

Zi-Sheng Chao

List of Publications by Year in descending order

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102
papers

1,949
citations

257450

24
h-index

345221

36
g-index

105
all docs

105
docs citations

105
times ranked

2484
citing authors

#	ARTICLE	IF	CITATIONS
1	High efficiency hydrogen evolution from native biomass electrolysis. <i>Energy and Environmental Science</i> , 2016, 9, 467-472.	30.8	140
2	Dynamic study of Li intercalation into graphite by in situ high energy synchrotron XRD. <i>Electrochimica Acta</i> , 2013, 92, 148-152.	5.2	89
3	Mechanistic study of partial oxidation of methane to synthesis gas over supported rhodium and ruthenium catalysts using in situ time-resolved FTIR spectroscopy. <i>Catalysis Today</i> , 2000, 63, 317-326.	4.4	68
4	Oxygen Vacancy-Rich Mixed-Valence Cerium MOF: An Efficient Separator Coating to High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3899-3910.	8.0	65
5	Towards a full understanding of the nature of Ni species and hydroxyl groups over highly siliceous HZSM-5 zeolite supported nickel catalysts prepared by a deposition-precipitation method. <i>Dalton Transactions</i> , 2016, 45, 2720-2739.	3.3	50
6	SPEEK Membrane of Ultrahigh Stability Enhanced by Functionalized Carbon Nanotubes for Vanadium Redox Flow Battery. <i>Frontiers in Chemistry</i> , 2018, 6, 286.	3.6	49
7	±-MnO ₂ Nanowires/Graphene Composites with High Electrocatalytic Activity for Mg-Air Fuel Cell. <i>Electrochimica Acta</i> , 2016, 219, 492-501.	5.2	44
8	Constituent selection and performance characterization of catalysts for oxidative coupling of methane and oxidative dehydrogenation of ethane. <i>Catalysis Today</i> , 1996, 30, 67-76.	4.4	41
9	CH ₃ COONa as an effective catalyst for methoxycarbonylation of 1,6-hexanediamine by dimethyl carbonate to dimethylhexane-1,6-dicarbamate. <i>Green Chemistry</i> , 2010, 12, 483.	9.0	40
10	Celgard-supported LiX zeolite membrane as ion-permselective separator in lithium sulfur battery. <i>Journal of Membrane Science</i> , 2020, 611, 118386.	8.2	40
11	Catalysis over zinc-incorporated berlinite (ZnAlPO ₄) of the methoxycarbonylation of 1,6-hexanediamine with dimethyl carbonate to form dimethylhexane-1,6-dicarbamate. <i>Chemistry Central Journal</i> , 2007, 1, 27.	2.6	38
12	Hierarchical ZnO/MXene composites and their photocatalytic performances. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127230.	4.7	36
13	Noncatalytic and catalytic conversion of ethane over V-Mg oxide catalysts prepared via solid reaction or mesoporous precursors. <i>Journal of Catalysis</i> , 2004, 222, 17-31.	6.2	33
14	Synthesis of High-Perfomanced Titanium Silicalite-1 Zeolite at Very Low Usage of Tetrapropyl Ammonium Hydroxide. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3762-3772.	3.7	33
15	A Novel MoS ₂ -MXene Composite Cathode for Aluminum-Ion Batteries. <i>Energy & Fuels</i> , 2021, 35, 12666-12670.	5.1	33
16	ZIF-67 derived Ag-Co ₃ O ₄ @N-doped carbon/carbon nanotubes composite and its application in Mg-air fuel cell. <i>Electrochemistry Communications</i> , 2017, 77, 5-9.	4.7	32
17	Low-temperature construction of MoS ₂ quantum dots/ZnO spheres and their photocatalytic activity under natural sunlight. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 714-724.	9.4	32
18	UV-Resistant and Thermally Stable Superhydrophobic CeO ₂ Nanotubes with High Water Adhesion. <i>Small</i> , 2018, 14, e1801040.	10.0	32

