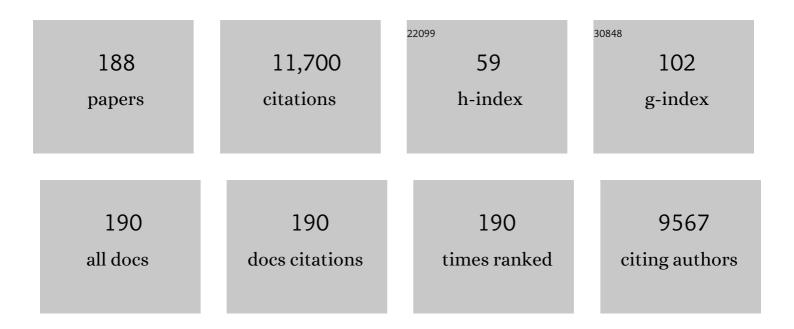
List of Publications by Year in descending order

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HONCRIN CAO

#	Article	IF	CITATIONS
1	A Critical Review and Analysis on the Recycling of Spent Lithium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 1504-1521.	3.2	754
2	Recycling of spent lithium-ion batteries in view of lithium recovery: A critical review. Journal of Cleaner Production, 2019, 228, 801-813.	4.6	464
3	A Mini-Review on Metal Recycling from Spent Lithium Ion Batteries. Engineering, 2018, 4, 361-370.	3.2	456
4	Lithium Carbonate Recovery from Cathode Scrap of Spent Lithium-Ion Battery: A Closed-Loop Process. Environmental Science & Technology, 2017, 51, 1662-1669.	4.6	341
5	Spent lithium-ion battery recycling – Reductive ammonia leaching of metals from cathode scrap by sodium sulphite. Waste Management, 2017, 60, 680-688.	3.7	285
6	Reactive Oxygen Species and Catalytic Active Sites in Heterogeneous Catalytic Ozonation for Water Purification. Environmental Science & Technology, 2020, 54, 5931-5946.	4.6	285
7	Organic pollutants removal in wastewater by heterogeneous photocatalytic ozonation. Chemosphere, 2015, 121, 1-17.	4.2	282
8	Selective recovery of lithium from spent lithium iron phosphate batteries: a sustainable process. Green Chemistry, 2018, 20, 3121-3133.	4.6	257
9	Efficient Catalytic Ozonation over Reduced Graphene Oxide for <i>p</i> -Hydroxylbenzoic Acid (PHBA) Destruction: Active Site and Mechanism. ACS Applied Materials & Interfaces, 2016, 8, 9710-9720.	4.0	234
10	Selective recovery of valuable metals from spent lithium-ion batteries – Process development and kinetics evaluation. Journal of Cleaner Production, 2018, 178, 833-845.	4.6	209
11	Single-Atom Mn–N ₄ Site-Catalyzed Peroxone Reaction for the Efficient Production of Hydroxyl Radicals in an Acidic Solution. Journal of the American Chemical Society, 2019, 141, 12005-12010.	6.6	203
12	2D/2D nano-hybrids of Î ³ -MnO 2 on reduced graphene oxide for catalytic ozonation and coupling peroxymonosulfate activation. Journal of Hazardous Materials, 2016, 301, 56-64.	6.5	195
13	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.	3.2	195
14	Role of oxygen vacancies and Mn sites in hierarchical Mn2O3/LaMnO3-l̂´ perovskite composites for aqueous organic pollutants decontamination. Applied Catalysis B: Environmental, 2019, 245, 546-554.	10.8	187
15	A closed-loop process for recycling LiNi1/3Co1/3Mn1/3O2 from the cathode scraps of lithium-ion batteries: Process optimization and kinetics analysis. Separation and Purification Technology, 2015, 150, 186-195.	3.9	169
16	Dramatic coupling of visible light with ozone on honeycomb-like porous g-C 3 N 4 towards superior oxidation of water pollutants. Applied Catalysis B: Environmental, 2016, 183, 417-425.	10.8	165
17	An overview on the processes and technologies for recycling cathodic active materials from spent lithium-ion batteries. Journal of Material Cycles and Waste Management, 2013, 15, 420-430.	1.6	163
18	Selection of active phase of MnO2 for catalytic ozonation of 4-nitrophenol. Chemosphere, 2017, 168, 1457-1466.	4.2	159

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19	Robust Superhydrophobic Membrane for Membrane Distillation with Excellent Scaling Resistance. Environmental Science & Technology, 2019, 53, 11801-11809.	4.6	157
20	KOH self-templating synthesis of three-dimensional hierarchical porous carbon materials for high performance supercapacitors. Journal of Materials Chemistry A, 2014, 2, 14844.	5.2	156
