

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	Nanomaterials based electrochemical sensor and biosensor platforms for environmental applications. Trends in Environmental Analytical Chemistry, 2017, 13, 10-23.	10.3	285
2	Electrochemical processes for the environmental remediation of toxic Cr(VI): A review. Electrochimica Acta, 2016, 191, 1044-1055.	5.2	264
3	Ni-foam supported Co(OH)F and Co ²⁺ /P nanoarrays for energy-efficient hydrogen production via urea electrolysis. Journal of Materials Chemistry A, 2019, 7, 3697-3703.	10.3	235
4	A Closed-Loop Process for Selective Metal Recovery from Spent Lithium Iron Phosphate Batteries through Mechanochemical Activation. ACS Sustainable Chemistry and Engineering, 2017, 5, 9972-9980.	6.7	195
5	Earth-abundant transition metal and metal oxide nanomaterials: Synthesis and electrochemical applications. Progress in Materials Science, 2019, 106, 100574.	32.8	184
6	Recent Progress of Vacancy Engineering for Electrochemical Energy Conversion Related Applications. Advanced Functional Materials, 2021, 31, 2009070.	14.9	166
7	Sensitive and selective electrochemical detection of chromium(VI) based on gold nanoparticle-decorated titania nanotube arrays. Analyst, The, 2014, 139, 235-241.	3.5	153
8	Comparison of the Oxygen Reduction Reaction between NaOH and KOH Solutions on a Pt Electrode: The Electrolyte-Dependent Effect. Journal of Physical Chemistry B, 2010, 114, 6542-6548.	2.6	151
9	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
10	Corrosion Engineering on Iron Foam toward Efficiently Electrocatalytic Overall Water Splitting Powered by Sustainable Energy. Advanced Functional Materials, 2021, 31, 2010437.	14.9	125
11	Recovery of Lithium, Nickel, and Cobalt from Spent Lithium-Ion Battery Powders by Selective Ammonia Leaching and an Adsorption Separation System. ACS Sustainable Chemistry and Engineering, 2017, 5, 11489-11495.	6.7	118
12	Recent advances in electrochemical detection of toxic Cr(VI). RSC Advances, 2015, 5, 37440-37450.	3.6	86
13	Recent Advances in the Synthesis of Layered, Double-Hydroxide-Based Materials and Their Applications in Hydrogen and Oxygen Evolution. Energy Technology, 2016, 4, 354-368.	3.8	84
14	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
15	MOF-derived two-dimensional N-doped carbon nanosheets coupled with Co ²⁺ /Fe ²⁺ /P ³⁺ /Se as efficient bifunctional OER/ORR catalysts. Nanoscale, 2019, 11, 20144-20150.	5.6	83
16	Engineering Multimetallic Aerogels for pH-Universal HER and ORR Electrocatalysis. Advanced Energy Materials, 2020, 10, 1903857.	19.5	83
17	A sustainable process for metal recycling from spent lithium-ion batteries using ammonium chloride. Waste Management, 2018, 79, 545-553.	7.4	79
18	Sulfurated Metal-Organic Framework-Derived Nanocomposites for Efficient Bifunctional Oxygen Electrocatalysis and Rechargeable Zn-Air Battery. ACS Sustainable Chemistry and Engineering, 2020, 8, 9226-9234.	6.7	79

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19	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
20	Understanding the features of PGMs in spent ternary automobile catalysts for development of cleaner recovery technology. <i>Journal of Cleaner Production</i> , 2019, 239, 118031.	9.3	66
21	Hierarchical oxygen-implanted MoS ₂ 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
22	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
23	Alkaline electrochemical advanced oxidation process for chromium oxidation at graphitized multi-walled carbon nanotubes. <i>Chemosphere</i> , 2017, 183, 156-163.	8.2	62
24	Electrochemical detoxification and recovery of spent SCR catalyst by in-situ generated reactive oxygen species in alkaline media. <i>Chemical Engineering Journal</i> , 2017, 325, 544-553.	12.7	54
25	Highly efficient SnS-decorated Bi ₂ O ₃ 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
