

# Wei Jin

## List of Publications by Year in descending order

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104  
papers

4,734  
citations

94433

37  
h-index

110387

64  
g-index

106  
all docs

106  
docs citations

106  
times ranked

5361  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Progress of Vacancy Engineering for Electrochemical Energy Conversion Related Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2009070.	14.9	166
2	Simultaneous and precise recovery of lithium and boron from salt lake brine by capacitive deionization with oxygen vacancy-rich CoP/Co <sub>3</sub> O <sub>4</sub> -graphene aerogel. <i>Chemical Engineering Journal</i> , 2021, 420, 127661.	12.7	24
3	Sensitive Electrochemical Detection of Pb(II) and H <sub>2</sub> O <sub>2</sub> via a Dual-Functional Sn-doped Defective Bi <sub>2</sub> S <sub>3</sub> Microspheres. <i>Electroanalysis</i> , 2021, 33, 947-955.	2.9	3
4	Corrosion Engineering on Iron Foam toward Efficiently Electrocatalytic Overall Water Splitting Powered by Sustainable Energy. <i>Advanced Functional Materials</i> , 2021, 31, 2010437.	14.9	125
5	Towards source reduction and green sustainability of metal-bearing waste streams: The electrochemical processes. <i>Electrochimica Acta</i> , 2021, 374, 137937.	5.2	8
6	Functional nanomaterial-derived electrochemical sensor and biosensor platforms for biomedical applications. , 2020, , 297-327.		10
7	Rational design of Cu-Co thiospinel ternary sheet arrays for highly efficient electrocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1799-1807.	10.3	48
8	Sustainable Valuable Metal Recovery from the V-Cr-Fe Ternary Slime via Leaching-Selective Complexation. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 958-965.	6.7	5
9	Highly efficient SnS-decorated Bi <sub>2</sub> O <sub>3</sub> nanosheets for simultaneous electrochemical detection and removal of Cd(II) and Pb(II). <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113744.	3.8	53
10	Cobalt oxide, sulfide and phosphide-decorated carbon felt for the capacitive deionization of lead ions. <i>Separation and Purification Technology</i> , 2020, 237, 116343.	7.9	27
11	Thermodynamic insight into the growth of nanoscale inclusion of Al-deoxidation in Fe-Al melt. <i>Scientific Reports</i> , 2020, 10, 16909.	3.3	3
12	Bifunctional electrochemical detection of organic molecule and heavy metal at two-dimensional Sn-In <sub>2</sub> S <sub>3</sub> nanocomposite. <i>Microchemical Journal</i> , 2020, 159, 105454.	4.5	4
13	Recent Advances in Catalyst Development for Transesterification of Dialkyl Carbonates with Phenol. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 20630-20645.	3.7	3
14	Interface engineering of oxygen-vacancy-rich NiCo <sub>2</sub> O <sub>4</sub> /NiCoP heterostructure as an efficient bifunctional electrocatalyst for overall water splitting. <i>Catalysis Science and Technology</i> , 2020, 10, 5559-5565.	4.1	43
15	Recent development of two-dimensional metal-organic framework derived electrocatalysts for hydrogen and oxygen electrocatalysis. <i>Nanoscale</i> , 2020, 12, 18497-18522.	5.6	69
16	Editorial: Carbon-Based Bifunctional Oxygen Electrocatalysts. <i>Frontiers in Chemistry</i> , 2020, 8, 713.	3.6	2
17	Atomically Dispersed CoN <sub>4</sub> /B, N-C Nanotubes Boost Oxygen Reduction in Rechargeable Zn-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 4539-4548.	5.1	53
18	Sulfurated Metal-Organic Framework-Derived Nanocomposites for Efficient Bifunctional Oxygen Electrocatalysis and Rechargeable Zn-Air Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9226-9234.	6.7	79

