Sheng Dai

List of Publications by Year in Descending Order

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	Beyond Simple Dilution: Superior Conductivities from Cosolvation of Acetonitrile/LiTFSI Concentrated Solution with Acetone. *Journal of Physical Chemistry C*, **2022**, 126, 2788-2796	3.8	2
656	Interfacial-confined coordination to single-atom nanotherapeutics.. *Nature Communications*, **2022**, 13, 91	17.4	11
655	Intra-crystalline mesoporous zeolite encapsulation-derived thermally robust metal nanocatalyst in deep oxidation of light alkanes.. *Nature Communications*, **2022**, 13, 295	17.4	9
654	Deep Oxidative Desulfurization of Model Fuels Catalyzed by Subnanosized Ti Oxoclusters. *Energy & Fuels*, **2022**, 36, 1402-1416	4.1	5
653	Dual Rate-Modulation Approach for the Preparation of Crystalline Covalent Triazine Frameworks Displaying Efficient Sodium Storage.. *ACS Macro Letters*, **2022**, 11, 60-65	6.6	6
652	Ligand Defect Density Regulation in Metal-Organic Frameworks by Functional Group Engineering on Linkers.. *Nano Letters*, **2022**,	11.5	5
651	Controlling the elasticity of polyacrylonitrile fibers ionic liquids containing cyano-based anions.. *RSC Advances*, **2022**, 12, 8656-8660	3.7	0
650	Enhanced Hemocompatibility of Silver Nanoparticles Using the Photocatalytic Properties of Titanium Dioxide.. *Frontiers in Bioengineering and Biotechnology*, **2022**, 10, 855471	5.8	0
649	Regulating the Spatial Distribution of Ru Nanoparticles on CeO2 Support for Enhanced Propane Oxidation. *ACS Applied Nano Materials*, **2022**, 5, 3937-3945	5.6	0
648	Molecularly Dispersed Cobalt Phthalocyanine Mediates Selective and Durable CO 2 Reduction in a Membrane Flow Cell (Adv. Funct. Mater. 11/2022). *Advanced Functional Materials*, **2022**, 32, 2270070	15.6	0
647	Direct Correlation of the Salt-Reduced Diffusivities of Organic Solvents with the Solvent's Mole Fraction.. *Journal of Physical Chemistry Letters*, **2022**, 2845-2850	6.4	0
646	Mechanochemically Assisted Synthesis of High-Entropy Layer-Structured Dittmarite Analogues. *ACS Applied Energy Materials*, **2022**, 5, 3290-3297	6.1	1
645	Ultrasound-mediated synthesis of nanoporous fluorite-structured high-entropy oxides toward noble metal stabilization.. *IScience*, **2022**, 25, 104214	6.1	0
644	Reconstructed covalent organic frameworks.. *Nature*, **2022**, 604, 72-79	50.4	14
643	Operando High-Valence Cr-Modified NiFe Hydroxides for Water Oxidation.. *Small*, **2022**, e2200303	11	7
642	Low-fatigue and large room-temperature elastocaloric effect in a bulk Ti49.2Ni40.8Cu10. *Acta Materialia*, **2022**, 229, 117802	8.4	0
641	Solar Photocatalytic Oxidation of Methane to Methanol with Water over RuOx/ZnO/CeO2 Nanorods. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 16-22	8.3	5

640	Installation of high-valence tungsten in MIL-125(Ti) for boosted photocatalytic hydrogen evolution. *Science China Materials*, **2022**, 65, 1237-1244	7.1	0
639	Co-MOF Nanosheets Etched by FeCl2 Solution for Enhanced Electrocatalytic Oxygen Evolution. *Energy & Fuels*, **2022**, 36, 4524-4531	4.1	0
638	Wafer-Scale Demonstration of MBC-FET and C-FET Arrays Based on Two-Dimensional Semiconductors.. *Small*, **2022**, e2107650	11	4
637	Frenkel-defected monolayer MoS catalysts for efficient hydrogen evolution.. *Nature Communications*, **2022**, 13, 2193	17.4	17
