Ning Wang

List of Publications by Citations

118 papers	4,307 citations	37 h-index	64 g-index
125 ext. papers	5,986 ext. citations	10.2 avg, IF	6.09 L-index

#	Paper	IF	Citations
118	Ultralight, highly compressible and fire-retardant graphene aerogel with self-adjustable electromagnetic wave absorption. *Carbon*, **2018**, 139, 1126-1135	10.4	245
117	Highly efficient uranium adsorption by salicylaldoxime/polydopamine graphene oxide nanocomposites. *Journal of Materials Chemistry A*, **2018**, 6, 24676-24685	13	220
116	All-Carbon-Electrode-Based Endurable Flexible Perovskite Solar Cells. *Advanced Functional Materials*, **2018**, 28, 1706777	15.6	203
115	An overview of lead-free piezoelectric materials and devices. *Journal of Materials Chemistry C*, **2018**, 6, 12446-12467	7.1	162
114	Superhydrophobic/Superoleophilic Polycarbonate/Carbon Nanotubes Porous Monolith for Selective Oil Adsorption from Water. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 13747-13755	8.3	158
113	Triple layered core□hell ZVI@carbon@polyaniline composite enhanced electron utilization in Cr(VI) reduction. *Journal of Materials Chemistry A*, **2018**, 6, 11119-11128	13	146
112	Graphene-based Recyclable Photo-Absorbers for High-Efficiency Seawater Desalination. *ACS Applied Materials & Interfaces*, **2016**, 8, 9194-9	9.5	141
111	Significantly Enhanced Uranium Extraction from Seawater with Mass Produced Fully Amidoximated Nanofiber Adsorbent. *Advanced Energy Materials*, **2018**, 8, 1802607	21.8	136
110	An overview of metamaterials and their achievements in wireless power transfer. *Journal of Materials Chemistry C*, **2018**, 6, 2925-2943	7.1	135
109	Crystal Structure Modification Enhanced FeNb11O29 Anodes for Lithium-Ion Batteries. *ChemElectroChem*, **2017**, 4, 3171-3180	4.3	130
108	Ultralight, scalable, and high-temperature-resilient ceramic nanofiber sponges. *Science Advances*, **2017**, 3, e1603170	14.3	123
107	Rational Design of Porous Nanofiber Adsorbent by Blow-Spinning with Ultrahigh Uranium Recovery Capacity from Seawater. *Advanced Functional Materials*, **2019**, 29, 1805380	15.6	112
106	Ultrafast and Highly Selective Uranium Extraction from Seawater by Hydrogel-like Spidroin-based Protein Fiber. *Angewandte Chemie - International Edition*, **2019**, 58, 11785-11790	16.4	111
105	Carbon Nanotube Based Inverted Flexible Perovskite Solar Cells with All-Inorganic Charge Contacts. *Advanced Functional Materials*, **2017**, 27, 1703068	15.6	108
104	A Dual-Surface Amidoximated Halloysite Nanotube for High-Efficiency Economical Uranium Extraction from Seawater. *Angewandte Chemie - International Edition*, **2019**, 58, 14979-14985	16.4	84
103	Hematite electron-transporting layers for environmentally stable planar perovskite solar cells with enhanced energy conversion and lower hysteresis. *Journal of Materials Chemistry A*, **2017**, 5, 1434-1441	13	77
102	Sunlight Polymerization of Poly(amidoxime) Hydrogel Membrane for Enhanced Uranium Extraction from Seawater. *Advanced Science*, **2019**, 6, 1900085	13.6	76

101	Efficient Bifacial Passivation with Crosslinked Thioctic Acid for High-Performance Methylammonium Lead Iodide Perovskite Solar Cells. *Advanced Materials*, **2020**, 32, e1905661	24	72
100	A Marine-Inspired Hybrid Sponge for Highly Efficient Uranium Extraction from Seawater. *Advanced Functional Materials*, **2019**, 29, 1901009	15.6	71