21	Spent lead-acid battery recycling in China – A review and sustainable analyses on mass flow of lead. Waste Management, 2017, 64, 190-201.	3.7	154
22	Heteroatom doped graphdiyne as efficient metal-free electrocatalyst for oxygen reduction reaction in alkaline medium. Journal of Materials Chemistry A, 2016, 4, 4738-4744.	5.2	139
23	Enhanced proton and electron reservoir abilities of polyoxometalate grafted on graphene for high-performance hydrogen evolution. Energy and Environmental Science, 2016, 9, 1012-1023.	15.6	138
24	Environmentally benign process for selective recovery of valuable metals from spent lithium-ion batteries by using conventional sulfation roasting. Green Chemistry, 2019, 21, 5904-5913.	4.6	136
25	Exposure pathways, levels and toxicity of polybrominated diphenyl ethers in humans: A review. Environmental Research, 2020, 187, 109531.	3.7	136
26	Fast Electron Transfer and [•] OH Formation: Key Features for High Activity in Visible-Light-Driven Ozonation with C ₃ N ₄ Catalysts. ACS Catalysis, 2017, 7, 6198-6206.	5.5	135
27	Tailored synthesis of active reduced graphene oxides from waste graphite: Structural defects and pollutant-dependent reactive radicals in aqueous organics decontamination. Applied Catalysis B: Environmental, 2018, 229, 71-80.	10.8	128
28	Comprehensive evaluation on effective leaching of critical metals from spent lithium-ion batteries. Waste Management, 2018, 75, 477-485.	3.7	126
29	ls C ₃ N ₄ Chemically Stable toward Reactive Oxygen Species in Sunlight-Driven Water Treatment?. Environmental Science & Technology, 2017, 51, 13380-13387.	4.6	119
30	Recycling of LiNi1/3Co1/3Mn1/3O2 cathode materials from spent lithium-ion batteries using mechanochemical activation and solid-state sintering. Waste Management, 2019, 84, 54-63.	3.7	115
31	Conversion Mechanisms of Selective Extraction of Lithium from Spent Lithium-Ion Batteries by Sulfation Roasting. ACS Applied Materials & Interfaces, 2020, 12, 18482-18489.	4.0	115
32	Super synergy between photocatalysis and ozonation using bulk g-C3N4 as catalyst: A potential sunlight/O3/g-C3N4 method for efficient water decontamination. Applied Catalysis B: Environmental, 2016, 181, 420-428.	10.8	113
33	Recycling of spent lithium-ion batteries in view of green chemistry. Green Chemistry, 2021, 23, 6139-6171.	4.6	113
34	A novel process for recycling and resynthesizing LiNi1/3Co1/3Mn1/3O2 from the cathode scraps intended for lithium-ion batteries. Waste Management, 2014, 34, 1715-1724.	3.7	111
35	Occurrence of both hydroxyl radical and surface oxidation pathways in N-doped layered nanocarbons for aqueous catalytic ozonation. Applied Catalysis B: Environmental, 2019, 254, 283-291.	10.8	109
36	Novel PTFE hollow fiber membrane fabricated by emulsion electrospinning and sintering for membrane distillation. Journal of Membrane Science, 2019, 583, 200-208.	4.1	102

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37	Promoting effect of nitration modification on activated carbon in the catalytic ozonation of oxalic acid. Applied Catalysis B: Environmental, 2014, 146, 169-176.	10.8	99
38	Bipolar membrane electrodialysis for generation of hydrochloric acid and ammonia from simulated ammonium chloride wastewater. Water Research, 2016, 89, 201-209.	5.3	97
39	Heterogeneous Fenton-like degradation of 4-chlorophenol using iron/ordered mesoporous carbon catalyst. Journal of Environmental Sciences, 2014, 26, 1171-1179.	3.2	94
