

Ning Chen

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114
papers

5,831
citations

32
h-index

75
g-index

119
ext. papers

7,483
ext. citations

9.4
avg, IF

5.86
L-index

#	Paper	IF	Citations
114	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , 2016 , 352, 333-7	33.3	1459
113	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , 2013 , 3,	4.9	589
112	Single-Atom Au/NiFe Layered Double Hydroxide Electrocatalyst: Probing the Origin of Activity for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3876-3879	16.4	560
111	Graphene Defects Trap Atomic Ni Species for Hydrogen and Oxygen Evolution Reactions. <i>Chem</i> , 2018 , 4, 285-297	16.2	436
110	Atomic layer deposited Pt-Ru dual-metal dimers and identifying their active sites for hydrogen evolution reaction. <i>Nature Communications</i> , 2019 , 10, 4936	17.4	186
109	A Promoted Charge Separation/Transfer System from Cu Single Atoms and C N Layers for Efficient Photocatalysis. <i>Advanced Materials</i> , 2020 , 32, e2003082	24	144
108	Removal of hexavalent chromium in aqueous solutions using biochar: Chemical and spectroscopic investigations. <i>Science of the Total Environment</i> , 2018 , 625, 1567-1573	10.2	139
107	Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16427-16432	16.4	113
106	Catalytic oxidation of toluene by ozone over alumina supported manganese oxides: Effect of catalyst loading. <i>Applied Catalysis B: Environmental</i> , 2013 , 136-137, 239-247	21.8	91
105	Structural Evolution and Redox Processes Involved in the Electrochemical Cycling of $P2Na0.67[Mn0.66Fe0.20Cu0.14]O2$. <i>Chemistry of Materials</i> , 2017 , 29, 6684-6697	9.6	84
104	Facile synthesis of highly efficient ZnO/ZnFe2O4 photocatalyst using earth-abundant sphalerite and its visible light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 324-336	21.8	83
103	Ultra-long life rechargeable zinc-air battery based on high-performance trimetallic nitride and NCNT hybrid bifunctional electrocatalysts. <i>Nano Energy</i> , 2019 , 61, 86-95	17.1	82
102	Effects of Si/Al ratio and Pt loading on Pt/SAPO-11 catalysts in hydroconversion of Jatropha oil. <i>Applied Catalysis A: General</i> , 2013 , 466, 105-115	5.1	81
101	Effect of reduction temperature of NiMoO _{3-x} /SAPO-11 on its catalytic activity in hydrodeoxygenation of methyl laurate. <i>Applied Catalysis B: Environmental</i> , 2015 , 174-175, 253-263	21.8	68
100	Photoelectric conversion on Earth's surface via widespread Fe- and Mn-mineral coatings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 9741-9746	11.5	62
99	Rates and mechanisms of Zn ²⁺ adsorption on a meat and bonemeal biochar. <i>Environmental Science & Technology</i> , 2013 , 47, 14350-7	10.3	62
98	Thermodynamic Analysis of Nickel(II) and Zinc(II) Adsorption to Biochar. <i>Environmental Science & Technology</i> , 2018 , 52, 6246-6255	10.3	58

