Lin-juan Zhang

List of Publications by Year
in descending order

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		159585	74163
75	6,620	30	75
papers	citations	h-index	g-index

78	78	78	8386
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Understanding the High Activity of Feâ€“Nâ€“C Electrocatalysts in Oxygen Reduction: Fe/Fe₃C Nanoparticles Boost the Activity of Feâ€“N_x. Journal of the American Chemical Society, 2016, 138, 3570-3578.	13.7	1,549
2	Cascade anchoring strategy for general mass production of high-loading single-atomic metal-nitrogen catalysts. Nature Communications, 2019, 10, 1278.	12.8	591
3	Chromium-ruthenium oxide solid solution electrocatalyst for highly efficient oxygen evolution reaction in acidic media. Nature Communications, 2019, 10, 162.	12.8	396
4	Overcoming the crystallization and designability issues in the ultrastable zirconium phosphonate framework system. Nature Communications, 2017, 8, 15369.	12.8	366
5	Highly Sensitive and Selective Uranium Detection in Natural Water Systems Using a Luminescent Mesoporous Metalâ€“Organic Framework Equipped with Abundant Lewis Basic Sites: A Combined Batch, X-ray Absorption Spectroscopy, and First Principles Simulation Investigation. Environmental Science & Technology, 2017, 51, 3911-3921.	10.0	331
6	A Breakthrough Efficiency of 19.9% Obtained in Inverted Perovskite Solar Cells by Using an Efficient Trap State Passivator Cu(thiourea)I. Journal of the American Chemical Society, 2017, 139, 7504-7512.	13.7	330
7	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	9.1	306
8	Ultrafast and Efficient Extraction of Uranium from Seawater Using an Amidoxime Appended Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2017, 9, 32446-32451.	8.0	260
9	Fabrication of a phosphorylated graphene oxideâ€“chitosan composite for highly effective and selective capture of U(<scp>vi</scp>). Environmental Science: Nano, 2017, 4, 1876-1886.	4.3	161
10	Operando X-ray spectroscopic tracking of self-reconstruction for anchored nanoparticles as high-performance electrocatalysts towards oxygen evolution. Energy and Environmental Science, 2018, 11, 2945-2953.	30.8	157
11	Fabricating Singleâ€Atom Catalysts from Chelating Metal in Open Frameworks. Advanced Materials, 2019, 31, e1808193.	21.0	153
12	A Co-Doped Nanorod-like RuO2 Electrocatalyst with Abundant Oxygen Vacancies for Acidic Water Oxidation. IScience, 2020, 23, 100756.	4.1	125
13	Voltage- and time-dependent valence state transition in cobalt oxide catalysts during the oxygen evolution reaction. Nature Communications, 2020, 11, 1984.	12.8	120
14	Enhancing Bifunctional Electrocatalytic Activities via Metal d-Band Center Lift Induced by Oxygen Vacancy on the Subsurface of Perovskites. ACS Catalysis, 2020, 10, 4664-4670.	11.2	116
15	Atomically dispersed Lewis acid sites boost 2-electron oxygen reduction activity of carbon-based catalysts. Nature Communications, 2020, 11, 5478.	12.8	114
16	A 3,2-Hydroxypyridinone-based Decorporation Agent that Removes Uranium from Bones In Vivo. Nature Communications, 2019, 10, 2570.	12.8	107
17	Selenium Sequestration in a Cationic Layered Rare Earth Hydroxide: A Combined Batch Experiments and EXAFS Investigation. Environmental Science & Technology, 2017, 51, 8606-8615.	10.0	98
18	Ratiometric Monitoring of Thorium Contamination in Natural Water Using a Dual-Emission Luminescent Europium Organic Framework. Environmental Science & Technology, 2019, 53, 332-341.	10.0	90

