

Liyuan Chai

List of Publications by Year in descending order

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117
papers

6,166
citations

61984

43
h-index

76900

74
g-index

119
all docs

119
docs citations

119
times ranked

7125
citing authors

#	ARTICLE	IF	CITATIONS
1	Systematic control technologies for gaseous pollutants from non-ferrous metallurgy. <i>Journal of Environmental Sciences</i> , 2023, 123, 65-82.	6.1	4
2	Design of a high-performance ternary LDHs containing Ni, Co and Mn for arsenate removal. <i>Journal of Hazardous Materials</i> , 2022, 427, 127865.	12.4	17
3	Microinteraction Analysis between Heavy Metals and Coexisting Phases in Heavy Metal Containing Solid Wastes. <i>ACS ES&T Engineering</i> , 2022, 2, 547-563.	7.6	8
4	Mechanistic Understanding of Superoxide Radical-Mediated Degradation of Perfluorocarboxylic Acids. <i>Environmental Science & Technology</i> , 2022, 56, 624-633.	10.0	45
5	Response to Comment on "Mechanistic Understanding of Superoxide Radical-Mediated Degradation of Perfluorocarboxylic Acids". <i>Environmental Science & Technology</i> , 2022, 56, 5289-5291.	10.0	2
6	How Pyrite Interacts with Anammox: Mechanisms and Application. <i>ACS ES&T Water</i> , 2022, 2, 495-507.	4.6	18
7	Minimizing Fe-Bearing Waste Guided by Modulating the Precipitation Pathway: A Novel Magnetite Precipitation Approach for Zinc Hydrometallurgy. <i>ACS ES&T Engineering</i> , 2022, 2, 1611-1618.	7.6	6
8	Accelerated Degradation of Microplastics at the Liquid Interface of Ice Crystals in Frozen Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	31
9	Single-cell transcriptomics uncovers phenotypic alterations in the monocytes in a Chinese population with chronic cadmium exposure. <i>Ecotoxicology and Environmental Safety</i> , 2021, 211, 111881.	6.0	7
10	Cationic Polymeric Networks: 3D Cationic Polymeric Network Nanotrap for Efficient Collection of Perrhenate Anion from Wastewater (Small 20/2021). <i>Small</i> , 2021, 17, 2170094.	10.0	0
11	Hydroxylamine addition enhances fast recovery of anammox activity suffering Cr(VI) inhibition. <i>Bioresource Technology</i> , 2021, 329, 124920.	9.6	20
12	Selenium and nitrogen co-doped biochar as a new metal-free catalyst for adsorption of phenol and activation of peroxymonosulfate: Elucidating the enhanced catalytic performance and stability. <i>Journal of Hazardous Materials</i> , 2021, 413, 125294.	12.4	46
13	An Overlooked Natural Hydrogen Evolution Pathway: Ni ²⁺ Boosting H ₂ O Reduction by Fe(OH) ₂ Oxidation during Low-Temperature Serpentinization. <i>Angewandte Chemie</i> , 2021, 133, 24256-24260.	2.0	5
14	Ultrastrong Anion Affinity of Anionic Clay Induced by Its Inherent Nanoconfinement. <i>Environmental Science & Technology</i> , 2021, 55, 930-940.	10.0	18
15	Two-Dimensional Titanium Carbides (Ti ₃ C ₂ T _x) Functionalized by Poly(m-phenylenediamine) for Efficient Adsorption and Reduction of Hexavalent Chromium. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 167.	2.6	49
16	Sequentially recover heavy metals from smelting wastewater using bioelectrochemical system coupled with thermoelectric generators. <i>Ecotoxicology and Environmental Safety</i> , 2020, 205, 111174.	6.0	23
17	Biodeposited Nano-CdS Drives the In Situ Growth of Highly Dispersed Sulfide Nanoparticles during Pyrolysis for Enhanced Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54553-54562.	8.0	12
18	Phase separation of co-solvent promotes multiple bio-nanomaterials conversion from natural lignocellulose. <i>Industrial Crops and Products</i> , 2020, 152, 112469.	5.2	13

