

Zi-Feng Yan

List of Publications by Year in descending order

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421
papers

18,388
citations

16451

64
h-index

22166

113
g-index

424
all docs

424
docs citations

424
times ranked

20549
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Review on electrical discharge plasma technology for wastewater remediation. <i>Chemical Engineering Journal</i> , 2014, 236, 348-368. | 12.7 | 752 |
| 2 | Superior electric double layer capacitors using ordered mesoporous carbons. <i>Carbon</i> , 2006, 44, 216-224. | 10.3 | 690 |
| 3 | Preparation of highly visible-light active N-doped TiO ₂ photocatalyst. <i>Journal of Materials Chemistry</i> , 2010, 20, 5301. | 6.7 | 628 |
| 4 | Recent Advances in Catalysts for Methanol Synthesis via Hydrogenation of CO and CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 6518-6530. | 3.7 | 465 |
| 5 | Superior CO ₂ uptake of N-doped activated carbon through hydrogen-bonding interaction. <i>Energy and Environmental Science</i> , 2012, 5, 7323. | 30.8 | 434 |
| 6 | Synthesis and electrochemical properties of mesoporous nickel oxide. <i>Journal of Power Sources</i> , 2004, 134, 324-330. | 7.8 | 331 |
| 7 | Layered double hydroxides toward high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15460-15485. | 10.3 | 326 |
| 8 | Amine-Modified SBA-15: Effect of Pore Structure on the Performance for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 3220-3226. | 3.7 | 240 |
| 9 | Stable CoSe ₂ /carbon nanodice@reduced graphene oxide composites for high-performance rechargeable aluminum-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 2341-2347. | 30.8 | 240 |
| 10 | Critical role of small micropores in high CO ₂ uptake. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2523. | 2.8 | 228 |
| 11 | CO ₂ reforming of CH ₄ over nanocrystalline zirconia-supported nickel catalysts. <i>Applied Catalysis B: Environmental</i> , 2008, 77, 346-354. | 20.2 | 212 |
| 12 | Preparation and characterization of SnO ₂ /ZnO/TiO ₂ composite semiconductor with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2012, 258, 8704-8712. | 6.1 | 201 |
| 13 | Influence of chemical functionalization on the CO ₂ /N ₂ separation performance of porous graphene membranes. <i>Nanoscale</i> , 2012, 4, 5477. | 5.6 | 193 |
| 14 | Catalytic ammonia decomposition over Ru/carbon catalysts: The importance of the structure of carbon support. <i>Applied Catalysis A: General</i> , 2007, 320, 166-172. | 4.3 | 182 |
| 15 | Fabrication and Size-Selective Bioseparation of Magnetic Silica Nanospheres with Highly Ordered Periodic Mesostructure. <i>Advanced Functional Materials</i> , 2008, 18, 3203-3212. | 14.9 | 179 |
| 16 | Amine-modified mesocellular silica foams for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2011, 168, 918-924. | 12.7 | 170 |
| 17 | Superior capacitive performance of active carbons derived from <i>Enteromorpha prolifera</i> . <i>Electrochimica Acta</i> , 2014, 133, 459-466. | 5.2 | 162 |
| 18 | Recent Advances in the Preparation and Utilization of Carbon Nanotubes for Hydrogen Storage. <i>Journal of Nanoscience and Nanotechnology</i> , 2001, 1, 7-29. | 0.9 | 160 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Lithiation-Induced Vacancy Engineering of Co ₃ O ₄ with Improved Faradic Reactivity for High-Performance Supercapacitor. <i>Advanced Functional Materials</i> , 2020, 30, 2004172. | 14.9 | 156 |
| 20 | Aqueous dye adsorption on ordered mesoporous carbons. <i>Journal of Colloid and Interface Science</i> , 2007, 310, 83-89. | 9.4 | 154 |
| 21 | Porous carbons prepared by direct carbonization of MOFs for supercapacitors. <i>Applied Surface Science</i> , 2014, 308, 306-310. | 6.1 | 151 |
| 22 | High-rate capacitive performance of graphene aerogel with a superhigh C/O molar ratio. <i>Journal of Materials Chemistry</i> , 2012, 22, 23186. | 6.7 | 145 |
| 23 | Graphene oxide membranes with tunable permeability due to embedded carbon dots. <i>Chemical Communications</i> , 2014, 50, 13089-13092. | 4.1 | 145 |
| 24 | Anisotropic plasmonic nanostructures for colorimetric sensing. <i>Nano Today</i> , 2020, 32, 100855. | 11.9 | 143 |
| 25 | One-step solvothermal synthesis of hierarchically porous nanostructured CdS/TiO ₂ heterojunction with higher visible light photocatalytic activity. <i>Applied Surface Science</i> , 2013, 283, 402-410. | 6.1 | 133 |
| 26 | Synthesis of mesoporous alumina with highly thermal stability using glucose template in aqueous system. <i>Microporous and Mesoporous Materials</i> , 2006, 91, 293-295. | 4.4 | 132 |
| 27 | Boosting the bifunctional oxygen electrocatalytic performance of atomically dispersed Fe site via atomic Ni neighboring. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 119091. | 20.2 | 130 |
| 28 | Nanocrystalline zirconia as catalyst support in methanol synthesis. <i>Applied Catalysis A: General</i> , 2005, 279, 241-245. | 4.3 | 122 |
| 29 | Extremely enhanced CO ₂ uptake by HKUST-1 metal-organic framework via a simple chemical treatment. <i>Microporous and Mesoporous Materials</i> , 2014, 183, 69-73. | 4.4 | 122 |
| 30 | In situ one-step synthesis of Fe ₃ O ₄ @MIL-100(Fe) core-shells for adsorption of methylene blue from water. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 186-195. | 9.4 | 121 |
| 31 | Syngas Production by Methane Reforming with Carbon Dioxide on Noble Metal Catalysts. <i>Journal of Natural Gas Chemistry</i> , 2006, 15, 327-334. | 1.8 | 112 |
| 32 | Adsorption Mechanism of Oil by Resilient Graphene Aerogels from Oil-in-Water Emulsion. <i>Langmuir</i> , 2018, 34, 1890-1898. | 3.5 | 110 |
| 33 | Study on the photocatalysis of F-S co-doped TiO ₂ prepared using solvothermal method. <i>Applied Catalysis B: Environmental</i> , 2010, 96, 458-465. | 20.2 | 108 |
| 34 | Enhanced visible-light activity of F-N co-doped TiO ₂ nanocrystals via nonmetal impurity, Ti ³⁺ ions and oxygen vacancies. <i>Applied Surface Science</i> , 2013, 287, 135-142. | 6.1 | 106 |
| 35 | Diffusion and catalyst efficiency in hierarchical zeolite catalysts. <i>National Science Review</i> , 2020, 7, 1726-1742. | 9.5 | 104 |
| 36 | Electrostatic Self-Assembly of Sandwich-Like CoAl-LDH/Polypyrrole/Graphene Nanocomposites with Enhanced Capacitive Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31699-31709. | 8.0 | 103 |