99	Discrete Iron(III) Oxide Nanoislands for Efficient and Photostable Perovskite Solar Cells. *Advanced Functional Materials*, **2017**, 27, 1702090	15.6	71
98	Suppressing Charge Recombination and Ultraviolet Light Degradation of Perovskite Solar Cells Using Silicon Oxide Passivation. *ChemElectroChem*, **2019**, 6, 3167-3174	4.3	68
97	An Ion-Crosslinked Supramolecular Hydrogel for Ultrahigh and Fast Uranium Recovery from Seawater. *Advanced Materials*, **2020**, 32, e1906615	24	68
96	Synergistic Hematite-Fullerene Electron-Extracting Layers for Improved Efficiency and Stability in Perovskite Solar Cells. *ChemElectroChem*, **2018**, 5, 726-731	4.3	66
95	Continuously fabricated transparent conductive polycarbonate/carbon nanotube nanocomposite films for switchable thermochromic applications. *Journal of Materials Chemistry C*, **2018**, 6, 8360-8371	7.1	65
94	A Universally Applicable Strategy for Construction of Anti-Biofouling Adsorbents for Enhanced Uranium Recovery from Seawater. *Advanced Science*, **2019**, 6, 1900002	13.6	63
93	Fabrication of superhydrophobic green surfaces with good self-cleaning, chemical stability and anti-corrosion properties. *Journal of Materials Science*, **2019**, 54, 13006-13016	4.3	57
92	Photoinduced Multiple Effects to Enhance Uranium Extraction from Natural Seawater by Black Phosphorus Nanosheets. *Angewandte Chemie - International Edition*, **2020**, 59, 1220-1227	16.4	56
91	Metal complex hybrid composites based on fullerene-bearing porous polycarbazole for H2, CO2 and CH4 uptake and heterogeneous hydrogenation catalysis. *Polymer*, **2019**, 169, 255-262	3.9	55
90	A Bio-inspired Nano-pocket Spatial Structure for Targeting Uranyl Capture. *Angewandte Chemie - International Edition*, **2020**, 59, 4262-4268	16.4	55
89	High-Temperature Particulate Matter Filtration with Resilient Yttria-Stabilized ZrO Nanofiber Sponge. *Small*, **2018**, 14, e1800258	11	53
88	Robust flexible poly(amidoxime) porous network membranes for highly efficient uranium extraction from seawater. *Nano Energy*, **2020**, 71, 104629	17.1	51
87	Ni-doped □Fe 2 O 3 as electron transporting material for planar heterojunction perovskite solar cells with improved efficiency, reduced hysteresis and ultraviolet stability. *Nano Energy*, **2017**, 38, 193-200	17.1	50
86	Boosting Multiple Interfaces by Co-Doped Graphene Quantum Dots for High Efficiency and Durability Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 13941-13949	9.5	44
85	Bio-inspired antibacterial cellulose paper-poly(amidoxime) composite hydrogel for highly efficient uranium(vi) capture from seawater. *Chemical Communications*, **2020**, 56, 3935-3938	5.8	43
84	DNA nano-pocket for ultra-selective uranyl extraction from seawater. *Nature Communications*, **2020** , 11, 5708	17.4	42

83	Ultrafast Recovery of Uranium from Seawater by Strain UUS-1 with Innate Anti-Biofouling Activity. *Advanced Science*, **2019**, 6, 1900961	13.6	39
82	Photoinduced Enhancement of Uranium Extraction from Seawater by MOF/Black Phosphorus Quantum Dots Heterojunction Anchored on Cellulose Nanofiber Aerogel. *Advanced Functional Materials*, **2021**, 31, 2100106	15.6	39
81	Mechanical Stability of PDMS-Based Micro/Nanotextured Flexible Superhydrophobic Surfaces under External Loading. *ACS Applied Materials & Interfaces*, **2019**, 11, 48583-48593	9.5	35
80	Synergistic carbon nanotube aerogel Pt nanocomposites toward enhanced energy conversion in dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 3238-3244	13	31
