

Lin Wang

List of Publications by Year in descending order

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84
papers

5,302
citations

136885

32
h-index

85498

71
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85
all docs

85
docs citations

85
times ranked

4571
citing authors

#	ARTICLE	IF	CITATIONS
1	A Biomimetic Potassium Responsive Nanochannel: G-Quadruplex DNA Conformational Switching in a Synthetic Nanopore. <i>Journal of the American Chemical Society</i> , 2009, 131, 7800-7805.	6.6	316
2	Adsorptive environmental applications of MXene nanomaterials: a review. <i>RSC Advances</i> , 2018, 8, 19895-19905.	1.7	313
3	Gating of Single Synthetic Nanopores by Proton-Driven DNA Molecular Motors. <i>Journal of the American Chemical Society</i> , 2008, 130, 8345-8350.	6.6	295
4	Enhanced Photocatalytic Removal of Uranium(VI) from Aqueous Solution by Magnetic TiO ₂ /Fe ₃ O ₄ and Its Graphene Composite. <i>Environmental Science & Technology</i> , 2017, 51, 5666-5674.	4.6	292
5	Synthesis of novel nanomaterials and their application in efficient removal of radionuclides. <i>Science China Chemistry</i> , 2019, 62, 933-967.	4.2	256
6	Efficient U(VI) Reduction and Sequestration by Ti ₂ CT _x MXene. <i>Environmental Science & Technology</i> , 2018, 52, 10748-10756.	4.6	253
7	Efficient removal of uranium from aqueous solution by zero-valent iron nanoparticle and its graphene composite. <i>Journal of Hazardous Materials</i> , 2015, 290, 26-33.	6.5	231
8	Loading Actinides in Multilayered Structures for Nuclear Waste Treatment: The First Case Study of Uranium Capture with Vanadium Carbide MXene. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16396-16403.	4.0	214
9	Rational control of the interlayer space inside two-dimensional titanium carbides for highly efficient uranium removal and imprisonment. <i>Chemical Communications</i> , 2017, 53, 12084-12087.	2.2	198
10	Photocatalytic reduction of uranium(VI) by magnetic ZnFe ₂ O ₄ under visible light. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118688.	10.8	170
11	Effective removal of U(VI) and Eu(III) by carboxyl functionalized MXene nanosheets. <i>Journal of Hazardous Materials</i> , 2020, 396, 122731.	6.5	166
12	Effective Removal of Anionic Re(VII) by Surface-Modified Ti ₂ CT _x MXene Nanocomposites: Implications for Tc(VII) Sequestration. <i>Environmental Science & Technology</i> , 2019, 53, 3739-3747.	4.6	163
13	Efficient thorium(IV) removal by two-dimensional Ti ₂ CT _x MXene from aqueous solution. <i>Chemical Engineering Journal</i> , 2019, 366, 192-199.	6.6	163
14	A reliable and programmable acoustofluidic pump powered by oscillating sharp-edge structures. <i>Lab on a Chip</i> , 2014, 14, 4319-4323.	3.1	152
15	Nanolayered Ti ₃ C ₂ and SrTiO ₃ Composites for Photocatalytic Reduction and Removal of Uranium(VI). <i>ACS Applied Nano Materials</i> , 2019, 2, 2283-2294.	2.4	119
16	Adsorption of uranyl species on hydroxylated titanium carbide nanosheet: A first-principles study. <i>Journal of Hazardous Materials</i> , 2016, 308, 402-410.	6.5	115
17	Aryl Diazonium-Assisted Amidoximation of MXene for Boosting Water Stability and Uranyl Sequestration via Electrochemical Sorption. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15579-15587.	4.0	115
18	Highly efficient adsorption and immobilization of U(VI) from aqueous solution by alkalized MXene-supported nanoscale zero-valent iron. <i>Journal of Hazardous Materials</i> , 2021, 408, 124949.	6.5	95