40	Improvement of the antifouling performance and stability of an anion exchange membrane by surface modification with graphene oxide (GO) and polydopamine (PDA). Journal of Membrane Science, 2018, 566, 44-53.	4.1	94
41	Catalytic ozonation of 4-nitrophenol over an mesoporous α-MnO2 with resistance to leaching. Catalysis Today, 2015, 258, 595-601.	2.2	88
42	Metal-free catalytic ozonation on surface-engineered graphene: Microwave reduction and heteroatom doping. Chemical Engineering Journal, 2019, 355, 118-129.	6.6	86
43	Selective extraction and deep removal of tungsten from sodium molybdate solution by primary amine N1923. Separation and Purification Technology, 2009, 70, 27-33.	3.9	82
44	Superoxide radical-mediated photocatalytic oxidation of phenolic compounds over Ag + /TiO 2 : Influence of electron donating and withdrawing substituents. Journal of Hazardous Materials, 2016, 304, 126-133.	6.5	82
45	Visible-Light Photocatalytic Ozonation Using Graphitic C ₃ N ₄ Catalysts: A Hydroxyl Radical Manufacturer for Wastewater Treatment. Accounts of Chemical Research, 2020, 53, 1024-1033.	7.6	81
46	High-efficient extraction of vanadium and its application in the utilization of the chromium-bearing vanadium slag. Chemical Engineering Journal, 2016, 301, 132-138.	6.6	80
47	Stellated Ag-Pt bimetallic nanoparticles: An effective platform for catalytic activity tuning. Scientific Reports, 2014, 4, 3969.	1.6	79
48	A sustainable process for metal recycling from spent lithium-ion batteries using ammonium chloride. Waste Management, 2018, 79, 545-553.	3.7	79
49	Efficient reuse of anode scrap from lithium-ion batteries as cathode for pollutant degradation in electro-Fenton process: Role of different recovery processes. Chemical Engineering Journal, 2018, 337, 256-264.	6.6	77
50	Polyoxometalate-mediated green synthesis of a 2D silver nanonet/graphene nanohybrid as a synergistic catalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2013, 1, 11961.	5.2	75
51	Oxidation of amino acids by peracetic acid: Reaction kinetics, pathways and theoretical calculations. Water Research X, 2018, 1, 100002.	2.8	75
52	Selective Recovery of Lithium from Spent Lithium-Ion Batteries by Coupling Advanced Oxidation Processes and Chemical Leaching Processes. ACS Sustainable Chemistry and Engineering, 2020, 8, 5165-5174.	3.2	71
53	Activated carbon electrodes: Electrochemical oxidation coupled with desalination for wastewater treatment. Chemosphere, 2015, 125, 205-211.	4.2	69
54	Hierarchical shape-controlled mixed-valence calcium manganites for catalytic ozonation of aqueous phenolic compounds. Catalysis Science and Technology, 2016, 6, 2918-2929.	2.1	69

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55	ZnO@ZnS hollow dumbbells–graphene composites as high-performance photocatalysts and alcohol sensors. New Journal of Chemistry, 2012, 36, 2593.	1.4	67
56	Degradation and transformation of atrazine under catalyzed ozonation process with TiO2 as catalyst. Journal of Hazardous Materials, 2014, 279, 444-451.	6.5	65
57	Self-assembly of CdS quantum dots with polyoxometalate encapsulated gold nanoparticles: enhanced photocatalytic activities. Journal of Materials Chemistry A, 2013, 1, 1488-1494.	5.2	64
58	Macropore- and Micropore-Dominated Carbon Derived from Poly(vinyl alcohol) and Polyvinylpyrrolidone for Supercapacitor and Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2017, 5, 11324-11333.	3.2	61
59	Sustainable Preparation of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ –V ₂ O ₅ Cathode Materials by Recycling Waste Materials of Spent Lithium-Ion Battery and Vanadium-Bearing Slag. ACS Sustainable Chemistry and Engineering. 2018. 6. 5797-5805.	3.2	61
