

Sheng Dai

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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.

657
papers

25,909
citations

76
h-index

134
g-index

706
ext. papers

31,959
ext. citations

9.2
avg, IF

7.73
L-index

#	Paper	IF	Citations
657	Metal-organic framework derived hybrid Co ₃ O ₄ -carbon porous nanowire arrays as reversible oxygen evolution electrodes. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13925-31	16.4	1512
656	Water desalination using nanoporous single-layer graphene. <i>Nature Nanotechnology</i> , 2015 , 10, 459-64	28.7	1089
655	Phosphorus-doped graphitic carbon nitrides grown in situ on carbon-fiber paper: flexible and reversible oxygen electrodes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4646-50	16.4	654
654	Graphitic carbon nitride nanosheet-carbon nanotube three-dimensional porous composites as high-performance oxygen evolution electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7281-5	16.4	651
653	Graphene oxide-polydopamine derived N, S-codoped carbon nanosheets as superior bifunctional electrocatalysts for oxygen reduction and evolution. <i>Nano Energy</i> , 2016 , 19, 373-381	17.1	499
652	pH-Responsive polymers: synthesis, properties and applications. <i>Soft Matter</i> , 2008 , 4, 435-449	3.6	499
651	Proton-functionalized two-dimensional graphitic carbon nitride nanosheet: an excellent metal-/label-free biosensing platform. <i>Small</i> , 2014 , 10, 2382-9	11	359
650	Materials for the Recovery of Uranium from Seawater. <i>Chemical Reviews</i> , 2017 , 117, 13935-14013	68.1	358
649	Catalyst Architecture for Stable Single Atom Dispersion Enables Site-Specific Spectroscopic and Reactivity Measurements of CO Adsorbed to Pt Atoms, Oxidized Pt Clusters, and Metallic Pt Clusters on TiO ₂ . <i>Journal of the American Chemical Society</i> , 2017 , 139, 14150-14165	16.4	333
648	A facile synthesis of monodisperse Au nanoparticles and their catalysis of CO oxidation. <i>Nano Research</i> , 2008 , 1, 229-234	10	332
647	Ionic liquids and derived materials for lithium and sodium batteries. <i>Chemical Society Reviews</i> , 2018 , 47, 2020-2064	58.5	297
646	Promotion of Electrocatalytic Hydrogen Evolution Reaction on Nitrogen-Doped Carbon Nanosheets with Secondary Heteroatoms. <i>ACS Nano</i> , 2017 , 11, 7293-7300	16.7	271
645	Shape Control of Mn ₃ O ₄ Nanoparticles on Nitrogen-Doped Graphene for Enhanced Oxygen Reduction Activity. <i>Advanced Functional Materials</i> , 2014 , 24, 2072-2078	15.6	261
644	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , 2019 , 2, 495-503	36.5	258
643	Polydopamine-Inspired, Dual Heteroatom-Doped Carbon Nanotubes for Highly Efficient Overall Water Splitting. <i>Advanced Energy Materials</i> , 2017 , 7, 1602068	21.8	256
642	Structural evolution of atomically dispersed Pt catalysts dictates reactivity. <i>Nature Materials</i> , 2019 , 18, 746-751	27	250
641	Self-supported electrocatalysts for advanced energy conversion processes. <i>Materials Today</i> , 2016 , 19, 265-273	21.8	212

