Xue-Dan Song

List of Publications by Year
in descending order

74 papers	2,136 citations	218381 26 h-index	243296 44 g-index
74 all docs	74 docs citations	74 times ranked	2773 citing authors

#	Article	IF	Citations
1	Insight into the Inhibition of Shuttle by Metal-Modified Covalent Triazine Frameworks and Graphene Composites with the Solvent Interaction in Lithium Sulfur Batteries. ACS Applied Energy Materials, 2022, 5, 825-831.	2.5	6
2	Mismatching integration-enabled strains and defects engineering in LDH microstructure for high-rate and long-life charge storage. Nature Communications, 2022, 13, 1409.	5.8	42
3	The Structural Design of Dualâ€Elementâ€Doped Graphene for Iodine Reduction Reaction: Density Functional Theory Study. ChemistrySelect, 2022, 7, .	0.7	2
4	Synergistic Size Effect of MOF Cavity/Encapsulated Luminescent Modules Significantly Boosts Nitro-Aromatic Vapors Distinction via a Three-Dimensional Ratiometric Sensing. Sensors and Actuators B: Chemical, 2021, 328, 129025.	4.0	7
5	A Câ€Sâ€C Linkageâ€Triggered Ultrahigh Nitrogenâ€Doped Carbon and the Identification of Active Site in Triiodide Reduction. Angewandte Chemie - International Edition, 2021, 60, 3587-3595.	7.2	41
6	A Câ€Sâ€C Linkageâ€Triggered Ultrahigh Nitrogenâ€Doped Carbon and the Identification of Active Site in Triiodide Reduction. Angewandte Chemie, 2021, 133, 3631-3639.	1.6	7
7	Insights into the existing form of glycolaldehyde in methanol solution: an experimental and theoretical investigation. New Journal of Chemistry, 2021, 45, 8149-8154.	1.4	2
8	Frontispiece: A Câ€Sâ€C Linkageâ€Triggered Ultrahigh Nitrogenâ€Doped Carbon and the Identification of Active Site in Triiodide Reduction. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
9	Frontispiz: A Câ€Sâ€C Linkageâ€Triggered Ultrahigh Nitrogenâ€Doped Carbon and the Identification of Active Site in Triiodide Reduction. Angewandte Chemie, 2021, 133, .	1.6	0
10	Recognition of Water-Induced Effects toward Enhanced Interaction between Catalyst and Reactant in Alcohol Oxidation. Journal of the American Chemical Society, 2021, 143, 6071-6078.	6.6	55
11	Recyclable and Magnetically Functionalized Metalâ€“Organic Framework Catalyst: IL/Fe₃O₄@HKUST-1 for the Cycloaddition Reaction of CO₂ with Epoxides. ACS Applied Materials & Interfaces, 2021, 13, 22836-22844.	4.0	25
12	Toward an Understanding of the Enhanced CO₂ Electroreduction in NaCl Electrolyte over CoPc Moleculeâ€Implanted Graphitic Carbon Nitride Catalyst. Advanced Energy Materials, 2021, 11, 2100075.	10.2	36
13	Temperature controlling valance changes of crystalline thioarsenates and thioantimonates. Journal of Alloys and Compounds, 2021, 872, 159591.	2.8	11
14	A tuned Lewis acidic catalyst guided by hardâ€“soft acidâ€“base theory to promote N₂ electroreduction. Journal of Materials Chemistry A, 2021, 9, 13036-13043.	5.2	19
15	An insight into the reaction mechanism of CO₂ photoreduction catalyzed by atomically dispersed Fe atoms supported on graphitic carbon nitride. Physical Chemistry Chemical Physics, 2021, 23, 4690-4699.	1.3	22
16	The Role of Thermodynamically Stable Configuration in Enhancing Crystallographic Diffraction Quality of Flexible MOFs. IScience, 2021, 24, 103398.	1.9	1
17	Facile Synthesis of Heterostructured MoS₂â€“MoO₃ Nanosheets with Active Electrocatalytic Sites for High-Performance Lithiumâ€“Sulfur Batteries. ACS Nano, 2021, 15, 20478-20488.	7.3	115
18	TD-DFT insights into the sensing potential of the luminescent covalent organic framework for indoor pollutant formaldehyde. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 224, 117432.	2.0	7