97	Solution-Phase Structure and Bonding of Au ₃₈ (SR) ₂₄ Nanoclusters from X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 65-69	3.8	53
96	Li ₁₀ Ge(P _{1-x} Sb _x) ₂ S ₁₂ Lithium-Ion Conductors with Enhanced Atmospheric Stability. <i>Chemistry of Materials</i> , 2020 , 32, 2664-2672	9.6	50
95	Generating Oxygen Vacancies in MnO Hexagonal Sheets for Ultralong Life Lithium Storage with High Capacity. <i>ACS Nano</i> , 2019 , 13, 2062-2071	16.7	47
94	Elucidation of the active phase in PtSn/SAPO-11 for hydrodeoxygenation of methyl palmitate. <i>Journal of Catalysis</i> , 2016 , 334, 79-88	7.3	44
93	Effect of noble metals on activity of MnO _x /Alumina catalyst in catalytic ozonation of toluene. <i>Chemical Engineering Journal</i> , 2013 , 214, 219-228	14.7	43
92	Litchi-like porous Fe/N/C spheres with atomically dispersed Fe _{Nx} promoted by sulfur as highly efficient oxygen electrocatalysts for Zn air batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4605-4610 ¹³		43
91	A self-supported electrode as a high-performance binder- and carbon-free cathode for rechargeable hybrid zinc batteries. <i>Energy Storage Materials</i> , 2020 , 24, 272-280	19.4	41
90	Mechanisms of the Removal of U(VI) from Aqueous Solution Using Biochar: A Combined Spectroscopic and Modeling Approach. <i>Environmental Science & Technology</i> , 2018 , 52, 13057-13067 ^{10.3}		41
89	Scalable and controllable synthesis of atomic metal electrocatalysts assisted by an egg-box in alginate. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18417-18425	13	38
88	Self-Reconstruction of Co/Co ₂ P Heterojunctions Confined in N-Doped Carbon Nanotubes for Zinc air Flow Batteries. <i>ACS Energy Letters</i> , 1153-1161	20.1	37
87	Origin of Superionic LiYInCl Halide Solid Electrolytes with High Humidity Tolerance. <i>Nano Letters</i> , 2020 , 20, 4384-4392	11.5	35
86	Effect of surface modification with silica on the structure and activity of Pt/ZSM-22@SiO ₂ catalysts in hydrodeoxygenation of methyl palmitate. <i>Journal of Catalysis</i> , 2017 , 345, 124-134	7.3	34
85	Retention and chemical speciation of uranium in an oxidized wetland sediment from the Savannah River Site. <i>Journal of Environmental Radioactivity</i> , 2014 , 131, 40-6	2.4	34
84	Spectroscopic evidence of uranium immobilization in acidic wetlands by natural organic matter and plant roots. <i>Environmental Science & Technology</i> , 2015 , 49, 2823-32	10.3	33
83	Reservoirs of Selenium in Coal Waste Rock: Elk Valley, British Columbia, Canada. <i>Environmental Science & Technology</i> , 2015 , 49, 8228-36	10.3	32
82	Size-Mediated Recurring Spinel Sub-nanodomains in Li- and Mn-Rich Layered Cathode Materials. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14313-14320	16.4	32
81	Atomic Layer Deposited Non-Noble Metal Oxide Catalyst for Sodium air Batteries: Tuning the Morphologies and Compositions of Discharge Product. <i>Advanced Functional Materials</i> , 2017 , 27, 1606662 ^{15.6}		30
80	Structural disorder controlled oxygen vacancy and photocatalytic activity of spinel-type minerals: A case study of ZnFe ₂ O ₄ . <i>Chemical Geology</i> , 2019 , 504, 276-287	4.2	30

79	Extended X-ray Absorption Fine Structure and Density Functional Theory Studies on the Complexation Mechanism of Amidoximate Ligand to Uranyl Carbonate. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 4224-4230	3.9	29
78	Tissue-specific accumulation and speciation of selenium in rainbow trout (<i>Oncorhynchus mykiss</i>) exposed to elevated dietary selenomethionine. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2012 , 155, 560-5	3.2	29
77	Ultrafast Time-Resolved X-ray Absorption Spectroscopy of Ferrioxalate Photolysis with a Laser Plasma X-ray Source and Microcalorimeter Array. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1099-1104	6.4	28
76	Arsenic speciation in synthetic gypsum ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$): A synchrotron XAS, single-crystal EPR, and pulsed ENDOR study. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 106, 524-540	5.5	28
75	Formation and Immobilization of Cr(VI) Species in Long-Term Tannery Waste Contaminated Soils. <i>Environmental Science & Technology</i> , 2020 , 54, 7226-7235	10.3	27
74	PGM-Free Fe/N/C and Ultralow Loading Pt/C Hybrid Cathode Catalysts with Enhanced Stability and Activity in PEM Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13739-13749	9.5	27
73	Pressure-driven catalyst synthesis of Co-doped Fe ₃ C@Carbon nano-onions for efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118385	21.8	27
72	Cobalt (II) oxide nanosheets with rich oxygen vacancies as highly efficient bifunctional catalysts for ultra-stable rechargeable Zn-air flow battery. <i>Nano Energy</i> , 2021 , 79, 105409	17.1	27
71	Li-ion storage dynamics in metastable nanostructured Li ₂ FeSiO ₄ cathode: Antisite-induced phase transition and lattice oxygen participation. <i>Journal of Power Sources</i> , 2016 , 329, 355-363	8.9	24
70	Arsenic incorporation in synthetic struvite ($\text{NH}_4\text{MgPO}_4 \cdot 6\text{H}_2\text{O}$): a synchrotron XAS and single-crystal EPR study. <i>Environmental Science & Technology</i> , 2013 , 47, 12728-35	10.3	24
69	Uranium association with iron-bearing phases in mill tailings from Gunnar, Canada. <i>Environmental Science & Technology</i> , 2013 , 47, 12695-702	10.3	20
68	Beyond Platinum: Defects Abundant CoP ₃ /Ni ₂ P Heterostructure for Hydrogen Evolution Electrocatalysis. <i>Small Science</i> , 2021 , 1, 2000027		20
67	Molten salt-assisted synthesis of bulk CoOOH as a water oxidation catalyst. <i>Journal of Energy Chemistry</i> , 2020 , 42, 5-10	12	20
66	Geochemical characteristics of oil sands fluid petroleum coke. <i>Applied Geochemistry</i> , 2017 , 76, 148-158	3.5	19
65	Role of Surface Carboxylates in the Gas Phase Ozone-Assisted Catalytic Oxidation of Toluene. <i>Catalysis Letters</i> , 2017 , 147, 2421-2433	2.8	19
64	Characterizing Zinc Speciation in Soils from a Smelter-Affected Boreal Forest Ecosystem. <i>Journal of Environmental Quality</i> , 2016 , 45, 684-92	3.4	19
63	Micro-nanostructured BiO with surface oxygen vacancies as superior adsorbents for SeO ions. <i>Journal of Hazardous Materials</i> , 2018 , 360, 279-287	12.8	18
62	A general strategy for preparing pyrrolic-N type single-atom catalysts via pre-located isolated atoms. <i>Nature Communications</i> , 2021 , 12, 6806	17.4	18