640	Multi-Molar Absorption of CO ₂ by the Activation of Carboxylate Groups in Amino Acid Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7166-70	16.4	212
639	Mechanochemical-Assisted Synthesis of High-Entropy Metal Nitride via a Soft Urea Strategy. <i>Advanced Materials</i> , 2018 , 30, e1707512	24	196
638	Mesoporous MnCo ₂ O ₄ with abundant oxygen vacancy defects as high-performance oxygen reduction catalysts. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8676-8682	13	196
637	Defect-Tailoring Mediated Electron-Hole Separation in Single-Unit-Cell Bi O Br Nanosheets for Boosting Photocatalytic Hydrogen Evolution and Nitrogen Fixation. <i>Advanced Materials</i> , 2019 , 31, e1807516	24	188
636	Developing functionalized dendrimer-like silica nanoparticles with hierarchical pores as advanced delivery nanocarriers. <i>Advanced Materials</i> , 2013 , 25, 5981-5	24	173
635	A Sacrificial Coating Strategy Toward Enhancement of Metal-Support Interaction for Ultrastable Au Nanocatalysts. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16130-16139	16.4	170
634	In Situ Doping Strategy for the Preparation of Conjugated Triazine Frameworks Displaying Efficient CO ₂ Capture Performance. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11497-500	16.4	169
633	Dynamical Observation and Detailed Description of Catalysts under Strong Metal-Support Interaction. <i>Nano Letters</i> , 2016 , 16, 4528-34	11.5	160
632	Hydrate morphology: Physical properties of sands with patchy hydrate saturation. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		159
631	Rational Design of Bi Nanoparticles for Efficient Electrochemical CO ₂ Reduction: The Elucidation of Size and Surface Condition Effects. <i>ACS Catalysis</i> , 2016 , 6, 6255-6264	13.1	152
630	Hydrophobic Solid Acids and Their Catalytic Applications in Green and Sustainable Chemistry. <i>ACS Catalysis</i> , 2018 , 8, 372-391	13.1	138
629	In Situ Coupling Strategy for the Preparation of FeCo Alloys and Co N Hybrid for Highly Efficient Oxygen Evolution. <i>Advanced Materials</i> , 2017 , 29, 1704091	24	136
628	Solvent-Free Self-Assembly to the Synthesis of Nitrogen-Doped Ordered Mesoporous Polymers for Highly Selective Capture and Conversion of CO. <i>Advanced Materials</i> , 2017 , 29, 1700445	24	135
627	Synthesis of Porous Polymeric Catalysts for the Conversion of Carbon Dioxide. <i>ACS Catalysis</i> , 2018 , 8, 9079-9102	13.1	135
626	Crystal Structural Effect of AuCu Alloy Nanoparticles on Catalytic CO Oxidation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8846-8854	16.4	125
625	Quantitative and Atomic-Scale View of CO-Induced Pt Nanoparticle Surface Reconstruction at Saturation Coverage via DFT Calculations Coupled with in Situ TEM and IR. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4551-4558	16.4	124
624	Efficient CO ₂ Capture by a 3D Porous Polymer Derived from Triazine Base. <i>ACS Macro Letters</i> , 2013 , 2, 660-663	6.6	124
623	Entropy-stabilized metal oxide solid solutions as CO oxidation catalysts with high-temperature stability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11129-11133	13	122