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19	Systematic Assessment of Health Risk from Metals in Surface Sediment of the Xiangjiang River, China. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1677.	2.6	8
20	Selective removal of Cl ⁻ and F ⁻ from complex solution via electrochemistry deionization with bismuth/reduced graphene oxide composite electrode. <i>Chemosphere</i> , 2020, 251, 126319.	8.2	41
21	Adsorption mechanism for removing different species of fluoride by designing of core-shell boehmite. <i>Journal of Hazardous Materials</i> , 2020, 394, 122555.	12.4	51
22	Preparation of stable and high-efficient poly(m-phenylenediamine)/reduced graphene oxide composites for hexavalent chromium removal. <i>Journal of Materials Science</i> , 2019, 54, 383-395.	3.7	41
23	High-performance supercapacitor energy storage using a carbon material derived from lignin by bacterial activation before carbonization. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26838-26848.	10.3	96
24	Three-dimensional carbon nanosheets derived from micro-morphologically regulated biomass for ultrahigh-performance supercapacitors. <i>Carbon</i> , 2019, 153, 707-716.	10.3	61
25	Catalytic Oxidation of Elemental Mercury in Coal-Combustion Flue Gas over the CuAlO ₂ Catalyst. <i>Energy & Fuels</i> , 2019, 33, 11380-11388.	5.1	32
26	Enhanced adsorption-coupled reduction of hexavalent chromium by 2D poly(m-phenylenediamine)-functionalized reduced graphene oxide. <i>Environmental Science and Pollution Research</i> , 2019, 26, 31099-31110.	5.3	23
27	Seasonal and spatial contamination statuses and ecological risk of sediment cores highly contaminated by heavy metals and metalloids in the Xiangjiang River. <i>Environmental Geochemistry and Health</i> , 2019, 41, 1617-1633.	3.4	20
28	Effect of the chemical bond on the electrosorption and desorption of anions during capacitive deionization. <i>Chemosphere</i> , 2019, 229, 341-348.	8.2	11
29	Multi-omics response of <i>Pannonibacter phragmitetus</i> BB to hexavalent chromium. <i>Environmental Pollution</i> , 2019, 249, 63-73.	7.5	65
30	Polyhydroxyalkanoate-Modified Bacterium Regulates Biomass Structure and Promotes Synthesis of Carbon Materials for High-Performance Supercapacitors. <i>ChemSusChem</i> , 2019, 12, 1732-1742.	6.8	22
31	Formation mechanism of zinc-doped fayalite (Fe _{2-x} Zn _x SiO ₄) slag during copper smelting. <i>Journal of Hazardous Materials</i> , 2019, 364, 488-498.	12.4	47
32	Complementary effect of combined bacterial-chemical pretreatment to promote enzymatic digestibility of lignocellulose biomass. <i>Bioresource Technology</i> , 2019, 272, 275-280.	9.6	24
33	Mechanistic Study on the Role of Soluble Microbial Products in Sulfate Radical-Mediated Degradation of Pharmaceuticals. <i>Environmental Science & Technology</i> , 2019, 53, 342-353.	10.0	83
34	Bioconversion of lignin into bioplastics by <i>Pandoraea</i> sp. B-6: molecular mechanism. <i>Environmental Science and Pollution Research</i> , 2019, 26, 2761-2770.	5.3	38
35	Enhanced degradation of 1-naphthol in landfill leachate using <i>Arthrobacter</i> sp.. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 835-842.	2.2	6
36	<i>Pandoraea</i> sp. B-6 assists the deep eutectic solvent pretreatment of rice straw via promoting lignin depolymerization. <i>Bioresource Technology</i> , 2018, 257, 62-68.	9.6	63