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|----|---|------|-----------|
| 37 | Flexible carbon nanofiber film with diatomic Fe-Co sites for efficient oxygen reduction and evolution reactions in wearable zinc-air batteries. <i>Nano Energy</i> , 2021, 87, 106147. | 16.0 | 103 |
| 38 | Sustainable and hierarchical porous <i>Enteromorpha prolifera</i> based carbon for CO ₂ capture. <i>Journal of Hazardous Materials</i> , 2012, 229-230, 183-191. | 12.4 | 102 |
| 39 | Adsorption and Catalytic Activation of O ₂ Molecule on the Surface of Au-Doped Graphene under an External Electric Field. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19918-19924. | 3.1 | 99 |
| 40 | Hyper-Branched Cu@Cu ₂ O Coaxial Nanowires Mesh Electrode for Ultra-Sensitive Glucose Detection.. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16802-16812. | 8.0 | 99 |
| 41 | In-situ ion-activated carbon nanospheres with tunable ultramicroporosity for superior CO ₂ capture. <i>Carbon</i> , 2019, 143, 531-541. | 10.3 | 96 |
| 42 | The fabrication of porous N-doped carbon from widely available urea formaldehyde resin for carbon dioxide adsorption. <i>Journal of Colloid and Interface Science</i> , 2014, 416, 124-132. | 9.4 | 95 |
| 43 | Carbon-encapsulated CoSe nanoparticles derived from metal-organic frameworks as advanced cathode material for Al-ion battery. <i>Journal of Power Sources</i> , 2018, 401, 6-12. | 7.8 | 94 |
| 44 | Synthesis and Structure Characterization of Chromium Oxide Prepared by Solid Thermal Decomposition Reaction. <i>Journal of Physical Chemistry B</i> , 2006, 110, 178-183. | 2.6 | 92 |
| 45 | Hierarchically ordered meso/macroporous γ -alumina for enhanced hydrodesulfurization performance. <i>Microporous and Mesoporous Materials</i> , 2012, 158, 1-6. | 4.4 | 89 |
| 46 | Hydrophobic Functional Group Initiated Helical Mesostructured Silica for Controlled Drug Release. <i>Advanced Functional Materials</i> , 2008, 18, 3834-3842. | 14.9 | 85 |
| 47 | Fluid catalytic cracking technology: current status and recent discoveries on catalyst contamination. <i>Catalysis Reviews - Science and Engineering</i> , 2019, 61, 333-405. | 12.9 | 84 |
| 48 | Au@Ag core/shell nanoparticles as colorimetric probes for cyanide sensing. <i>Nanoscale</i> , 2014, 6, 9939-9943. | 5.6 | 83 |
| 49 | Magnetic metal-organic framework composites for environmental monitoring and remediation. <i>Coordination Chemistry Reviews</i> , 2020, 413, 213261. | 18.8 | 82 |
| 50 | Low-temperature solvothermal synthesis of visible-light-responsive S-doped TiO ₂ nanocrystal. <i>Applied Surface Science</i> , 2012, 258, 4016-4022. | 6.1 | 81 |
| 51 | Hierarchical peony-like FeCo-NC with conductive network and highly active sites as efficient electrocatalyst for rechargeable Zn-air battery. <i>Nano Research</i> , 2020, 13, 1090-1099. | 10.4 | 77 |
| 52 | CO ₂ adsorption on Santa Barbara Amorphous-15 (SBA-15) and amine-modified Santa Barbara Amorphous-15 (SBA-15) with and without controlled microporosity. <i>Journal of Colloid and Interface Science</i> , 2013, 390, 217-224. | 9.4 | 74 |
| 53 | Dispersion of nickel nanoparticles in the cages of metal-organic framework: An efficient sorbent for adsorptive removal of thiophene. <i>Chemical Engineering Journal</i> , 2017, 315, 469-480. | 12.7 | 74 |
| 54 | Preparation and Characterization of γ -Al ₂ O ₃ with Rich Brønsted Acid Sites and Its Application in the Fluid Catalytic Cracking Process. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6226-6234. | 3.1 | 72 |