622	Isothermal Titration Calorimetry Studies of Binding Interactions between Polyethylene Glycol and Ionic Surfactants. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10759-10763	3.4	122
621	Polymeric molecular sieve membranes via in situ cross-linking of non-porous polymer membrane templates. <i>Nature Communications</i> , 2014 , 5, 3705	17.4	118
620	Hierarchical Mesoporous/Macroporous Perovskite La _{0.5} Sr _{0.5} CoO _{3-x} Nanotubes: A Bifunctional Catalyst with Enhanced Activity and Cycle Stability for Rechargeable Lithium Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22478-86	9.5	114
619	Taming the stability of Pd active phases through a compartmentalizing strategy toward nanostructured catalyst supports. <i>Nature Communications</i> , 2019 , 10, 1611	17.4	112
618	The strategies for improving carbon dioxide chemisorption by functionalized ionic liquids. <i>RSC Advances</i> , 2013 , 3, 15518	3.7	108
617	The aggregation behavior of O-carboxymethylchitosan in dilute aqueous solution. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 43, 143-9	6	106
616	Organic wastewater treatment by a single-atom catalyst and electrolytically produced HO. <i>Nature Sustainability</i> , 2021 , 4, 233-241	22.1	105
615	Activating natural bentonite as a cost-effective adsorbent for removal of Congo-red in wastewater. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 653-661	6.3	102
614	Surfactant-Assisted Stabilization of Au Colloids on Solids for Heterogeneous Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4494-4498	16.4	101
613	Tuning the Basicity of Ionic Liquids for Equimolar CO ₂ Capture. <i>Angewandte Chemie</i> , 2011 , 123, 5020-5024	3.6	99
612	Polydopamine-graphene oxide derived mesoporous carbon nanosheets for enhanced oxygen reduction. <i>Nanoscale</i> , 2015 , 7, 12598-605	7.7	96
611	Novel pH-Responsive Amphiphilic Diblock Copolymers with Reversible Micellization Properties. <i>Langmuir</i> , 2003 , 19, 5175-5177	4	95
610	Mechanochemical synthesis of metal-organic frameworks. <i>Polyhedron</i> , 2019 , 162, 59-64	2.7	94
609	Synthesis of Nitrogen-Doped Mesoporous Carbon Spheres with Extra-Large Pores through Assembly of Diblock Copolymer Micelles. <i>Angewandte Chemie</i> , 2015 , 127, 598-603	3.6	94
608	Brick-and-Mortar Self-Assembly Approach to Graphitic Mesoporous Carbon Nanocomposites. <i>Advanced Functional Materials</i> , 2011 , 21, 2208-2215	15.6	93
607	High-Entropy Perovskite Fluorides: A New Platform for Oxygen Evolution Catalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4550-4554	16.4	92
606	Microbial community and bioelectrochemical activities in MFC for degrading phenol and producing electricity: Microbial consortia could make differences. <i>Chemical Engineering Journal</i> , 2018 , 332, 647-657	14.7	91
605	Aggregation Behavior of C ₆₀ -End-Capped Poly(ethylene oxide)s. <i>Langmuir</i> , 2003 , 19, 4798-4803	4	91

604	Space-Confined Polymerization: Controlled Fabrication of Nitrogen-Doped Polymer and Carbon Microspheres with Refined Hierarchical Architectures. <i>Advanced Materials</i> , 2019 , 31, e1807876	24	90
603	Silica-Supported AuCuOx Hybrid Nanocrystals as Active and Selective Catalysts for the Formation of Acetaldehyde from the Oxidation of Ethanol. <i>ACS Catalysis</i> , 2012 , 2, 2537-2546	13.1	90
602	Uniformity Is Key in Defining Structure-Function Relationships for Atomically Dispersed Metal Catalysts: The Case of Pt/CeO. <i>Journal of the American Chemical Society</i> , 2020 , 142, 169-184	16.4	90
601	Electrode material-ionic liquid coupling for electrochemical energy storage. <i>Nature Reviews Materials</i> , 2020 , 5, 787-808	73.3	89
600	Nitrogen-Doped CNx/CNTs Heteroelectrocatalysts for Highly Efficient Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602276	21.8	88
599	Uniform Pt/Pd Bimetallic Nanocrystals Demonstrate Platinum Effect on Palladium Methane Combustion Activity and Stability. <i>ACS Catalysis</i> , 2017 , 7, 4372-4380	13.1	87
598	Boric acid-based ternary deep eutectic solvent for extraction and oxidative desulfurization of diesel fuel. <i>Green Chemistry</i> , 2019 , 21, 3074-3080	10	87
597	Preorganization and Cooperation for Highly Efficient and Reversible Capture of Low-Concentration CO by Ionic Liquids. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13293-13297	16.4	87
596	Isothermal titration calorimetric studies on the temperature dependence of binding interactions between poly(propylene glycol)s and sodium dodecyl sulfate. <i>Langmuir</i> , 2004 , 20, 2177-83	4	87
595	Efficient removal of organic dye pollutants using covalent organic frameworks. <i>AIChE Journal</i> , 2017 , 63, 3470-3478	3.6	86
594	Synthesis of silica supported AuCu nanoparticle catalysts and the effects of pretreatment conditions for the CO oxidation reaction. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2571-81	3.6	85
593	Ion-Gated Gas Separation through Porous Graphene. <i>Nano Letters</i> , 2017 , 17, 1802-1807	11.5	84
592	Lanthanide-containing polymer microspheres by multiple-stage dispersion polymerization for highly multiplexed bioassays. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15276-83	16.4	83
591	A Novel Electrolyte Salt Additive for Lithium-Ion Batteries with Voltages Greater than 4.7 V. <i>Advanced Energy Materials</i> , 2017 , 7, 1601397	21.8	82
590	Isothermal Titration Calorimetric Studies on Interactions of Ionic Surfactant and Poly(oxypropylene)Poly(oxyethylene)Poly(oxypropylene) Triblock Copolymers in Aqueous Solutions. <i>Macromolecules</i> , 2001 , 34, 7049-7055	5.5	81
589	Confining Noble Metal (Pd, Au, Pt) Nanoparticles in Surfactant Ionic Liquids: Active Non-Mercury Catalysts for Hydrochlorination of Acetylene. <i>ACS Catalysis</i> , 2015 , 5, 6724-6731	13.1	80
588	Mesoporous Carbon Nanospheres as a Multifunctional Carrier for Cancer Theranostics. <i>Theranostics</i> , 2018 , 8, 663-675	12.1	80
587	Confined Ultrathin Pd-Ce Nanowires with Outstanding Moisture and SO Tolerance in Methane Combustion. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8953-8957	16.4	80