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19	Sustainable Electrochemical Extraction of Metal Resources from Waste Streams: From Removal to Recovery. ACS Sustainable Chemistry and Engineering, 2020, 8, 4693-4707.	6.7	84
20	High-efficiency extraction of aluminum from low-grade kaolin via a novel low-temperature activation method for the preparation of poly-aluminum-ferric-sulfate coagulant. Journal of Cleaner Production, 2020, 257, 120399.	9.3	18
21	Engineering Multimetallic Aerogels for pH-Universal HER and ORR Electrocatalysis. Advanced Energy Materials, 2020, 10, 1903857.	19.5	83
22	Plasticization-induced oriented micro-channels within polymer inclusion membranes for facilitating Cu(II) transport. Journal of Molecular Liquids, 2020, 301, 112457.	4.9	9
23	Ionic Liquid-Assisted Exfoliation of Two-Dimensional Metal-Organic Frameworks for Luminescent Sensing. ACS Sustainable Chemistry and Engineering, 2020, 8, 2167-2175.	6.7	27
24	Extraction separation of copper and cobalt dependent on intermolecular interaction between Cyanex302 and Cyphos IL101. Separation and Purification Technology, 2020, 240, 116625.	7.9	5
25	Coral-like carbon-wrapped NiCo alloys derived by emulsion aggregation strategy for efficient oxygen evolution reaction. Journal of Colloid and Interface Science, 2020, 573, 96-104.	9.4	36
26	Morphology-controllable formation of MOF-Derived C/ZrO <sub>2</sub> @1T-2H MoS <sub>2</sub> heterostructure for improved electrocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2020, 45, 14831-14840.	7.1	8
27	Understanding the features of PGMs in spent ternary automobile catalysts for development of cleaner recovery technology. Journal of Cleaner Production, 2019, 239, 118031.	9.3	66
28	Dual-functional porous copper films modulated via dynamic hydrogen bubble template for in situ SERS monitoring electrocatalytic reaction. Applied Surface Science, 2019, 494, 731-739.	6.1	21
29	Simultaneous Phenol Detoxification and Dilute Metal Recovery in Cyclone Electrochemical Reactor. Industrial & Engineering Chemistry Research, 2019, 58, 12642-12649.	3.7	21
30	Oxygen Vacancy-Rich In-Doped CoO/CoP Heterostructure as an Effective Air Cathode for Rechargeable Zn-Air Batteries. Small, 2019, 15, e1904210.	10.0	142
31	Thermodynamic Modelling on Nanoscale Growth of Magnesia Inclusion in Fe-O-Mg Melt. Metals, 2019, 9, 174.	2.3	2
32	Inhibition Role of Trace Metal Ion Additives on Zinc Dendrites during Plating and Stripping Processes. Advanced Materials Interfaces, 2019, 6, 1901358.	3.7	46
33	Defective graphene aerogel-supported Bi-CoP nanoparticles as a high-potential air cathode for rechargeable Zn-air batteries. Journal of Materials Chemistry A, 2019, 7, 22507-22513.	10.3	39
34	Facile synthesis of core-shell CuS-Cu <sub>2</sub> S based nanocomposite for the high-performance glucose detection. Materials Science and Engineering C, 2019, 105, 110120.	7.3	22
35	Sustainable synthesis of nitrogen-doped porous carbon with improved electrocatalytic performance for hydrogen evolution. New Journal of Chemistry, 2019, 43, 3078-3083.	2.8	10
36	<i>In situ</i> growth of CuS decorated graphene oxide-multiwalled carbon nanotubes for ultrasensitive H <sub>2</sub> O <sub>2</sub> detection in alkaline solution. New Journal of Chemistry, 2019, 43, 3309-3316.	2.8	13