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|----|---|------|-----------|
| 55 | Oxygen-containing functional group-facilitated CO ₂ capture by carbide-derived carbons. <i>Nanoscale Research Letters</i> , 2014, 9, 189. | 5.7 | 72 |
| 56 | Orthogonal synthesis, structural characteristics, and enhanced visible-light photocatalysis of mesoporous Fe ₂ O ₃ /TiO ₂ heterostructured microspheres. <i>Applied Surface Science</i> , 2014, 311, 314-323. | 6.1 | 69 |
| 57 | Nitrogen and Sulfur Co-Doped Graphene Nanosheets to Improve Anode Materials for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37172-37180. | 8.0 | 69 |
| 58 | Facile route to prepare bimodal mesoporous γ -Al ₂ O ₃ as support for highly active CoMo-based hydrodesulfurization catalyst. <i>Applied Catalysis B: Environmental</i> , 2012, 121-122, 50-56. | 20.2 | 68 |
| 59 | Degradation of organic dye by pulsed discharge non-thermal plasma technology assisted with modified activated carbon fibers. <i>Chemical Engineering Journal</i> , 2013, 215-216, 969-978. | 12.7 | 68 |
| 60 | Superhigh-rate capacitive performance of heteroatoms-doped double shell hollow carbon spheres. <i>Carbon</i> , 2015, 86, 235-244. | 10.3 | 68 |
| 61 | Epitaxial growth of hyperbranched Cu/Cu ₂ O/CuO core-shell nanowire heterostructures for lithium-ion batteries. <i>Nano Research</i> , 2015, 8, 2763-2776. | 10.4 | 68 |
| 62 | Low-temperature synthesis of alkalis doped TiO ₂ photocatalysts and their photocatalytic performance for degradation of methyl orange. <i>Journal of Alloys and Compounds</i> , 2013, 580, 15-22. | 5.5 | 67 |
| 63 | Carbon dots functionalized by organosilane with double-sided anchoring for nanomolar Hg ²⁺ detection. <i>Journal of Colloid and Interface Science</i> , 2015, 437, 28-34. | 9.4 | 67 |
| 64 | Relationship between Surface Chemistry and Catalytic Performance of Mesoporous γ -Al ₂ O ₃ Supported VO _x Catalyst in Catalytic Dehydrogenation of Propane. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25979-25990. | 8.0 | 67 |
| 65 | Insight of synergistic effect of different active metal ions in layered double hydroxides on their electrochemical behaviors. <i>Electrochimica Acta</i> , 2017, 253, 302-310. | 5.2 | 67 |
| 66 | Copolymer-Controlled Homogeneous Precipitation for the Synthesis of Porous Microfibers of Alumina. <i>Langmuir</i> , 2007, 23, 4599-4605. | 3.5 | 66 |
| 67 | Catalytic ammonia decomposition over CMK-3 supported Ru catalysts: Effects of surface treatments of supports. <i>Carbon</i> , 2007, 45, 11-20. | 10.3 | 66 |
| 68 | Direct Synthesis of Water-Dispersible Magnetic/Plasmonic Heteronanostructures for Multimodality Biomedical Imaging. <i>Nano Letters</i> , 2019, 19, 3011-3018. | 9.1 | 66 |
| 69 | A colorimetric agarose gel for formaldehyde measurement based on nanotechnology involving Tollens reaction. <i>Chemical Communications</i> , 2014, 50, 8121-8123. | 4.1 | 65 |
| 70 | On the origin of the high capacitance of carbon derived from seaweed with an apparently low surface area. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18998-19004. | 10.3 | 65 |
| 71 | A review of the direct oxidation of methane to methanol. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1206-1215. | 14.0 | 65 |
| 72 | Tetragonal nanocrystalline zirconia powder with high surface area and mesoporous structure. <i>Powder Technology</i> , 2006, 168, 59-63. | 4.2 | 64 |