636	Iodine-Doping-Induced Electronic Structure Tuning of Atomic Cobalt for Enhanced Hydrogen Evolution Electrocatalysis. *ACS Nano*, **2021**,	16.7	8
635	Graphitic Aza-fused Conjugated Networks: Construction, Engineering, and Task-Specific Applications. *Advanced Materials*, **2021**, e2107947	24	3
634	Highly Stretchable, Crack-Insensitive and Compressible Ceramic Aerogel. *ACS Nano*, **2021**,	16.7	5
633	Operando Analysis of Gas Evolution in TiNbO (TNO)-Based Anodes for Advanced High-Energy Lithium-Ion Batteries under Fast Charging. *ACS Applied Materials & Interfaces*, **2021**, 13, 55145-55155	9.5	4
632	Stable Bismuth-Doped Lead Halide Perovskite Core-Shell Nanocrystals by Surface Segregation Effect. *Small*, **2021**, e2104399	11	2
631	A high temperature cell for investigating interfacial structure on the molecular scale in molten salt/alloy systems.. *Review of Scientific Instruments*, **2021**, 92, 123903	1.7	1
630	Self-regeneration of supported transition metals by a high entropy-driven principle. *Nature Communications*, **2021**, 12, 5917	17.4	3
629	Highly Ethylene-Selective Electrocatalytic CO Reduction Enabled by Isolated Cu-S Motifs in Metal-Organic Framework Based Precatalysts. *Angewandte Chemie - International Edition*, **2021**,	16.4	5
628	Strategies toward the Synthesis of Advanced Functional Sorbent Performance for Uranium Uptake from Seawater. *Industrial & Engineering Chemistry Research*, **2021**, 60, 15037-15044	3.9	2
627	Molecularly Dispersed Cobalt Phthalocyanine Mediates Selective and Durable CO2 Reduction in a Membrane Flow Cell. *Advanced Functional Materials*, **2021**, 2107301	15.6	5
626	Enhanced CO Electrochemical Reduction Performance over Cu@AuCu Catalysts at High Noble Metal Utilization Efficiency. *Nano Letters*, **2021**, 21, 9293-9300	11.5	5
625	Radiation-Assisted Formation of Metal Nanoparticles in Molten Salts. *Journal of Physical Chemistry Letters*, **2021**, 12, 157-164	6.4	6
624	Engineering Permanent Porosity into Liquids. *Advanced Materials*, **2021**, 33, e2005745	24	12
623	Perovskite Oxide Halide Solid Solutions: A Platform for Electrocatalysts. *Angewandte Chemie*, **2021**, 133, 10041-10046	3.6	0

622	The coefficient of earth pressure at rest in hydrate-bearing sediments. *Acta Geotechnica*, **2021**, 16, 2729-2739	4.9	3
621	PtAuSn Nanorod Catalysts with a Beneficial Core/Shell Structure for Oxygen Reduction Electrocatalysis. *ACS Applied Energy Materials*, **2021**, 4, 3067-3073	6.1	4
620	Hierarchical Lignin-Based Carbon Matrix and Carbon Dot Composite Electrodes for High-Performance Supercapacitors. *ACS Omega*, **2021**, 6, 7851-7861	3.9	5
619	Perovskite Oxide-Halide Solid Solutions: A Platform for Electrocatalysts. *Angewandte Chemie - International Edition*, **2021**, 60, 9953-9958	16.4	7
618	Strong Enhancement of Nanoconfined Water Mobility by a Structure Breaking Salt. *Journal of Physical Chemistry Letters*, **2021**, 12, 4038-4044	6.4	3
617	Benzene Ring Knitting Achieved by Ambient-Temperature Dehalogenation via Mechanochemical Ullmann-Type Reductive Coupling. *Advanced Materials*, **2021**, 33, e2008685	24	12
616	Design of Graphene/Ionic Liquid Composites for Carbon Capture. *ACS Applied Materials & Interfaces*, **2021**, 13, 17511-17516	9.5	5
