

# Yuyan Liu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92  
papers

3,790  
citations

37  
h-index

60  
g-index

98  
ext. papers

4,842  
ext. citations

8.1  
avg, IF

6.22  
L-index

#	Paper	IF	Citations
92	High-volumetric capacitance and high-rate performance in liquid-mediated densified holey MXene film. <i>Carbon</i> , <b>2022</b> , 186, 150-159	10.4	5
91	3D Porous MXene Films for Advanced Electromagnetic Interference Shielding and Capacitive Storage. <i>Crystals</i> , <b>2022</b> , 12, 780	2.3	0
90	Advances in MXene Films: Synthesis, Assembly, and Applications. <i>Transactions of Tianjin University</i> , <b>2021</b> , 27, 217-247	2.9	19
89	Molecularly soldered covalent organic frameworks for ultrafast precision sieving. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	93
88	A shape memory porous sponge with tunability in both surface wettability and pore size for smart molecule release. <i>Science China Materials</i> , <b>2021</b> , 64, 2337-2347	7.1	3
87	MXene-Based Humidity-Responsive Actuators: Preparation and Properties. <i>ChemPlusChem</i> , <b>2021</b> , 86, 406-417	2.8	6
86	Microstructural engineering of flexible and broadband microwave absorption films with hierarchical superstructures derived from bimetallic metal-organic framework. <i>Carbon</i> , <b>2021</b> , 178, 320-331	10.4	11
85	Unravelling intercalation-regulated nanoconfinement for durably ultrafast sieving graphene oxide membranes. <i>Journal of Membrane Science</i> , <b>2021</b> , 619, 118791	9.6	47
84	Acidified bimetallic MOFs constructed Co/N co-doped low dimensional hybrid carbon networks for high-efficiency microwave absorption. <i>Carbon</i> , <b>2021</b> , 171, 211-220	10.4	14
83	Superwetting Shape Memory Microstructure: Smart Wetting Control and Practical Application. <i>Advanced Materials</i> , <b>2021</b> , 33, e2001718	24	38
82	Lightweight MXene/Cellulose Nanofiber Composite Film for Electromagnetic Interference Shielding. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 2101-2110	1.9	11
81	Dual-responsive shape memory polymer arrays with smart and precise multiple-wetting controllability. <i>Science China Materials</i> , <b>2021</b> , 64, 1801-1812	7.1	6
80	Sunshine foaming of compact Ti3C2T MXene film for highly efficient electromagnetic interference shielding and energy storage. <i>Carbon</i> , <b>2021</b> , 182, 124-133	10.4	12
79	Superhydrophobic shape memory film with switchable adhesion to both water and solid. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129862	14.7	3
78	Switchable shape memory wetting surface based on synergistic regulation of surface chemistry and microstructure. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2021</b> , 149, 106579	8.4	1
77	Binder-Free Ti3C2Tx MXene Doughs with High Redispersibility <b>2020</b> , 2, 1598-1605		13
76	Highly Conductive MXene Film Actuator Based on Moisture Gradients. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14029-14033	16.4	40