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37	High-Performance Capacitive Deionization of Copper Ions at Nanoporous ZnS-Decorated Carbon Felt. <i>Journal of the Electrochemical Society</i> , 2019, 166, E29-E34.	2.9	15
38	Ni-foam supported Co(OH)F and Co <sup>2+</sup> /P nanoarrays for energy-efficient hydrogen production via urea electrolysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3697-3703.	10.3	235
39	Structural evolution of calcia during calcium deoxidation in Fe <sup>2+</sup> /O <sup>2+</sup> /Ca melt. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13847-13855.	2.8	8
40	Earth-abundant transition metal and metal oxide nanomaterials: Synthesis and electrochemical applications. <i>Progress in Materials Science</i> , 2019, 106, 100574.	32.8	184
41	Recent advances of porous transition metal-based nanomaterials for electrochemical energy conversion and storage applications. <i>Materials Today Energy</i> , 2019, 13, 64-84.	4.7	64
42	Efficient recovery of scrapped V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> SCR catalyst by cleaner hydrometallurgical process. <i>Hydrometallurgy</i> , 2019, 187, 45-53.	4.3	16
43	Encapsulated spinel Cu <sub>x</sub> Co <sub>3-x</sub> O <sub>4</sub> in carbon nanotubes as efficient and stable oxygen electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11421-11430.	7.1	33
44	In situ decoration of plasmonic silver nanoparticles on poly(vinylidene fluoride) membrane for versatile SERS detection. <i>New Journal of Chemistry</i> , 2019, 43, 6965-6972.	2.8	11
45	Potentially More Ecofriendly Chemical Pathway for Production of High-Purity TiO <sub>2</sub> from Titanium Slag. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4821-4830.	6.7	23
46	MOF-derived two-dimensional N-doped carbon nanosheets coupled with Co <sup>2+</sup> /Fe <sup>2+</sup> /P <sup>3+</sup> /Se as efficient bifunctional OER/ORR catalysts. <i>Nanoscale</i> , 2019, 11, 20144-20150.	5.6	83
47	CTAB-functionalized C@SiO <sub>2</sub> double-shelled hollow microspheres with enhanced and selective adsorption performance for Cr(VI). <i>Journal of Alloys and Compounds</i> , 2019, 777, 1304-1312.	5.5	41
48	N-doped Carbon-coated Metal Sulfides/Phosphides Derived from Protic Salts for Oxygen Evolution Reaction. <i>ChemCatChem</i> , 2019, 11, 1185-1191.	3.7	6
49	Nanosheet-like Co <sub>3</sub> (OH) <sub>2</sub> (HPO <sub>4</sub> ) <sub>2</sub> as a Highly Efficient and Stable Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3083-3091.	6.7	39
50	Effective inhibition of zinc dendrites during electrodeposition using thiourea derivatives as additives. <i>Journal of Materials Science</i> , 2019, 54, 3536-3546.	3.7	16
51	Hydrothermal synthesis of plugged micro/mesoporous Al-SBA-15 from spent fluid catalytic cracking catalyst. <i>Materials Chemistry and Physics</i> , 2019, 222, 227-229.	4.0	13
52	Efficient electrochemical recovery of fine tellurium powder from hydrochloric acid media via mass transfer enhancement. <i>Separation and Purification Technology</i> , 2018, 203, 117-123.	7.9	29
53	Additives-assisted electrodeposition of fine spherical copper powder from sulfuric acid solution. <i>Powder Technology</i> , 2018, 326, 84-88.	4.2	27
54	Ramie Biomass Derived Nitrogen-Doped Activated Carbon for Efficient Electrocatalytic Production of Hydrogen Peroxide. <i>Journal of the Electrochemical Society</i> , 2018, 165, E171-E176.	2.9	22