615	Molten Salt Assisted Low-Temperature Electro-Catalytic Graphitization of Coal Chars. *Journal of the Electrochemical Society*, **2021**, 168, 046504	3.9	4
614	Cell-friendly photo-functionalized TiO nano-micro-honeycombs for selectively preventing bacteria and platelet adhesion. *Materials Science and Engineering C*, **2021**, 123, 111996	8.3	3
613	Interactions of an Imine Polymer with Nanoporous Silica and Carbon in Hybrid Adsorbents for Carbon Capture. *Langmuir*, **2021**, 37, 4622-4631	4	1
612	Supramolecular Self-Assembled Multi-Electron-Acceptor Organic Molecule as High-Performance Cathode Material for Li-Ion Batteries. *Advanced Energy Materials*, **2021**, 11, 2100330	21.8	7
611	High-entropy materials for catalysis: A new frontier. *Science Advances*, **2021**, 7,	14.3	63
610	Fabrication of Ionic Covalent Triazine Framework-Linked Membranes via a Facile Sol□Gel Approach. *Chemistry of Materials*, **2021**, 33, 3386-3393	9.6	7
609	Synthesis and Characterization of Macrocyclic Ionic Liquids for CO2 Separation. *Industrial & Engineering Chemistry Research*, **2021**, 60, 8218-8226	3.9	1
608	Porous Liquids: Engineering Permanent Porosity into Liquids (Adv. Mater. 18/2021). *Advanced Materials*, **2021**, 33, 2170136	24	0
607	Dynamics of Emim in [Emim][TFSI]/LiTFSI Solutions as Bulk and under Confinement in a Quasi-liquid Solid Electrolyte. *Journal of Physical Chemistry B*, **2021**, 125, 5443-5450	3.4	4
606	Unraveling Local Structure of Molten Salts via X-ray Scattering, Raman Spectroscopy, and Molecular Dynamics. *Journal of Physical Chemistry B*, **2021**, 125, 5971-5982	3.4	8
605	Role of Organic Fluoride Salts in Stabilizing Niobium Oxo-Clusters Catalyzing Epoxidation. *Langmuir* , **2021**, 37, 8190-8203	4	1

604	CO Chemisorption Behavior of Coordination-Derived Phenolate Sorbents. *ChemSusChem*, **2021**, 14, 2854-2859	8.3	2
603	Polymer-Grafted Porous Silica Nanoparticles with Enhanced CO Permeability and Mechanical Performance. *ACS Applied Materials & Interfaces*, **2021**, 13, 27411-27418	9.5	4
602	Formation of three-dimensional bicontinuous structures via molten salt dealloying studied in real-time by in situ synchrotron X-ray nano-tomography. *Nature Communications*, **2021**, 12, 3441	17.4	6
601	Engineering the Interlayer Spacing by Pre-Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid. *Advanced Functional Materials*, **2021**, 31, 2104007	15.6	17
600	Solid Electrolyte Interphases: Insight into the Solid Electrolyte Interphase Formation in Bis(fluorosulfonyl)Imide Based Ionic Liquid Electrolytes (Adv. Funct. Mater. 23/2021). *Advanced Functional Materials*, **2021**, 31, 2170163	15.6	
599	Photoinduced Strong Metal-Support Interaction for Enhanced Catalysis. *Journal of the American Chemical Society*, **2021**, 143, 8521-8526	16.4	21
598	Molecular Dynamics Simulations of Complexation of Am(III) with a Preorganized Dicationic Ligand in an Ionic Liquid. *Journal of Physical Chemistry B*, **2021**, 125, 8532-8538	3.4	1
597	Surface enrichment and diffusion enabling gradient-doping and coating of Ni-rich cathode toward Li-ion batteries. *Nature Communications*, **2021**, 12, 4564	17.4	38
596	Investigating the Degradation of Nb2O5 Thin Films Across 10,000 Lithiation/Delithiation Cycles. *ACS Applied Energy Materials*, **2021**, 4, 6542-6552	6.1	3