75	Highly Conductive MXene Film Actuator Based on Moisture Gradients. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 14133-14137	3.6	8
74	Ultrathin 2D Metal-Organic Framework Nanosheets In situ Interpenetrated by Functional CNTs for Hybrid Energy Storage Device. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 46	19.5	57
73	Thermo-responsive separation membrane with smart anti-fouling and self-cleaning properties. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 156, 333-342	5.5	18
72	A Compact MXene Film with Folded Structure for Advanced Supercapacitor Electrode Material. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1811-1820	6.1	28
71	Constructing expanded ion transport channels in flexible MXene film for pseudocapacitive energy storage. <i>Applied Surface Science</i> , <b>2020</b> , 511, 145627	6.7	25
70	Two-stage reactive shape memory thiol-epoxy-acrylate system and application in 3D structure design. <i>Advanced Composites and Hybrid Materials</i> , <b>2020</b> , 3, 41-48	8.7	6
69	In-situ switchable superhydrophobic shape memory microstructure patterns with reversible wettability and adhesion. <i>Applied Surface Science</i> , <b>2020</b> , 525, 146525	6.7	20
68	Bimetallic Metal-Organic Framework-Derived Pomegranate-like Nanoclusters Coupled with CoNi-Doped Graphene for Strong Wideband Microwave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17870-17880	9.5	49
67	Ultra-thin trinity coating enabled by competitive reactions for unparalleled molecular separation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 5078-5085	13	67
66	Mussel-/diatom-inspired silicified membrane for high-efficiency water remediation. <i>Journal of Membrane Science</i> , <b>2020</b> , 597, 117753	9.6	36
65	Superhydrophobic Shape Memory Polymer Microarrays with Switchable Directional/Antidirectional Droplet Sliding and Optical Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 49219-49226	9.5	9
64	Superlyophilic Shape Memory Porous Sponge for Smart Liquid Permeation. <i>ACS Nano</i> , <b>2020</b> , 14, 14047-14056	14.56	11
63	Lightweight Three-Dimensional Cellular MXene Film for Superior Energy Storage and Electromagnetic Interference Shielding. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 8171-8178	6.1	24
62	A lightweight and conductive MXene/graphene hybrid foam for superior electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , <b>2020</b> , 381, 122696	14.7	161
61	Multifunctional Core-Shell Zwitterionic Nanoparticles To Build Robust, Stable Antifouling Membranes via Magnetic-Controlled Surface Segregation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35501-35508	9.5	37
60	In Situ Confined Bimetallic Metal-Organic Framework Derived Nanostructure within 3D Interconnected Bamboo-like Carbon Nanotube Networks for Boosting Electromagnetic Wave Absorbing Performances. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35999-36009	9.5	74
59	A supramolecular hydrogel with monitorable macro/microscopic shape memory performance. <i>Chemical Communications</i> , <b>2019</b> , 55, 11856-11859	5.8	7
58	Mesoporous dendritic fibrous nanosilica (DFNS) stimulating mix matrix membranes towards superior CO <sub>2</sub> capture. <i>Journal of Membrane Science</i> , <b>2019</b> , 586, 185-191	9.6	27

57	Gecko toe pads inspired in situ switchable superhydrophobic shape memory adhesive film. <i>Nanoscale</i> , <b>2019</b> , 11, 8984-8993	7.7	38
56	Supramolecular chemistry assisted construction of ultra-stable solvent-resistant membranes for angstrom-sized molecular separation. <i>Chemical Engineering Journal</i> , <b>2019</b> , 371, 535-543	14.7	67
55	Cactus-Inspired Bimetallic Metal-Organic Framework-Derived 1D-2D Hierarchical Co/N-Decorated Carbon Architecture toward Enhanced Electromagnetic Wave Absorbing Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 13564-13573	9.5	123
54	Smart Superhydrophobic Shape Memory Adhesive Surface toward Selective Capture/Release of Microdroplets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 10988-10997	9.5	49
53	Bioadhesion-inspired surface engineering constructing robust, hydrophilic membranes for highly-efficient wastewater remediation. <i>Journal of Membrane Science</i> , <b>2019</b> , 591, 117353	9.6	58
52	Control of tip nanostructure on superhydrophobic shape memory arrays toward reversibly adjusting water adhesion. <i>Advanced Composites and Hybrid Materials</i> , <b>2019</b> , 2, 753-762	8.7	6
51	Ink-based 3D printing technologies for graphene-based materials: a review. <i>Advanced Composites and Hybrid Materials</i> , <b>2019</b> , 2, 1-33	8.7	97
50	Interface-confined surface engineering constructing water-unidirectional Janus membrane. <i>Journal of Membrane Science</i> , <b>2019</b> , 576, 9-16	9.6	69
49	Nanoporous framework Reservoir Maximizing low-molecular-weight enhancer impregnation into CO <sub>2</sub> -philic membranes for highly-efficient CO <sub>2</sub> capture. <i>Journal of Membrane Science</i> , <b>2019</b> , 570-571, 278-285	9.6	48
48	Smart Wetting Control on Shape Memory Polymer Surfaces. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 3979-3992	4.8	27
47	Cellulose nanofibers/polyurethane shape memory composites with fast water-responsivity. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 1668-1677	7.3	49
46	Under-Oil Switchable Superhydrophobicity to Superhydrophilicity Transition on TiO Nanotube Arrays. <i>ACS Nano</i> , <b>2018</b> , 12, 1074-1082	16.7	72
45	A Smart Superwetting Surface with Responsivity in Both Surface Chemistry and Microstructure. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 3701-3705	16.4	76
44	A Smart Superwetting Surface with Responsivity in Both Surface Chemistry and Microstructure. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 3763-3767	3.6	17
43	A nanoporous MXene film enables flexible supercapacitors with high energy storage. <i>Nanoscale</i> , <b>2018</b> , 10, 9642-9652	7.7	112
42	Modified MXene/Holey Graphene Films for Advanced Supercapacitor Electrodes with Superior Energy Storage. <i>Advanced Science</i> , <b>2018</b> , 5, 1800750	13.6	216
41	Frictional Reduction with Partially Exfoliated Multi-Walled Carbon Nanotubes as Water-Based Lubricant Additives. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 3427-3432	1.3	8
40	Superhydrophobic Shape Memory Polymer Arrays with Switchable Isotropic/Anisotropic Wetting. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705002	15.6	120