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|----|--|------|-----------|
| 73 | Key parameters in hydrothermal synthesis and characterization of low silicon content SAPO-34 molecular sieve. <i>Microporous and Mesoporous Materials</i> , 2009, 126, 1-7. | 4.4 | 63 |
| 74 | Microwave- and conventional-hydrothermal synthesis of CuS, SnS and ZnS: Optical properties. <i>Ceramics International</i> , 2013, 39, 4757-4763. | 4.8 | 63 |
| 75 | Sandwich-like graphene/polypyrrole/layered double hydroxide nanowires for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2016, 331, 67-75. | 7.8 | 62 |
| 76 | Ammonia assisted functionalization of cuprous oxide within confined spaces of SBA-15 for adsorptive desulfurization. <i>Chemical Engineering Journal</i> , 2018, 339, 557-565. | 12.7 | 62 |
| 77 | Hierarchical branched Cu ₂ O nanowires with enhanced photocatalytic activity and stability for H ₂ production. <i>Nanoscale</i> , 2014, 6, 195-198. | 5.6 | 61 |
| 78 | Gold nanoparticles supported on mesoporous silica: origin of high activity and role of Au NPs in selective oxidation of cyclohexane. <i>Scientific Reports</i> , 2016, 6, 18817. | 3.3 | 61 |
| 79 | Formation of PdO on Au-Pd bimetallic catalysts and the effect on benzyl alcohol oxidation. <i>Journal of Catalysis</i> , 2019, 375, 32-43. | 6.2 | 60 |
| 80 | Catalytic Ammonia Decomposition over Industrial-Waste-Supported Ru Catalysts. <i>Environmental Science & Technology</i> , 2007, 41, 3758-3762. | 10.0 | 58 |
| 81 | CO ₂ /CH ₄ Reforming over Nickel Catalysts Supported on Mesoporous Nanocrystalline Zirconia with High Surface Area. <i>Energy & Fuels</i> , 2007, 21, 581-589. | 5.1 | 58 |
| 82 | New strategy to prepare ultramicroporous carbon by ionic activation for superior CO ₂ capture. <i>Chemical Engineering Journal</i> , 2018, 337, 290-299. | 12.7 | 58 |
| 83 | Metal and acid sites instantaneously prepared over Ni/SAPO-11 bifunctional catalyst. <i>Journal of Catalysis</i> , 2019, 374, 208-216. | 6.2 | 58 |
| 84 | Highly stable phosphine modified VO _x /Al ₂ O ₃ catalyst in propane dehydrogenation. <i>Applied Catalysis B: Environmental</i> , 2020, 274, 119089. | 20.2 | 57 |
| 85 | Self-Assembly of Clewlike ZnO Superstructures in the Presence of Copolymer. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9729-9733. | 3.1 | 56 |
| 86 | Effects of K ₂ O Promoter on the Activity and Stability of Nickel Catalysts Supported on Mesoporous Nanocrystalline Zirconia in CH ₄ Reforming with CO ₂ . <i>Energy & Fuels</i> , 2008, 22, 2195-2202. | 5.1 | 56 |
| 87 | Simultaneous removal of NO _x and soot particulates over La _{0.7} Ag _{0.3} MnO ₃ perovskite oxide catalysts. <i>Catalysis Today</i> , 2010, 158, 423-426. | 4.4 | 56 |
| 88 | Excellent Capacitive Performance of a Three-Dimensional Hierarchical Porous Graphene/Carbon Composite with a Superhigh Surface Area. <i>Chemistry - A European Journal</i> , 2014, 20, 13314-13320. | 3.3 | 56 |
| 89 | Insight into high areal capacitances of low apparent surface area carbons derived from nitrogen-rich polymers. <i>Carbon</i> , 2015, 94, 560-567. | 10.3 | 56 |
| 90 | Cation-anion double hydrolysis derived mesoporous β -Al ₂ O ₃ as an environmentally friendly and efficient aldol reaction catalyst. <i>Journal of Materials Chemistry</i> , 2009, 19, 1554. | 6.7 | 55 |