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19	Sorption of Eu(III) on MXene-derived titanate structures: The effect of nano-confined space. <i>Chemical Engineering Journal</i> , 2019, 370, 1200-1209.	6.6	91
20	Exploring Actinide Materials Through Synchrotron Radiation Techniques. <i>Advanced Materials</i> , 2014, 26, 7807-7848.	11.1	89
21	Anion-adaptive crystalline cationic material for $^{99}\text{TcO}_4^-$ trapping. <i>Nature Communications</i> , 2019, 10, 1532.	5.8	87
22	How the geometric configuration and the surface charge distribution influence the ionic current rectification in nanopores. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 7077-7084.	1.3	65
23	Photocatalytic reduction of uranium(VI) under visible light with 2D/1D Ti ₃ C ₂ /CdS. <i>Chemical Engineering Journal</i> , 2021, 420, 129831.	6.6	64
24	Electrochemical behaviors of Dy(III) and its co-reduction with Al(III) in molten LiCl-KCl salts. <i>Electrochimica Acta</i> , 2014, 147, 87-95.	2.6	62
25	Ion current rectification inversion in conic nanopores: Nonequilibrium ion transport biased by ion selectivity and spatial asymmetry. <i>Journal of Chemical Physics</i> , 2013, 138, 044706.	1.2	58
26	Low-voltage electroosmotic pumps fabricated from track-etched polymer membranes. <i>Lab on A Chip</i> , 2012, 12, 1710.	3.1	53
27	Enhanced photocatalytic reduction of aqueous Re(VII) in ambient air by amorphous TiO ₂ /g-C ₃ N ₄ photocatalysts: Implications for Tc(VII) elimination. <i>Chemical Engineering Journal</i> , 2020, 401, 125977.	6.6	48
28	Supramolecular inclusion-based molecular integral rigidity: a feasible strategy for controlling the structural connectivity of uranyl polyrotaxane networks. <i>Chemical Communications</i> , 2015, 51, 11990-11993.	2.2	44
29	Layered structure-based materials: challenges and opportunities for radionuclide sequestration. <i>Environmental Science: Nano</i> , 2020, 7, 724-752.	2.2	44
30	Molecular Springs-like Triple-Helix Coordination Polymers as Dual-Stress and Thermally Responsive Crystalline Metal-Organic Materials. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16061-16068.	7.2	39
31	A facile additive-free method for tunable fabrication of UO ₂ and U ₃ O ₈ nanoparticles in aqueous solution. <i>CrystEngComm</i> , 2014, 16, 2645.	1.3	38
32	Halogen Bonded Three-Dimensional Uranyl-Organic Compounds with Unprecedented Halogen-Halogen Interactions and Structure Diversity upon Variation of Halogen Substitution. <i>Crystal Growth and Design</i> , 2015, 15, 1395-1406.	1.4	36
33	In-situ anodic precipitation process for highly efficient separation of aluminum alloys. <i>Nature Communications</i> , 2021, 12, 5777.	5.8	36
34	Surface Modification of Single Track-Etched Nanopores with Surfactant CTAB. <i>Langmuir</i> , 2009, 25, 8870-8874.	1.6	35
35	Efficient Photocatalytic Reduction of Aqueous Perrhenate and Pertechnetate. <i>Environmental Science & Technology</i> , 2019, 53, 10917-10925.	4.6	32
36	Size-dependent toxicity of ThO ₂ nanoparticles to green algae <i>Chlorella pyrenoidosa</i> . <i>Aquatic Toxicology</i> , 2019, 209, 113-120.	1.9	32