61	Pressure-promoted irregular CoMoP ₂ nanoparticles activated by surface reconstruction for oxygen evolution reaction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2001-2007	13	18
60	Low Temperature Catalytic Oxidation of Binary Mixture of Toluene and Acetone in the Presence of Ozone. <i>Catalysis Letters</i> , 2018 , 148, 3431-3444	2.8	17
59	Insight into cathode surface to boost the performance of solid-state batteries. <i>Energy Storage Materials</i> , 2021 , 35, 661-668	19.4	16
58	NiMo nitride supported on γ -Al ₂ O ₃ for hydrodeoxygenation of oleic acid: Novel characterization and activity study. <i>Catalysis Today</i> , 2017 , 291, 153-159	5.3	14
57	Spontaneous reaction between an uncharged lithium iron silicate cathode and a LiPF ₆ -based electrolyte. <i>Chemical Communications</i> , 2016 , 52, 190-3	5.8	14
56	Synthesis and crystal structure of a new open-framework iron phosphate (NH ₄) ₄ Fe ₃ (OH)2F ₂ [H ₃ (PO ₄) ₄]: Novel linear trimer of corner-sharing Fe(III) octahedra. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 2763-2769	3.3	14
55	Electron paramagnetic resonance spectroscopic study of synthetic fluorapatite: Part I. Local structural environment and substitution mechanism of Gd ³⁺ at the Ca ₂ site. <i>American Mineralogist</i> , 2002 , 87, 37-46	2.9	14
54	Reusable magnetite nanoparticles-biochar composites for the efficient removal of chromate from water. <i>Scientific Reports</i> , 2020 , 10, 19007	4.9	14
53	Influence of heavy metal sorption pathway on the structure of biogenic birnessite: Insight from the band structure and photostability. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 256, 116-134	5.5	14
52	Uptake and speciation of uranium in synthetic gypsum (CaSO ₄ ·2H ₂ O): Applications to radioactive mine tailings. <i>Journal of Environmental Radioactivity</i> , 2018 , 181, 8-17	2.4	13
51	Sequestration of Selenite and Selenate in Gypsum (CaSO ₄ ·2H ₂ O): Insights from the Single-Crystal Electron Paramagnetic Resonance Spectroscopy and Synchrotron X-ray Absorption Spectroscopy Study. <i>Environmental Science & Technology</i> , 2020 , 54, 3169-3180	10.3	12
50	The effect of Ni on the kinetics of electroless Cu film deposition. <i>Thin Solid Films</i> , 2017 , 626, 131-139	2.2	11
49	Iron pairs in beryl: New insights from electron paramagnetic resonance, synchrotron X-ray absorption spectroscopy, and ab initio calculations. <i>American Mineralogist</i> , 2013 , 98, 1745-1753	2.9	11
48	Novel Superstructure-Phase Two-Dimensional Material 1-VSe at High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 380-386	6.4	11
47	Cobalt-Phthalocyanine-Derived Molecular Isolation Layer for Highly Stable Lithium Anode. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19852-19859	16.4	11
46	Origin of hetero-nuclear Au-Co dual atoms for efficient acidic oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2021 , 301, 120782	21.8	11
45	Cu(II) sorption by biogenic birnessite produced by <i>Pseudomonas putida</i> strain MnB1: structural differences from abiotic birnessite and its environmental implications. <i>CrystEngComm</i> , 2018 , 20, 1361-1374	3.3	10
44	Rational synthesis of CaCo ₂ O ₄ nanoplate as an earth-abundant electrocatalyst for oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2019 , 31, 125-131	12	10