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37	Kinetic and mechanistic aspects of hydroxyl radical-mediated degradation of naproxen and reaction intermediates. <i>Water Research</i> , 2018, 137, 233-241.	11.3	160
38	Stabilization of Cd-, Pb-, Cu- and Zn-contaminated calcareous agricultural soil using red mud: a field experiment. <i>Environmental Geochemistry and Health</i> , 2018, 40, 2143-2153.	3.4	34
39	Comparison of the degradation of molecular and ionic ibuprofen in a UV/H ₂ O ₂ system. <i>Water Science and Technology</i> , 2018, 77, 2174-2183.	2.5	24
40	Simultaneous immobilization of cadmium and lead in contaminated soils by hybrid bio-nanocomposites of fungal hyphae and nano-hydroxyapatites. <i>Environmental Science and Pollution Research</i> , 2018, 25, 11970-11980.	5.3	45
41	Effect of the electronegativity on the electrosorption selectivity of anions during capacitive deionization. <i>Chemosphere</i> , 2018, 195, 282-290.	8.2	44
42	Combination of bioleaching by gross bacterial biosurfactants and flocculation: A potential remediation for the heavy metal contaminated soils. <i>Chemosphere</i> , 2018, 206, 83-91.	8.2	56
43	The study of a pilot-scale aerobic/Fenton/anoxic/aerobic process system for the treatment of landfill leachate. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1926-1936.	2.2	14
44	Enhanced stability of tooeite by hydrothermal method for the fixation of arsenite. <i>Hydrometallurgy</i> , 2018, 175, 93-101.	4.3	33
45	Quantitative structure-activity relationships for reactivities of sulfate and hydroxyl radicals with aromatic contaminants through single-electron transfer pathway. <i>Journal of Hazardous Materials</i> , 2018, 344, 1165-1173.	12.4	109
46	UV direct photolysis of sulfamethoxazole and ibuprofen: An experimental and modelling study. <i>Journal of Hazardous Materials</i> , 2018, 343, 132-139.	12.4	114
47	Capacitive deionization of chloride ions by activated carbon using a three-dimensional electrode reactor. <i>Separation and Purification Technology</i> , 2018, 191, 424-432.	7.9	30
48	A RQPSO Algorithm for Multiphase Equilibrium Calculation in the KIVCET Process. <i>Jom</i> , 2018, 70, 2893-2899.	1.9	3
49	Polydopamine Functionalized Cu Nanowires for Enhanced CO ₂ Electroreduction Towards Methane. <i>ChemElectroChem</i> , 2018, 5, 3991-3999.	3.4	47
50	Structural substitution for SO ₄ group in tooeite crystal by As(V) and As(III) oxoanions and the environmental implications. <i>Chemosphere</i> , 2018, 213, 305-313.	8.2	13
51	Uranium bioleaching from low-grade carbonaceous-siliceous-argillaceous type uranium ore using an indigenous <i>Acidithiobacillus ferrooxidans</i> . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 317, 1033-1040.	1.5	18
52	Discerning three novel chromate reduce and transport genes of highly efficient <i>Pannonibacter phragmitetus</i> BB: From genome to gene and protein. <i>Ecotoxicology and Environmental Safety</i> , 2018, 162, 139-146.	6.0	38
53	Modeling and optimization of lime-based stabilization in high alkaline arsenic-bearing sludges with a central composite design. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2017, 52, 449-458.	1.7	33
54	A novel model to predict gas-phase hydroxyl radical oxidation kinetics of polychlorinated compounds. <i>Chemosphere</i> , 2017, 172, 333-340.	8.2	43