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|-----|---|------|-----------|
| 91 | Facile synthesis of thermally stable mesoporous crystalline alumina by using a novel cation-anion double hydrolysis method. <i>Materials Letters</i> , 2005, 59, 3128-3131. | 2.6 | 54 |
| 92 | Ordered mesoporous carbon/Nafion as a versatile and selective solid-phase microextraction coating. <i>Journal of Chromatography A</i> , 2014, 1365, 29-34. | 3.7 | 54 |
| 93 | Sandwich-like nitrogen-doped porous carbon/graphene nanoflakes with high-rate capacitive performance. <i>Nanoscale</i> , 2016, 8, 7889-7898. | 5.6 | 54 |
| 94 | Remarkable supercapacitor performance of petal-like LDHs vertically grown on graphene/polypyrrole nanoflakes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8964-8971. | 10.3 | 53 |
| 95 | Oriented ZnO nanorods grown on a porous polyaniline film as a novel coating for solid-phase microextraction. <i>Journal of Chromatography A</i> , 2013, 1319, 21-26. | 3.7 | 52 |
| 96 | Evolution and impact of acidic oxygen functional groups on activated carbon fiber cloth during NO oxidation. <i>Carbon</i> , 2013, 54, 444-453. | 10.3 | 50 |
| 97 | Phosphorus-modified b-axis oriented hierarchical ZSM-5 zeolites for enhancing catalytic performance in a methanol to propylene reaction. <i>Applied Catalysis A: General</i> , 2020, 594, 117464. | 4.3 | 49 |
| 98 | In situ FT-IR study of CO and H ₂ adsorption on a Pt/Al ₂ O ₃ catalyst. <i>Catalysis Today</i> , 2001, 68, 155-160. | 4.4 | 48 |
| 99 | Optimizing the sol-gel parameters on the synthesis of mesostructure nanocrystalline γ -Al ₂ O ₃ . <i>Microporous and Mesoporous Materials</i> , 2009, 122, 72-78. | 4.4 | 48 |
| 100 | A convenient colorimetric method for sensitive and specific detection of cyanide using Ag@Au core-shell nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2016, 228, 366-372. | 7.8 | 48 |
| 101 | Boosting the performance of hybrid supercapacitors through redox electrolyte-mediated capacity balancing. <i>Nano Energy</i> , 2020, 68, 104226. | 16.0 | 48 |
| 102 | Mesoporous nanocrystalline zirconia powders: A promising support for nickel catalyst in CH ₄ reforming with CO ₂ . <i>Materials Letters</i> , 2007, 61, 2628-2631. | 2.6 | 46 |
| 103 | A colorimetric assay for measuring iodide using Au@Ag core-shell nanoparticles coupled with Cu ²⁺ . <i>Analytica Chimica Acta</i> , 2015, 891, 269-276. | 5.4 | 46 |
| 104 | Metal-acid balance in the in-situ solid synthesized Ni/SAPO-11 catalyst for n-hexane hydroisomerization. <i>Fuel</i> , 2019, 243, 398-405. | 6.4 | 46 |
| 105 | Hydro-liquefaction of microcrystalline cellulose, xylan and industrial lignin in different supercritical solvents. <i>Bioresource Technology</i> , 2016, 219, 281-288. | 9.6 | 45 |
| 106 | Nanocrystalline Zirconia as Support for Nickel Catalyst in Methane Reforming with CO ₂ . <i>Energy & Fuels</i> , 2006, 20, 923-929. | 5.1 | 44 |
| 107 | Low-temperature Synthesis of Visible-Light Active Fluorine/Sulfur Co-doped Mesoporous TiO ₂ Microspheres. <i>Chemistry - A European Journal</i> , 2011, 17, 1096-1100. | 3.3 | 44 |
| 108 | Nitric oxide oxidation catalyzed by microporous activated carbon fiber cloth: An updated reaction mechanism. <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 573-581. | 20.2 | 44 |