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19	Oneâ€Pot Green Process to Synthesize MXene with Controllable Surface Terminations using Molten Salts. Angewandte Chemie - International Edition, 2021, 60, 27013-27018.	13.8	82
20	Adsorption of Uranyl ions on Amine-functionalization of MIL-101(Cr) Nanoparticles by a Facile Coordination-based Post-synthetic strategy and X-ray Absorption Spectroscopy Studies. Scientific Reports, 2015, 5, 13514.	3.3	78
21	Atomically Dispersed Highâ€Density Alâ€“N₄ Sites in Porous Carbon for Efficient Photodriven CO₂ Cycloaddition. Advanced Materials, 2021, 33, e2103186.	21.0	69
22	Enhancing Thermocatalytic Activities by Upshifting the dâ€Band Center of Exsolved Coâ€Niâ€Fe Ternary Alloy Nanoparticles for the Dry Reforming of Methane. Angewandte Chemie - International Edition, 2021, 60, 15912-15919.	13.8	65
23	Uptake Mechanisms of Eu(III) on Hydroxyapatite: A Potential Permeable Reactive Barrier Backfill Material for Trapping Trivalent Minor Actinides. Environmental Science & Technology, 2016, 50, 3852-3859.	10.0	53
24	Insight into the Role of Metalâ€“Oxygen Bond and O 2p Hole in High-Voltage Cathode LiNi_xMn_{2â€“x}O₄. Journal of Physical Chemistry C, 2017, 121, 16079-16087.	3.1	50
25	5f Covalency Synergistically Boosting Oxygen Evolution of UCoO₄ Catalyst. Journal of the American Chemical Society, 2022, 144, 416-423.	13.7	48
26	Extended X-ray Absorption Fine Structure and Density Functional Theory Studies on the Complexation Mechanism of Amidoximate Ligand to Uranyl Carbonate. Industrial & Engineering Chemistry Research, 2016, 55, 4224-4230.	3.7	43
27	Interaction-Dependent Interfacial Charge-Transfer Behavior in Solar Water-Splitting Systems. Nano Letters, 2019, 19, 1234-1241.	9.1	42
28	A Mixedâ€Valent Uranium Phosphonate Framework Containing U IV , U V , and U VI. Chemistry - A European Journal, 2016, 22, 11954-11957.	3.3	35
29	Molten-salt synthesis of porous La0.6Sr0.4Co0.2Fe0.8O2.9 perovskite as an efficient electrocatalyst for oxygen evolution. Nano Research, 2018, 11, 4796-4805.	10.4	35
30	Reactivating Catalytic Surface: Insights into the Role of Hot Holes in Plasmonic Catalysis. Small, 2018, 14, e1703510.	10.0	35
31	Atomically dispersed lewis acid sites meet poly(ionic liquid)s networks for solvent-free and co-catalyst-free conversion of CO2 to cyclic carbonates. Applied Catalysis B: Environmental, 2022, 313, 121463.	20.2	31
32	High-T_cferromagnetism in a Co-doped ZnO system dominated by the formation of a zinc-blende type Co-rich ZnCoO phase. Chemical Communications, 2012, 48, 91-93.	4.1	30
33	In Situ/Operando Capturing Unusual Ir⁶⁺ Facilitating Ultrafast Electrocatalytic Water Oxidation. Advanced Functional Materials, 2021, 31, 2104746.	14.9	29
34	Hybrid palladium nanoparticles and nickel single atom catalysts for efficient electrocatalytic ethanol oxidation. Journal of Materials Chemistry A, 2022, 10, 6129-6133.	10.3	28
35	Two-Dimensional Imprinting Strategy to Create Specific Nanotrap for Selective Uranium Adsorption with Ultrahigh Capacity. ACS Applied Materials & Interfaces, 2022, 14, 9408-9417.	8.0	28
36	Edge-selective decoration with ruthenium at graphitic nanoplatelets for efficient hydrogen production at universal pH. Nano Energy, 2020, 76, 105114.	16.0	25