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37	Controllable etching of heavy ion tracks with organic solvent addition in etchant. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3095-3099.	0.6	31
38	Size-tunable synthesis of monodisperse thorium dioxide nanoparticles and their performance on the adsorption of dye molecules. CrystEngComm, 2014, 16, 10469-10475.	1.3	31
39	Thermodynamic and electrochemical properties of holmium and HoxAl _y intermetallic compounds in the LiCl-KCl eutectic. Electrochimica Acta, 2015, 174, 15-25.	2.6	29
40	Tetranuclear Uranyl Polyrotaxanes: Preferred Selectivity toward Uranyl Tetramer for Stabilizing a Flexible Polyrotaxane Chain Exhibiting Weakened Supramolecular Inclusion. Chemistry - A European Journal, 2015, 21, 10226-10235.	1.7	27
41	Rapid Determination of Uranium in Water Samples by Adsorptive Cathodic Stripping Voltammetry Using a Tin-Bismuth Alloy Electrode. Electrochimica Acta, 2015, 174, 925-932.	2.6	27
42	A method to tune the ionic current rectification of track-etched nanopores by using surfactant. Physical Chemistry Chemical Physics, 2011, 13, 576-581.	1.3	25
43	Copper/Zinc-Directed Heterometallic Uranyl-Organic Polycatenating Frameworks: Synthesis, Characterization, and Anion-Dependent Structural Regulation. Inorganic Chemistry, 2016, 55, 10125-10134.	1.9	23
44	Fabrication and photosensitivity of CdS photoresistor on silica nanopillars substrate. Materials Science in Semiconductor Processing, 2016, 56, 217-221.	1.9	23
45	Application of Binary Ga-Al Alloy Cathode in U Separation from Ce: The Possibility in Pyroprocessing of Spent Nuclear Fuel. Electrochimica Acta, 2020, 353, 136449.	2.6	23
46	First principles modeling of zirconium solution in bulk UO ₂ . Journal of Applied Physics, 2013, 113, .	1.1	22
47	Template-Free Synthesis and Mechanistic Study of Porous Three-Dimensional Hierarchical Uranium-Containing and Uranium Oxide Microspheres. Chemistry - A European Journal, 2014, 20, 12655-12662.	1.7	20
48	New Insight of Coordination and Extraction of Uranium(VI) with N-Donating Ligands in Room Temperature Ionic Liquids: Diethyl-diethyl-ditolyldipicolinamide as a Case Study. Inorganic Chemistry, 2015, 54, 1992-1999.	1.9	20
49	Easily prepared and stable functionalized magnetic ordered mesoporous silica for efficient uranium extraction. Science China Chemistry, 2016, 59, 629-636.	4.2	20
50	Synthesis of ThO ₂ nanostructures through a hydrothermal approach: influence of hexamethylenetetramine (HMTA) and sodium dodecyl sulfate (SDS). RSC Advances, 2014, 4, 52209-52214.	1.7	19
51	Confirmation and elimination of cyclic electrolysis of uranium ions in molten salts. Electrochemistry Communications, 2019, 103, 55-60.	2.3	19
52	Two Three-Dimensional Actinide-Silver Heterometallic Coordination Polymers Based on 2,2'-Bipyridine-3,3'-dicarboxylic Acid with Helical Chains Containing Dimeric or Trimeric Motifs. European Journal of Inorganic Chemistry, 2017, 2017, 1472-1477.	1.0	18
53	First three-dimensional actinide polyrotaxane framework mediated by windmill-like six-connected oligomeric uranyl: dual roles of the pseudorotaxane precursor. Dalton Transactions, 2016, 45, 13304-13307.	1.6	17
54	Condition dependence of Zr electrochemical reactions and morphological evolution of Zr deposits in molten salt. Science China Chemistry, 2017, 60, 264-274.	4.2	17