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19	High-efficiency catalytic performance over mesoporous Ni/beta zeolite for the synthesis of quinoline from glycerol and aniline. <i>RSC Advances</i> , 2017, 7, 9551-9561.	3.6	29
20	The synthesis of pyridine and 3-picoline from gas-phase acrolein diethyl acetal with ammonia over ZnO/HZSM-5. <i>Chemical Engineering Journal</i> , 2015, 273, 7-18.	12.7	28
21	Influence of Reaction Parameters on the Catalytic Performance of Alkaline-Treated Zeolites in the Novel Synthesis of Pyridine Bases from Glycerol and Ammonia. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 893-911.	3.7	28
22	Synthesis of 3-picoline from acrolein and ammonia through a liquid-phase reaction pathway using SO ₄ ²⁻ /ZrO ₂ -FeZSM-5 as catalyst. <i>Chemical Engineering Journal</i> , 2014, 253, 544-553.	12.7	26
23	Synthesis of micro- and mesoporous ZSM-5 composites and their catalytic application in glycerol dehydration to acrolein. <i>Studies in Surface Science and Catalysis</i> , 2007, , 527-530.	1.5	25
24	Ethanol-assistant synthesis of TS-1 containing no extra-framework Ti species. <i>Catalysis Today</i> , 2010, 158, 510-514.	4.4	25
25	Low-temperature preparation achieving 10.95%-efficiency of hole-free and carbon-based all-inorganic CsPbI ₃ perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2021, 862, 158454.	5.5	25
26	In situ-grown Co ₃ O ₄ nanorods on carbon cloth for efficient electrocatalytic oxidation of urea. <i>Journal of Nanostructure in Chemistry</i> , 2021, 11, 735-749.	9.1	25
27	Effect of the Nature of the Templating Surfactant on the Synthesis and Structure of Mesoporous V ³⁺ Mg ²⁺ O. <i>Langmuir</i> , 2002, 18, 734-743.	3.5	24
28	Green Synthesis of N,N'-Dialkylureas from CO ₂ and Amines Using Metal Salts of Oxalates as Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 64-70.	3.7	24
29	V ³⁺ Mg ²⁺ O Prepared via a Mesoporous Pathway: A Low-Temperature Catalyst for the Oxidative Dehydrogenation of Propane to Propene. <i>Catalysis Letters</i> , 2004, 94, 217-221.	2.6	23
30	Effective ternary copper-cerium-cobalt catalysts synthesized via a modified pechini method for selective oxidation of ethylbenzene. <i>Materials Chemistry and Physics</i> , 2018, 214, 239-246.	4.0	23
31	Phosgene-free synthesis of hexamethylene-1,6-diisocyanate by the catalytic decomposition of dimethylhexane-1,6-dicarbamate over zinc-incorporated berlinite (ZnAlPO ₄). <i>Journal of Hazardous Materials</i> , 2014, 266, 167-173.	12.4	22
32	Dehydration of bio-ethanol to ethylene over iron exchanged HZSM-5. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1941-1948.	14.0	22
33	Enhanced sunlight-driven photocatalytic property of Mg-doped ZnO nanocomposites with three-dimensional graphene oxide/MoS ₂ nanosheet composites. <i>RSC Advances</i> , 2018, 8, 17399-17409.	3.6	22
34	All-inorganic, hole-transporting-layer-free, carbon-based CsPbI ₃ Br ₂ planar solar cells with ZnO as electron-transporting materials. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152768.	5.5	22
35	Perovskite Lithium Lanthanum Titanate-Modified Separator as Both Adsorbent and Converter of Soluble Polysulfides toward High-Performance Li-S Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16477-16492.	6.7	20
36	Efficient Biomass Fuel Cell Powered by Sugar with Photo- and Thermal-Catalysis by Solar Irradiation. <i>ChemSusChem</i> , 2018, 11, 2229-2238.	6.8	19

