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 g-index
85 all docs	85 docs citations	85 times ranked	4571 citing authors

#	Article	IF	Citations
1	Electrochemical extraction kinetics of Nd on reactive electrodes. Separation and Purification Technology, 2022, 281, 119853.	3.9	14
2	Two-dimensional transition metal carbide/nitride (MXene)-based nanomaterials for removal of toxic/radioactive metal ions from wastewater. , 2022, , 161-194.		0
3	The influence of Fâ˜ ion on the electrochemical behavior and coordination properties of uranium in LiCl-KCl molten salt. Electrochimica Acta, 2022, 404, 139573.	2.6	16
4	Separation of uranium from lanthanides (La, Sm) with sacrificial Li anode in LiCl-KCl eutectic salt. Separation and Purification Technology, 2022, 292, 121025.	3.9	8
5	Chemical Species Transformation during the Dissolution Process of U₃O₈ and UO₃ in the LiClâ€“KClâ€“AlCl₃ Molten Salt. Inorganic Chemistry, 2022, 61, 6519-6529.	1.9	9
6	Three-dimensional polyaniline architecture enabled by hydroxyl-terminated Ti₃C₂T_x MXene for high-performance supercapacitor electrodes. Materials Chemistry Frontiers, 2021, 5, 7883-7891.	3.2	8
7	Highly efficient adsorption and immobilization of U(VI) from aqueous solution by alkalized MXene-supported nanoscale zero-valent iron. Journal of Hazardous Materials, 2021, 408, 124949.	6.5	95
8	Electrodeposition Mechanism of La³⁺ on Al, Ga and Al-Ga Alloy Cathodes in LiCl-KCl Eutectic Salt. Journal of the Electrochemical Society, 2021, 168, 062511.	1.3	13
9	Competitive Coordination of Chloride and Fluoride Anions Towards Trivalent Lanthanide Cations (La³⁺ and Nd³⁺) in Molten Salts. Chemistry - A European Journal, 2021, 27, 11721-11729.	1.7	16
10	Hydrolytically stable foamed HKUST-1@CMC composites realize high-efficient separation of U(VI). IScience, 2021, 24, 102982.	1.9	9
11	Photocatalytic reduction of uranium(VI) under visible light with 2D/1D Ti3C2/CdS. Chemical Engineering Journal, 2021, 420, 129831.	6.6	64
12	In-situ anodic precipitation process for highly efficient separation of aluminum alloys. Nature Communications, 2021, 12, 5777.	5.8	36
13	Thorium(IV) adsorption onto multilayered Ti₃C₂T_x MXene: a batch, X-ray diffraction and EXAFS combined study. Journal of Synchrotron Radiation, 2021, 28, 1709-1719.	1.0	4
14	Uranium chemical species in LiCl-KCl eutectic under different conditions for the dissolution of U3O8. Journal of Nuclear Materials, 2020, 542, 152475.	1.3	14
15	Ionic current conduction at low voltage of track-etched double conical nanopores modified by surfactant CTAB. Journal of Polymer Research, 2020, 27, 1.	1.2	1
16	Application of Binary Gaâ€“Al Alloy Cathode in U Separation from Ce: The Possibility in Pyroprocessing of Spent Nuclear Fuel. Electrochimica Acta, 2020, 353, 136449.	2.6	23
17	Enhanced photocatalytic reduction of aqueous Re(VII) in ambient air by amorphous TiO2/g-C3N4 photocatalysts: Implications for Tc(VII) elimination. Chemical Engineering Journal, 2020, 401, 125977.	6.6	48
18	Aryl Diazonium-Assisted Amidoximation of MXene for Boosting Water Stability and Uranyl Sequestration via Electrochemical Sorption. ACS Applied Materials & Interfaces, 2020, 12, 15579-15587.	4.0	115