595	Photo-functionalized TiO nanotubes decorated with multifunctional Ag nanoparticles for enhanced vascular biocompatibility. *Bioactive Materials*, **2021**, 6, 45-54	16.7	11
594	Room temperature synthesis of high-entropy Prussian blue analogues. *Nano Energy*, **2021**, 79, 105464	17.1	13
593	Modified coal char materials with high rate performance for battery applications. *Carbon*, **2021**, 172, 414-421	10.4	8
592	Surpassing the Organic Cathode Performance for Lithium-Ion Batteries with Robust Fluorinated Covalent Quinazoline Networks. *ACS Energy Letters*, **2021**, 6, 41-51	20.1	17
591	Organic wastewater treatment by a single-atom catalyst and electrolytically produced HO. *Nature Sustainability*, **2021**, 4, 233-241	22.1	105
590	Collaboration between a Pt-dimer and neighboring Co-Pd atoms triggers efficient pathways for oxygen reduction reaction. *Physical Chemistry Chemical Physics*, **2021**, 23, 1822-1834	3.6	6
589	Sacrificial Synthesis of Supported Ru Single Atoms and Clusters on N-doped Carbon Derived from Covalent Triazine Frameworks: A Charge Modulation Approach. *Advanced Science*, **2021**, 8, 2001493	13.6	14
588	Organic Cathode Materials for Lithium-Ion Batteries: Past, Present, and Future. *Advanced Energy and Sustainability Research*, **2021**, 2, 2000044	1.6	18
587	Sulphur as medium: Directly converting pitch into porous carbon. *Fuel*, **2021**, 286, 119393	7.1	4

586	Rh nanoparticle functionalized heteroatom-doped hollow carbon spheres for efficient electrocatalytic hydrogen evolution. *Materials Chemistry Frontiers*, **2021**, 5, 3125-3131	7.8	11
585	Enhanced OER performance of composite CoFe-based MOF catalysts via a one-pot ultrasonic-assisted synthetic approach. *Sustainable Energy and Fuels*, **2021**, 5, 1095-1102	5.8	6
584	A low-valent cobalt oxide co-catalyst to boost photocatalytic water oxidation via enhanced hole-capturing ability. *Journal of Materials Chemistry A*, **2021**, 9, 14786-14792	13	9
583	Interfacial atomic Ni tetragon intercalation in a NiO2-to-Pd hetero-structure triggers superior HER activity to the Pt catalyst. *Journal of Materials Chemistry A*, **2021**, 9, 12019-12028	13	2
582	Overcoming the phase separation within high-entropy metal carbide by poly(ionic liquid)s. *Chemical Communications*, **2021**, 57, 3676-3679	5.8	3
581	Low-Cost Transformation of Biomass-Derived Carbon to High-Performing Nano-graphite via Low-Temperature Electrochemical Graphitization. *ACS Applied Materials & Interfaces*, **2021**, 13, 4393-4401	9.5	9
580	Alkaline salt-promoted construction of hydrophilic and nitrogen deficient graphitic carbon nitride with highly improved photocatalytic efficiency. *Journal of Materials Chemistry A*, **2021**, 9, 4700-4706	13	6
579	A template-free synthesis of mesoporous SrTiO3 single crystals. *CrystEngComm*, **2021**, 23, 5595-5600	3.3	
578	Insight into the Solid Electrolyte Interphase Formation in Bis(fluorosulfonyl)Imide Based Ionic Liquid Electrolytes. *Advanced Functional Materials*, **2021**, 31, 2008708	15.6	16
577	Robust perfluorinated porous organic networks: Succinct synthetic strategy and application in chlorofluorocarbons adsorption. *Nano Research*, **2021**, 14, 3282-3287	10	1
