

Ning Chen

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3003039/ning-chen-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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
113	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
112	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
111	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
110	Highly stable halide electrolyte-based all-solid-state Li-Se batteries.. <i>Advanced Materials</i> , 2022 , e22008564	6.4	7
109	Anharmonicity in partially filled skutterudites YbxCo ₄ Sb ₁₂ . <i>Journal of Applied Physics</i> , 2021 , 130, 185105.	5.5	0
108	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
107	Molecular Structure of Molybdate Adsorption on Goethite at pH 5.8: A Combined DFT + U, EXAFS, and Ab Initio XANES Study. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 22052-22063	3.8	1
106	Revealing Dopant Local Structure of Se-Doped Black Phosphorus. <i>Chemistry of Materials</i> , 2021 , 33, 2029-2036	4.0	4
105	Beyond Platinum: Defects Abundant CoP ₃ /Ni ₂ P Heterostructure for Hydrogen Evolution Electrocatalysis. <i>Small Science</i> , 2021 , 1, 2000027		20
104	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
103	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
102	Insight into cathode surface to boost the performance of solid-state batteries. <i>Energy Storage Materials</i> , 2021 , 35, 661-668	19.4	16
101	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
100	Spectroscopic and Modeling Investigation of Sorption of Pb(II) to ZSM-5 Zeolites. <i>ACS ES&T Water</i> , 2021 , 1, 108-116		3
99	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
98	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

97	Cobalt-Phthalocyanine-Derived Molecular Isolation Layer for Highly Stable Lithium Anode. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19852-19859	16.4	11
96	Competing Sorption of Se(IV) and Se(VI) on Schwertmannite. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 764-774	2.4	0
95	Enhancing Catalytic Ozonation of Acetone and Toluene in Air Using MnOx/Al ₂ O ₃ Catalysts at Room Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 12252-12264	3.9	3
94	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
93	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
92	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
91	Atomically Dispersed Fe-Co Bimetallic Catalysts for the Promoted Electroreduction of Carbon Dioxide. <i>Nano-Micro Letters</i> , 2021 , 14, 25	19.5	4
90	A Multidimensional Topotactic Host Composite Anode Toward Transparent Flexible Potassium-Ion Microcapacitors. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
89	Origin of Superionic LiYInCl Halide Solid Electrolytes with High Humidity Tolerance. <i>Nano Letters</i> , 2020 , 20, 4384-4392	11.5	35
88	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
87	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
86	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
85	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
84	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
83	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
82	Li ₁₀ Ge(P _{1-x} Sbx) ₂ S ₁₂ Lithium-Ion Conductors with Enhanced Atmospheric Stability. <i>Chemistry of Materials</i> , 2020 , 32, 2664-2672	9.6	50
81	Oxygen atom release during selenium oxyanion adsorption on goethite and hematite. <i>Applied Geochemistry</i> , 2020 , 117, 104605	3.5	3
80	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

79	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
78	XAS characterization of nano-chromite particles precipitated on magnetite-biochar composites. <i>Radiation Physics and Chemistry</i> , 2020 , 175, 108544	2.5	2
77	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
76	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
75	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
74	Iron-regulated NiPS for enhanced oxygen evolution efficiency. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23580-23589	13	8
73	Reusable magnetite nanoparticles-biochar composites for the efficient removal of chromate from water. <i>Scientific Reports</i> , 2020 , 10, 19007	4.9	14
72	Molten salt-assisted synthesis of bulk CoOOH as a water oxidation catalyst. <i>Journal of Energy Chemistry</i> , 2020 , 42, 5-10	12	20
71	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
70	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
69	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
68	Iodine speciation in a silver-amended cementitious system. <i>Environment International</i> , 2019 , 126, 576-584	2.9	9
67	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
66	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
65	Water-Mediated Synthesis of a Superionic Halide Solid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16427-16432	16.4	113
64	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
63	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
62	FCC tantalum thin films deposited by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2019 , 358, 942-946	4.4	9

61	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
60	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
59	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
58	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
57	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
56	Graphene Defects Trap Atomic Ni Species for Hydrogen and Oxygen Evolution Reactions. <i>Chem</i> , 2018 , 4, 285-297	16.2	436
55	Facile synthesis of highly efficient ZnO/ZnFe ₂ O ₄ photocatalyst using earth-abundant sphalerite and its visible light photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 324-336	21.8	83
54	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
53	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
52	Thermodynamic Analysis of Nickel(II) and Zinc(II) Adsorption to Biochar. <i>Environmental Science & Technology</i> , 2018 , 52, 6246-6255	10.3	58
51	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
50	Uranium-Induced Changes in Crystal-Field and Covalency Effects of Th in Th-U O Mixed Oxides Probed by High-Resolution X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , 2018 , 57, 11404-11413	5.1	7
49	Interaction between filler species in double-filled skutterudites. <i>Physical Review Materials</i> , 2018 , 2,	3.2	1
48	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
47	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
46	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
45	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
44	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

43	The effect of Ni on the kinetics of electroless Cu film deposition. <i>Thin Solid Films</i> , 2017 , 626, 131-139	2.2	11
42	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
41	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
40	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
39	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
38	Geochemical characteristics of oil sands fluid petroleum coke. <i>Applied Geochemistry</i> , 2017 , 76, 148-158	3.5	19
37	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
36	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
35	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
34	Structural Evolution and Redox Processes Involved in the Electrochemical Cycling of P2Ni _{0.67} [Mn _{0.66} Fe _{0.20} Cu _{0.14}]O ₂ . <i>Chemistry of Materials</i> , 2017 , 29, 6684-6697	9.6	84
33	Local structure investigation of Ga and Yb dopants in Co ₄ Sb ₁₂ skutterudites. <i>Physical Review B</i> , 2017 , 96,	3.3	5
32	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
31	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , 2016 , 352, 333-7	33.3	1459
30	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
29	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
28	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
27	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
26	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

25	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
24	Reservoirs of Selenium in Coal Waste Rock: Elk Valley, British Columbia, Canada. <i>Environmental Science & Technology</i> , 2015 , 49, 8228-36	10.3	32
23	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
22	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
21	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
20	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
19	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
18	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
17	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
16	Arsenic incorporation in synthetic struvite (NH ₄ MgPO ₄ ·6H ₂ O): a synchrotron XAS and single-crystal EPR study. <i>Environmental Science & Technology</i> , 2013 , 47, 12728-35	10.3	24
15	Uranium association with iron-bearing phases in mill tailings from Gunnar, Canada. <i>Environmental Science & Technology</i> , 2013 , 47, 12695-702	10.3	20
14	Arsenic speciation in synthetic gypsum (CaSO ₄ ·2H ₂ O): A synchrotron XAS, single-crystal EPR, and pulsed ENDOR study. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 106, 524-540	5.5	28
13	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
12	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , 2013 , 3,	4.9	589
11	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
10	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
9	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
8	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

7	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
6	Synthesis and crystal structure of a new open-framework iron phosphate (NH ₄) ₄ Fe ₃ (OH) ₂ F 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
5	Non-Henry's 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
4	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
3	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
2	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
1	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