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55	Selenium-Assisted Reduction of Sulfur Dioxide by Carbon Monoxide in the Liquid Phase. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 1895-1902.	3.7	9
56	Fungus hyphae-supported alumina: An efficient and reclaimable adsorbent for fluoride removal from water. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 496-504.	9.4	53
57	The electrochemical selective reduction of NO using CoSe ₂ @CNTs hybrid. <i>Environmental Science and Pollution Research</i> , 2017, 24, 14249-14258.	5.3	29
58	Abiological Granular Sludge Formation Benefit for Heavy Metal Wastewater Treatment Using Sulfide Precipitation. <i>Clean - Soil, Air, Water</i> , 2017, 45, 1500730.	1.1	12
59	Combination of microbial oxidation and biogenic schwertmannite immobilization: A potential remediation for highly arsenic-contaminated soil. <i>Chemosphere</i> , 2017, 181, 1-8.	8.2	43
60	Structure and spectroscopic study of aqueous Fe(III)-As(V) complexes using UV-Vis, XAS and DFT-TDDFT. <i>Chemosphere</i> , 2017, 182, 595-604.	8.2	48
61	Fe-FeS ₂ adsorbent prepared with iron powder and pyrite by facile ball milling and its application for arsenic removal. <i>Water Science and Technology</i> , 2017, 76, 192-200.	2.5	72
62	High-resolution analyses reveal structural diversity patterns of microbial communities in Chromite Ore Processing Residue (COPR) contaminated soils. <i>Chemosphere</i> , 2017, 183, 266-276.	8.2	49
63	Selective Removal of Elemental Mercury from High-Concentration SO ₂ Flue Gas by Thiourea Solution and Investigation of Mechanism. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4281-4287.	3.7	33
64	Mercury Re-Emission in the Smelting Flue Gas Cleaning Process: The Influence of Arsenite. <i>Energy & Fuels</i> , 2017, 31, 11053-11059.	5.1	20
65	A Comparative Evaluation of Different Sediment Quality Guidelines for Metal and Metalloid Pollution in the Xiangjiang River, Hunan, China. <i>Archives of Environmental Contamination and Toxicology</i> , 2017, 73, 593-606.	4.1	23
66	Bacteria-enhanced dilute acid pretreatment of lignocellulosic biomass. <i>Bioresource Technology</i> , 2017, 245, 419-425.	9.6	82
67	Heap bioleaching of uranium from low-grade granite-type ore by mixed acidophilic microbes. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 314, 251-258.	1.5	32
68	Chemical bond between chloride ions and surface carboxyl groups on activated carbon. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 530, 53-59.	4.7	30
69	Heavy metals and metalloids in the surface sediments of the Xiangjiang River, Hunan, China: distribution, contamination, and ecological risk assessment. <i>Environmental Science and Pollution Research</i> , 2017, 24, 874-885.	5.3	170
70	Stabilization of arsenic sludge with mechanochemically modified zero valent iron. <i>Chemosphere</i> , 2017, 168, 1142-1151.	8.2	92
71	Study on the mechanism of copper-ammonia complex decomposition in struvite formation process and enhanced ammonia and copper removal. <i>Journal of Environmental Sciences</i> , 2017, 51, 222-233.	6.1	63
72	Simultaneous immobilization of lead, cadmium, and arsenic in combined contaminated soil with iron hydroxyl phosphate. <i>Journal of Soils and Sediments</i> , 2017, 17, 432-439.	3.0	57