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37	WO ₃ Quantum Dots Decorated GO/Mg-doped ZnO Composites for Enhanced Photocatalytic Activity under Nature Sunlight. Applied Organometallic Chemistry, 2018, 32, e4449.	3.5	18
38	Dynamic Lithium Intercalation/Deintercalation in 18650 Lithium Ion Battery by Time-Resolved High Energy Synchrotron X-Ray Diffraction. Journal of the Electrochemical Society, 2015, 162, A2195-A2200.	2.9	17
39	Mechanism of pyridine bases prepared from acrolein and ammonia by in situ infrared spectroscopy. Journal of Molecular Catalysis A, 2016, 411, 19-26.	4.8	17
40	UV-resistant hydrophobic CeO ₂ nanomaterial with photocatalytic depollution performance. Ceramics International, 2018, 44, 13439-13443.	4.8	17
41	Preparation of pyridine and 3-picoline from acrolein and ammonia with HF/MgZSM-5 catalyst. Catalysis Communications, 2016, 80, 10-14.	3.3	16
42	Patching NaA zeolite membrane by adding methylcellulose into the synthesis gel. Journal of Membrane Science, 2017, 530, 240-249.	8.2	16
43	Hydrogenation of 3-hydroxypropanal into 1,3-propanediol over bimetallic Ru-Ni catalyst. RSC Advances, 2017, 7, 32027-32037.	3.6	16
44	Super-hydrophobic Co ₃ O ₄ -loaded nickel foam with corrosion-resistant property prepared by combination of hydrothermal synthesis and PFAS modification. Surface and Coatings Technology, 2017, 309, 1111-1118.	4.8	16
45	MCM-22 Zeolite-Induced Synthesis of Thin Sodalite Zeolite Membranes. Chemistry of Materials, 2020, 32, 333-340.	6.7	16
46	Postmetalation of a new porphyrin ligand-based metal-organic framework for catalytic oxidative carboxylation of olefins. Journal of Materials Science, 2020, 55, 16184-16196.	3.7	16
47	High performance super-hydrophobic ZrO ₂ -SiO ₂ porous ceramics coating with flower-like CeO ₂ micro/nano-structure. Surface and Coatings Technology, 2017, 325, 565-571.	4.8	16
48	Facile Fabrication of ZnO Nanomaterials and Their Photocatalytic Activity Study. Science of Advanced Materials, 2018, 10, 1721-1728.	0.7	16
49	Deactivation and regeneration on the ZSM-5-based catalyst for the synthesis of pyridine and 3-picoline. Microporous and Mesoporous Materials, 2016, 235, 261-269.	4.4	15
50	Synthesis of L-Lactide via Degradation of Various Telechelic Oligomeric Poly(L-lactic acid) Intermediates. Industrial & Engineering Chemistry Research, 2017, 56, 4867-4877.	3.7	15
51	Heterogeneous catalytic synthesis of quinoline compounds from aniline and C ₁ -C ₄ alcohols over zeolite-based catalysts. RSC Advances, 2017, 7, 48275-48285.	3.6	15
52	Synthesis of superhydrophobic flower-like ZnO on nickel foam. CrystEngComm, 2020, 22, 205-212.	2.6	15
53	A simple and convenient approach for preparing core-shell-like silica@nickel species nanoparticles: highly efficient and stable catalyst for the dehydrogenation of 1,2-cyclohexanediol to catechol. Dalton Transactions, 2015, 44, 1023-1038.	3.3	14
54	Fundamental Study toward Improving the Performance of a High-Moisture Biomass-Fueled Redox Flow Fuel Cell. Industrial & Engineering Chemistry Research, 2020, 59, 4817-4828.	3.7	14