26	Atomically Dispersed CoN ₄ /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
27	Electrochemical detection of chemical pollutants based on gold nanomaterials. <i>Trends in Environmental Analytical Chemistry</i> , 2017, 14, 28-36.	10.3	48
28	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
29	Inhibition Role of Trace Metal Ion Additives on Zinc Dendrites during Plating and Stripping Processes. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901358.	3.7	46
30	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
31	Enhanced electrochemical performance of ZnMoO ₄ /reduced graphene oxide composites as anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 222, 838-844.	5.2	45
32	Integrated lignin-mediated adsorption-release process and electrochemical reduction for the removal of trace Cr(VI). <i>RSC Advances</i> , 2014, 4, 27843-27849.	3.6	43
33	Interface engineering of oxygen-vacancy-rich NiCo ₂ O ₄ /NiCoP heterostructure as an efficient bifunctional electrocatalyst for overall water splitting. <i>Catalysis Science and Technology</i> , 2020, 10, 5559-5565.	4.1	43
34	CTAB-functionalized C@SiO ₂ 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
35	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
36	Defective graphene aerogel-supported Bi-CoP nanoparticles as a high-potential air cathode for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22507-22513.	10.3	39

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37	Nanosheet-like Co ₃ (OH) ₂ (HPO ₄) ₂ as a Highly Efficient and Stable Electrocatalyst for Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 3083-3091.	6.7	39
38	Indirect Electrochemical Cr(III) Oxidation in KOH Solutions at an Au Electrode: The Role of Oxygen Reduction Reaction. Journal of Physical Chemistry B, 2012, 116, 7531-7537.	2.6	38
39	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
40	Encapsulated spinel CuXCo ₃ XO ₄ in carbon nanotubes as efficient and stable oxygen electrocatalysts. International Journal of Hydrogen Energy, 2019, 44, 11421-11430.	7.1	33
41	Tuning γ -Fe ₂ O ₃ nanotube arrays for the oxygen reduction reaction in alkaline media. RSC Advances, 2016, 6, 41878-41884.	3.6	32
42	Ephrinb1 and Ephrinb2 Are Associated with Interleukin-7 Receptor γ and Retard Its Internalization from the Cell Surface. Journal of Biological Chemistry, 2011, 286, 44976-44987.	3.4	31
43	Modulated Cr(III) oxidation in KOH solutions at a gold electrode: Competition between disproportionation and stepwise electron transfer. Electrochimica Acta, 2011, 56, 8311-8318.	5.2	30
44	The influence of KOH concentration, oxygen partial pressure and temperature on the oxygen reduction reaction at Pt electrodes. Journal of Electroanalytical Chemistry, 2015, 741, 100-108.	3.8	30
45	Efficient electrochemical recovery of fine tellurium powder from hydrochloric acid media via mass transfer enhancement. Separation and Purification Technology, 2018, 203, 117-123.	7.9	29
46	Efficient electrochemical recovery of dilute selenium by cyclone electrowinning. Hydrometallurgy, 2018, 179, 232-237.	4.3	29
47	Bimetallic gold-nickel nanoparticles as a sensitive amperometric sensing platform for acetaminophen in human serum. Journal of Electroanalytical Chemistry, 2018, 808, 259-265.	3.8	28
48	Cr(III)-induced electrochemical advanced oxidation processes for the V ₂ O ₃ dissolution in alkaline media. Chemical Engineering Journal, 2017, 307, 518-525.	12.7	27
49	Additives-assisted electrodeposition of fine spherical copper powder from sulfuric acid solution. Powder Technology, 2018, 326, 84-88.	4.2	27
50	Cobalt oxide, sulfide and phosphide-decorated carbon felt for the capacitive deionization of lead ions. Separation and Purification Technology, 2020, 237, 116343.	7.9	27
51	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
