

Xin Li

List of Publications by Year in descending order

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112
papers

6,350
citations

81900

39
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76
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114
all docs

114
docs citations

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times ranked

8646
citing authors

#	ARTICLE	IF	CITATIONS
1	Amino-Linked Conjugated Tetrazole Ring Passivation Strategy for Air-Processed Perovskite Cells with Predominant Stability and Efficiency. <i>ChemSusChem</i> , 2022, 15, .	6.8	10
2	Specific iodide effect on surface-enhanced Raman scattering for ultra-sensitive detection of organic contaminants in water. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 272, 120950.	3.9	5
3	Solvent-assisted preparation of low-temperature SnO ₂ electron transport layers for efficient and stable perovskite solar cells made in ambient conditions. <i>New Journal of Chemistry</i> , 2022, 46, 9841-9850.	2.8	5
4	Yb-doped SnO ₂ electron transfer layer assisting the fabrication of high-efficiency and stable perovskite solar cells in air. <i>RSC Advances</i> , 2022, 12, 14631-14638.	3.6	3
5	Active Functional Groups and Adjacent Dual-Interaction Strategies Enable Perovskite Solar Cells to Prosper: Including Unique Morphology and Enhanced Optoelectronic Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9946-9955.	6.7	6
6	Dummy molecular imprinted polymers coated with silver microspheres via surface enhanced Raman scattering for sensitive detection of benzimidazole. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 249, 119321.	3.9	6
7	Self-assembled zeolitic imidazolate framework-8/Ag nanoparticles composite with well-controlled flower-like architectures for ultrasensitive surface-enhanced Raman scattering detection. <i>Applied Surface Science</i> , 2021, 537, 147853.	6.1	16
8	Au-Modulated Z-Scheme CuPc/BiVO ₄ Nanosheet Heterojunctions toward Efficient CO ₂ Conversion under Wide-Visible-Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 2400-2408.	6.7	20
9	Boosting the photoelectric conversion efficiency of DSSCs through graphene quantum dots: insights from theoretical study. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5814-5825.	5.9	10
10	Design of Ni ₃ N/Co ₂ N heterojunctions for boosting electrocatalytic alkaline overall water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10260-10269.	10.3	57
11	Construction and mechanistic understanding of high-performance all-air-processed perovskite solar cells via mixed-cation engineering. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4244-4253.	5.9	7
12	Gourmet powder functionalization of SnO ₂ for high-performance perovskite solar cells made in air. <i>Electrochimica Acta</i> , 2021, 371, 137812.	5.2	16
13	Core-shell Ag-dual template molecularly imprinted composite for detection of carbamate pesticide residues. <i>Chemical Papers</i> , 2021, 75, 3679-3693.	2.2	9
14	Design and synthesis of a sandwiched silver microsphere/TiO ₂ nanoparticles/molecular imprinted polymers structure for suppressing background noise interference in high sensitivity surface-enhanced Raman scattering detection. <i>Applied Surface Science</i> , 2021, 544, 148879.	6.1	14
15	Grossly warped nanographene-phenothiazine nanocomposite as photoactive layer for solar cells: Insights from theoretical study. <i>Chemical Physics Letters</i> , 2021, 773, 138607.	2.6	1
16	2D/3D WO ₃ /BiVO ₄ heterostructures for efficient photoelectrocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 27506-27515.	7.1	21
17	Preparation of silver with an ultrathin molecular imprinted layer for detection of carbendazim by SERS. <i>Chemical Papers</i> , 2021, 75, 6477.	2.2	7
18	Carboxyl functional group-assisted defects passivation strategy for efficient air-processed perovskite solar cells with excellent ambient stability. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111242.	6.2	23