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19	Layered structure-based materials: challenges and opportunities for radionuclide sequestration. Environmental Science: Nano, 2020, 7, 724-752.	2.2	44
20	Radiationâ€Induced Selfâ€Assembly of Ti₃C₂T_x with Improved Electrochemical Performance for Supercapacitor. Advanced Materials Interfaces, 2020, 7, 1901839.	1.9	16
21	Photocatalytic reduction of uranium(VI) by magnetic ZnFe2O4 under visible light. Applied Catalysis B: Environmental, 2020, 267, 118688.	10.8	170
22	Effective removal of U(VI) and Eu(III) by carboxyl functionalized MXene nanosheets. Journal of Hazardous Materials, 2020, 396, 122731.	6.5	166
23	Molecular Springâ€like Tripleâ€Helix Coordination Polymers as Dualâ€Stress and Thermally Responsive Crystalline Metalâ€“Organic Materials. Angewandte Chemie - International Edition, 2020, 59, 16061-16068.	7.2	39
24	Efficient Photocatalytic Reduction of Aqueous Perrhenate and Pertechnetate. Environmental Science & Technology, 2019, 53, 10917-10925.	4.6	32
25	Size-dependent toxicity of ThO2 nanoparticles to green algae Chlorella pyrenoidosa. Aquatic Toxicology, 2019, 209, 113-120.	1.9	32
26	Thermodynamic properties of praseodymium on the liquid cadmium electrode and evaluation of anodic dissolution behavior in LiCl-KCl eutectic. Journal of Nuclear Materials, 2019, 523, 16-25.	1.3	11
27	Synthesis of novel nanomaterials and their application in efficient removal of radionuclides. Science China Chemistry, 2019, 62, 933-967.	4.2	256
28	Confirmation and elimination of cyclic electrolysis of uranium ions in molten salts. Electrochemistry Communications, 2019, 103, 55-60.	2.3	19
29	Preparation of Î³-Uranium-Molybdenum Alloys by Electrochemical Reduction of Solid Oxides in LiCl Molten Salt. Journal of the Electrochemical Society, 2019, 166, D276-D282.	1.3	15
30	Effective Removal of Anionic Re(VII) by Surface-Modified Ti₂CT_x MXene Nanocomposites: Implications for Tc(VII) Sequestration. Environmental Science & Technology, 2019, 53, 3739-3747.	4.6	163
31	Nanolayered Ti₃C₂ and SrTiO₃ Composites for Photocatalytic Reduction and Removal of Uranium(VI). ACS Applied Nano Materials, 2019, 2, 2283-2294.	2.4	119
32	Sorption of Eu(III) on MXene-derived titanate structures: The effect of nano-confined space. Chemical Engineering Journal, 2019, 370, 1200-1209.	6.6	91
33	Anion-adaptive crystalline cationic material for 99TcO4â^' trapping. Nature Communications, 2019, 10, 1532.	5.8	87
34	Efficient thorium(IV) removal by two-dimensional Ti2CTx MXene from aqueous solution. Chemical Engineering Journal, 2019, 366, 192-199.	6.6	163
35	Adsorptive environmental applications of MXene nanomaterials: a review. RSC Advances, 2018, 8, 19895-19905.	1.7	313
36	Efficient U(VI) Reduction and Sequestration by Ti₂CT_x MXene. Environmental Science & Technology, 2018, 52, 10748-10756.	4.6	253

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37	Uranyl-containing heterometallic coordination polymers based on 4-(4â€™-carboxyphenyl)-1,2,4-triazole ligand: structure regulation through subtle changes of the secondary metal centers. Journal of Coordination Chemistry, 2018, 71, 3021-3033.	0.8	3
38	High energy and high brightness laser compton backscattering gamma-ray source at IHEP. Matter and Radiation at Extremes, 2018, 3, 219-226.	1.5	16
39	Two Three-Dimensional Actinide-Silver Heterometallic Coordination Polymers Based on 2,2â€²-Bipyridine-3,3â€²-dicarboxylic Acid with Helical Chains Containing Dimeric or Trimeric Motifs. European Journal of Inorganic Chemistry, 2017, 2017, 1472-1477.	1.0	18
40	Enhanced Photocatalytic Removal of Uranium(VI) from Aqueous Solution by Magnetic TiO₂/Fe₃O₄ and Its Graphene Composite. Environmental Science & Technology, 2017, 51, 5666-5674.	4.6	292
41	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
42	Rational control of the interlayer space inside two-dimensional titanium carbides for highly efficient uranium removal and imprisonment. Chemical Communications, 2017, 53, 12084-12087.	2.2	198
43	Development of picosecond time-resolved X-ray absorption spectroscopy by high-repetition-rate laser pump/X-ray probe at Beijing Synchrotron Radiation Facility. Journal of Synchrotron Radiation, 2017, 24, 667-673.	1.0	17
44	Easily prepared and stable functionalized magnetic ordered mesoporous silica for efficient uranium extraction. Science China Chemistry, 2016, 59, 629-636.	4.2	20
45	Copper/Zinc-Directed Heterometallic Uranyl-Organic Polycatenating Frameworks: Synthesis, Characterization, and Anion-Dependent Structural Regulation. Inorganic Chemistry, 2016, 55, 10125-10134.	1.9	23
46	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
47	Fabrication and photosensitivity of CdS photoresistor on silica nanopillars substrate. Materials Science in Semiconductor Processing, 2016, 56, 217-221.	1.9	23
48	An Unprecedented Twoâ€Fold Nested Superâ€Polyrotaxane: Sulfateâ€Directed Hierarchical Polythreading Assembly of Uranyl Polyrotaxane Moieties. Chemistry - A European Journal, 2016, 22, 11329-11338.	1.7	15
49	Synthesis of ordered mesoporous uranium dioxide by a nanocasting route. Radiochimica Acta, 2016, 104, 549-553.	0.5	6
50	Loading Actinides in Multilayered Structures for Nuclear Waste Treatment: The First Case Study of Uranium Capture with Vanadium Carbide MXene. ACS Applied Materials & Interfaces, 2016, 8, 16396-16403.	4.0	214
51	Adsorption of uranyl species on hydroxylated titanium carbide nanosheet: A first-principles study. Journal of Hazardous Materials, 2016, 308, 402-410.	6.5	115
52	Incorporation of magnetism into the dihydroimidazole functionalized mesoporous silica for convenient U(VI) capture. Journal of Radioanalytical and Nuclear Chemistry, 2016, 308, 447-458.	0.7	11
53	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
54	Thermodynamic and electrochemical properties of holmium and HoxAly intermetallic compounds in the LiCl-KCl eutectic. Electrochimica Acta, 2015, 174, 15-25.	2.6	29