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37	Robust Th-MOF-Supported Semirigid Single-Metal-Site Catalyst for an Efficient Acidic Oxygen Evolution Reaction. ACS Catalysis, 2022, 12, 9101-9113.	11.2	25
38	Highly Active Surface Structure in Nanosized Spinel Cobalt-Based Oxides for Electrocatalytic Water Splitting. Journal of Physical Chemistry C, 2018, 122, 14447-14458.	3.1	24
39	In Situ Exploring of the Origin of the Enhanced Oxygen Evolution Reaction Efficiency of Metal(Co/Fe)â€“Organic Framework Catalysts Via Postprocessing. ACS Catalysis, 2022, 12, 3138-3148.	11.2	24
40	A Large Family of Centrosymmetric and Chiral f-Element-Bearing Iodate Selenates Exhibiting Coordination Number and Dimensional Reductions. Inorganic Chemistry, 2018, 57, 1676-1683.	4.0	23
41	Extraction of local coordination structure in a low-concentration uranyl system by XANES. Journal of Synchrotron Radiation, 2016, 23, 758-768.	2.4	22
42	Understanding the origin of high oxygen evolution reaction activity in the high Sr-doped perovskite. Chinese Journal of Catalysis, 2020, 41, 592-597.	14.0	20
43	Dynamic structural transformation induced by defects in nano-rod FeOOH during electrochemical water splitting. Journal of Materials Chemistry A, 2022, 10, 602-610.	10.3	18
44	Promotion of the oxygen evolution reaction via the reconstructed active phase of perovskite oxide. Journal of Materials Chemistry A, 2022, 10, 2271-2279.	10.3	17
45	An Efficient Family of Misfitâ€Layered Calcium Cobalt Oxide Catalyst for Oxygen Evolution Reaction. Advanced Materials Interfaces, 2018, 5, 1801281.	3.7	16
46	In Situ Reduction from Uranyl Ion into a Tetravalent Uranium Trimer and Hexamer Featuring Ion-Exchange Properties and the Alexandrite Effect. Inorganic Chemistry, 2018, 57, 6753-6761.	4.0	16
47	Identifying the electrocatalytic active sites of a Ru-based catalyst with high Faraday efficiency in CO₂-saturated media for an aqueous Znâ€“CO₂ system. Journal of Materials Chemistry A, 2020, 8, 14927-14934.	10.3	16
48	Oneâ€Pot Green Process to Synthesize MXene with Controllable Surface Terminations using Molten Salts. Angewandte Chemie, 2021, 133, 27219-27224.	2.0	16
49	Substitutional Disorder of SeO₃^{2â€“}/IO₃^{â€“} in the Crystalline Solid Matrix: Insights into the Fate of Radionuclides ⁷⁹Se and ¹²⁹I in the Environment. Inorganic Chemistry, 2017, 56, 3702-3708.	4.0	14
50	The Dehydrogenation of Hâ€S Bond into Sulfur Species on Supported Pd Single Atoms Allows Highly Selective and Sensitive Hydrogen Sulfide Detection. Small, 2021, 17, e2105643.	10.0	14
51	Probing the Influence of Acidity and Temperature to Th(IV) on Hydrolysis, Nucleation, and Structural Topology. Inorganic Chemistry, 2017, 56, 14198-14205.	4.0	12
52	Tris-amidoximate uranyl complexesviaÎ·²binding mode coordinated in aqueous solution shown by X-ray absorption spectroscopy and density functional theory methods. Journal of Synchrotron Radiation, 2018, 25, 514-522.	2.4	12
53	High-performance functionalized polyethylene fiber for the capture of trace uranium in water. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 2393-2403.	1.5	11
54	Investigation of the local structure of molten ThF₄â€“LiF and ThF₄â€“LiFâ€“BeF₂ mixtures by high-temperature X-ray absorption spectroscopy and molecular-dynamics simulation. Journal of Synchrotron Radiation, 2019, 26, 1733-1741.	2.4	11