576	Significant Improvement of Catalytic Performance for Chlorinated Volatile Organic Compound Oxidation over RuO Supported on Acid-Etched CoO. *Environmental Science & Technology*, **2021**, 55, 10734-10743	10.3	22
575	A Cationic Ru(II) Complex Intercalated into Zirconium Phosphate Layers Catalyzes Selective Hydrogenation via Heterolytic Hydrogen Activation. *ChemCatChem*, **2021**, 13, 3801-3814	5.2	2
574	CO Chemisorption Behavior of Coordination-Derived Phenolate Sorbents. *ChemSusChem*, **2021**, 14, 2784	8.3	0
573	Confinement of subnanometric PdCo bimetallic oxide clusters in zeolites for methane complete oxidation. *Chemical Engineering Journal*, **2021**, 418, 129398	14.7	13
572	Formation of LiF Surface Layer During Direct Fluorination of High-Capacity Co-Free Disordered Rocksalt Cathodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 38221-38228	9.5	5
571	Engineering the Interlayer Spacing by Pre-Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid (Adv. Funct. Mater. 33/2021). *Advanced Functional Materials*, **2021**, 31, 2170246	15.6	1
570	Ultrasound-driven fabrication of high-entropy alloy nanocatalysts promoted by alcoholic ionic liquids. *Nano Research*, **2021**, 1	10	1
569	Synthesis of Poly(ionic Liquid)s--poly(methyl Methacrylate) Copolymer-Grafted Silica Particle Brushes with Enhanced CO Permeability and Mechanical Performance. *Langmuir*, **2021**, 37, 10875-10881	4	0

568	ExsolutionDissolution of Supported Metals on High-Entropy Co3MnNiCuZnOx: Toward Sintering-Resistant Catalysis. *ACS Catalysis*, **2021**, 11, 12247-12257	13.1	4
567	Highly Perfluorinated Covalent Triazine Frameworks Derived from a Low-Temperature Ionothermal Approach Towards Enhanced CO Electroreduction. *Angewandte Chemie - International Edition*, **2021**, 60, 25688-25694	16.4	7
566	A Holistic Approach for Elucidating Local Structure, Dynamics, and Speciation in Molten Salts with High Structural Disorder. *Journal of the American Chemical Society*, **2021**, 143, 15298-15308	16.4	3
565	Highly Perfluorinated Covalent Triazine Frameworks Derived from a Low-Temperature Ionothermal Approach Towards Enhanced CO2 Electroreduction. *Angewandte Chemie*, **2021**, 133, 25892	3.6	0
564	Atomically Dispersed High-Density Al-N Sites in Porous Carbon for Efficient Photodriven CO Cycloaddition. *Advanced Materials*, **2021**, 33, e2103186	24	12
563	Benchmark CO2 separation achieved by highly fluorinated nanoporous molecular sieve membranes from nonporous precursor via in situ cross-linking. *Journal of Membrane Science*, **2021**, 638, 119698	9.6	1
562	Probing the role of surface hydroxyls for Bi, Sn and In catalysts during CO2 Reduction. *Applied Catalysis B: Environmental*, **2021**, 298, 120581	21.8	9
561	Towards the object-oriented design of active hydrogen evolution catalysts on single-atom alloys. *Chemical Science*, **2021**, 12, 10634-10642	9.4	4
560	Directly Probing Local Coordination, Charge State and Stability of Single Atom Catalysts. *Microscopy and Microanalysis*, **2020**, 26, 2468-2469	0.5	1
559	Roles of niobium in the dehydrogenation of propane to propylene over a Pt/Nb-modified Al2O3 catalyst. *New Journal of Chemistry*, **2020**, 44, 20115-20121	3.6	1
558	A Principle for Highly Active Metal Oxide Catalysts via NaCl-Based Solid Solution. *CheM*, **2020**, 6, 1723-1741	19.2	15