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55	Efficient removal of uranium from aqueous solution by zero-valent iron nanoparticle and its graphene composite. Journal of Hazardous Materials, 2015, 290, 26-33.	6.5	231
56	Halogen Bonded Three-Dimensional Uranylâ€“Organic Compounds with Unprecedented Halogenâ€“Halogen Interactions and Structure Diversity upon Variation of Halogen Substitution. Crystal Growth and Design, 2015, 15, 1395-1406.	1.4	36
57	New Insight of Coordination and Extraction of Uranium(VI) with N-Donating Ligands in Room Temperature Ionic Liquids: N,Nâ€²-Diethyl-N,Nâ€²-ditolyldipicolinamide as a Case Study. Inorganic Chemistry, 2015, 54, 1992-1999.	1.9	20
58	Supramolecular inclusion-based molecular integral rigidity: a feasible strategy for controlling the structural connectivity of uranyl polyrotaxane networks. Chemical Communications, 2015, 51, 11990-11993.	2.2	44
59	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. CrystEngComm, 2015, 17, 3031-3040.	1.3	16
60	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
61	Progress on the construction of the 100 MeV/100 kW electron linac for the NSC KIPT neutron source. Chinese Physics C, 2014, 38, 047005.	1.5	3
62	Templateâ€Free Synthesis and Mechanistic Study of Porous Threeâ€Dimensional Hierarchical Uraniumâ€Containing and Uranium Oxide Microspheres. Chemistry - A European Journal, 2014, 20, 12655-12662.	1.7	20
63	Growth of Uranyl Hydroxide Nanowires and Nanotubes by the Electrodeposition Method and Their Transformation to One-Dimensional U3O8Nanostructures. European Journal of Inorganic Chemistry, 2014, 2014, 1158-1164.	1.0	14
64	Exploring Actinide Materials Through Synchrotron Radiation Techniques. Advanced Materials, 2014, 26, 7807-7848.	11.1	89
65	Fabrication of nanofluidic diodes with polymer nanopores modified by atomic layer deposition. Biomicrofluidics, 2014, 8, 052111.	1.2	15
66	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
67	Synthesis of ordered mesoporous U₃O₈ by a nanocasting route. Radiochimica Acta, 2014, 102, 813-816.	0.5	3
68	A facile additive-free method for tunable fabrication of UO2 and U3O8 nanoparticles in aqueous solution. CrystEngComm, 2014, 16, 2645.	1.3	38
69	A reliable and programmable acoustofluidic pump powered by oscillating sharp-edge structures. Lab on A Chip, 2014, 14, 4319-4323.	3.1	152
70	Synthesis of ThO₂nanostructures through a hydrothermal approach: influence of hexamethylenetetramine (HMTA) and sodium dodecyl sulfate (SDS). RSC Advances, 2014, 4, 52209-52214.	1.7	19
71	Electrochemical behaviors of Dy(III) and its co-reduction with Al(III) in molten LiCl-KCl salts. Electrochimica Acta, 2014, 147, 87-95.	2.6	62
72	Non-linear streaming conductance in a single nanopore by addition of surfactants. Applied Physics Letters, 2014, 104, 033108.	1.5	11

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73	First principles modeling of zirconium solution in bulk UO2. Journal of Applied Physics, 2013, 113, .	1.1	22
74	Interactions between U(VI) and bovine serum albumin. Journal of Radioanalytical and Nuclear Chemistry, 2013, 298, 903-908.	0.7	13
75	Ion current rectification inversion in conic nanopores: Nonequilibrium ion transport biased by ion selectivity and spatial asymmetry. Journal of Chemical Physics, 2013, 138, 044706.	1.2	58
76	Low-voltage electroosmotic pumping using polyethylene terephthalate track-etched membrane. Nuclear Instruments & Methods in Physics Research B, 2012, 286, 223-228.	0.6	8
77	Low-voltage electroosmotic pumps fabricated from track-etched polymer membranes. Lab on A Chip, 2012, 12, 1710.	3.1	53
78	Nanofluidic Pulser Based on Polymer Conical Nanopores. Journal of Physical Chemistry C, 2011, 115, 22736-22741.	1.5	7
79	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
80	A Biomimetic Potassium Responsive Nanochannel: G-Quadruplex DNA Conformational Switching in a Synthetic Nanopore. Journal of the American Chemical Society, 2009, 131, 7800-7805.	6.6	316
81	Surface Modification of Single Track-Etched Nanopores with Surfactant CTAB. Langmuir, 2009, 25, 8870-8874.	1.6	35
82	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
83	Gating of Single Synthetic Nanopores by Proton-Driven DNA Molecular Motors. Journal of the American Chemical Society, 2008, 130, 8345-8350.	6.6	295
84	How the geometric configuration and the surface charge distribution influence the ionic current rectification in nanopores. Journal Physics D: Applied Physics, 2007, 40, 7077-7084.	1.3	65