52	Controlled Electrodeposition of Uniform Copper Powder from Hydrochloric Acid Solutions. Journal of the Electrochemical Society, 2017, 164, D723-D728.	2.9	26
53	EphrinB1 and EphrinB2 regulate T cell chemotaxis and migration in experimental autoimmune encephalomyelitis and multiple sclerosis. Neurobiology of Disease, 2016, 91, 292-306.	4.4	24
54	Efficient oxidative dissolution of V ₂ O ₃ by the in situ electro-generated reactive oxygen species on N-doped carbon felt electrodes. Electrochimica Acta, 2017, 226, 140-147.	5.2	24

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55	Simultaneous and precise recovery of lithium and boron from salt lake brine by capacitive deionization with oxygen vacancy-rich CoP/Co ₃ O ₄ -graphene aerogel. <i>Chemical Engineering Journal</i> , 2021, 420, 127661.	12.7	24
56	Role of <i>EFNB1</i> and <i>EFNB2</i> in Mouse Collagen-Induced Arthritis and Human Rheumatoid Arthritis. <i>Arthritis and Rheumatology</i> , 2015, 67, 1778-1788.	5.6	23
57	Facile Synthesis of Mesoporous Manganese-Iron Nanorod Arrays Efficient for Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5398-5403.	6.7	23
58	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
59	Potentially More Ecofriendly Chemical Pathway for Production of High-Purity TiO ₂ from Titanium Slag. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4821-4830.	6.7	23
60	Electrolytic recovery of bismuth and copper as a powder from acidic sulfate effluents using an emew [®] cell. <i>RSC Advances</i> , 2015, 5, 50372-50378.	3.6	22
61	Reinforced As(III) oxidation by the in-situ electro-generated hydrogen peroxide on MoS ₂ ultrathin nanosheets modified carbon felt in alkaline media. <i>Electrochimica Acta</i> , 2017, 252, 245-253.	5.2	22
62	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
63	Facile synthesis of core-shell CuS-Cu ₂ S based nanocomposite for the high-performance glucose detection. <i>Materials Science and Engineering C</i> , 2019, 105, 110120.	7.3	22
64	Dual-functional porous copper films modulated via dynamic hydrogen bubble template for in situ SERS monitoring electrocatalytic reaction. <i>Applied Surface Science</i> , 2019, 494, 731-739.	6.1	21
65	Simultaneous Phenol Detoxification and Dilute Metal Recovery in Cyclone Electrochemical Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 12642-12649.	3.7	21
66	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
67	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
68	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
69	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
70	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. <i>Journal of Cleaner Production</i> , 2020, 257, 120399.	9.3	18
71	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
72	Efficient recovery of scrapped V ₂ O ₅ -WO ₃ /TiO ₂ SCR catalyst by cleaner hydrometallurgical process. <i>Hydrometallurgy</i> , 2019, 187, 45-53.	4.3	16

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73	Effective inhibition of zinc dendrites during electrodeposition using thiourea derivatives as additives. Journal of Materials Science, 2019, 54, 3536-3546.	3.7	16
74	Phase Diagrams for the Ternary Na ₂ O-Al ₂ O ₃ -H ₂ O System at (150 and 180) °C. Journal of Chemical & Engineering Data, 2010, 55, 2470-2473.	1.9	15
75	Isopiestic Study of the Na ₂ CrO ₄ -H ₂ O System at 353.15 K: Prediction of the Solubility of Na ₂ CrO ₄ in Aqueous NaOH Solutions. Industrial & Engineering Chemistry Research, 2010, 49, 8244-8247.	3.7	15
76	Improved electrochemical Cr(VI) detoxification by integrating the direct and indirect pathways. Journal of Electroanalytical Chemistry, 2016, 775, 325-328.	3.8	15
77	High-Performance Capacitive Deionization of Copper Ions at Nanoporous ZnS-Decorated Carbon Felt. Journal of the Electrochemical Society, 2019, 166, E29-E34.	2.9	15
78	Electrochemically activated Cu ₂ O/Co ₃ O ₄ nanocomposites on defective carbon nanotubes for the hydrogen evolution reaction. New Journal of Chemistry, 2018, 42, 19400-19406.	2.8	14