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|-----|--|------|-----------|
| 109 | Ultrasml NiFe layered double hydroxide strongly coupled on atomically dispersed FeCo-NC nanoflowers as efficient bifunctional catalyst for rechargeable Zn-air battery. <i>Science China Materials</i> , 2020, 63, 1182-1195. | 6.3 | 44 |
| 110 | A rechargeable 6-electron Al ³⁺ /Se battery with high energy density. <i>Energy Storage Materials</i> , 2021, 41, 667-676. | 18.0 | 44 |
| 111 | Fabrication of Copper Nanowire Encapsulated in the Pore Channels of SBA-15 by Metal Organic Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12536-12541. | 3.1 | 42 |
| 112 | Soft synthesis of single-crystal coppernanowires of various scales. <i>New Journal of Chemistry</i> , 2012, 36, 130-138. | 2.8 | 42 |
| 113 | Effects of synthetic conditions on the textural structure of pseudo-boehmite. <i>Journal of Colloid and Interface Science</i> , 2016, 469, 1-7. | 9.4 | 42 |
| 114 | Pore confinement effect of MoO ₃ /Al ₂ O ₃ catalyst for deep hydrodesulfurization. <i>Chemical Engineering Journal</i> , 2017, 330, 706-717. | 12.7 | 42 |
| 115 | Confinement of mesopores within ZSM-5 and functionalization with Ni NPs for deep desulfurization. <i>Chemical Engineering Journal</i> , 2018, 354, 706-715. | 12.7 | 42 |
| 116 | Enhanced desulfurization characteristics of Cu-KIT-6 for thiophene. <i>Microporous and Mesoporous Materials</i> , 2014, 199, 108-116. | 4.4 | 41 |
| 117 | Facile fabrication of Ni-based KIT-6 for adsorptive desulfurization. <i>Chemical Engineering Journal</i> , 2016, 302, 239-248. | 12.7 | 41 |
| 118 | Preparation and application of mesoporous Fe/carbon composites as a drug carrier. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 678-684. | 4.4 | 40 |
| 119 | A reverse cation-anion double hydrolysis approach to the synthesis of mesoporous γ -Al ₂ O ₃ with a bimodal pore size distribution. <i>Microporous and Mesoporous Materials</i> , 2009, 118, 288-295. | 4.4 | 40 |
| 120 | Efficient CO ₂ capture on low-cost silica gel modified by polyethyleneimine. <i>Journal of Natural Gas Chemistry</i> , 2012, 21, 319-323. | 1.8 | 40 |
| 121 | Self-assembly of double helical nanostructures inside carbon nanotubes. <i>Nanoscale</i> , 2013, 5, 4191. | 5.6 | 40 |
| 122 | Facile preparation of Cu ²⁺ /Cu ₂ O nanoporous nanoparticles as a potential catalyst for non-enzymatic glucose sensing. <i>RSC Advances</i> , 2013, 3, 2178. | 3.6 | 40 |
| 123 | Highly dispersive lanthanum oxide fabricated in confined space of SBA-15 for adsorptive desulfurization. <i>Chemical Engineering Journal</i> , 2020, 384, 123271. | 12.7 | 40 |
| 124 | Multi-Arch-Structured All-Carbon Aerogels with Superelasticity and High Fatigue Resistance as Wearable Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16822-16830. | 8.0 | 40 |
| 125 | Copper@carbon coaxial nanowires synthesized by hydrothermal carbonization process from electroplating wastewater and their use as an enzyme-free glucose sensor. <i>Analyst</i> , 2013, 138, 559-568. | 3.5 | 39 |
| 126 | Room temperature hydrogen sensor with ultrahigh-responsive characteristics based on Pd/SnO ₂ /SiO ₂ /Si heterojunctions. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 438-447. | 7.8 | 39 |