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55	Enhancing Thermocatalytic Activities by Upshifting the dâ€Band Center of Exsolved Coâ€Niâ€Fe Ternary Alloy Nanoparticles for the Dry Reforming of Methane. Angewandte Chemie, 2021, 133, 16048-16055.	2.0	11
56	Aâ€™â€“B Intersite Cooperation-Enhanced Water Splitting in Quadruple Perovskite Oxide CaCu₃Ir₄O₁₂. Chemistry of Materials, 2021, 33, 9295-9305.	6.7	11
57	Three-dimensional microstructural characterization of solid oxide electrolysis cell with Ce0.8Gd0.2O2-infiltrated Ni/YSZ electrode using focused ion beam-scanning electron microscopy. Journal of Solid State Electrochemistry, 2021, 25, 1633-1644.	2.5	10
58	The significant role of covalency in determining the ground state of cobalt phthalocyanines molecule. AIP Advances, 2016, 6, .	1.3	8
59	Uranium-Induced Changes in Crystal-Field and Covalency Effects of Th4+ in Th1â€“xUxO2 Mixed Oxides Probed by High-Resolution X-ray Absorption Spectroscopy. Inorganic Chemistry, 2018, 57, 11404-11413.	4.0	8
60	Transformation from a non-radical to a radical pathway via the amorphization of a Ni(OH)₂ catalyst as a peroxymonosulfate activator for the ultrafast degradation of organic pollutants. Nanoscale, 2021, 13, 7700-7708.	5.6	8
61	Controllable sites and high-capacity immobilization of uranium in Nd₂Zr₂O₇ pyrochlore. Journal of Synchrotron Radiation, 2022, 29, 37-44.	2.4	8
62	Hierarchically porous doped carbons fabricated by the strategy of ion transfer coordination (ITC). Journal of Materials Chemistry A, 2022, 10, 9129-9136.	10.3	8
63	Single Particle Hopping as an Indicator for Evaluating Electrocatalysts. Nano Letters, 2022, 22, 5495-5502.	9.1	8
64	Th(H2O)(IVO3)2[IVII0.6V1.76O7(OH)]: A Mixed-Valent Iodine Compound Containing Periodate Stabilized by Crystallographically Compatible Lattice Sites. Inorganic Chemistry, 2016, 55, 12101-12104.	4.0	7
65	A Tunable Amorphous Heteronuclear Iron and Cobalt Imidazolate Framework Analogue for Efficient Oxygen Evolution Reactions. European Journal of Inorganic Chemistry, 2021, 2021, 702-707.	2.0	7
66	First-Principles Insight into the Effects of Intrinsic Oxygen Defects on Proton Conduction in Ruddlesdenâ€“Popper Oxides. Journal of Physical Chemistry Letters, 2021, 12, 11503-11510.	4.6	7
67	Molten Salt Treated Cu Foam Catalyst for Selective Electrochemical CO 2 Reduction Reaction. ChemistrySelect, 2020, 5, 11927-11933.	1.5	6
68	Investigation of Pore Structures in Shallow Longmaxi Shale, South China, via Large-Area Electron Imaging and Neutron Scattering Techniques. Energy & Fuels, 2020, 34, 7974-7984.	5.1	5
69	Growth of LaCoO₃ crystals in molten salt: effects of synthesis conditions. CrystEngComm, 2021, 23, 671-677.	2.6	5
70	Rational Design of Two-Layer Fe-Doped PrBa_{0.8}Ca_{0.2}Co₂O_{6â^Î´} Double Perovskite Oxides for High-Performance Fuel Cell Cathodes. Journal of Physical Chemistry C, 2021, 125, 26448-26459.	3.1	5
71	Immobilization of Alkali Metal Fluorides via Recrystallization in a Cationic Lamellar Material, [Th(MoO₄)(H₂O)₄Cl]ClÂ·H₂O. Inorganic Chemistry, 2018, 57, 6778-6782.	4.0	3
72	Phase junction-confined single-atom TiO₂â€“Pt₁â€“CeO₂ for multiplying catalytic oxidation efficiency. Catalysis Science and Technology, 2021, 11, 4650-4657.	4.1	3

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73	Atomic controllable anchoring of uranium into zirconate pyrochlore with ultrahigh loading capacity. Chemical Communications, 2022, 58, 3469-3472.	4.1	3
74	A positive valorization way of sludge compost: recycling it to turfgrass instead of partial conventional substrate. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2017, 67, 518-523.	0.6	1
75	Efficiently immobilizing uranium (VI) by oxidized carbon foam. Environmental Science and Pollution Research, 2021, 28, 50471-50479.	5.3	1