60	The role of ozone and influence of band structure in WO3 photocatalysis and ozone integrated process for pharmaceutical wastewater treatment. Journal of Hazardous Materials, 2018, 360, 481-489.	6.5	60
61	g-C3N4-triggered super synergy between photocatalysis and ozonation attributed to promoted OH generation. Catalysis Communications, 2015, 66, 10-14.	1.6	57
62	The influence of the substituent on the phenol oxidation rate and reactive species in cubic MnO ₂ catalytic ozonation. Catalysis Science and Technology, 2016, 6, 7875-7884.	2.1	57
63	Performance prediction of ZVI-based anaerobic digestion reactor using machine learning algorithms. Waste Management, 2021, 121, 59-66.	3.7	56
64	Hierarchical biomimetic BiVO4 for the treatment of pharmaceutical wastewater in visible-light photocatalytic ozonation. Chemosphere, 2019, 222, 38-45.	4.2	55
65	Different roles of Fe atoms and nanoparticles on g-C3N4 in regulating the reductive activation of ozone under visible light. Applied Catalysis B: Environmental, 2021, 296, 120362.	10.8	54
66	Electrochemical impedance spectroscopy and surface properties characterization of anion exchange membrane fouled by sodium dodecyl sulfate. Journal of Membrane Science, 2017, 530, 220-231.	4.1	53
67	Metagenomic insights into the microbiota profiles and bioaugmentation mechanism of organics removal in coal gasification wastewater in an anaerobic/anoxic/oxic system by methanol. Bioresource Technology, 2018, 264, 106-115.	4.8	53
68	Towards effective design of active nanocarbon materials for integrating visible-light photocatalysis with ozonation. Carbon, 2016, 107, 658-666.	5.4	52
69	Evaluation on end-of-life LEDs by understanding the criticality and recyclability for metals recycling. Journal of Cleaner Production, 2018, 182, 624-633.	4.6	52
70	Layer-by-layer assembly of anion exchange membrane by electrodeposition of polyelectrolytes for improved antifouling performance. Journal of Membrane Science, 2018, 558, 1-8.	4.1	48
71	Phenolic compounds removal by wet air oxidation based processes. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	3.3	46
72	Lithium carbonate recovery from lithium-containing solution by ultrasound assisted precipitation. Ultrasonics Sonochemistry, 2019, 52, 484-492.	3.8	45

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73	Direct preparation of efficient catalyst for oxygen evolution reaction and high-purity Li2CO3 from spent LiNi0.5Mn0.3Co0.2O2 batteries. Journal of Cleaner Production, 2019, 236, 117576.	4.6	44
74	Modification and properties characterization of heterogeneous anion-exchange membranes by electrodeposition of graphene oxide (GO). Applied Surface Science, 2018, 442, 700-710.	3.1	42
75	High activity of g-C3N4/multiwall carbon nanotube in catalytic ozonation promotes electro-peroxone process. Chemosphere, 2018, 201, 206-213.	4.2	42
76	Transformation and products of captopril with humic constituents during laccase-catalyzed oxidation: Role of reactive intermediates. Water Research, 2016, 106, 488-495.	5.3	40
77	Characterization of anion exchange membrane modified by electrodeposition of polyelectrolyte containing different functional groups. Desalination, 2016, 386, 58-66.	4.0	39
78	Carbon materials derived from chitosan/cellulose cryogel-supported zeolite imidazole frameworks for potential supercapacitor application. Carbohydrate Polymers, 2017, 175, 223-230.	5.1	39
79	Rethinking Chinese supply resilience of critical metals in lithium-ion batteries. Journal of Cleaner Production, 2020, 256, 120719.	4.6	39