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19	O doping hierarchical NiCoP/Ni ₂ P hybrid with modulated electron density for efficient alkaline hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120196.	20.2	67
20	Core-shell magnetic Ag-molecularly imprinted composite for surface enhanced Raman scattering detection of carbaryl. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2021, 56, 222-234.	1.5	5
21	The sensing mechanism of pristine and transition metals doped Zn ₁₂ O ₁₂ , Sn ₁₂ O ₁₂ and Ni ₁₂ O ₁₂ nanocages towards NH ₃ and PH ₃ : a DFT study. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17382-17391.	5.5	7
22	Core-shell Ag-molecularly imprinted composite for SERS detection of carbendazim. <i>International Journal of Environmental Analytical Chemistry</i> , 2020, 100, 1245-1258.	3.3	17
23	Ethyl acetate green antisolvent process for high-performance planar low-temperature SnO ₂ -based perovskite solar cells made in ambient air. <i>Chemical Engineering Journal</i> , 2020, 379, 122298.	12.7	95
24	The integration of molecular imprinting and surface-enhanced Raman scattering for highly sensitive detection of lysozyme biomarker aided by density functional theory. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117764.	3.9	30
25	Spin-assisted interfacial polymerization strategy for graphene oxide-polyamide composite nanofiltration membrane with high performance. <i>Applied Surface Science</i> , 2020, 508, 145198.	6.1	46
26	Theoretical insights into the effect of pristine, doped and hole graphene on the overall performance of dye-sensitized solar cells. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 157-168.	6.0	9
27	Theoretical screening of high-efficiency sensitizers with D-Ĥ-A framework for DSSCs by altering promising donor group. <i>Solar Energy</i> , 2020, 196, 146-156.	6.1	35
28	HClO ₄ -assisted fabrication of SnO ₂ /C ₆₀ bilayer electron-transport materials for all air-processed efficient and stable inverted planar perovskite solar cells. <i>Journal of Power Sources</i> , 2020, 476, 228648.	7.8	23
29	Mechanistic Understanding of Cetyltrimethylammonium Bromide-Assisted Durable CH ₃ NH ₃ PbI ₃ Film for Stable ZnO-Based Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 9856-9865.	5.1	8
30	Light harvesting enhancement by hierarchical Au/TiO ₂ microspheres consisted with nanorod units for dye sensitized solar cells. <i>Solar Energy</i> , 2020, 207, 592-598.	6.1	9
31	Surfactant Sodium Dodecyl Benzene Sulfonate Improves the Efficiency and Stability of Air-Processed Perovskite Solar Cells with Negligible Hysteresis. <i>Solar Rrl</i> , 2020, 4, 2000376.	5.8	30
32	Bio-inspired co-deposited preparation of GO composite loose nanofiltration membrane for dye contaminated wastewater sustainable treatment. <i>Journal of Hazardous Materials</i> , 2020, 400, 123121.	12.4	95
33	Flower-like Ag coated with molecularly imprinted polymers as a surface-enhanced Raman scattering substrate for the sensitive and selective detection of glibenclamide. <i>Analytical Methods</i> , 2020, 12, 2858-2864.	2.7	22
34	Ultraviolet-ozone modification on TiO ₂ surface to promote both efficiency and stability of low-temperature planar perovskite solar cells. <i>Chemical Engineering Journal</i> , 2020, 393, 124731.	12.7	29
35	A rational design of excellent light-absorbing dyes with different N-substituents at the phenothiazine for high efficiency solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 234, 118241.	3.9	17
36	Graphene-modulated assembly of zinc phthalocyanine on BiVO ₄ nanosheets for efficient visible-light catalytic conversion of CO ₂ . <i>Chemical Communications</i> , 2020, 56, 4926-4929.	4.1	17