43	Linker-Compensated Metal-Organic Framework with Electron Delocalized Metal Sites for Bifunctional Oxygen Electrocatalysis.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	10
42	Iodine speciation in a silver-amended cementitious system. <i>Environment International</i> , 2019 , 126, 576-584	4.9	9
41	Electron paramagnetic resonance spectroscopic study of synthetic fluorapatite: Part II. Gd ³⁺ at the Ca ₁ site, with a neighboring Ca ₂ vacancy. <i>American Mineralogist</i> , 2002 , 87, 47-55	2.9	9
40	FCC tantalum thin films deposited by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2019 , 358, 942-946	4.4	9
39	Arsenic speciation in newberyite (MgHPO ₄ ·2H ₂ O) determined by synchrotron X-ray absorption and electron paramagnetic resonance spectroscopies: implications for the fate of arsenic in green fertilizers. <i>Environmental Science & Technology</i> , 2014 , 48, 6938-46	10.3	8
38	X-ray induced synthesis of a novel material: Stable, doped solid CO at ambient conditions. <i>Chemical Physics Letters</i> , 2017 , 686, 183-188	2.5	8
37	Iron-regulated NiPS for enhanced oxygen evolution efficiency. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23580-23589	13	8
36	Uranium-Induced Changes in Crystal-Field and Covalency Effects of Th in ThU O Mixed Oxides Probed by High-Resolution X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , 2018 , 57, 11404-11413	5.1	7
35	Non-Henry Law behavior of REE partitioning between fluorapatite and CaF ₂ -rich melts: Controls of intrinsic vacancies and implications for natural apatites. <i>Geochimica Et Cosmochimica Acta</i> , 2003 , 67, 1889-1900	5.5	7
34	Highly stable halide electrolyte-based all-solid-state Li-Se batteries.. <i>Advanced Materials</i> , 2022 , e2200856	6.4	7
33	Fingerprint Feature of Atomic Intermixing in Supported AuPd Nanocatalysts Probed by X-ray Absorption Fine Structure. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 28385-28394	3.8	6
32	Molecular Interaction of Aqueous Iodine Species with Humic Acid Studied by I and C K-Edge X-ray Absorption Spectroscopy. <i>Environmental Science & Technology</i> , 2019 , 53, 12416-12424	10.3	5
31	Room temperature oxidation of acetone by ozone over alumina-supported manganese and cobalt mixed oxides. <i>Frontiers of Chemical Science and Engineering</i> , 2020 , 14, 937-947	4.5	5
30	Diamond nucleation and growth on WC-Co inserts with Cr ₂ O ₃ -Cr interlayer. <i>Surface and Coatings Technology</i> , 2018 , 340, 190-198	4.4	5
29	Local structure investigation of Ga and Yb dopants in Co ₄ Sb ₁₂ skutterudites. <i>Physical Review B</i> , 2017 , 96,	3.3	5
28	Pressure-driven suppression of the Jahn-Teller effects and structural changes in cupric oxide. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 025401	1.8	5
27	Uranyl binding mechanism in microcrystalline silicas: A potential missing link for uranium mineralization by direct uranyl co-precipitation and environmental implications. <i>Geochimica Et Cosmochimica Acta</i> , 2021 , 292, 518-531	5.5	5
26	Highly active g-C ₃ N ₄ photocatalysts modified with transition metal cobalt for hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4378-4384	7.1	5

