	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.	1.8	12
56	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.	1.9	12
57	Novel Approach to the Preparation of Organic Energetic Film for Microelectromechanical Systems and Microactuator Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10992-10996.	8.0	12
58	Glyco-functionalised quantum dots and their progress in cancer diagnosis and treatment. <i>Frontiers of Chemical Science and Engineering</i> , 2020, 14, 365-377.	4.4	12
59	An <i>in situ</i> 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.	1.8	10
60	Simultaneous photocharging and luminescence intermittency in silicon nanocrystals. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 235301.	1.8	8
61	Thermally induced decomposition of single-wall carbon nanotubes adsorbed on H/Si(111). <i>Applied Physics Letters</i> , 2002, 81, 4847-4849.	3.3	7
62	Electron-withdrawing ability tunable polyphosphazene frameworks as novel heterogeneous catalysts for efficient biomass upgrading. <i>RSC Advances</i> , 2016, 6, 48694-48698.	3.6	7
63	Electron energy loss spectroscopy on alkylated silicon nanocrystals. <i>Journal of Applied Physics</i> , 2008, 104, 084318.	2.5	6
64	Use of Electrochemical Etching to Produce Doped Phenylacetylene Functionalized Particles and Their Thermal Stability. <i>Journal of Electronic Materials</i> , 2014, 43, 2006-2010.	2.2	6
65	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.	3.6	6
66	Aminal/Schiffâ€Base Polymer to Fabricate Nitrogenâ€Doped Porous Carbon Nanospheres for Highâ€Performance Supercapacitors. <i>ChemElectroChem</i> , 2020, 7, 3859-3865.	3.4	6
67	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.	4.0	5
68	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, 23175-23180.	8.0	5
69	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.	5.5	5
70	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.	7.0	5
71	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.	4.4	5
72	Facile and Scalable Synthesis of Si@void@C Embedded in Interconnected 3D Porous Carbon Architecture for High Performance Lithiumâ€Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2000288.	2.3	5

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73	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.	3.7	4
74	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.	2.2	4
75	Synthesis and characterisation of isothiocyanate functionalised silicon nanoparticles and their uptake in cultured colonic cells. <i>Faraday Discussions</i> , 2020, 222, 332-349.	3.2	4
76	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.	3.1	4
77	Thermal evaporation and x-ray photostability of dodecyl-passivated silicon nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 355303.	2.8	3
78	Simple fabrication of nanostructured silicon and photoluminescence. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 437-440.	2.3	3
79	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.	2.2	3
80	Synthesis of low-oxide blue luminescent alkyl-functionalized silicon nanoparticles with no nitrogen containing surfactant. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	2
81	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.	3.7	2
82	Electrochemical conversion and storage systems: general discussion. <i>Faraday Discussions</i> , 2014, 176, 153-184.	3.2	1
83	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, 5817-5823.	2.8	1
84	Ligand Doping on the Hybrid Thermoelectric Materials Based on Terthiophene-Capped Silicon Nanoparticles. <i>Journal of Electronic Materials</i> , 2016, 45, 1260-1265.	2.2	1
85	Hybrid Silicon Nanostructures with Conductive Ligands and Their Microscopic Conductivity. <i>Journal of Electronic Materials</i> , 2017, 46, 3221-3226.	2.2	1
86	Optical Properties of Nanostructured Silicon. , 2019, , 189-214.		1
87	Silicon nanostructures for sensing and bioimaging: general discussion. <i>Faraday Discussions</i> , 2020, 222, 384-389.	3.2	1
88	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.	0.4	0
89	Alkylated Silicon Nanocrystals: Electronic and Optical Characterization and their Potential Applications. <i>ECS Transactions</i> , 2009, 19, 9-17.	0.5	0
90	Evaporation and decomposition of acrylic acid grafted luminescent silicon quantum dots in ultrahigh vacuum. <i>Journal of Physics: Conference Series</i> , 2011, 286, 012039.	0.4	0

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91	Silicon Photonics for Biology. Series in Optics and Optoelectronics, 2013, , 707-748.	0.0	0
92	Energy-related catalytic and other materials: general discussion. Faraday Discussions, 2014, 176, 429-445.	3.2	0
93	Porous Silicon and Thermoelectrics. , 2016, , 1-13.		0
94	Porous Silicon and Thermoelectrics. , 2018, , 1531-1542.		0