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19	Improved OER performance of Co3O4/N-CNTs derived from newly designed ZIF-67/PPy NTs composite. Journal of Electroanalytical Chemistry, 2020, 858, 113768.	1.9	33
20	One-Step Activation Synthesized Hierarchical Porous Carbon Spheres from Resorcinolâ€“Thioureaâ€“Formaldehyde for Electrochemical Capacitors. Industrial & Engineering Chemistry Research, 2020, 59, 226-235.	1.8	15
21	Study of the mechanisms of dialkyl carbonates directly formed from carbon dioxide and alcohols: New insights from kinetic and thermodynamic processes. Molecular Catalysis, 2020, 482, 110699.	1.0	2
22	Gravity field-mediated synthesis of carbon-conjugated quantum dots with tunable defective density for enhanced triiodide reduction. Nano Energy, 2020, 69, 104377.	8.2	19
23	Hexylammonium Iodide Derived Two-Dimensional Perovskite as Interfacial Passivation Layer in Efficient Two-Dimensional/Three-Dimensional Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 698-705.	4.0	36
24	Syntheses, structures, and photocatalytic properties of open-framework Agâ€“Snâ€“S compounds. Dalton Transactions, 2020, 49, 11708-11714.	1.6	17
25	Hydrogenâ€Bonding Triggered Assembly to Configure Hollow Carbon Nanosheets for Highly Efficient Triâ€Iodide Reduction. Advanced Functional Materials, 2020, 30, 2006270.	7.8	15
26	Insights into the Anchoring of Polysulfides and Catalytic Performance by Metal Phthalocyanine Covalent Organic Frameworks as the Cathode in Lithiumâ€“Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 10185-10192.	3.2	37
27	Discrimination of Various Amine Vapors by a Triemissive Metal-Organic Framework Composite via the Combination of a Three-Dimensional Ratiometric Approach and a Confinement-Induced Enhancement Effect. ACS Applied Materials & Interfaces, 2020, 12, 12043-12053.	4.0	38
28	Mild solvothermal syntheses and characterizations of two layered sulfides Ba2Cu2Cd2S5 and Ba3Cu4Hg4S9. Journal of Alloys and Compounds, 2020, 829, 154586.	2.8	9
29	Understanding the Inhibition of the Shuttle Effect of Sulfides (S â‰¥ 3) in Lithiumâ€“Sulfur Batteries by Heteroatom-Doped Graphene: First-Principles Study. Journal of Physical Chemistry C, 2020, 124, 3644-3649.	1.5	19
30	Excited-state hydrogen bonding: Detecting ammonia using an HHTP-DPB covalent organic framework. Chemical Physics, 2020, 536, 110822.	0.9	5
31	A Novel Singleâ€Atom Electrocatalyst Ti₁/rGO for Efficient Cathodic Reduction in Hybrid Photovoltaics. Advanced Materials, 2020, 32, e2000478.	11.1	31
32	Exploration of the basic reactant in CO2 photoreduction: New insights from photophysics and photochemistry. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 382, 111959.	2.0	2
33	Computational insights into the mechanism of formaldehyde detection by luminescent covalent organic framework. Journal of Molecular Modeling, 2019, 25, 248.	0.8	4
34	Solvothermal Syntheses and Characterizations of Four Quaternary Copper Sulfides BaCu₃MS₄ (M = In, Ga) and BaCu₂MS₄ (M = Sn, Ge). Inorganic Chemistry, 2019, 58, 15101-15109.	1.9	19
35	Insight into the Activity and Stability of Transition-Metal Atoms Embedded in MnO for Triiodide Reduction Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 19303-19310.	3.2	10
36	Atomic-level structure engineering of Ni-substituted Ni Co3â^'S4 for enhancing performance of supercapacitors. Journal of Electroanalytical Chemistry, 2019, 851, 113474.	1.9	8