80	Bipolar Membrane Electrodialysis for Ammonia Recovery from Synthetic Urine: Experiments, Modeling, and Performance Analysis. Environmental Science & Technology, 2021, 55, 14886-14896.	4.6	39
81	Electrochemical-reduction-assisted assembly of ternary Ag nanoparticles/polyoxometalate/graphene nanohybrids and their activity in the electrocatalysis of oxygen reduction. RSC Advances, 2015, 5, 74447-74456.	1.7	38
82	Separation of V(V) and Cr(VI) in leaching solution using annular centrifugal contactors. Chemical Engineering Journal, 2017, 315, 373-381.	6.6	37
83	Comparative studies on fouling of homogeneous anion exchange membranes by different structured organics in electrodialysis. Journal of Environmental Sciences, 2019, 77, 218-228.	3.2	37
84	New insights of enhanced anaerobic degradation of refractory pollutants in coking wastewater: Role of zero-valent iron in metagenomic functions. Bioresource Technology, 2020, 300, 122667.	4.8	36
85	Transformation of halobenzoquinones with the presence of amino acids in water: Products, pathways and toxicity. Water Research, 2017, 122, 299-307.	5.3	36
86	A combination of electro-enzymatic catalysis and electrocoagulation for the removal of endocrine disrupting chemicals from water. Journal of Hazardous Materials, 2015, 297, 269-277.	6.5	34
87	Removal of chloride ions using a bismuth electrode in capacitive deionization (CDI). Environmental Science: Water Research and Technology, 2020, 6, 373-382.	1.2	34
88	N-dependent ozonation efficiency over nitrogen-containing heterocyclic contaminants: A combined density functional theory study on reaction kinetics and degradation pathways. Chemical Engineering Journal, 2020, 382, 122708.	6.6	33
89	MnO ₂ -Functionalized Amorphous Carbon Sorbents from Spent Lithium-Ion Batteries for Highly Efficient Removal of Cadmium from Aqueous Solutions. Industrial & Engineering Chemistry Research, 2020, 59, 10210-10220.	1.8	33
90	Insights into the mechanism of phenolic mixture degradation by catalytic ozonation with a mesoporous Fe ₃ O ₄ /MnO ₂ composite. RSC Advances, 2016, 6, 29674-29684.	1.7	32

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91	Polymerization of micropollutants in natural aquatic environments: A review. Science of the Total Environment, 2019, 693, 133751.	3.9	32
92	Number of Reactive Charge Carriers—A Hidden Linker between Band Structure and Catalytic Performance in Photocatalysts. ACS Catalysis, 2019, 9, 8852-8861.	5.5	31
93	Temperature-Dependent Selectivity of Hydrogenation/Hydrogenolysis during Phenol Conversion over Ni Catalysts. ACS Sustainable Chemistry and Engineering, 2019, 7, 9464-9473.	3.2	31
94	The duet of surface and radical-based carbocatalysis for oxidative destructions of aqueous contaminants over built-in nanotubes of graphite. Journal of Hazardous Materials, 2020, 384, 121486.	6.5	29
95	Criticality assessment of metal resources in China. IScience, 2021, 24, 102524.	1.9	29
96	High-Performance Recovery of Vanadium(V) in Leaching/Aqueous Solution by a Reusable Reagent-Primary Amine N1519. ACS Sustainable Chemistry and Engineering, 2017, 5, 3096-3102.	3.2	28
97	Insights into the extraction of various vanadium species by primary amine. Hydrometallurgy, 2017, 173, 57-62.	1.8	28
98	Photoinduced Release of Volatile Organic Compounds from Fatty Alcohols at the Air–Water Interface: The Role of Singlet Oxygen Photosensitized by a Carbonyl Group. Environmental Science & Technology, 2021, 55, 8683-8690.	4.6	28