79	Nucleation and growth for magnesia inclusion in Fe-Mg melt. RSC Advances, 2018, 8, 38336-38345.	3.6	14
80	Facile synthesis of CoWO ₄ /RGO composites as superior anode materials for lithium-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 2767-2774.	2.5	14
81	The effect of conditional EFNB1 deletion in the T cell compartment on T cell development and function. BMC Immunology, 2011, 12, 68.	2.2	13
82	T cell-specific deletion of EFNB2 minimally affects T cell development and function. Molecular Immunology, 2012, 52, 141-147.	2.2	13
83	<i>In situ</i> growth of CuS decorated graphene oxide-multiwalled carbon nanotubes for ultrasensitive H ₂ O ₂ detection in alkaline solution. New Journal of Chemistry, 2019, 43, 3309-3316.	2.8	13
84	Hydrothermal synthesis of plugged micro/mesoporous Al-SBA-15 from spent fluid catalytic cracking catalyst. Materials Chemistry and Physics, 2019, 222, 227-229.	4.0	13
85	W-doped MoS ₂ nanosheets as a highly-efficient catalyst for hydrogen peroxide electroreduction in alkaline media. Catalysis Science and Technology, 2017, 7, 5733-5740.	4.1	12
86	<i>In situ</i> decoration of plasmonic silver nanoparticles on poly(vinylidene fluoride) membrane for versatile SERS detection. New Journal of Chemistry, 2019, 43, 6965-6972.	2.8	11
87	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
88	Functional nanomaterial-derived electrochemical sensor and biosensor platforms for biomedical applications. , 2020, , 297-327.		10
89	Plasticization-induced oriented micro-channels within polymer inclusion membranes for facilitating Cu(II) transport. Journal of Molecular Liquids, 2020, 301, 112457.	4.9	9
90	Cleaner production of vanadium oxides by cation-exchange membrane-assisted electrolysis of sodium vanadate solution. Hydrometallurgy, 2017, 169, 440-446.	4.3	8

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91	Structural evolution of calcia during calcium deoxidation in Fe-O-Ca melt. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13847-13855.	2.8	8
92	Towards source reduction and green sustainability of metal-bearing waste streams: The electrochemical processes. <i>Electrochimica Acta</i> , 2021, 374, 137937.	5.2	8
93	Morphology-controllable formation of MOF-Derived C/ZrO ₂ @1T-2H MoS ₂ heterostructure for improved electrocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 14831-14840.	7.1	8
94	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
95	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
96	Twinned copper nanoparticles modulated with electrochemical deposition for <i>in situ</i> SERS monitoring. <i>CrystEngComm</i> , 2018, 20, 5609-5618.	2.6	5
97	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
98	Extraction separation of copper and cobalt dependent on intermolecular interaction between Cyanex302 and Cyphos IL101. <i>Separation and Purification Technology</i> , 2020, 240, 116625.	7.9	5
99	Bifunctional electrochemical detection of organic molecule and heavy metal at two-dimensional Sn-In ₂ S ₃ nanocomposite. <i>Microchemical Journal</i> , 2020, 159, 105454.	4.5	4
100	Thermodynamic insight into the growth of nanoscale inclusion of Al-deoxidation in Fe-O-Al melt. <i>Scientific Reports</i> , 2020, 10, 16909.	3.3	3
101	Recent Advances in Catalyst Development for Transesterification of Dialkyl Carbonates with Phenol. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 20630-20645.	3.7	3
102	Sensitive Electrochemical Detection of Pb(II) and H ₂ O ₂ via a Dual-functional Sn-doped Defective Bi ₂ S ₃ Microspheres. <i>Electroanalysis</i> , 2021, 33, 947-955.	2.9	3
103	Thermodynamic Modelling on Nanoscale Growth of Magnesia Inclusion in Fe-O-Mg Melt. <i>Metals</i> , 2019, 9, 174.	2.3	2
104	Editorial: Carbon-Based Bifunctional Oxygen Electrocatalysts. <i>Frontiers in Chemistry</i> , 2020, 8, 713.	3.6	2