557	Facilitation of microbially induced calcite precipitation with kaolinite nucleation. *Geotechnique*, **2020**, 1-7	3.4	4
556	Encapsulated Sb and Sb2O3 particles in waste-tire derived carbon as stable composite anodes for sodium-ion batteries. *Sustainable Energy and Fuels*, **2020**, 4, 3613-3622	5.8	9
555	Sodium Oxide Cathodes: Insights into the Enhanced Cycle and Rate Performances of the F-Substituted P2-Type Oxide Cathodes for Sodium-Ion Batteries (Adv. Energy Mater. 19/2020). *Advanced Energy Materials*, **2020**, 10, 2070087	21.8	1
554	X-ray photoelectron spectroscopy of piperidinium ionic liquids: a comparison to the charge delocalised pyridinium analogues. *Physical Chemistry Chemical Physics*, **2020**, 22, 11976-11983	3.6	3
553	Carbon Coated Porous Titanium Niobium Oxides as Anode Materials of Lithium-Ion Batteries for Extreme Fast Charge Applications. *ACS Applied Energy Materials*, **2020**, 3, 5657-5665	6.1	24
552	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
551	Synthesizing High-Capacity Oxyfluoride Conversion Anodes by Direct Fluorination of Molybdenum Dioxide (MoO). *ChemSusChem*, **2020**, 13, 3825	8.3	3

550	Prediction by Convolutional Neural Networks of CO2/N2 Selectivity in Porous Carbons from N2 Adsorption Isotherm at 77 K. *Angewandte Chemie*, **2020**, 132, 19813-19816	3.6	4
549	Harnessing strong metal-support interactions via a reverse route. *Nature Communications*, **2020**, 11, 3042	17.4	33
548	Direct Recycling of Spent NCM Cathodes through Ionothermal Lithiation. *Advanced Energy Materials*, **2020**, 10, 2001204	21.8	39
547	Prediction by Convolutional Neural Networks of CO /N Selectivity in Porous Carbons from N Adsorption Isotherm at 77 K. *Angewandte Chemie - International Edition*, **2020**, 59, 19645-19648	16.4	12
546	Highly efficient alloyed NiCu/Nb2O5 catalyst for the hydrodeoxygenation of biofuel precursors into liquid alkanes. *Catalysis Science and Technology*, **2020**, 10, 4256-4263	5.5	14
545	Synthesis of Ionic Ultramicroporous Polymers for Selective Separation of Acetylene from Ethylene. *Advanced Materials*, **2020**, 32, e1907601	24	30
544	Ionic Liquid-Directed Nanoporous TiNb O Anodes with Superior Performance for Fast-Rechargeable Lithium-Ion Batteries. *Small*, **2020**, 16, e2001884	11	41
543	Local synergetic collaboration between Pd and local tetrahedral symmetric Ni oxide enables ultra-high-performance CO2 thermal methanation. *Journal of Materials Chemistry A*, **2020**, 8, 12744-12756	13	9
542	Incorporating Lanthanum into Mesoporous Silica Foam Enhances Enzyme Immobilization and the Activity of Penicillin G Acylase Due to Lewis Acid-Base Interactions. *ChemBioChem*, **2020**, 21, 2143-2148	3.8	3
541	Temperature Dependence of Short and Intermediate Range Order in Molten MgCl and Its Mixture with KCl. *Journal of Physical Chemistry B*, **2020**, 124, 2892-2899	3.4	19
540	Boosting electrosynthesis of ammonia on surface-engineered MXene Ti3C2. *Nano Energy*, **2020**, 72, 104681	17.1	48
539	Optimization of Pt-Oxygen-Containing Species Anodes for Ethanol Oxidation Reaction: High Performance of Pt-AuSnO Electrocatalyst. *Journal of Physical Chemistry Letters*, **2020**, 11, 2846-2853	6.4	9