99	Mechanism of ozone adsorption and activation on B-, N-, P-, and Si-doped graphene: A DFT study. Chemical Engineering Journal, 2022, 430, 133114.	6.6	27
100	Insights into the Mechanism of Ozone Activation and Singlet Oxygen Generation on N-Doped Defective Nanocarbons: A DFT and Machine Learning Study. Environmental Science & Technology, 2022, 56, 7853-7863.	4.6	27
101	Enhanced hole-dominated photocatalytic activity of doughnut-like porous g-C3N4 driven by down-shifted valance band maximum. Catalysis Today, 2018, 307, 147-153.	2.2	25
102	Pt-Containing Ag2S-Noble Metal Nanocomposites as Highly Active Electrocatalysts for the Oxidation of Formic Acid. Nano-Micro Letters, 2014, 6, 252-257.	14.4	24
103	Innovative Biological Process for Treatment of Coking Wastewater. Environmental Engineering Science, 2010, 27, 313-322.	0.8	23
104	Reaction mechanism and metal ion transformation in photocatalytic ozonation of phenol and oxalic acid with Ag+/TiO2. Journal of Environmental Sciences, 2014, 26, 662-672.	3.2	23
105	Electrochemistry during efficient copper recovery from complex electronic waste using ammonia based solutions. Frontiers of Chemical Science and Engineering, 2017, 11, 308-316.	2.3	23
106	Boron Doped ZIFâ€67@Graphene Derived Carbon Electrocatalyst for Highly Efficient Enzymeâ€Free Hydrogen Peroxide Biosensor. Advanced Materials Technologies, 2017, 2, 1700224.	3.0	22
107	Investigation of solution chemistry to enable efficient lithium recovery from low-concentration lithium-containing wastewater. Frontiers of Chemical Science and Engineering, 2020, 14, 639-650.	2.3	22
108	Near-to-Stoichiometric Acidic Recovery of Spent Lithium-Ion Batteries through Induced Crystallization. ACS Sustainable Chemistry and Engineering, 2021, 9, 3183-3194.	3.2	22

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109	Fabrication of a novel nanofibers-covered hollow fiber membrane via continuous electrospinning with non-rotational collectors. Materials Letters, 2017, 204, 8-11.	1.3	21
110	Recovery of High-Purity Vanadium from Aqueous Solutions by Reusable Primary Amines N1923 Associated with Semiquantitative Understanding of Vanadium Species. ACS Sustainable Chemistry and Engineering, 2018, 6, 7619-7626.	3.2	21
111	A Highly Sensitive and Selective Hydrogen Peroxide Biosensor Based on Gold Nanoparticles and Three-Dimensional Porous Carbonized Chicken Eggshell Membrane. PLoS ONE, 2015, 10, e0130156.	1.1	20
112	Comparison of Mg2+- and Ca2+-enhancing anaerobic granulation in an expanded granular sludge-bed reactor. Science China Chemistry, 2014, 57, 1596-1601.	4.2	19
113	Novel method for characterization of aqueous vanadium species: A perspective for the transition metal chemical speciation studies. Journal of Hazardous Materials, 2019, 364, 91-99.	6.5	19
114	Water-steam activation toward oxygen-deficient vanadium oxides for enhancing zinc ion storage. Journal of Materials Chemistry A, 2021, 9, 24517-24527.	5.2	19
115	Stability of the interfacial crud produced during the extraction of vanadium and chromium. Hydrometallurgy, 2013, 133, 156-160.	1.8	18
116	One-step recovery of valuable metals from spent Lithium-ion batteries and synthesis of persulfate through paired electrolysis. Chemical Engineering Journal, 2021, 421, 129908.	6.6	18
117	The structure-activity relationship of aromatic compounds in advanced oxidation processes:a review. Chemosphere, 2022, 296, 134071.	4.2	18
118	Artificial photosynthesis for solar hydrogen generation over transition-metal substituted Keggin-type titanium tungstate. New Journal of Chemistry, 2014, 38, 1315-1320.	1.4	17