79	Optimizing nanocarbon shell in zero-valent iron nanoparticles for improved electron utilization in Cr(VI) reduction. *Chemosphere*, **2020**, 242, 125235	8.4	31
78	Supramolecularly Poly(amidoxime)-Loaded Macroporous Resin for Fast Uranium Recovery from Seawater and Uranium-Containing Wastewater. *ACS Applied Materials & Interfaces*, **2021**, 13, 3246-3258	9.5	31
77	A simple and universal strategy to construct robust and anti-biofouling amidoxime aerogels for enhanced uranium extraction from seawater. *Chemical Engineering Journal*, **2020**, 397, 125337	14.7	30
76	Facile one-step fabrication of CdS0.12Se0.88 quantum dots with a ZnSe/ZnS-passivation layer for highly efficient quantum dot sensitized solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 9866-9873	13	30
75	A trifluoromethyl-grafted ultra-stable fluorescent covalent organic framework for adsorption and detection of pesticides. *Journal of Materials Chemistry A*, **2020**, 8, 25156-25164	13	29
74	Eco-Friendly and Safe Method of Fabricating Superhydrophobic Surfaces on Stainless Steel Substrates. *Journal of Physical Chemistry C*, **2019**, 123, 25738-25746	3.8	27
73	Chemical Fabrication Strategies for Achieving Bioinspired Superhydrophobic Surfaces with Micro and Nanostructures: A Review. *Advanced Engineering Materials*, **2021**, 23, 2001083	3.5	27
72	Facile fabrication of amphiphobic surfaces on copper substrates with a mixed modified solution.. *RSC Advances*, **2019**, 9, 17366-17372	3.7	24
71	Self-sterilizing diblock polycation-enhanced polyamidoxime shape-stable blow-spun nanofibers for high-performance uranium capture from seawater. *Chemical Engineering Journal*, **2020**, 390, 124648	14.7	24
70	Goethite Quantum Dots as Multifunctional Additives for Highly Efficient and Stable Perovskite Solar Cells. *Small*, **2019**, 15, e1904372	11	24
69	Single-atom Pt-I sites on all-inorganic CsSnI perovskite for efficient photocatalytic hydrogen production. *Nature Communications*, **2021**, 12, 4412	17.4	24
68	Selective extraction of uranium from seawater with biofouling-resistant polymeric peptide. *Nature Sustainability*, **2021**, 4, 708-714	22.1	23
67	Spidroin-Inspired, High-Strength, Loofah-Shaped Protein Fiber for Capturing Uranium from Seawater. *Angewandte Chemie - International Edition*, **2020**, 59, 15997-16001	16.4	21
66	A Dual-Surface Amidoximated Halloysite Nanotube for High-Efficiency Economical Uranium Extraction from Seawater. *Angewandte Chemie*, **2019**, 131, 15121-15127	3.6	21

65	Efficient and Selective Methane Borylation Through Pore Size Tuning of Hybrid Porous Organic-Polymer-Based Iridium Catalysts. *Angewandte Chemie - International Edition*, **2019**, 58, 10671-10676	16.4	20
64	Photothermal enhancement of uranium capture from seawater by monolithic MOF-bonded carbon sponge. *Chemical Engineering Journal*, **2021**, 412, 128700	14.7	19
63	Ultrafast and Highly Selective Uranium Extraction from Seawater by Hydrogel-like Spidroin-based Protein Fiber. *Angewandte Chemie*, **2019**, 131, 11911-11916	3.6	18
62	SnSe2 nanocrystals coupled with hierarchical porous carbon microspheres for long-life sodium ion battery anode. *Science China Materials*, **2020**, 63, 483-491	7.1	17
61	Flexible Metal/Polymer Composite Films Embedded with Silver Nanowires as a Stretchable and Conductive Strain Sensor for Human Motion Monitoring. *Micromachines*, **2019**, 10,	3.3	16