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55	Hierarchical oxygen-implanted MoS <sub>2</sub> nanoparticle decorated graphene for the non-enzymatic electrochemical sensing of hydrogen peroxide in alkaline media. <i>Talanta</i> , 2018, 176, 397-405.	5.5	64
56	Bimetallic gold-nickel nanoparticles as a sensitive amperometric sensing platform for acetaminophen in human serum. <i>Journal of Electroanalytical Chemistry</i> , 2018, 808, 259-265.	3.8	28
57	Electrochemically activated Cu <sub>2</sub> O/Co <sub>3</sub> O <sub>4</sub> nanocomposites on defective carbon nanotubes for the hydrogen evolution reaction. <i>New Journal of Chemistry</i> , 2018, 42, 19400-19406.	2.8	14
58	Nucleation and growth for magnesia inclusion in Fe–O–Mg melt. <i>RSC Advances</i> , 2018, 8, 38336-38345.	3.6	14
59	Selective and Efficient Electrochemical Recovery of Dilute Copper and Tellurium from Acidic Chloride Solutions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13378-13384.	6.7	39
60	Nanomaterial-based environmental sensing platforms using state-of-the-art electroanalytical strategies. <i>Journal of Analytical Science and Technology</i> , 2018, 9, .	2.1	19
61	Efficient electrochemical recovery of dilute selenium by cyclone electrowinning. <i>Hydrometallurgy</i> , 2018, 179, 232-237.	4.3	29
62	Facile synthesis of CoWO <sub>4</sub> /RGO composites as superior anode materials for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2767-2774.	2.5	14
63	Phase confinement of self-migrated plasmonic silver in triphasic system: Offering 3D hot spots on hydrophobic paper for SERS detection. <i>Applied Surface Science</i> , 2018, 450, 138-145.	6.1	6
64	A sustainable process for metal recycling from spent lithium-ion batteries using ammonium chloride. <i>Waste Management</i> , 2018, 79, 545-553.	7.4	79
65	Twinned copper nanoparticles modulated with electrochemical deposition for <i>in situ</i> SERS monitoring. <i>CrystEngComm</i> , 2018, 20, 5609-5618.	2.6	5
66	Nanomaterials based electrochemical sensor and biosensor platforms for environmental applications. <i>Trends in Environmental Analytical Chemistry</i> , 2017, 13, 10-23.	10.3	285
67	Efficient oxidative dissolution of V <sub>2</sub> O <sub>3</sub> by the <i>in situ</i> electro-generated reactive oxygen species on N-doped carbon felt electrodes. <i>Electrochimica Acta</i> , 2017, 226, 140-147.	5.2	24
68	Electrochemical detection of chemical pollutants based on gold nanomaterials. <i>Trends in Environmental Analytical Chemistry</i> , 2017, 14, 28-36.	10.3	48
69	Electrochemical detoxification and recovery of spent SCR catalyst by <i>in-situ</i> generated reactive oxygen species in alkaline media. <i>Chemical Engineering Journal</i> , 2017, 325, 544-553.	12.7	54
70	Mass transport-enhanced electrodeposition for the efficient recovery of copper and selenium from sulfuric acid solution. <i>Separation and Purification Technology</i> , 2017, 182, 160-165.	7.9	20
71	Cleaner production of vanadium oxides by cation-exchange membrane-assisted electrolysis of sodium vanadate solution. <i>Hydrometallurgy</i> , 2017, 169, 440-446.	4.3	8
72	A Closed-Loop Process for Selective Metal Recovery from Spent Lithium Iron Phosphate Batteries through Mechanochemical Activation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9972-9980.	6.7	195

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73	Recovery of Lithium, Nickel, and Cobalt from Spent Lithium-Ion Battery Powders by Selective Ammonia Leaching and an Adsorption Separation System. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11489-11495.	6.7	118
74	W-doped MoS <sub>2</sub> nanosheets as a highly-efficient catalyst for hydrogen peroxide electroreduction in alkaline media. <i>Catalysis Science and Technology</i> , 2017, 7, 5733-5740.	4.1	12
75	Reinforced As(III) oxidation by the in-situ electro-generated hydrogen peroxide on MoS <sub>2</sub> ultrathin nanosheets modified carbon felt in alkaline media. <i>Electrochimica Acta</i> , 2017, 252, 245-253.	5.2	22
76	Controlled Electrodeposition of Uniform Copper Powder from Hydrochloric Acid Solutions. <i>Journal of the Electrochemical Society</i> , 2017, 164, D723-D728.	2.9	26
77	Alkaline electrochemical advanced oxidation process for chromium oxidation at graphitized multi-walled carbon nanotubes. <i>Chemosphere</i> , 2017, 183, 156-163.	8.2	62
78	Electrochemistry during efficient copper recovery from complex electronic waste using ammonia based solutions. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 308-316.	4.4	23
79	Cr(III)-induced electrochemical advanced oxidation processes for the V <sub>2</sub> O <sub>3</sub> dissolution in alkaline media. <i>Chemical Engineering Journal</i> , 2017, 307, 518-525.	12.7	27
80	Recent Advances in the Synthesis of Layered, Double-â€Hydroxideâ€Based Materials and Their Applications in Hydrogen and Oxygen Evolution. <i>Energy Technology</i> , 2016, 4, 354-368.	3.8	84
81	Enhanced electrochemical performance of ZnMoO <sub>4</sub> /reduced graphene oxide composites as anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 222, 838-844.	5.2	45
82	EphrinB1 and EphrinB2 regulate T cell chemotaxis and migration in experimental autoimmune encephalomyelitis and multiple sclerosis. <i>Neurobiology of Disease</i> , 2016, 91, 292-306.	4.4	24
83	Tuning Î±-Fe <sub>2</sub> O <sub>3</sub> nanotube arrays for the oxygen reduction reaction in alkaline media. <i>RSC Advances</i> , 2016, 6, 41878-41884.	3.6	32
84	Facile Synthesis of Mesoporous Manganeseâ€Iron Nanorod Arrays Efficient for Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5398-5403.	6.7	23
85	Reduced blood pressure after smooth muscle EFNB2 deletion and the potential association of EFNB2 mutation with human hypertension risk. <i>European Journal of Human Genetics</i> , 2016, 24, 1817-1825.	2.8	16
86	Improved electrochemical Cr(VI) detoxification by integrating the direct and indirect pathways. <i>Journal of Electroanalytical Chemistry</i> , 2016, 775, 325-328.	3.8	15
87	Electrochemical Cr(III) Oxidation and Mobilization by In Situ Generated Reactive Oxygen Species in Alkaline Solution. <i>Journal of the Electrochemical Society</i> , 2016, 163, H684-H689.	2.9	19
88	Electrochemical processes for the environmental remediation of toxic Cr(VI): A review. <i>Electrochimica Acta</i> , 2016, 191, 1044-1055.	5.2	264
89	Role of <i>EFNB1</i> and <i>EFNB2</i> in Mouse Collagenâ€Induced Arthritis and Human Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2015, 67, 1778-1788.	5.6	23
90	Electrolytic recovery of bismuth and copper as a powder from acidic sulfate effluents using an emewÂ® cell. <i>RSC Advances</i> , 2015, 5, 50372-50378.	3.6	22