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55	Development of picosecond time-resolved X-ray absorption spectroscopy by high-repetition-rate laser pump/X-ray probe at Beijing Synchrotron Radiation Facility. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 667-673.	1.0	17
56	Two novel uranyl complexes of a semi-rigid aromatic tetracarboxylic acid supported by an organic base as an auxiliary ligand or a templating agent: an experimental and theoretical exploration. <i>CrystEngComm</i> , 2015, 17, 3031-3040.	1.3	16
57	High energy and high brightness laser Compton backscattering gamma-ray source at IHEP. <i>Matter and Radiation at Extremes</i> , 2018, 3, 219-226.	1.5	16
58	Radiation-induced self-assembly of $\text{Ti}_3\text{C}_2\text{T}_x$ with improved electrochemical performance for supercapacitor. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901839.	1.9	16
59	Competitive coordination of chloride and fluoride anions towards trivalent lanthanide cations (La^{3+} and Nd^{3+}) in molten salts. <i>Chemistry - A European Journal</i> , 2021, 27, 11721-11729.	1.7	16
60	The influence of F^- ion on the electrochemical behavior and coordination properties of uranium in LiCl-KCl molten salt. <i>Electrochimica Acta</i> , 2022, 404, 139573.	2.6	16
61	Fabrication of nanofluidic diodes with polymer nanopores modified by atomic layer deposition. <i>Biomicrofluidics</i> , 2014, 8, 052111.	1.2	15
62	An unprecedented two-fold nested superpolyrotaxane: sulfate-directed hierarchical polythreading assembly of uranyl polyrotaxane moieties. <i>Chemistry - A European Journal</i> , 2016, 22, 11329-11338.	1.7	15
63	Preparation of ^{235}U -uranium-molybdenum alloys by electrochemical reduction of solid oxides in LiCl molten salt. <i>Journal of the Electrochemical Society</i> , 2019, 166, D276-D282.	1.3	15
64	Growth of uranyl hydroxide nanowires and nanotubes by the electrodeposition method and their transformation to one-dimensional U_3O_8 nanostructures. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 1158-1164.	1.0	14
65	Uranium chemical species in LiCl-KCl eutectic under different conditions for the dissolution of U_3O_8 . <i>Journal of Nuclear Materials</i> , 2020, 542, 152475.	1.3	14
66	Electrochemical extraction kinetics of Nd on reactive electrodes. <i>Separation and Purification Technology</i> , 2022, 281, 119853.	3.9	14
67	Interactions between U(VI) and bovine serum albumin. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 298, 903-908.	0.7	13
68	Electrodeposition mechanism of La^{3+} on Al, Ga and Al-Ga alloy cathodes in LiCl-KCl eutectic salt. <i>Journal of the Electrochemical Society</i> , 2021, 168, 062511.	1.3	13
69	Non-linear streaming conductance in a single nanopore by addition of surfactants. <i>Applied Physics Letters</i> , 2014, 104, 033108.	1.5	11
70	Incorporation of magnetism into the dihydroimidazole functionalized mesoporous silica for convenient U(VI) capture. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 308, 447-458.	0.7	11
71	Thermodynamic properties of praseodymium on the liquid cadmium electrode and evaluation of anodic dissolution behavior in LiCl-KCl eutectic. <i>Journal of Nuclear Materials</i> , 2019, 523, 16-25.	1.3	11
72	Hydrolytically stable foamed HKUST-1@CMC composites realize high-efficient separation of U(VI). <i>IScience</i> , 2021, 24, 102982.	1.9	9

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73	Chemical Species Transformation during the Dissolution Process of U_3O_8 and UO_3 in the $LiCl-KCl-AlCl_3$ Molten Salt. <i>Inorganic Chemistry</i> , 2022, 61, 6519-6529.	1.9	9
74	Low-voltage electroosmotic pumping using polyethylene terephthalate track-etched membrane. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 286, 223-228.	0.6	8
75	Three-dimensional polyaniline architecture enabled by hydroxyl-terminated $Ti_3C_2T_x$ MXene for high-performance supercapacitor electrodes. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7883-7891.	3.2	8
76	Separation of uranium from lanthanides (La, Sm) with sacrificial Li anode in LiCl-KCl eutectic salt. <i>Separation and Purification Technology</i> , 2022, 292, 121025.	3.9	8
77	Nanofluidic Pulser Based on Polymer Conical Nanopores. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22736-22741.	1.5	7
78	Synthesis of ordered mesoporous uranium dioxide by a nanocasting route. <i>Radiochimica Acta</i> , 2016, 104, 549-553.	0.5	6
79	Thorium(IV) adsorption onto multilayered $Ti_3C_2T_x$ MXene: a batch, X-ray diffraction and EXAFS combined study. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1709-1719.	1.0	4
80	Progress on the construction of the 100 MeV/100 kW electron linac for the NSC KIPT neutron source. <i>Chinese Physics C</i> , 2014, 38, 047005.	1.5	3
81	Synthesis of ordered mesoporous U_3O_8 by a nanocasting route. <i>Radiochimica Acta</i> , 2014, 102, 813-816.	0.5	3
82	Uranium-containing heterometallic coordination polymers based on 4-(4- TM -carboxyphenyl)-1,2,4-triazole ligand: structure regulation through subtle changes of the secondary metal centers. <i>Journal of Coordination Chemistry</i> , 2018, 71, 3021-3033.	0.8	3
83	Ionic current conduction at low voltage of track-etched double conical nanopores modified by surfactant CTAB. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	1
84	Two-dimensional transition metal carbide/nitride (MXene)-based nanomaterials for removal of toxic/radioactive metal ions from wastewater. , 2022, , 161-194.		0