538	Photofunctionalized and Drug-Loaded TiO Nanotubes with Improved Vascular Biocompatibility as a Potential Material for Polymer-Free Drug-Eluting Stents. *ACS Biomaterials Science and Engineering*, **2020**, 6, 2038-2049	5.5	3
537	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
536	Ion-gated carbon molecular sieve gas separation membranes. *Journal of Membrane Science*, **2020**, 604, 118013	9.6	9
535	Revealing 3D Morphological and Chemical Evolution Mechanisms of Metals in Molten Salt by Multimodal Microscopy. *ACS Applied Materials & Interfaces*, **2020**, 12, 17321-17333	9.5	10
534	Insights into the Enhanced Cycle and Rate Performances of the F-Substituted P2-Type Oxide Cathodes for Sodium-Ion Batteries. *Advanced Energy Materials*, **2020**, 10, 2000135	21.8	28
533	Solvent-Free Self-Assembly for Scalable Preparation of Highly Crystalline Mesoporous Metal Oxides. *Angewandte Chemie - International Edition*, **2020**, 59, 11053-11060	16.4	36

532	Tailoring Polymer Colloids Derived Porous Carbon Spheres Based on Specific Chemical Reactions. *Advanced Materials*, **2020**, 32, e2002475	24	31
531	Connections between the Speciation and Solubility of Ni(II) and Co(II) in Molten ZnCl. *Journal of Physical Chemistry B*, **2020**, 124, 1253-1258	3.4	13
530	Anisotropic and hierarchical SiC@SiO nanowire aerogel with exceptional stiffness and stability for thermal superinsulation. *Science Advances*, **2020**, 6, eaay6689	14.3	56
529	Facile synthesis of a linear porous organic polymer via Schiff-base chemistry for propyne/propylene separation. *Polymer Chemistry*, **2020**, 11, 4382-4386	4.9	5
528	Across the Board: Sheng Dai on Catalyst Design by Entropic Factors. *ChemSusChem*, **2020**, 13, 1915-1917	8.3	8
527	High-Entropy Perovskite Fluorides: A New Platform for Oxygen Evolution Catalysis. *Journal of the American Chemical Society*, **2020**, 142, 4550-4554	16.4	92
526	Mechanochemical synthesis of pillar[5]quinone derived multi-microporous organic polymers for radioactive organic iodide capture and storage. *Nature Communications*, **2020**, 11, 1086	17.4	38
525	Interfacial Biocatalytic Performance of Nanofiber-Supported □Galactosidase for Production of Galacto-Oligosaccharides. *Catalysts*, **2020**, 10, 81	4	4
524	De novo fabrication of multi-heteroatom-doped carbonaceous materials via an in situ doping strategy. *Journal of Materials Chemistry A*, **2020**, 8, 4740-4746	13	7
523	Effect of the Ionic Liquid Structure on the Melt Processability of Polyacrylonitrile Fibers. *ACS Applied Materials & Interfaces*, **2020**, 12, 8663-8673	9.5	3
522	Surpassing Robeson Upper Limit for CO2/N2 Separation with Fluorinated Carbon Molecular Sieve Membranes. *CheM*, **2020**, 6, 631-645	16.2	22
521	Electrochemically induced crystallization of amorphous materials in molten MgCl: boron nitride and hard carbon. *Chemical Communications*, **2020**, 56, 2783-2786	5.8	5
520	Thermal and magnetic dual-responsive l-proline nanohybrids for aqueous asymmetric aldol reaction. *Reactive and Functional Polymers*, **2020**, 149, 104508	4.6	6
519	Kinetic Isotope Effect as a Tool To Investigate the Oxygen Reduction Reaction on Pt-based Electrocatalysts - Part II: Effect of Platinum Dispersion. *ChemPhysChem*, **2020**, 21, 1331-1339	3.2	3
518	Synergistic effect of dual Br□sted acidic deep eutectic solvents for oxidative desulfurization of diesel fuel. *Chemical Engineering Journal*, **2020**, 394, 124831	14.7	58