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37	LCOFs: Role of the excited state hydrogen bonding in the detection for nitro-explosives. Journal of Luminescence, 2019, 215, 116733.	1.5	7
38	Design Principles for Covalent Organic Frameworks to Achieve Strong Heteroatom-Synergistic Effect on Anchoring Polysulfides for Lithiumâ€“Sulfur Batteries. Journal of Physical Chemistry Letters, 2019, 10, 7445-7451.	2.1	18
39	Onion-like graphitic carbon covering metallic nanocrystals derived from brown coal as a stable and efficient counter electrode for dye-sensitized solar cells. Journal of Power Sources, 2019, 414, 495-501.	4.0	28
40	Role of water oxidation in the photoreduction of graphene oxide. Chemical Communications, 2019, 55, 1837-1840.	2.2	2
41	A Universal Converse Voltage Process for Triggering Transition Metal Hybrids In Situ Phase Restruction toward Ultrahighâ€Rate Supercapacitors. Advanced Materials, 2019, 31, e1901241.	11.1	81
42	Dual Sites of CoO Nanoparticles and Coâ€“N_x Embedded within Coal-Based Support toward Advanced Triiodide Reduction. ACS Sustainable Chemistry and Engineering, 2019, 7, 10484-10492.	3.2	4
43	Excited state intermolecular hydrogen bondâ€™s effect on the luminescent behaviour of the 2D covalent organic framework (PPy-COF): A TDDFT insight. Molecular Simulation, 2019, 45, 942-950.	0.9	0
44	A Phase Transformationâ€Resistant Electrode Enabled by a MnO₂â€Confined Effect for Enhanced Energy Storage. Advanced Functional Materials, 2019, 29, 1901342.	7.8	18
45	Electrochemically Driven Coordination Tuning of FeOOH Integrated on Carbon Fiber Paper for Enhanced Oxygen Evolution. Small, 2019, 15, e1901015.	5.2	46
46	Biomass-Derived Multilayer-Graphene-Encapsulated Cobalt Nanoparticles as Efficient Electrocatalyst for Versatile Renewable Energy Applications. ACS Sustainable Chemistry and Engineering, 2019, 7, 1137-1145.	3.2	31
47	Impact of electronically excited state hydrogen bonding on luminescent covalent organic framework: a TD-DFT investigation. Molecular Physics, 2019, 117, 823-830.	0.8	7
48	Theoretical and Experimental Insights into the Effects of Oxygen-Containing Species within CNTs toward Triiodide Reduction. ACS Sustainable Chemistry and Engineering, 2019, 7, 7527-7534.	3.2	10
49	Photophysical and photochemical insights of the photodegradation of norfloxacin: The rate-limiting step and the influence of Ca2+ ion. Chemosphere, 2019, 219, 236-242.	4.2	13
50	Scrutinizing Defects and Defect Density of Seleniumâ€Doped Graphene for Highâ€Efficiency Triiodide Reduction in Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2018, 57, 4682-4686.	7.2	155
51	Scrutinizing Defects and Defect Density of Seleniumâ€Doped Graphene for Highâ€Efficiency Triiodide Reduction in Dyeâ€Sensitized Solar Cells. Angewandte Chemie, 2018, 130, 4772-4776.	1.6	28
52	Coaxial heterojunction carbon nanofibers with charge transport and electrocatalytic reduction phases for high performance dye-sensitized solar cells. RSC Advances, 2018, 8, 7040-7043.	1.7	3
53	Pseudohalogen-Based 2D Perovskite: A More Complex Thermal Degradation Mechanism Than 3D Perovskite. Inorganic Chemistry, 2018, 57, 2045-2050.	1.9	15
54	Synergistic effect of heat treatments and KOH activation enhances the electrochemistry performance of polypyrrole nanochains (PPy-NCs). Electrochimica Acta, 2018, 266, 151-160.	2.6	12