119	Dendritic BiVO4 decorated with MnOx co-catalyst as an efficient hierarchical catalyst for photocatalytic ozonation. Frontiers of Chemical Science and Engineering, 2019, 13, 185-191.	2.3	17
120	Anion Exchange Nanocomposite Membranes Modified with Graphene Oxide and Polydopamine: Interfacial Structure and Antifouling Applications. ACS Applied Nano Materials, 2020, 3, 588-596.	2.4	17
121	The growth of metal sulfide–Au/Ag nanocomposites in a nonpolar organic solvent. CrystEngComm, 2013, 15, 7740.	1.3	16
122	Removal of Cd2+ from water by Friedel's salt (FS: 3CaO·A12O3·CaCl2·10H2·O): Sorption characteristics and mechanisms. Journal of Environmental Sciences, 2013, 25, 1719-1725.	3.2	16
123	The crud formation during the long-term operation of the V(V) and Cr(VI) extraction. Hydrometallurgy, 2013, 137, 133-139.	1.8	16
124	Transformation, products, and pathways of chlorophenols via electro-enzymatic catalysis: How to control toxic intermediate products. Chemosphere, 2016, 144, 1674-1681.	4.2	16
125	Chloro-benquinone Modified on Graphene Oxide as Metal-free Catalyst: Strong Promotion of Hydroxyl Radical and Generation of Ultra-Small Graphene Oxide. Scientific Reports, 2017, 7, 42643.	1.6	16
126	Conversion of phenol to cyclohexane in the aqueous phase over Ni/zeolite bi-functional catalysts. Frontiers of Chemical Science and Engineering, 2021, 15, 288-298.	2.3	16

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127	Structures and physical properties of rigid polyurethane foams with water as the sole blowing agent. Science in China Series B: Chemistry, 2006, 49, 363-370.	0.8	15
128	Capacitive deionization by ordered mesoporous carbon: electrosorption isotherm, kinetics, and the effect of modification. Desalination and Water Treatment, 2014, 52, 1388-1395.	1.0	15
129	Activated carbon enhanced ozonation of oxalate attributed to HO oxidation in bulk solution and surface oxidation: Effect of activated carbon dosage and pH. Journal of Environmental Sciences, 2014, 26, 2095-2105.	3.2	15
130	Deep understanding of sustainable vanadium recovery from chrome vanadium slag: Promotive action of competitive chromium species for vanadium solvent extraction. Journal of Hazardous Materials, 2022, 422, 126791.	6.5	15
131	Properties of water blown rigid polyurethane foams with different functionality. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 125-129.	0.4	14
132	Rapid selective extraction of V(V) from leaching solution using annular centrifugal contactors and stripping for NH4VO3. Separation and Purification Technology, 2017, 187, 407-414.	3.9	14
133	Modified Structural Constraints for Candidate Molecule Generation in Computer-Aided Molecular Design. Industrial & Engineering Chemistry Research, 2018, 57, 6937-6946.	1.8	14
134	Selective Production of Jet-Fuel-Range Alkanes from Palmitic Acid over Ni/H-MCM-49 with Two Independent Pore Systems. Industrial & Engineering Chemistry Research, 2019, 58, 21341-21349.	1.8	14
135	Nanoparticle-free and self-healing amphiphobic membrane for anti-surfactant-wetting membrane distillation. Journal of Environmental Sciences, 2021, 100, 298-305.	3.2	14
136	Comparative effects of environmental factors on bacterial communities in two types of indoor dust: Potential risks to university students. Environmental Research, 2022, 203, 111869.	3.7	14
137	Highly selective metal recovery from spent lithium-ion batteries through stoichiometric hydrogen ion replacement. Frontiers of Chemical Science and Engineering, 2021, 15, 1243-1256.	2.3	13