25	A Series of Ternary Metal Chloride Superionic Conductors for High-Performance All-Solid-State Lithium Batteries. <i>Advanced Energy Materials</i> , 2103921	21.8	5
24	Mechanism of Gd ³⁺ uptake in gypsum (CaSO ₄ ·2H ₂ O): Implications for EPR dating, REE recovery and REE behavior. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 258, 63-78	5.5	4
23	Revealing Dopant Local Structure of Se-Doped Black Phosphorus. <i>Chemistry of Materials</i> , 2021, 33, 2029-2036	9.0	4
22	Square-pyramidal Fe-N ₄ with defect-modulated O-coordination: Two-tier electronic structure fine-tuning for enhanced oxygen reduction. <i>Chem Catalysis</i> , 2022,		4
21	Deciphering the Dynamic Structure Evolution of Fe- and Ni-Codoped CoS ₂ for Enhanced Water Oxidation. <i>ACS Catalysis</i> , 2022, 12, 3743-3751	13.1	4
20	Atomically Dispersed Fe-Co Bimetallic Catalysts for the Promoted Electroreduction of Carbon Dioxide. <i>Nano-Micro Letters</i> , 2021, 14, 25	19.5	4
19	Oxygen atom release during selenium oxyanion adsorption on goethite and hematite. <i>Applied Geochemistry</i> , 2020, 117, 104605	3.5	3
18	Arsenic speciation in danburite (CaB ₂ Si ₂ O ₈): a synchrotron XAS and single-crystal EPR study. <i>European Journal of Mineralogy</i> , 2014, 26, 113-125	2.2	3
17	Effects of Dolomitic Limestone Application on Zinc Speciation in Boreal Forest Smelter-Contaminated Soils. <i>Journal of Environmental Quality</i> , 2016, 45, 1894-1900	3.4	3
16	Spectroscopic and Modeling Investigation of Sorption of Pb(II) to ZSM-5 Zeolites. <i>ACS ES&T Water</i> , 2021, 1, 108-116		3
15	Enhancing Catalytic Ozonation of Acetone and Toluene in Air Using MnO _x /Al ₂ O ₃ Catalysts at Room Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 12252-12264	3.9	3
14	Single-step Hydroconversion of Jatropha Oil to High Quality Fuel Oil over Reduced Nickel-Molybdenum Catalysts. <i>Journal of the Japan Petroleum Institute</i> , 2013, 56, 249-252	1	2
13	Cu Electrodeposition on Nanostructured MoS ₂ and WS ₂ and Implications for HER Active Site Determination. <i>Journal of the Electrochemical Society</i> , 2020, 167, 116517	3.9	2
12	XAS characterization of nano-chromite particles precipitated on magnetite-biochar composites. <i>Radiation Physics and Chemistry</i> , 2020, 175, 108544	2.5	2
11	Photo-stimulated anoxic reduction of birnessite (EMnO ₂) by citrate and its fine structural responses: Insights on a proton-promoted photoelectron transfer process. <i>Chemical Geology</i> , 2021, 561, 120029	4.2	2
10	In Operando XANES & XRD Investigation into the Rate-Dependent Transport Properties of Lithium Iron Silicate Cathodes. <i>MRS Advances</i> , 2017, 2, 419-424	0.7	1
9	Elucidating the reaction pathway of crystalline multi-metal borides for highly efficient oxygen-evolving electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1569-1578	13	1
8	Interaction between filler species in double-filled skutterudites. <i>Physical Review Materials</i> , 2018, 2,	3.2	1

7	Molecular Structure of Molybdate Adsorption on Goethite at pH 5B: A Combined DFT + U, EXAFS, and Ab Initio XANES Study. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 22052-22063	3.8	1
6	Lead (Pb) sorption to hydrophobic and hydrophilic zeolites in the presence and absence of MTBE. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126528	12.8	1
5	Non-Noble-Metal Catalyst of Cu/g-C ₃ N ₄ for Efficient Photocatalytic Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2021 , 4, 13796-13802	6.1	1
4	A Multidimensional Topotactic Host Composite Anode Toward Transparent Flexible Potassium-Ion Microcapacitors.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
3	Anharmonicity in partially filled skutterudites YbxCo4Sb12. <i>Journal of Applied Physics</i> , 2021 , 130, 185105.	5.5	0
2	Highly Active Sites in Quaternary LnPdAsO (Ln = La, Ce, Pr) with Excellent Catalytic Activity for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4302-4307	6.1	0
1	Competing Sorption of Se(IV) and Se(VI) on Schwertmannite. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 764.	2.4	0