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55	Synthesis of Mesoporous V ⁵⁺ Mg ²⁺ O Nanofibers. Nano Letters, 2001, 1, 739-742.	9.1	13
56	Structural and Morphological Control of Mesostructures: Vanadium Based Nanofibers. Chemistry of Materials, 2002, 14, 4611-4618.	6.7	13
57	NaA Zeolite Membrane with High Performance Synthesized by Vapor Phase Transformation Method. Chinese Journal of Chemistry, 2003, 21, 1430-1432.	4.9	13
58	Synthesis of quinolines from aniline and propanol over modified USY zeolite: catalytic performance and mechanism evaluated by in situ Fourier transform infrared spectroscopy. RSC Advances, 2017, 7, 24950-24962.	3.6	13
59	New Type of SnSe/CoSe@C Anode for Lithium-Ion Batteries. Energy & Fuels, 2022, 36, 2260-2267.	5.1	13
60	Title is missing!. Catalysis Letters, 2003, 88, 147-154.	2.6	12
61	Unsaturated aldehydes: a novel route for the synthesis of pyridine and 3-picoline. RSC Advances, 2015, 5, 54090-54101.	3.6	12
62	Role of Na in the dehydro-aromatization of 1,2-cyclohexanediol to catechol over the Na/Ni/HZSM-5 catalyst. Applied Catalysis A: General, 2014, 470, 239-249.	4.3	11
63	High efficiency microwave-assisted synthesis of quinoline from acrolein diethyl acetal and aniline utilizing Ni/Beta catalyst. Catalysis Communications, 2018, 115, 21-25.	3.3	11
64	Synthesis of poly(L-lactide)/ β -cyclodextrin/citrate network modified hydroxyapatite and its biomedical properties. New Journal of Chemistry, 2018, 42, 14729-14732.	2.8	11
65	Synthesis of mesoporous chromium phosphates via solid-state reaction at low temperature. New Journal of Chemistry, 2012, 36, 139-147.	2.8	10
66	Methylcellulose-assisted synthesis of a compact and thin NaA zeolite membrane. RSC Advances, 2016, 6, 71863-71866.	3.6	10
67	Approaching theoretical specific capacity of iron-rich lithium iron silicate using graphene-incorporation and fluorine-doping. Journal of Materials Chemistry A, 2022, 10, 4006-4014.	10.3	10
68	Control of Magnesium Containing Vanadium Mesoporous Materials. Langmuir, 2002, 18, 8535-8545.	3.5	9
69	Preparation of NaA Zeolite Membrane with High Permeability by Using a Modified VPT Method. Chemistry Letters, 2006, 35, 1056-1057.	1.3	9
70	Synthesis of NaA zeolite membrane by maintaining pressure difference between the two sides of the support. CrystEngComm, 2018, 20, 7195-7205.	2.6	9
71	A TiO ₂ /C catalyst having biomimetic channels and extremely low Pt loading for formaldehyde oxidation. RSC Advances, 2019, 9, 3965-3971.	3.6	9
72	Three dimensional Ni ₃ S ₂ nanorod arrays as multifunctional electrodes for electrochemical energy storage and conversion applications. Nanoscale Advances, 2020, 2, 478-488.	4.6	9