138	Integrated electrospun carbon nanofibers with vanadium and single-walled carbon nanotubes through covalent bonds for high-performance supercapacitors. RSC Advances, 2015, 5, 40163-40172.	1.7	12
139	Photocatalytic Reduction Synthesis of Ternary Ag Nanoparticles/Polyoxometalate/Graphene Nanohybrids and Its Activity in the Electrocatalysis of Oxygen Reduction. Journal of Cluster Science, 2016, 27, 241-256.	1.7	12
140	Analysis of a diverse bacterial community and degradation of organic compounds in a bioprocess for coking wastewater treatment. Desalination and Water Treatment, 2016, 57, 19096-19105.	1.0	11
141	In Situ Nanoreactors: Controllable Photoluminescent Carbonâ€Rich Polymer Nanodots Derived from Fatty Acid under Photoirradiation. Macromolecular Rapid Communications, 2018, 39, e1800152.	2.0	11
142	Selective Recovery of Gallium (Indium) from Metal Organic Chemical Vapor Deposition Dust—A Sustainable Process. ACS Sustainable Chemistry and Engineering, 2019, 7, 9646-9654.	3.2	11
143	Selectively anchored vanadate host for self-boosting catalytic synthesis of ultra-fine vanadium nitride/nitrogen-doped hierarchical carbon hybrids as superior electrode materials. Electrochimica Acta, 2020, 332, 135387.	2.6	11
144	Environmentally Friendly Extraction and Recovery of Cobalt from Simulated Solution of Spent Ternary Lithium Batteries Using the Novel Ionic Liquids of [C ₈ H ₁₇ NH ₂][Cyanex 272]. ACS Sustainable Chemistry and Engineering, 2021, 9, 2475-2485.	3.2	11

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145	A 1-dodecanethiol-based phase transfer protocol for the highly efficient extraction of noble metal ions from aqueous phase. Journal of Environmental Sciences, 2015, 29, 146-150.	3.2	10
146	C ₃ N ₄ –Mn/CNT composite as a heterogeneous catalyst in the electro-peroxone process for promoting the reaction between O ₃ and H ₂ O ₂ in acid solution. Catalysis Science and Technology, 2018, 8, 6241-6251.	2.1	10
147	Extraction of V(V) and Cr(VI) from aqueous solution using primary amine extractants: extraction mechanism and oxidation of extractants. Chemical Papers, 2018, 72, 109-118.	1.0	9
148	Green Fabrication of Carbon Dots upon Photoirradiation and Their Application in Cell Imaging. ACS Applied Nano Materials, 2019, 2, 3404-3413.	2.4	9
149	Comprehensive characterization on Ga (In)-bearing dust generated from semiconductor industry for effective recovery of critical metals. Waste Management, 2019, 89, 212-223.	3.7	9
150	Upgrading of palmitic acid to diesel-like fuels over Ni@HZSM-5 bi-functional catalysts through the in situ encapsulation method. Molecular Catalysis, 2021, 511, 111715.	1.0	9
151	Quantitative tuning of ionic metal species for ultra-selective metal solvent extraction toward high-purity vanadium products. Journal of Hazardous Materials, 2022, 425, 127756.	6.5	9
152	Comparative Study of Chromium(VI) Removal from Simulated Industrial Wastewater with Ion Exchange Resins. Russian Journal of Physical Chemistry A, 2018, 92, 1229-1236.	0.1	8
153	Kinetics of V(V) extraction in V(V)-SO42â^' (Na+, H+)-primary amine N1923-sulfonated kerosene system using single drop technique. Separation and Purification Technology, 2019, 215, 473-479.	3.9	8
154	A review of application of annular centrifugal contactors in aspects of mass transfer and operational security. Hydrometallurgy, 2018, 177, 41-48.	1.8	7
155	Coupling-oxidation process promoted ring-opening degradation of 2-mecapto-5-methyl-1,3,4-thiadizaole in wastewater. Water Research, 2020, 186, 116362.	5.3	7
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