517	Pore-Scale Controls on the Gas and Water Transport in Hydrate-Bearing Sediments. *Geophysical Research Letters*, **2020**, 47, e2020GL086990	4.9	9
516	An ultrastable heterostructured oxide catalyst based on high-entropy materials: A new strategy toward catalyst stabilization via synergistic interfacial interaction. *Applied Catalysis B: Environmental*, **2020**, 276, 119155	21.8	25
515	Two-in-one: construction of hydroxyl and imidazolium-bifunctionalized ionic networks in one-pot toward synergistic catalytic CO fixation. *Chemical Communications*, **2020**, 56, 3309-3312	5.8	44

514	Facile benzene reduction promoted by a synergistically coupled Cu-Co-Ce ternary mixed oxide. *Chemical Science*, **2020**, 11, 5766-5771	9.4	2
513	Uniphase ruthenium–iridium alloy-based electronic regulation for electronic structure–function study in methane oxidation to methanol. *Journal of Materials Chemistry A*, **2020**, 8, 24024-24030	13	4
512	Room-Temperature Synthesis of High-Entropy Perovskite Oxide Nanoparticle Catalysts through Ultrasonication-Based Method. *ChemSusChem*, **2020**, 13, 111-115	8.3	49
511	Lithiophilic V2O5 nanobelt arrays decorated 3D framework hosts for highly stable composite lithium metal anodes. *Chemical Engineering Journal*, **2020**, 384, 123313	14.7	39
510	Rapid gas-assisted exfoliation promises V2O5 nanosheets for high performance lithium-sulfur batteries. *Nano Energy*, **2020**, 67, 104253	17.1	74
509	Sub-nanometer Pt cluster decoration enhances the oxygen reduction reaction performances of NiOx supported Pd nano-islands. *Sustainable Energy and Fuels*, **2020**, 4, 809-823	5.8	14
508	In situ polymerized succinonitrile-based solid polymer electrolytes for lithium ion batteries. *Solid State Ionics*, **2020**, 345, 115159	3.3	11
507	O2/N2-responsive microgels as functional draw agents for gas-triggering forward osmosis desalination. *Journal of Membrane Science*, **2020**, 595, 117584	9.6	4
506	Molecular dynamics simulations of structural and transport properties of molten NaCl-UCl3 using the polarizable-ion model. *Journal of Molecular Liquids*, **2020**, 299, 112184	6	22
505	Poly(Amidoamine) Dendrimers for Carbon Capture **2020**, 267-296		
504	Ionic Liquid-Based Membranes **2020**, 317-345		1
503	CO2 Capture and Separation of Metal–Organic Frameworks **2020**, 5-27		8
502	Porous Carbon Materials **2020**, 29-95		2
501	Porous Aromatic Frameworks for Carbon Dioxide Capture **2020**, 97-115		1
500	Virtual Screening of Materials for Carbon Capture **2020**, 117-151		2
499	Ultrathin Membranes for Gas Separation **2020**, 153-185		0
498	Polymeric Membranes **2020**, 187-214		
497	Carbon Membranes for CO2 Separation **2020**, 215-236		

496	Composite Materials for Carbon Capture **2020**, 237-266		3
495	Uniformity Is Key in Defining Structure-Function Relationships for Atomically Dispersed Metal Catalysts: The Case of Pt/CeO. *Journal of the American Chemical Society*, **2020**, 142, 169-184	16.4	90
494	Layer-by-Layer Assembly Strategy for Reinforcing the Mechanical Strength of an Ionogel Electrolyte without Affecting Ionic Conductivity. *ACS Applied Energy Materials*, **2020**, 3, 1265-1270	6.1	6
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