60	Microcapsule-Based Visualization Smart Sensors for Damage Detection: Principles and Applications. *Advanced Materials Technologies*, **2020**, 5, 1900832	6.8	16
59	Antibiofouling Ultrathin Poly(amidoxime) Membrane for Enhanced U(VI) Recovery from Wastewater and Seawater. *ACS Applied Materials & Interfaces*, **2021**, 13, 21272-21285	9.5	16
58	Enhanced Electron Collection in Perovskite Solar Cells Employing Thermoelectric NaCo O /TiO Coaxial Nanofibers. *Small*, **2016**, 12, 5146-5152	11	15
57	A nanoclay enhanced Amidoxime-Functionalized Double-Network hydrogel for fast and massive uranium recovery from seawater. *Chemical Engineering Journal*, **2021**, 422, 130060	14.7	15
56	Charge balanced anti-adhesive polyacrylamidoxime hydrogel membrane for enhancing uranium extraction from seawater. *Chemical Engineering Journal*, **2021**, 421, 127878	14.7	14
55	Flexible films with wrinkled micro-nano hierarchical structures having stable superhydrophobicity under external loading. *Journal of Materials Science*, **2020**, 55, 9623-9637	4.3	13
54	Micro-Nano Hierarchical Dendritic Structures for Droplet Curve Manipulation: Implications for Microfluidic Devices. *ACS Applied Nano Materials*, **2020**, 3, 6524-6530	5.6	11
53	Highly efficient charge collection in dye-sensitized solar cells based on nanocomposite photoanode filled with indium-tin oxide interlayer. *Advanced Composites and Hybrid Materials*, **2018**, 1, 356-363	8.7	11
52	Patterned Metal/Polymer Strain Sensor with Good Flexibility, Mechanical Stability and Repeatability for Human Motion Detection. *Micromachines*, **2019**, 10,	3.3	11
51	Photoinduced Multiple Effects to Enhance Uranium Extraction from Natural Seawater by Black Phosphorus Nanosheets. *Angewandte Chemie*, **2020**, 132, 1236-1243	3.6	10
50	A Bio-inspired Nano-pocket Spatial Structure for Targeting Uranyl Capture. *Angewandte Chemie*, **2020**, 132, 4292-4298	3.6	10
49	A poly(amidoxime)-modified MOF macroporous membrane for high-efficient uranium extraction from seawater. *E-Polymers*, **2022**, 22, 399-410	2.7	10
48	Angle-dependent structural colors in a nanoscale-grating photonic crystal fabricated by reverse nanoimprint technology. *Beilstein Journal of Nanotechnology*, **2019**, 10, 1211-1216	3	7

47	Accelerated Chemical Thermodynamics of Uranium Extraction from Seawater by Plant-Mimetic Transpiration. *Advanced Science*, **2021**, 8, e2102250	13.6	7
46	Ultra-fast and stable extraction of Li metal from seawater. *Chemical Communications*, **2020**, 56, 1577-1580	5.8	7
45	In-situ synthesis of uranyl-imprinted nanocage for selective uranium recovery from seawater. *Angewandte Chemie - International Edition*, **2021**,	16.4	6
44	Synergistic Hematite–Fullerene Electron-Extracting Layers for Improved Efficiency and Stability in Perovskite Solar Cells. *ChemElectroChem*, **2018**, 5, 725-725	4.3	5
43	Amidoxime Group-Anchored Single Cobalt Atoms for Anti-Biofouling during Uranium Extraction from Seawater.. *Advanced Science*, **2022**, e2105008	13.6	5
42	Atomic Chromium Coordinated Graphitic Carbon Nitride for Bioinspired Antibiofouling in Seawater.. *Advanced Science*, **2022**, e2105346	13.6	5
41	Interlayer spacing adjusted zirconium phosphate with 2D ion channels for highly efficient removal of uranium contamination in radioactive effluent. *Chemical Engineering Journal*, **2022**, 429, 132265	14.7	5
