

Wei Jin

List of Publications by Year in descending order

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115
papers

5,658
citations

76326

40
h-index

88630

70
g-index

116
all docs

116
docs citations

116
times ranked

5868
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials based electrochemical sensor and biosensor platforms for environmental applications. <i>Trends in Environmental Analytical Chemistry</i> , 2017, 13, 10-23.	10.3	285
2	Electrochemical processes for the environmental remediation of toxic Cr(VI): A review. <i>Electrochimica Acta</i> , 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. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3697-3703.	10.3	235
4	Adsorption behavior of arsenicals on MIL-101(Fe): The role of arsenic chemical structures. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 692-704.	9.4	202
5	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
6	Engineering Bismuth-Tin Interface in Bimetallic Aerogel with a 3D Porous Structure for Highly Selective Electrocatalytic CO ₂ Reduction to HCOOH. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12554-12559.	13.8	188
7	Earth-abundant transition metal and metal oxide nanomaterials: Synthesis and electrochemical applications. <i>Progress in Materials Science</i> , 2019, 106, 100574.	32.8	184
8	Recent Progress of Vacancy Engineering for Electrochemical Energy Conversion Related Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2009070.	14.9	166
9	Sensitive and selective electrochemical detection of chromium(VI) based on gold nanoparticle-decorated titania nanotube arrays. <i>Analyst</i> , 2014, 139, 235-241.	3.5	153
10	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
11	Oxygen Vacancy-Rich In ₂ O ₃ -Doped CoO/CoP Heterostructure as an Effective Air Cathode for Rechargeable Zn-Air Batteries. <i>Small</i> , 2019, 15, e1904210.	10.0	142
12	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
13	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
14	Recent advances in electrochemical detection of toxic Cr(VI). <i>RSC Advances</i> , 2015, 5, 37440-37450.	3.6	86
15	Highly efficient removal of bisphenol A by a novel Co-doped LaFeO ₃ perovskite/PMS system in salinity water. <i>Science of the Total Environment</i> , 2021, 801, 149490.	8.0	86
16	Recent Advances in the Synthesis of Layered, Double-Hydroxide-Based Materials and Their Applications in Hydrogen and Oxygen Evolution. <i>Energy Technology</i> , 2016, 4, 354-368.	3.8	84
17	Transformation pathway and degradation mechanism of methylene blue through Fe ²⁺ -FeOOH@GO catalyzed photo-Fenton-like system. <i>Chemosphere</i> , 2019, 218, 83-92.	8.2	84
18	Sustainable Electrochemical Extraction of Metal Resources from Waste Streams: From Removal to Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4693-4707.	6.7	84

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19	MOF-derived two-dimensional N-doped carbon nanosheets coupled with Co ²⁺ /Fe ³⁺ /Se as efficient bifunctional OER/ORR catalysts. <i>Nanoscale</i> , 2019, 11, 20144-20150.	5.6	83
20	Engineering Multimetallic Aerogels for pH-Universal HER and ORR Electrocatalysis. <i>Advanced Energy Materials</i> , 2020, 10, 1903857.	19.5	83
21	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
22	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
23	Confined N-CoSe ₂ active sites boost bifunctional oxygen electrocatalysis for rechargeable Zn-air batteries. <i>Nano Energy</i> , 2022, 91, 106675.	16.0	76
24	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
25	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
26	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
27	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
28	A novel graphene oxide-carbon nanotubes anchored γ -FeOOH hybrid activated persulfate system for enhanced degradation of Orange II. <i>Journal of Environmental Sciences</i> , 2019, 83, 73-84.	6.1	64
29	Alkaline electrochemical advanced oxidation process for chromium oxidation at graphitized multi-walled carbon nanotubes. <i>Chemosphere</i> , 2017, 183, 156-163.	8.2	62
30	High selectivity and effectiveness for removal of tetracycline and its related drug resistance in food wastewater through schwertmannite/graphene oxide catalyzed photo-Fenton-like oxidation. <i>Journal of Hazardous Materials</i> , 2020, 392, 122437.	12.4	62
31	Dianion Induced Electron Delocalization of Trifunctional Electrocatalysts for Rechargeable Zn-Air Batteries and Self-Powered Water Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	62
32	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
33	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
34	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
35	Electrochemical detection of chemical pollutants based on gold nanomaterials. <i>Trends in Environmental Analytical Chemistry</i> , 2017, 14, 28-36.	10.3	48
36	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