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|-----|---|------|-----------|
| 127 | Effect of ethanol on the surface properties and n-heptane isomerization performance of Ni/SAPO-11. <i>Applied Surface Science</i> , 2017, 401, 57-64. | 6.1 | 39 |
| 128 | Structure and performance of Cu/ZrO ₂ catalyst For the synthesis of methanol from CO ₂ hydrogenation. <i>Journal of Fuel Chemistry and Technology</i> , 2010, 38, 462-467. | 2.0 | 38 |
| 129 | A novel bottom-up solvothermal synthesis of carbon nanosheets. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2390. | 10.3 | 38 |
| 130 | Size regulation and dispersion of ceria using confined spaces for adsorptive desulfurization. <i>Chemical Engineering Journal</i> , 2018, 348, 319-326. | 12.7 | 38 |
| 131 | Unusual Pd nanoparticle dispersion in microenvironment for p-nitrophenol and methylene blue catalytic reduction. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 37-46. | 9.4 | 38 |
| 132 | Outstanding capacitive performance of ordered mesoporous carbon modified by anthraquinone. <i>Electrochimica Acta</i> , 2018, 259, 110-121. | 5.2 | 37 |
| 133 | Two-stage glucose-assisted crystallization of ZSM-5 to improve methanol to propylene (MTP). <i>Microporous and Mesoporous Materials</i> , 2018, 270, 57-66. | 4.4 | 37 |
| 134 | Polycyclic Aromatic Hydrocarbons as a New Class of Promising Cathode Materials for Aluminum-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202114681. | 13.8 | 37 |
| 135 | Rapid and large-scale synthesis of Cu nanowires via a continuous flow solvothermal process and its application in dye-sensitized solar cells (DSSCs). <i>RSC Advances</i> , 2012, 2, 11544. | 3.6 | 35 |
| 136 | Excellent membranes for hydrogen purification: Dumbbell-shaped porous β -graphynes. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5168-5176. | 7.1 | 35 |
| 137 | Study of coke deposited on a VO _x -K ₂ O/ β -Al ₂ O ₃ catalyst in the non-oxidative dehydrogenation of isobutane. <i>Applied Catalysis A: General</i> , 2017, 545, 1-9. | 4.3 | 35 |
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| 421 | Copolymer Assisted Self-Assembly of Nanoporous Mixed Oxides for Reactive Adsorption Desulfurization. <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 931-937. | 0.4 | 0 |