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73	Directed bioconversion of Kraft lignin to polyhydroxyalkanoate by <i>Cupriavidus basilensis</i> B-8 without any pretreatment. <i>Process Biochemistry</i> , 2017, 52, 238-242.	3.7	116
74	Isolation and Identification of Two Novel Alkaligenous Arsenic(III)-Oxidizing Bacteria From a Realgar Mine, China. <i>Clean - Soil, Air, Water</i> , 2017, 45, .	1.1	3
75	Biosynthesis of schwertmannite by <i>Acidithiobacillus ferrooxidans</i> and its application in arsenic immobilization in the contaminated soil. <i>Journal of Soils and Sediments</i> , 2016, 16, 2430-2438.	3.0	27
76	Characterization of arsenic serious-contaminated soils from Shimen realgar mine area, the Asian largest realgar deposit in China. <i>Journal of Soils and Sediments</i> , 2016, 16, 1519-1528.	3.0	70
77	Highly Flexible and Porous Nanoparticle-Loaded Films for Dye Removal by Graphene Oxide-Fungus Interaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 34638-34647.	8.0	63
78	Formation of tooeleite and the role of direct removal of As(III) from high-arsenic acid wastewater. <i>Journal of Hazardous Materials</i> , 2016, 320, 620-627.	12.4	69
79	Selenium catalyzed Fe(III)-EDTA reduction by Na ₂ SO ₃ : a reaction-controlled phase transfer catalysis. <i>Environmental Science and Pollution Research</i> , 2016, 23, 8113-8119.	5.3	30
80	Bioleaching remediation of heavy metal-contaminated soils using <i>Burkholderia</i> sp. Z-90. <i>Journal of Hazardous Materials</i> , 2016, 301, 145-152.	12.4	162
81	Se-catalyzed process of sodium bisulfite disproportionation. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1023-1030.	3.2	8
82	Arsenic immobilization in the contaminated soil using poorly crystalline Fe-oxyhydroxy sulfate. <i>Environmental Science and Pollution Research</i> , 2015, 22, 12624-12632.	5.3	55
83	Cu doped Fe ₃ O ₄ magnetic adsorbent for arsenic: synthesis, property, and sorption application. <i>RSC Advances</i> , 2015, 5, 50011-50018.	3.6	85
84	Complexation of arsenate with ferric ion in aqueous solutions. <i>RSC Advances</i> , 2015, 5, 103936-103942.	3.6	39
85	Mechanical Activation-Assisted Reductive Leaching of Cadmium from Zinc Neutral Leaching Residue Using Sulfur Dioxide. <i>Jom</i> , 2015, 67, 3010-3021.	1.9	9
86	Nano-functionalized filamentous fungus hyphae with fast reversible macroscopic assembly & disassembly features. <i>Chemical Communications</i> , 2015, 51, 8524-8527.	4.1	26
87	Synthesis of Core-Shell Magnetic Fe ₃ O ₄ @poly(<i>m</i> -Phenylenediamine) Particles for Chromium Reduction and Adsorption. <i>Environmental Science & Technology</i> , 2015, 49, 5654-5662.	10.0	339
88	Sustainable synthesis of hollow Cu-loaded poly(<i>m</i> -phenylenediamine) particles and their application for arsenic removal. <i>RSC Advances</i> , 2015, 5, 29965-29974.	3.6	21
89	Porous carbonized graphene-embedded fungus film as an interlayer for superior Li-S batteries. <i>Nano Energy</i> , 2015, 17, 224-232.	16.0	130
90	A Cu-m-phenylenediamine complex induced route to fabricate poly(<i>m</i> -phenylenediamine)/reduced graphene oxide hydrogel and its adsorption application. <i>Carbon</i> , 2015, 81, 748-757.	10.3	73