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37	In situ ligand-free growth of TiO ₂ -encapsulated Au nanocomposites on photoanode for efficient dye sensitized solar cells. <i>Chemical Engineering Journal</i> , 2020, 396, 125302.	12.7	18
38	Ultrathin MnO ₂ nanosheets grown on hollow carbon spheres with enhanced capacitive performance. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126539.	2.1	17
39	HI-assisted fabrication of Sn-doping TiO ₂ electron transfer layer for air-processed perovskite solar cells with high efficiency and stability. <i>Solar Energy Materials and Solar Cells</i> , 2020, 215, 110594.	6.2	17
40	Effect of calcination temperature on the microstructure of vanadium nitride/nitrogen-doped graphene nanocomposites as anode materials in electrochemical capacitors. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 164-171.	6.0	19
41	Green low-temperature-solution-processed in situ HI modified TiO ₂ /SnO ₂ bilayer for efficient and stable planar perovskite solar cells build at ambient air conditions. <i>Electrochimica Acta</i> , 2019, 326, 134924.	5.2	19
42	Hierarchical TiO ₂ microspheres composed with nanoparticle-decorated nanorods for the enhanced photovoltaic performance in dye-sensitized solar cells. <i>RSC Advances</i> , 2019, 9, 3056-3062.	3.6	5
43	Fabrication of nitrogen-rich three-dimensional porous carbon composites with nanosheets and hollow spheres for efficient supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2082-2089.	6.0	12
44	Dimensionally Matched Zinc Phthalocyanine/BiVO ₄ Ultrathin Nanocomposites for CO ₂ Reduction as Efficient Wide-Visible-Light-Driven Photocatalysts via a Cascade Charge Transfer. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10873-10878.	13.8	168
45	Tunable optoelectronic properties of D-A- π -A type dyes by altering auxiliary acceptor position and atomic electronegativity. <i>Journal of Molecular Liquids</i> , 2019, 287, 110883.	4.9	17
46	Effect of preferential exposure of anatase TiO ₂ {0 0 1} facets on the performance of Mn-Ce/TiO ₂ catalysts for low-temperature selective catalytic reduction of NO _x with NH ₃ . <i>Chemical Engineering Journal</i> , 2019, 369, 26-34.	12.7	90
47	Temperature-directed synthesis of N-doped carbon-based nanotubes and nanosheets decorated with Fe (Fe ₃ O ₄ , Fe ₃ C) nanomaterials. <i>Nanoscale</i> , 2019, 11, 9155-9162.	5.6	37
48	Fabrication of peanut-like TiO ₂ microarchitecture with enhanced surface light trapping and high specific surface area for high-efficiency dye sensitized solar cells. <i>Journal of Power Sources</i> , 2019, 423, 236-245.	7.8	24
49	D-A- π -A based organic dyes for efficient DSSCs: A theoretical study on the role of π -spacer. <i>Computational Materials Science</i> , 2019, 161, 163-176.	3.0	65
50	Cocatalysts for Selective Photoreduction of CO ₂ into Solar Fuels. <i>Chemical Reviews</i> , 2019, 119, 3962-4179.	47.7	1,591
51	Multiply Wrapped Porphyrin Dyes with a Phenothiazine Donor: A High Efficiency of 11.7% Achieved through a Synergetic Coadsorption and Cosensitization Approach. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5046-5054.	8.0	83
52	Flexible asymmetric supercapacitor with high energy density based on optimized MnO ₂ cathode and Fe ₂ O ₃ anode. <i>Chinese Chemical Letters</i> , 2019, 30, 750-756.	9.0	39
53	Improved the long-term air stability of ZnO-based perovskite solar cells prepared under ambient conditions via surface modification of the electron transport layer using an ionic liquid. <i>Electrochimica Acta</i> , 2018, 268, 539-545.	5.2	49
54	Silver microspheres coated with a molecularly imprinted polymer as a SERS substrate for sensitive detection of bisphenol A. <i>Mikrochimica Acta</i> , 2018, 185, 242.	5.0	55

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55	Rapid and sensitive biomarker detection using molecular imprinting polymer hydrogel and surface-enhanced Raman scattering. <i>Royal Society Open Science</i> , 2018, 5, 171488.	2.4	21
56	The preparation of hierarchical rutile TiO ₂ microspheres constructed with branched nanorods for efficient dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2018, 747, 729-737.	5.5	14
57	A strategy toward air-stable and high-performance ZnO-based perovskite solar cells fabricated under ambient conditions. <i>Chemical Engineering Journal</i> , 2018, 336, 732-740.	12.7	32
58	One-step implementation of plasmon enhancement and solvent annealing effects for air-processed high-efficiency perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24036-24044.	10.3	23
59	A NH ₄ F interface passivation strategy to produce air-processed high-performance planar perovskite solar cells. <i>Electrochimica Acta</i> , 2018, 282, 653-661.	5.2	26
60	An Er-doped TiO ₂ phase junction as an electron transport layer for efficient perovskite solar cells fabricated in air. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15348-15358.	10.3	42
61	Synthesis of dense MoS ₂ nanosheet layers on hollow carbon spheres and their applications in supercapacitors and the electrochemical hydrogen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2198-2204.	6.0	29
62	Preparation of hierarchical rutile TiO ₂ microspheres as scattering centers for efficient dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2017, 255, 187-194.	5.2	24
63	An isopropanol-assisted fabrication strategy of pinhole-free perovskite films in air for efficient and stable planar perovskite solar cells. <i>Journal of Power Sources</i> , 2017, 363, 317-326.	7.8	20
64	Millisecond-pulsed photonically-annealed tin oxide electron transport layers for efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24110-24115.	10.3	41
65	High flux electroneutral loose nanofiltration membranes based on rapid deposition of polydopamine/polyethyleneimine. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14847-14857.	10.3	195
66	Preparation of anatase TiO ₂ microspheres with high exposure (001) facets as the light-scattering layer for improving performance of dye-sensitized solar cells. <i>Journal of Alloys and Compounds</i> , 2017, 694, 568-573.	5.5	21
67	Photocatalytic Reduction of CO ₂ Using TiO ₂ -Graphene Nanocomposites. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-5.	2.7	17
68	The application of hollow box TiO ₂ as scattering centers in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 333, 10-16.	7.8	26
69	High-performance all-solid state asymmetric supercapacitor based on Co ₃ O ₄ nanowires and carbon aerogel. <i>Journal of Power Sources</i> , 2015, 282, 179-186.	7.8	269
70	A Ag-molecularly imprinted polymer composite for efficient surface-enhanced Raman scattering activities under a low-energy laser. <i>Analyst</i> , 2015, 140, 3239-3243.	3.5	30
71	A Graphene-like Oxygenated Carbon Nitride Material for Improved Cycle-Life Lithium/Sulfur Batteries. <i>Nano Letters</i> , 2015, 15, 5137-5142.	9.1	358
72	Limitations of MTT and CCK-8 assay for evaluation of graphene cytotoxicity. <i>RSC Advances</i> , 2015, 5, 53240-53244.	3.6	65