586	New Class of Type III Porous Liquids: A Promising Platform for Rational Adjustment of Gas Sorption Behavior. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32-36	9.5	79
585	Synergistic Effect of F Doping and LiF Coating on Improving the High-Voltage Cycling Stability and Rate Capacity of LiNiCoMnO Cathode Materials for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34153-34162	9.5	79
584	Platinum-trimer decorated cobalt-palladium core-shell nanocatalyst with promising performance for oxygen reduction reaction. <i>Nature Communications</i> , 2019 , 10, 440	17.4	76
583	Low-Temperature Fluorination of Soft-Templated Mesoporous Carbons for a High-Power Lithium/Carbon Fluoride Battery. <i>Chemistry of Materials</i> , 2011 , 23, 4420-4427	9.6	76
582	Polysaccharide surface modified Fe ₃ O ₄ nanoparticles for camptothecin loading and release. <i>Acta Biomaterialia</i> , 2009 , 5, 1489-98	10.8	76
581	Rapid gas-assisted exfoliation promises V ₂ O ₅ nanosheets for high performance lithium-sulfur batteries. <i>Nano Energy</i> , 2020 , 67, 104253	17.1	74
580	Low-Temperature CO Oxidation over a Ternary Oxide Catalyst with High Resistance to Hydrocarbon Inhibition. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13263-7	16.4	73
579	The water retention curve and relative permeability for gas production from hydrate-bearing sediments: pore-network model simulation. <i>Geochemistry, Geophysics, Geosystems</i> , 2016 , 17, 3099-3110	3.6	72
578	Smart Pd Catalyst with Improved Thermal Stability Supported on High-Surface-Area LaFeO Prepared by Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4841-4848	16.4	71
577	Enhancement on the wettability of lithium battery separator toward nonaqueous electrolytes. <i>Journal of Membrane Science</i> , 2016 , 503, 25-30	9.6	71
576	In situ atomic-scale observation of oxygen-driven core-shell formation in PtCo nanoparticles. <i>Nature Communications</i> , 2017 , 8, 204	17.4	71
575	Mechanochemical Synthesis of High Entropy Oxide Materials under Ambient Conditions: Dispersion of Catalysts via Entropy Maximization 2019 , 1, 83-88		70
574	Origin of the unusually strong and selective binding of vanadium by polyamidoximes in seawater. <i>Nature Communications</i> , 2017 , 8, 1560	17.4	70
573	Solvothermal synthesis of hierarchically nanoporous organic polymers with tunable nitrogen functionality for highly selective capture of CO ₂ . <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13063-13070 ¹³		69
572	Constructing Hierarchical Interfaces: TiO ₂ -Supported PtFe-FeO(x) Nanowires for Room Temperature CO Oxidation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10156-9	16.4	68
571	Efficient Absorption of SO ₂ by EmimCl-EG Deep Eutectic Solvents. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6382-6386	8.3	68
570	A galactosamine-mediated drug delivery carrier for targeted liver cancer therapy. <i>Pharmacological Research</i> , 2011 , 64, 410-9	10.2	68
569	Comparative UV-Vis Studies of Uranyl Chloride Complex in Two Basic Ambient-Temperature Melt Systems: The Observation of Spectral and Thermodynamic Variations Induced via Hydrogen Bonding. <i>Inorganic Chemistry</i> , 1997 , 36, 4900-4902	5.1	68