40	Halogen hydrogen-bonded organic framework (XHOF) constructed by singlet open-shell diradical for efficient photoreduction of U(VI).. *Nature Communications*, **2022**, 13, 1389	17.4	5
39	Efficient and Selective Methane Borylation Through Pore Size Tuning of Hybrid Porous Organic-Polymer-Based Iridium Catalysts. *Angewandte Chemie*, **2019**, 131, 10781-10786	3.6	4
38	Progress in fabrication and applications of micro/nanostructured superhydrophobic surfaces. *Surface Innovations*, **2022**, 10, 89-110	1.9	4
37	In-situ grown bilayer MOF from robust wood aerogel with aligned microchannel arrays toward selective extraction of uranium from seawater. *Chemical Engineering Journal*, **2022**, 433, 134346	14.7	4
36	Functionalization and Fabrication of Soluble Polymers of Intrinsic Microporosity for CO2 Transformation and Uranium Extraction. *Engineered Science*, **2018**,	3.8	4
35	Remarkably Enhanced CO2 Uptake and Uranium Extraction by Functionalization of Cyano-bearing Conjugated Porous Polycarbazoles. *Engineered Science*, **2019**,	3.8	4
34	Kelp inspired bio-hydrogel with high antibiofouling activity and super-toughness for ultrafast uranium extraction from seawater. *Chemical Engineering Journal*, **2021**, 430, 133121	14.7	4
33	Highly efficient extraction of uranium from seawater by natural marine crab carapace. *Chemical Engineering Journal*, **2022**, 430, 133038	14.7	4
32	A Smart Design Strategy for Super-Elastic Hydrogel with Long-Term Moisture, Extreme Temperature Resistance, and Non-Flammability. *Advanced Science*, **2021**, 8, e2100320	13.6	4
31	Conjugating hyaluronic acid with porous biomass to construct anti-adhesive sponges for rapid uranium extraction from seawater. *Chemical Engineering Journal*, **2021**, 420, 130382	14.7	4
30	Vertically Aligned Polyamidoxime/Graphene Oxide Hybrid Sheets Membrane for Ultrafast and Selective Extraction of Uranium from Seawater. *Advanced Functional Materials*, **2022**, 32, 2111049	15.6	4

29	Electrical Signal Reporter, Pore-Forming Protein, for Rapid, Miniaturized, and Universal Identification of Microorganisms. *Analytical Chemistry*, **2018**, 90, 9853-9858	7.8	3
28	Uranium Extraction: A Marine-Inspired Hybrid Sponge for Highly Efficient Uranium Extraction from Seawater (Adv. Funct. Mater. 32/2019). *Advanced Functional Materials*, **2019**, 29, 1970219	15.6	3
27	Rapid recovery of uranium with magnetic-single-molecular amidoxime adsorbent. *Separation and Purification Technology*, **2022**, 287, 120524	8.3	3
26	Mussel-Inspired Dual-Crosslinked Polyamidoxime Photothermal Hydrogel with Enhanced Mechanical Strength for Highly Efficient and Selective Uranium Extraction from Seawater. *Chemical Engineering Journal*, **2021**, 133182	14.7	3
25	Fluorinated Black Phosphorene Nanosheets with Robust Ambient Stability for Efficient and Stable Perovskite Solar Cells. *Advanced Functional Materials*,2106779	15.6	3
24	Stabilizing Ultrasmall Ceria-Cluster Nanozyme for Antibacterial and Antibiofouling Applications.. *Small*, **2022**, e2107401	11	3
23	A wood-mimetic porous MXene/gelatin hydrogel for electric field/sunlight bi-enhanced uranium adsorption. *E-Polymers*, **2022**, 22, 468-477	2.7	3
22	Perovskite Solar Cells: All-Carbon-Electrode-Based Endurable Flexible Perovskite Solar Cells (Adv. Funct. Mater. 11/2018). *Advanced Functional Materials*, **2018**, 28, 1870069	15.6	2
21	Patterned Metal/Polymer Composite Film with Good Mechanical Stability and Repeatability for Flexible Electronic Devices Using Nanoimprint Technology. *Micromachines*, **2019**, 10,	3.3	2