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73	Multifunctional imprinted polymers based on CdTe/CdS and magnetic graphene oxide for selective recognition and separation of p-t-octylphenol. <i>Chemical Engineering Journal</i> , 2015, 271, 87-95.	12.7	45
74	High performance surface-enhanced Raman scattering from molecular imprinting polymer capsulated silver spheres. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21343-21347.	2.8	48
75	Graphene oxide-based fluorescence molecularly imprinted composite for recognition and separation of 2,4,6-trichlorophenol. <i>RSC Advances</i> , 2015, 5, 2129-2136.	3.6	21
76	Graphene oxide shell-isolated Ag nanoparticles for surface-enhanced Raman scattering. <i>Carbon</i> , 2015, 81, 767-772.	10.3	91
77	Titania nanobundle networks as dye-sensitized solar cell photoanodes. <i>Nanoscale</i> , 2014, 6, 3704-3711.	5.6	34
78	High performance surface-enhanced Raman scattering via dummy molecular imprinting onto silver microspheres. <i>Chemical Communications</i> , 2014, 50, 14331-14333.	4.1	25
79	An investigation on the photoelectrochemical properties of dye-sensitized solar cells based on graphene-TiO ₂ composite photoanodes. <i>Journal of Power Sources</i> , 2014, 262, 349-355.	7.8	96
80	A core-shell Fe ₃ O ₄ nanoparticle-CdTe quantum dot-molecularly imprinted polymer composite for recognition and separation of 4-nonylphenol. <i>Analytical Methods</i> , 2014, 6, 2855.	2.7	38
81	Metabolomics study on the cytotoxicity of graphene. <i>RSC Advances</i> , 2014, 4, 44712-44717.	3.6	12
82	Controlling Interfacial Recombination in Aqueous Dye-Sensitized Solar Cells by Octadecyltrichlorosilane Surface Treatment. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6933-6937.	13.8	55
83	Surface molecular imprinting onto silver microspheres for surface enhanced Raman scattering applications. <i>Biosensors and Bioelectronics</i> , 2013, 50, 106-110.	10.1	57
84	Co-assembly of CdTe and Fe ₃ O ₄ with molecularly imprinted polymer for recognition and separation of endocrine disrupting chemicals. <i>Applied Surface Science</i> , 2013, 284, 745-749.	6.1	19
85	The preparation and drug delivery of a graphene-carbon nanotube-Fe ₃ O ₄ nanoparticle hybrid. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2658.	5.8	96
86	Elementary Photoelectronic Processes at a Porphyrin Dye/Single-Walled TiO ₂ Nanotube Hetero-Interface in Dye-Sensitized Solar Cells: A First-Principles Study. <i>Chemistry - A European Journal</i> , 2013, 19, 10046-10056.	3.3	6
87	Theoretical Analysis of Built-in Interfacial Electric Dipole Field in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9092-9103.	3.1	10
88	Preparation and magnetic property of multiwalled carbon nanotubes decorated by Fe ₃ O ₄ nanoparticles. <i>New Carbon Materials</i> , 2012, 27, 111-116.	6.1	63
89	Synthesis and properties of core-shell magnetic molecular imprinted polymers. <i>Applied Surface Science</i> , 2012, 258, 6660-6664.	6.1	59
90	Synthesis of multifunctional fluorescent magnetic graphene oxide hybrid materials. <i>Journal of Colloid and Interface Science</i> , 2012, 388, 9-14.	9.4	16