568	Porous Carbon Supports: Recent Advances with Various Morphologies and Compositions. <i>ChemCatChem</i> , 2015 , 7, 2788-2805	5.2	67
567	Exploring N-imidazolyl-O-carboxymethyl chitosan for high performance gene delivery. <i>Biomacromolecules</i> , 2012 , 13, 146-53	6.9	67
566	Entropy-stabilized single-atom Pd catalysts via high-entropy fluorite oxide supports. <i>Nature Communications</i> , 2020 , 11, 3908	17.4	64
565	Highly Efficient Carbon Monoxide Capture by Carbanion-Functionalized Ionic Liquids through C-Site Interactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6843-6847	16.4	63
564	Polypyrrole-Based Nitrogen-Doped Carbon Replicas of SBA-15 and SBA-16 Containing Magnetic Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13126-13133	3.8	63
563	High-entropy materials for catalysis: A new frontier. <i>Science Advances</i> , 2021 , 7,	14.3	63
562	Aggregation behavior of two-arm fullerene-containing poly(ethylene oxide). <i>Polymer</i> , 2003 , 44, 2529-2536	3.6	62
561	Entropy-Driven Mechanochemical Synthesis of Polymetallic Zeolitic Imidazolate Frameworks for CO Fixation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5018-5022	16.4	59
560	Mechanochemical synthesis of porous organic materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16118-16125	3.9	59
559	Synergistic effect of dual Brønsted acidic deep eutectic solvents for oxidative desulfurization of diesel fuel. <i>Chemical Engineering Journal</i> , 2020 , 394, 124831	14.7	58
558	Deep Understanding of Strong Metal Interface Confinement: A Journey of Pd/FeOx Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 8950-8959	13.1	58
557	Siderophore-inspired chelator hijacks uranium from aqueous medium. <i>Nature Communications</i> , 2019 , 10, 819	17.4	58
556	Two-Dimensional Materials as Prospective Scaffolds for Mixed-Matrix Membrane-Based CO Separation. <i>ChemSusChem</i> , 2017 , 10, 3304-3316	8.3	57
555	Windowed Carbon Nanotubes for Efficient CO ₂ Removal from Natural Gas. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3343-3347	6.4	57
554	Catalysts in Coronas: A Surface Spatial Confinement Strategy for High-Performance Catalysts in Methane Dry Reforming. <i>ACS Catalysis</i> , 2019 , 9, 9072-9080	13.1	56
553	Anisotropic and hierarchical SiC@SiO nanowire aerogel with exceptional stiffness and stability for thermal superinsulation. <i>Science Advances</i> , 2020 , 6, eaay6689	14.3	56
552	Enhanced Cycling Performance for Lithium-Sulfur Batteries by a Laminated 2D g-C ₃ N ₄ /Graphene Cathode Interlayer. <i>ChemSusChem</i> , 2019 , 12, 213-223	8.3	56
551	Electrochemically Driven Transformation of Amorphous Carbons to Crystalline Graphite Nanoflakes: A Facile and Mild Graphitization Method. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1751-1755	16.4	55