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73	Nanosized NaY Zeolite Synthesized Rapidly by Microwave Induction. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2003, 19, 487-491.	4.9	9
74	A redox-assisted supramolecular assembly of manganese oxide nanotube. <i>Materials Research Bulletin</i> , 2006, 41, 2035-2040.	5.2	8
75	Replication Route Synthesis of Mesoporous Titanium-Cobalt Oxides and Their Photocatalytic Activity in the Degradation of Methyl Orange. <i>Catalysis Letters</i> , 2009, 129, 26-38.	2.6	8
76	Metal-Porphyrin Frameworks Supported by Carbon Nanotubes: Efficient Polysulfide Electrocatalysts for Lithium-Sulfur Batteries. <i>Chemical Engineering Journal</i> , 2022, 437, 135150.	12.7	8
77	Stable WS ₂ /WO ₃ Composites as High-Performance Cathode for Rechargeable Aluminum-Ion Batteries. <i>Energy & Fuels</i> , 2022, 36, 7890-7897.	5.1	8
78	Microwave-accelerated direct synthesis of 3-picoline from glycerol through a liquid phase reaction pathway. <i>New Journal of Chemistry</i> , 2016, 40, 8863-8871.	2.8	7
79	Synthesis of a ZSM-5/NaA hybrid zeolite membrane using kaolin as a modification layer. <i>New Journal of Chemistry</i> , 2018, 42, 6664-6672.	2.8	7
80	Study on the Ion Substitution Mechanism of CsPbI ₂ Films Prepared by a Drop-Coating Method. <i>ACS Applied Energy Materials</i> , 2021, 4, 4686-4694.	5.1	7
81	Synthesis of Cobalt Diselenide Nanoparticles for the Integrated All-Solid-State Supercapacitors. <i>Energy & Fuels</i> , 2022, 36, 5928-5936.	5.1	7
82	Phase Behavior of Mesostructured V-Mg-O. <i>Langmuir</i> , 2003, 19, 4235-4245.	3.5	5
83	A novel approach to vapor-phase synthesis of 2- and 4-methylquinoline from lactic acid and aniline. <i>Catalysis Communications</i> , 2017, 98, 13-16.	3.3	5
84	Poly(l-lactide)/cyclodextrin/citrate networks modified hydroxyapatite and its role as filler in the promotion to the properties of poly(l-lactide) biomaterials. <i>Polymer</i> , 2018, 145, 1-10.	3.8	5
85	Effects of bubbles on the structure and performance of zeolite membranes. <i>Journal of the European Ceramic Society</i> , 2020, 40, 1709-1716.	5.7	5
86	Effect of Thin Film to Boost the Electrochemical Properties of LiMn _{1.5} Ni _{0.5} O ₄ . <i>Energy & Fuels</i> , 2021, 35, 15166-15171.	5.1	5
87	A novel honeycomb-like WS ₂ -x/CoS@C composite as anode for lithium ion batteries. <i>Journal of Materials Science</i> , 2022, 57, 5118-5129.	3.7	5
88	¹ H MAS NMR characterization of hydrogen over silica-supported rhodium catalyst. <i>Science in China Series B: Chemistry</i> , 2001, 44, 103-112.	0.8	4
89	Specific Ion and pH Effects on Supramolecular Assembly of Mesostructured V-Mg Oxides. <i>Langmuir</i> , 2004, 20, 7517-7525.	3.5	4
90	Synthesis and characterization of lanthanum oxide nanotubes using dendritic surfactant. <i>Studies in Surface Science and Catalysis</i> , 2007, 165, 339-342.	1.5	4

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91	In situ time-resolved FTIR investigation on the reaction mechanism of partial oxidation of methane to syngas over supported Rh and Ru catalysts. <i>Science Bulletin</i> , 2000, 45, 2236-2240.	1.7	3
92	Preparation and characterization of hexagonal mesoporous titanium-cobalt oxides. <i>Materials Letters</i> , 2006, 60, 2115-2118.	2.6	3
93	Hydrogenation of 3-hydroxypropanal to 1,3-propanediol over a Cu ⁰ /Ni/SiO ₂ catalyst. <i>New Journal of Chemistry</i> , 2017, 41, 8965-8976.	2.8	3
94	A novel synthesis of manganese oxide nanotubes. <i>Studies in Surface Science and Catalysis</i> , 2007, 165, 313-316.	1.5	2
95	Synthesis of mesoporous chromium aluminophosphate (CrAlPO) via solid state reaction at low temperature. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 337-345.	1.0	2
96	Facile fabrication of CeO ₂ nanomaterials by hydrothermal methods and their photocatalytic and hydrophobic properties. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	2
97	Pseudocapacitive Contribution in Amorphous FeVO ₄ Cathode for Lithium-ion Batteries. <i>ChemElectroChem</i> , 2022, 9, .	3.4	2
98	Synthesis of three-dimensional multifunctional Co ₃ O ₄ nanostructures for electrochemical supercapacitors and H ₂ production. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 10207-10225.	2.2	2
99	Introduction of an interface layer on hydroxyapatite whisker/poly(L-lactide) composite and its contribution for improved bioactivity and mechanical properties. <i>Nanotechnology</i> , 2020, 31, 235703.	2.6	1
100	1-(3,5-Dichlorophenyl)-3-trifluoromethyl-1H-pyrazol-5-yl 2-chlorobenzoate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o505-o507.	0.2	0
101	The mild liquid-phase synthesis of 3-picoline from acrolein diethyl acetal and ammonia over heterogeneous catalysts. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 94, 012031.	0.3	0
102	Study on screening catalysts for the synthesis of acrolein diethyl acetal/ammonia toward pyridine and 3-picoline. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0