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55	A recognition mechanism study: Luminescent metal-organic framework for the detection of nitro-explosives. Journal of Molecular Graphics and Modelling, 2018, 80, 132-137.	1.3	10
56	Acid-base bifunctional catalyst: Carboxyl ionic liquid immobilized on MIL-101-NH2 for rapid synthesis of propylene carbonate from CO2 and propylene oxide under facile solvent-free conditions. Microporous and Mesoporous Materials, 2018, 267, 84-92.	2.2	59
57	New Insights into the Anchoring Mechanism of Polysulfides inside Nanoporous Covalent Organic Frameworks for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 43896-43903.	4.0	35
58	The oxygen sensing mechanism of a trifluoromethyl-substituted cyclometalated platinum(II) complex. Computational and Theoretical Chemistry, 2018, 1145, 1-5.	1.1	2
59	Phosphate Species up to 70% Mass Ratio for Enhanced Pseudocapacitive Properties. Small, 2018, 14, e1803811.	5.2	29
60	Bromine Doping as an Efficient Strategy to Reduce the Interfacial Defects in Hybrid Two-Dimensional/Three-Dimensional Stacking Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 31755-31764.	4.0	65
61	Two (5,5)-connected isomeric frameworks as highly selective and sensitive photoluminescent probes of nitroaromatics. CrystEngComm, 2017, 19, 2786-2794.	1.3	19
62	Rational design and fabrication of sulfur-doped porous graphene with enhanced performance as a counter electrode in dye-sensitized solar cells. Journal of Materials Chemistry A, 2017, 5, 2280-2287.	5.2	72
63	Biomass-Derived Carbon Nanospheres with Turbostratic Structure as Metal-Free Catalysts for Selective Hydrogenation of o-Chloronitrobenzene. ACS Sustainable Chemistry and Engineering, 2017, 5, 7481-7485.	3.2	38
64	Experimental investigation and theoretical exploration of single-atom electrocatalysis in hybrid photovoltaics: The powerful role of Pt atoms in triiodide reduction. Nano Energy, 2017, 39, 1-8.	8.2	25
65	Role of the electronic excited-state hydrogen bonding in the nitro-explosives detection by [Zn2(oba)2(bpy)]. Chemical Physics Letters, 2016, 661, 257-262.	1.2	10
66	ZIF-67 Derived Nanostructures of Co/CoO and Co@N-doped Graphitic Carbon as Counter Electrode for Highly Efficient Dye-sensitized Solar Cells. Electrochimica Acta, 2016, 213, 252-259.	2.6	95
67	Cobalt-embedded nitrogen-doped hollow carbon nanorods for synergistically immobilizing the discharge products in lithiumâ€“sulfur battery. Energy Storage Materials, 2016, 5, 223-229.	9.5	149
68	Graphene-mediated highly-dispersed MoS2 nanosheets with enhanced triiodide reduction activity for dye-sensitized solar cells. Carbon, 2016, 100, 474-483.	5.4	100
69	A sensor for formaldehyde detection: luminescent metalâ€“organic framework [Zn₂(H₂L)(2,2â€²-bpy)₂(H₂O)]_n. RSC Advances, 2015, 5, 49752-49758.	1.7	21
70	Elucidating triplet-sensitized photolysis mechanisms of sulfadiazine and metal ions effects by quantum chemical calculations. Chemosphere, 2015, 122, 62-69.	4.2	21
71	Nitrogenâ€Doped Graphene Nanoribbons with Surface Enriched Active Sites and Enhanced Performance for Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2015, 5, 1500180.	10.2	147
72	Graphene Nanoribbons: Nitrogenâ€Doped Graphene Nanoribbons with Surface Enriched Active Sites and Enhanced Performance for Dyeâ€Sensitized Solar Cells (Adv. Energy Mater. 11/2015). Advanced Energy Materials, 2015, 5, .	10.2	4

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73	Effect of CH3OH on the luminescent properties of the [Zn(sfdb)(bpy)(H2O)] Â· 0.5nCH3OH metalâ€“organic framework. Chemical Physics, 2015, 446, 65-69.	0.9	4
74	Interaction between Formaldehyde and Luminescent MOF [Zn(NH₂bdc)(bix)]_n in the Electronic Excited State. Journal of Physical Chemistry A, 2014, 118, 6191-6196.	1.1	36