- 550 SO absorption in EmimCl-TEG deep eutectic solvents. *Physical Chemistry Chemical Physics*, **2018**, 20, 15168-15173
- 549 Distinctive Nanoscale Organization of Dicationic versus Monocationic Ionic Liquids. *Journal of Physical Chemistry C*, **2013**, 117, 18251-18257 3.8 55
- 548 Label-free dendrimer-like silica nano hybrids for traceable and controlled gene delivery. *Biomaterials*, **2014**, 35, 5580-90 15.6 54
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- 546 Functionalized thermo-responsive microgels for high performance forward osmosis desalination. *Water Research*, **2015**, 70, 385-93 12.5 53
- 545 Transformation Strategy for Highly Crystalline Covalent Triazine Frameworks: From Staggered AB to Eclipsed AA Stacking. *Journal of the American Chemical Society*, **2020**, 142, 6856-6860 16.4 53
- 544 Intracellular Microenvironment-Responsive Dendrimer-Like Mesoporous Nano hybrids for Traceable, Effective, and Safe Gene Delivery. *Advanced Functional Materials*, **2014**, 24, 7627-7637 15.6 53
- 543 Electron-beam-induced elastic-plastic transition in Si nanowires. *Nano Letters*, **2012**, 12, 2379-85 11.5 53
- 542 Benzyl-Functionalized Room Temperature Ionic Liquids for CO₂/N₂ Separation. *Industrial & Engineering Chemistry Research*, **2011**, 50, 14061-14069 3.9 53
- 541 Self-assembly behavior of a stimuli-responsive water-soluble [60]fullerene-containing polymer. *Langmuir*, **2004**, 20, 8569-75 4 53
- 540 One-step synthesis of nitrogen-doped graphene-like meso-macroporous carbons as highly efficient and selective adsorbents for CO₂ capture. *Journal of Materials Chemistry A*, **2016**, 4, 14567-14571 13 53
- 539 Porous liquid zeolites: hydrogen bonding-stabilized H-ZSM-5 in branched ionic liquids. *Nanoscale*, **2019**, 11, 1515-1519 7.7 52
- 538 Entropy-Maximized Synthesis of Multimetallic Nanoparticle Catalysts via a Ultrasonication-Assisted Wet Chemistry Method under Ambient Conditions. *Advanced Materials Interfaces*, **2019**, 6, 1900015 4.6 52
- 537 Holey Lamellar High-Entropy Oxide as an Ultra-High-Activity Heterogeneous Catalyst for Solvent-free Aerobic Oxidation of Benzyl Alcohol. *Angewandte Chemie - International Edition*, **2020**, 59, 19503-19509 16.4 52
- 536 Boron Supercapacitors. *ACS Energy Letters*, **2016**, 1, 1241-1246 20.1 52
- 535 Biomimetic three-dimensional microenvironment for controlling stem cell fate. *Interface Focus*, **2011**, 1, 792-803 3.9 52
- 534 Isothermal titration calorimetric studies of alkyl phenol ethoxylate surfactants in aqueous solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2003**, 229, 157-168 5.1 52
- 533 Functionalized Solvents for Selective Copper(II) Separation. *Environmental Science & Technology*, **2000**, 34, 2209-2214 10.3 52