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37	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
38	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
39	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
40	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
41	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
42	Carbon nanomaterials: Synthesis, properties and applications in electrochemical sensors and energy conversion systems. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 272, 115341.	3.5	40
43	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
44	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
45	Nanosheet-like Co ₃ (OH) ₂ (HPO ₄) ₂ 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
46	Self-Supporting Electrodes for Gas-Involved Key Energy Reactions. <i>Advanced Functional Materials</i> , 2021, 31, 2104620.	14.9	39
47	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
48	Coral-like carbon-wrapped NiCo alloys derived by emulsion aggregation strategy for efficient oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2020, 573, 96-104.	9.4	36
49	Engineering Bismuth-Tin Interface in Bimetallic Aerogel with a 3D Porous Structure for Highly Selective Electrocatalytic CO ₂ Reduction to HCOOH. <i>Angewandte Chemie</i> , 2021, 133, 12662-12667.	2.0	36
50	Evolution of interfacial coupling interaction of Ni-Ru species for pH-universal water splitting. <i>Chemical Engineering Journal</i> , 2021, 426, 130762.	12.7	36
51	Encapsulated spinel CuXCo ₃ XO ₄ in carbon nanotubes as efficient and stable oxygen electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 11421-11430.	7.1	33
52	AgI loading BiOI composites with enhanced photodegradation efficiency for bisphenol A under simulated solar light. <i>Science of the Total Environment</i> , 2019, 669, 194-204.	8.0	33
53	Tuning γ -Fe ₂ O ₃ nanotube arrays for the oxygen reduction reaction in alkaline media. <i>RSC Advances</i> , 2016, 6, 41878-41884.	3.6	32
54	Rapid synthesis of gold-palladium core-shell aerogels for selective and robust electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17189-17197.	10.3	32

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55	Ultrafine Ir nanoparticles decorated on FeP/FeOOH with abundant interfaces via a facile corrosive approach for alkaline water-splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12074-12079.	10.3	32
56	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
57	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
58	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
59	Efficient electrochemical recovery of dilute selenium by cyclone electrowinning. <i>Hydrometallurgy</i> , 2018, 179, 232-237.	4.3	29
60	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
61	Cr(III)-induced electrochemical advanced oxidation processes for the V ₂ O ₃ dissolution in alkaline media. <i>Chemical Engineering Journal</i> , 2017, 307, 518-525.	12.7	27
62	Additives-assisted electrodeposition of fine spherical copper powder from sulfuric acid solution. <i>Powder Technology</i> , 2018, 326, 84-88.	4.2	27
63	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
64	Defluoridation by rice spike-like akaganeite anchored graphene oxide. <i>RSC Advances</i> , 2016, 6, 11240-11249.	3.6	26
65	Controlled Electrodeposition of Uniform Copper Powder from Hydrochloric Acid Solutions. <i>Journal of the Electrochemical Society</i> , 2017, 164, D723-D728.	2.9	26
66	In-situ growth of CoFeS ₂ on metal-organic frameworks-derived Co-NC polyhedron enables high-performance oxygen electrocatalysis for rechargeable zinc-air batteries. <i>Journal of Power Sources</i> , 2021, 512, 230430.	7.8	25
67	Efficient oxidative dissolution of V ₂ O ₃ by the in situ electro-generated reactive oxygen species on N-doped carbon felt electrodes. <i>Electrochimica Acta</i> , 2017, 226, 140-147.	5.2	24
68	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
69	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
70	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
71	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
72	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