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91	The influence of KOH concentration, oxygen partial pressure and temperature on the oxygen reduction reaction at Pt electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2015, 741, 100-108.	3.8	30
92	Recent advances in electrochemical detection of toxic Cr( $\text{VI}$ ). <i>RSC Advances</i> , 2015, 5, 37440-37450.	3.6	86
93	Integrated lignin-mediated adsorption-release process and electrochemical reduction for the removal of trace Cr( $\text{VI}$ ). <i>RSC Advances</i> , 2014, 4, 27843-27849.	3.6	43
94	Sensitive and selective electrochemical detection of chromium( $\text{VI}$ ) based on gold nanoparticle-decorated titania nanotube arrays. <i>Analyst</i> , 2014, 139, 235-241.	3.5	153
95	Effect of reduced EPHB4 expression in thymic epithelial cells on thymocyte development and peripheral T cell function. <i>Molecular Immunology</i> , 2014, 58, 1-9.	2.2	19
96	Efficient extraction of lignin from black liquor via a novel membrane-assisted electrochemical approach. <i>Electrochimica Acta</i> , 2013, 107, 611-618.	5.2	45
97	Indirect Electrochemical Cr(III) Oxidation in KOH Solutions at an Au Electrode: The Role of Oxygen Reduction Reaction. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7531-7537.	2.6	38
98	T cell-specific deletion of EFNB2 minimally affects T cell development and function. <i>Molecular Immunology</i> , 2012, 52, 141-147.	2.2	13
99	The effect of conditional EFNB1 deletion in the T cell compartment on T cell development and function. <i>BMC Immunology</i> , 2011, 12, 68.	2.2	13
100	Modulated Cr(III) oxidation in KOH solutions at a gold electrode: Competition between disproportionation and stepwise electron transfer. <i>Electrochimica Acta</i> , 2011, 56, 8311-8318.	5.2	30
101	Ephrinb1 and Ephrinb2 Are Associated with Interleukin-7 Receptor $\hat{\pm}$ and Retard Its Internalization from the Cell Surface. <i>Journal of Biological Chemistry</i> , 2011, 286, 44976-44987.	3.4	31
102	Phase Diagrams for the Ternary $\text{Na}_2\text{O}-\text{Al}_2\text{O}_3-\text{H}_2\text{O}$ System at (150 and 180) $^{\circ}\text{C}$ . <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 2470-2473.	1.9	15
103	Comparison of the Oxygen Reduction Reaction between NaOH and KOH Solutions on a Pt Electrode: The Electrolyte-Dependent Effect. <i>Journal of Physical Chemistry B</i> , 2010, 114, 6542-6548.	2.6	151
104	Isopiestic Study of the $\text{Na}_2\text{CrO}_4-\text{H}_2\text{O}$ System at 353.15 K: Prediction of the Solubility of $\text{Na}_2\text{CrO}_4$ in Aqueous NaOH Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 8244-8247.	3.7	15