532	Hollow mesoporous silica nanoparticles: A peculiar structure for thin film nanocomposite membranes. <i>Journal of Membrane Science</i> , 2016 , 519, 1-10	9.6	51
531	Solvent-Induced Self-Assembly Strategy to Synthesize Well-Defined Hierarchically Porous Polymers. <i>Advanced Materials</i> , 2019 , 31, e1806254	24	50
530	Self-Assembly of Alkali-Soluble [60]Fullerene Containing Poly(methacrylic acid) in Aqueous Solution. <i>Macromolecules</i> , 2005 , 38, 933-939	5.5	50
529	Transforming Porous Organic Cages into Porous Ionic Liquids via a Supramolecular Complexation Strategy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2268-2272	16.4	50
528	Revealing Surface Elemental Composition and Dynamic Processes Involved in Facet-Dependent Oxidation of PtCo Nanoparticles via in Situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2017 , 17, 4683-4688	11.5	49
527	Room-Temperature Synthesis of High-Entropy Perovskite Oxide Nanoparticle Catalysts through Ultrasonication-Based Method. <i>ChemSusChem</i> , 2020 , 13, 111-115	8.3	49
526	Tailoring N-Terminated Defective Edges of Porous Boron Nitride for Enhanced Aerobic Catalysis. <i>Small</i> , 2017 , 13, 1701857	11	48
525	Boosting electrosynthesis of ammonia on surface-engineered MXene Ti3C2. <i>Nano Energy</i> , 2020 , 72, 104681	11	48
524	Aromatic Polyimide/Graphene Composite Organic Cathodes for Fast and Sustainable Lithium-Ion Batteries. <i>ChemSusChem</i> , 2018 , 11, 763-772	8.3	48
523	Nitrogen-Enriched Carbons from Alkali Salts with High Coulombic Efficiency for Energy Storage Applications. <i>Advanced Energy Materials</i> , 2013 , 3, 708-712	21.8	48
522	Preparation of Well-Dispersed Superparamagnetic Iron Oxide Nanoparticles in Aqueous Solution with Biocompatible N-Succinyl-O-carboxymethylchitosan. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5432-5438	3.8	48
521	Facile Synthesis of Highly Porous Metal Oxides by Mechanochemical Nanocasting. <i>Chemistry of Materials</i> , 2018 , 30, 2924-2929	9.6	47
520	Rational design and synthesis of a porous, task-specific polycarbazole for efficient CO2 capture. <i>Chemical Communications</i> , 2016 , 52, 4454-7	5.8	47
519	Near-Infrared Active Lead Chalcogenide Quantum Dots: Preparation, Post-Synthesis Ligand Exchange, and Applications in Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5202-5224	16.4	47
518	Microengineered 3D cell-laden thermoresponsive hydrogels for mimicking cell morphology and orientation in cartilage tissue engineering. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 217-231	4.9	47
517	Self-assembly of stimuli-responsive water-soluble [60]fullerene end-capped ampholytic block copolymer. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4431-8	3.4	47
516	Microstructure of Dilute Hydrophobically Modified Alkali Soluble Emulsion in Aqueous Salt Solution. <i>Macromolecules</i> , 2000 , 33, 404-411	5.5	47
515	Aminopolymer functionalization of boron nitride nanosheets for highly efficient capture of carbon dioxide. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16241-16248	13	45

514	Elastic properties of GaN nanowires: revealing the influence of planar defects on young's modulus at nanoscale. <i>Nano Letters</i> , 2015 , 15, 8-15	11.5	45
513	Poly(alkyl methacrylate) Brush-Grafted Silica Nanoparticles as Oil Lubricant Additives: Effects of Alkyl Pendant Groups on Oil Dispersibility, Stability, and Lubrication Property. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25038-25048	9.5	45
512	Light Scattering of Dilute Hydrophobically Modified Alkali-Soluble Emulsion Solutions: Effects of Hydrophobicity and Spacer Length of Macromonomer. <i>Macromolecules</i> , 2000 , 33, 7021-7028	5.5	45
511	An efficient low-temperature route to nitrogen-doping and activation of mesoporous carbons for CO ₂ capture. <i>Chemical Communications</i> , 2015 , 51, 17261-4	5.8	44
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