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73	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
74	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
75	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
76	Simultaneous Phenol Detoxification and Dilute Metal Recovery in Cyclone Electrochemical Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 12642-12649.	3.7	21
77	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
78	Transformation of antiviral ribavirin during ozone/PMS intensified disinfection amid COVID-19 pandemic. <i>Science of the Total Environment</i> , 2021, 790, 148030.	8.0	20
79	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
80	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
81	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
82	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
83	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
84	Phase Diagrams for the Ternary Na ₂ O-Al ₂ O ₃ -H ₂ O System at (150 and 180) °C. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 2470-2473.	1.9	15
85	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. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 8244-8247.	3.7	15
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	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
88	Gas evolution characterization and phase transformation during thermal treatment of cathode plates from spent LiFePO ₄ batteries. <i>Thermochimica Acta</i> , 2020, 684, 178483.	2.7	15
89	Electrochemically activated Cu ₂ O/Co ₃ O ₄ nanocomposites on defective carbon nanotubes for the hydrogen evolution reaction. <i>New Journal of Chemistry</i> , 2018, 42, 19400-19406.	2.8	14
90	Nucleation and growth for magnesia inclusion in Fe-O-Mg melt. <i>RSC Advances</i> , 2018, 8, 38336-38345.	3.6	14

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91	Facile synthesis of CoWO ₄ /RGO composites as superior anode materials for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2767-2774.	2.5	14
92	<i>In situ</i> growth of CuS decorated graphene oxide-multiwalled carbon nanotubes for ultrasensitive H ₂ O ₂ detection in alkaline solution. <i>New Journal of Chemistry</i> , 2019, 43, 3309-3316.	2.8	13
93	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
94	W-doped MoS ₂ 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
95	<i>In situ</i> 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
96	Size effect of ¹³ MnO ₂ precoated anode on lead-containing pollutant reduction and its controllable fabrication in industrial-scale for zinc electrowinning. <i>Chemosphere</i> , 2022, 287, 132457.	8.2	11
97	Functional nanomaterial-derived electrochemical sensor and biosensor platforms for biomedical applications. , 2020, , 297-327.		10
98	Facile synthesis of goethite anchored regenerated graphene oxide nanocomposite and its application in the removal of fluoride from drinking water. <i>Desalination and Water Treatment</i> , 2016, 57, 28393-28404.	1.0	9
99	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
100	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
101	Towards source reduction and green sustainability of metal-bearing waste streams: The electrochemical processes. <i>Electrochimica Acta</i> , 2021, 374, 137937.	5.2	8
102	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
103	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
104	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
105	Twinned copper nanoparticles modulated with electrochemical deposition for <i>in situ</i> SERS monitoring. <i>CrystEngComm</i> , 2018, 20, 5609-5618.	2.6	5
106	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
107	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
108	Effect of passive ventilation on the performance of unplanted sludge treatment wetlands: heavy metal removal and microbial community variation. <i>Environmental Science and Pollution Research</i> , 2020, 27, 31665-31676.	5.3	4

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109	Thermodynamic insight into the growth of nanoscale inclusion of Al-deoxidation in Fe-Al melt. Scientific Reports, 2020, 10, 16909.	3.3	3
110	Recent Advances in Catalyst Development for Transesterification of Dialkyl Carbonates with Phenol. Industrial & Engineering Chemistry Research, 2020, 59, 20630-20645.	3.7	3
111	Sensitive Electrochemical Detection of Pb(II) and H ₂ O ₂ via a Dual-functional Sn-doped Defective Bi ₂ S ₃ Microspheres. Electroanalysis, 2021, 33, 947-955.	2.9	3
112	Thermodynamic Modelling on Nanoscale Growth of Magnesia Inclusion in Fe-O-Mg Melt. Metals, 2019, 9, 174.	2.3	2
113	Editorial: Carbon-Based Bifunctional Oxygen Electrocatalysts. Frontiers in Chemistry, 2020, 8, 713.	3.6	2
114	Notice of Retraction: Optimization of coagulation-flocculation conditions for the treatment of combined sewer overflow wastewater. , 2010, , .		1
115	Performance evaluation on the pollution control against wet weather overflow based on on-site coagulation/flocculation in terminal drainage pipes. Frontiers of Environmental Science and Engineering, 2021, 15, 1.	6.0	1