20	Single-Atom Tungsten Engineering of MOFs with Biomimetic Antibiofilm Activity Toward Robust Uranium Extraction from Seawater. *Chemical Engineering Journal*, **2021**, 133483	14.7	2
19	A review on applications of superhydrophobic materials in civil engineering. *Advanced Engineering Materials*,	3.5	2
18	Room temperature synthesis of defective cerium oxide for efficient marine anti-biofouling. *Advanced Composites and Hybrid Materials*,1	8.7	2
17	Highly efficient and stable Li extraction device by coupling Li4Ti5O12 electrode and matching perfluoro electrolyte. *Journal of Alloys and Compounds*, **2021**, 869, 159402	5.7	2
16	Guanidinium-based ionic covalent organic frameworks for capture of uranyl tricarbonate. *Advanced Composites and Hybrid Materials*,1	8.7	2
15	Spidroin-Inspired, High-Strength, Loofah-Shaped Protein Fiber for Capturing Uranium from Seawater. *Angewandte Chemie*, **2020**, 132, 16131-16135	3.6	1
14	Highly efficient immobilization of environmental uranium contamination with Pseudomonas stutzeri by biosorption, biomineralization, and bioreduction. *Journal of Hazardous Materials*, **2021**, 424, 127758	12.8	1
13	Ultrasensitive Detection of Aqueous Uranyl Based on Uranyl-Triggered Protein Photocleavage.. *Angewandte Chemie - International Edition*, **2022**,	16.4	1
12	Low-Temperature synthesis of FeOOH Quantum Dots as Promising Electron-Transporting Layers for High-Performance Planar Perovskite Solar Cells. *IOP Conference Series: Earth and Environmental Science*,585, 012010	0.3	1

11	Defect-engineered metal-organic framework with enhanced photoreduction activity toward uranium extraction from seawater. *Cell Reports Physical Science*, **2022**, 3, 100892	6.1	1
10	Mixed-linker strategy toward enhanced photoreduction-assisted uranium recovery from wastewater and seawater. *Chemical Engineering Journal*, **2022**, 446, 137264	14.7	1
9	Structural and Componential Engineering of CoP&CoP@N-C Nanoarrays for Energy-Efficient Hydrogen Production from Water Electrolysis. *ACS Applied Materials & Interfaces*, **2021**, 13, 56064-56072	9.5	0
8	Advanced bamboo composite materials with high-efficiency and long-term anti-microbial fouling performance. *Advanced Composites and Hybrid Materials*,1	8.7	0
7	In-situ synthesis of uranyl-imprinted nanocage for selective uranium recovery from seawater. *Angewandte Chemie*,	3.6	0
6	Wetting stability of flexible superamphiphobic surfaces under stretching loading. *Surface Innovations*,1-11	1.9	0
5	Macroporous hydrogel membrane by cooperative reaming for highly efficient uranium extraction from seawater. *Separation and Purification Technology*, **2022**, 289, 120823	8.3	0
4	Cuttlefish ink loaded polyamidoxime adsorbent with excellent photothermal conversion and antibacterial activity for highly efficient uranium capture from natural seawater.. *Journal of Hazardous Materials*, **2022**, 433, 128789	12.8	0
3	High-strength and anti-biofouling nanofiber membranes for enhanced uranium recovery from seawater and wastewater.. *Journal of Hazardous Materials*, **2022**, 436, 128983	12.8	0
2	Ultra-flexible flame-retardant wood composites with resistance to extreme temperatures and mildew. *Cell Reports Physical Science*, **2022**, 100732	6.1	
1	Study of mechanical properties and enhancing auxetic mechanism of composite auxetic structures. *Engineering Reports*,e12436	1.2	