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91	Formation of abiological granular sludge " A facile and bioinspired proposal for improving sludge settling performance during heavy metal wastewater treatment. <i>Chemosphere</i> , 2014, 113, 36-41.	8.2	36
92	Assessment of the stability of chromium in remedied soils by <i>Pannonibacter phragmitetus</i> BB and its risk to groundwater. <i>Journal of Soils and Sediments</i> , 2014, 14, 1098-1106.	3.0	15
93	Silver nanocrystals with special shapes: controlled synthesis and their surface-enhanced Raman scattering properties. <i>RSC Advances</i> , 2014, 4, 98-104.	3.6	21
94	Facile and large-scale synthesis of poly(m-phenylenediamine) nanobelts with high surface area and superior dye adsorption ability. <i>RSC Advances</i> , 2014, 4, 45244-45250.	3.6	28
95	High-yield synthesis of poly(m-phenylenediamine) hollow nanostructures by a diethanolamine-assisted method and their enhanced ability for Ag ⁺ adsorption. <i>New Journal of Chemistry</i> , 2014, 38, 3984-3991.	2.8	15
96	Preparation of a macroscopic, robust carbon-fiber monolith from filamentous fungi and its application in Li-ion batteries. <i>Green Chemistry</i> , 2014, 16, 3926.	9.0	115
97	Characteristics of Chromium Coprecipitation Mediated by <i>Acidithiobacillus ferrooxidans</i> DC. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	11
98	Characterization and genomic analysis of kraft lignin biodegradation by the beta-proteobacterium <i>Cupriavidus basilensis</i> B-8. <i>Biotechnology for Biofuels</i> , 2013, 6, 1.	6.2	612
99	Biochemical investigation of kraft lignin degradation by <i>Pandoraea</i> sp. B-6 isolated from bamboo slips. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 1957-1965.	3.4	110
100	Preparation and characterization of magnetic Fe ₃ O ₄ /CNT nanoparticles by RPO method to enhance the efficient removal of Cr(VI). <i>Environmental Science and Pollution Research</i> , 2013, 20, 7175-7185.	5.3	81
101	Biotreatment of chromite ore processing residue by <i>Pannonibacter phragmitetus</i> BB. <i>Environmental Science and Pollution Research</i> , 2013, 20, 5593-5602.	5.3	34
102	Graphene@poly(m-phenylenediamine) hydrogel fabricated by a facile post-synthesis assembly strategy. <i>Chemical Communications</i> , 2013, 49, 9974.	4.1	43
103	Methanol-induced formation of 1D poly(m-phenylenediamine) by conventional chemical oxidative polymerization exhibiting superior Ag ⁺ adsorption ability. <i>RSC Advances</i> , 2013, 3, 8660.	3.6	14
104	Adsorption of Cr(VI) using synthetic poly(m-phenylenediamine). <i>Journal of Hazardous Materials</i> , 2013, 260, 789-795.	12.4	94
105	Sulfate-doped Fe ₃ O ₄ /Al ₂ O ₃ nanoparticles as a novel adsorbent for fluoride removal from drinking water. <i>Water Research</i> , 2013, 47, 4040-4049.	11.3	278
106	Effect of Precipitant Additives on the Sludge Settling and Compacting Performance for Heavy Metal Wastewater Treatment. <i>Separation Science and Technology</i> , 2013, 48, 1442-1449.	2.5	21
107	Preparation of Antibacterial Color-Coated Steel Sheets. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-7.	2.5	3
108	Facile and large-scale synthesis of functional poly(m-phenylenediamine) nanoparticles by Cu ²⁺ -assisted method with superior ability for dye adsorption. <i>Journal of Materials Chemistry</i> , 2012, 22, 18244.	6.7	60

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109	pH Manipulation: A Facile Method for Lowering Oxidation State and Keeping Good Yield of Poly(<i>m</i> -phenylenediamine) and Its Powerful Ag ⁺ Adsorption Ability. <i>Langmuir</i> , 2011, 27, 13729-13738.	3.5	69
110	Ingestion risks of metals in groundwater based on TIN model and dose-response assessment – A case study in the Xiangjiang watershed, central-south China. <i>Science of the Total Environment</i> , 2010, 408, 3118-3124.	8.0	74
111	Synthesis of thiol-functionalized spent grain as a novel adsorbent for divalent metal ions. <i>Bioresource Technology</i> , 2010, 101, 6269-6272.	9.6	43
112	Enhanced removal of Hg(II) from acidic aqueous solution using thiol-functionalized biomass. <i>Water Science and Technology</i> , 2010, 62, 2157-2166.	2.5	25
113	Cr (VI) remediation by indigenous bacteria in soils contaminated by chromium-containing slag. <i>Journal of Hazardous Materials</i> , 2009, 167, 516-522.	12.4	122
114	Kinetics and Thermodynamics of Arsenate and Arsenite Biosorption by Pretreated Spent Grains. <i>Water Environment Research</i> , 2009, 81, 843-848.	2.7	23
115	Reduction of high concentrations of chromate by <i>Leucobacter</i> sp. CRB1 isolated from Changsha, China. <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 991-996.	3.6	48
116	Automatic detection of <i>Staphylococcus aureus</i> and <i>Shigella dysenteriae</i> with separated electrodes series piezoelectric sensing technique. <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 1073-1079.	3.6	3
117	Potential-pH diagram for <i>Leucobacter</i> sp. Ch-1 – Cr – H ₂ O system. <i>Journal of Hazardous Materials</i> , 2008, 157, 518-524.	12.4	8