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91	Sandwich-like Single-walled Titania Nanotube as a Novel Semiconductor Electrode for Quantum Dot-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 639-644.	19.5	12
92	Fluorescent features of CdTe nanorods grafted to graphene oxide through an amidation process. <i>Journal of Materials Chemistry</i> , 2011, 21, 11283.	6.7	27
93	Surface molecular imprinting onto fluorescein-coated magnetic nanoparticles via reversible addition fragmentation chain transfer polymerization: A facile three-in-one system for recognition and separation of endocrine disrupting chemicals. <i>Nanoscale</i> , 2011, 3, 280-287.	5.6	96
94	First-Principles Investigation on Electronic Properties of Quantum Dot-Sensitized Solar Cells Based on Anatase TiO ₂ Nanotubes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20307-20315.	3.1	36
95	Coupled fluorescein isothiocyanate on graphene oxide. <i>Materials Letters</i> , 2011, 65, 751-753.	2.6	5
96	Preparation of graphene oxide-molecularly imprinted polymer composites via atom transfer radical polymerization. <i>Journal of Materials Science</i> , 2011, 46, 2024-2029.	3.7	47
97	A theoretical study on the catalytic effect of nanoparticle confined in carbon nanotube. <i>Chemical Physics Letters</i> , 2011, 502, 96-100.	2.6	15
98	An easy and novel approach for the decoration of graphene oxide by Fe ₃ O ₄ nanoparticles. <i>Applied Surface Science</i> , 2011, 257, 6059-6062.	6.1	48
99	Synthesis of core-shell magnetic molecular imprinted polymer by the surface RAFT polymerization for the fast and selective removal of endocrine disrupting chemicals from aqueous solutions. <i>Environmental Pollution</i> , 2010, 158, 2317-2323.	7.5	167
100	Preparation of core-shell molecularly imprinted polymer via the combination of reversible addition-fragmentation chain transfer polymerization and click reaction. <i>Analytica Chimica Acta</i> , 2010, 680, 65-71.	5.4	56
101	A graphene oxide-based molecularly imprinted polymer platform for detecting endocrine disrupting chemicals. <i>Carbon</i> , 2010, 48, 3427-3433.	10.3	157
102	Development of a model for the rational design of molecular imprinted polymer: Computational approach for combined molecular dynamics/quantum mechanics calculations. <i>Analytica Chimica Acta</i> , 2009, 647, 117-124.	5.4	58
103	Selective recognition of veterinary drugs residues by artificial antibodies designed using a computational approach. <i>Biomaterials</i> , 2009, 30, 3205-3211.	11.4	70
104	Investigation of the catalytic activity for ozonation on the surface of NiO nanoparticles. <i>Chemical Physics Letters</i> , 2009, 479, 310-315.	2.6	28
105	Selective recognition and removal of chlorophenols from aqueous solution using molecularly imprinted polymer prepared by reversible addition-fragmentation chain transfer polymerization. <i>Biosensors and Bioelectronics</i> , 2009, 25, 306-312.	10.1	92
106	Selective removal of 2,4-dichlorophenol from contaminated water using non-covalent imprinted microspheres. <i>Environmental Pollution</i> , 2009, 157, 1879-1885.	7.5	76
107	Computational design and synthesis of molecular imprinted polymers with high selectivity for removal of aniline from contaminated water. <i>Analytica Chimica Acta</i> , 2008, 610, 282-288.	5.4	102
108	A Numerical Simulation and Impedance Study of the Electron Transport and Recombination in Binder-Free TiO ₂ Film for Flexible Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13744-13753.	3.1	40

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109	Degradation of Organic Pollutants in Water by Catalytic Ozonation. Chemical Research in Chinese Universities, 2007, 23, 273-275.	2.6	8
110	Development of a model for predicting trihalomethanes propagation in water distribution systems. Chemosphere, 2006, 62, 1028-1032.	8.2	18
111	Modeling of residual chlorine in water distribution system. Journal of Environmental Sciences, 2003, 15, 136-44.	6.1	6
112	Enhanced oxygen evolution performance by the partial phase transformation of cobalt/nickel carbonate hydroxide nanosheet arrays in an Fe-containing alkaline electrolyte. Inorganic Chemistry Frontiers, 0, , .	6.0	11