39	Water-induced poly(vinyl alcohol)/carbon quantum dot nanocomposites with tunable shape recovery performance and fluorescence. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 7444-7450	7.3	19
38	Segregation-induced in situ hydrophilic modification of poly (vinylidene fluoride) ultrafiltration membranes via sticky poly (ethylene glycol) blending. <i>Journal of Membrane Science</i> , <b>2018</b> , 563, 22-30	9.6	131
37	Self-Restoration of Superhydrophobicity on Shape Memory Polymer Arrays with Both Crushed Microstructure and Damaged Surface Chemistry. <i>Small</i> , <b>2017</b> , 13, 1503402	11	94
36	Designing multifunctional 3D magnetic foam for effective insoluble oil separation and rapid selective dye removal for use in wastewater remediation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7316-7325	13	113
35	Realizing Mussel-Inspired Polydopamine Selective Layer with Strong Solvent Resistance in Nanofiltration toward Sustainable Reclamation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 5520-5528	8.2	83
34	Simply realizing water diode Janus membranes for multifunctional smart applications. <i>Materials Horizons</i> , <b>2017</b> , 4, 701-708	14.4	151
33	High Density of Free-Standing Holey Graphene/PPy Films for Superior Volumetric Capacitance of Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21763-21772	9.5	77
32	Building Additional Passageways in Polyamide Membranes with Hydrostable Metal Organic Frameworks To Recycle and Remove Organic Solutes from Various Solvents. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 38877-38886	9.5	65
31	Ultrahigh volumetric performance of a free-standing compact N-doped holey graphene/PANI slice for supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16689-16701	13	67
30	Alkyl bicarbamates supramolecular organogelators with effective selective gelation and high oil recovery from oil/water mixtures. <i>Chemosphere</i> , <b>2017</b> , 167, 178-187	8.4	15
29	A novel monoamine modification strategy toward high-performance organic solvent nanofiltration (OSN) membrane for sustainable molecular separations. <i>Journal of Membrane Science</i> , <b>2016</b> , 497, 77-89	9.6	63
28	Superhydrophobic Surface With Shape Memory Micro/Nanostructure and Its Application in Rewritable Chip for Droplet Storage. <i>ACS Nano</i> , <b>2016</b> , 10, 9379-9386	16.7	110
27	Toluene diisocyanate based phase-selective supramolecular oil gelator for effective removal of oil spills from polluted water. <i>Chemosphere</i> , <b>2016</b> , 153, 485-93	8.4	28
26	Preparation and properties of aligned graphene composites. <i>RSC Advances</i> , <b>2015</b> , 5, 31670-31676	3.7	16
25	A novel mussel-inspired strategy toward superhydrophobic surfaces for self-driven crude oil spill cleanup. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 12171-12178	13	116
24	Preparation and properties of polyurethane-modified epoxy cured in different simulated gravity environments. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	6
23	The effect of ionic liquids on the decomposition behavior of epoxy resin in subcritical water. <i>RSC Advances</i> , <b>2015</b> , 5, 14553-14560	3.7	1
22	Decomposition mechanisms and kinetics of amine/anhydride-cured DGEBA epoxy resin in near-critical water. <i>RSC Advances</i> , <b>2015</b> , 5, 40269-40282	3.7	13

21	Curing behavior of epoxy resins in two-stage curing process by non-isothermal differential scanning calorimetry kinetics method. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	19
20	Decomposition mechanisms of cured epoxy resins in near-critical water. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 132, n/a-n/a	2.9	2
19	Chemical decomposition of epoxy resin in near-critical water by an acid-base catalytic method. <i>RSC Advances</i> , <b>2014</b> , 4, 22367-22373	3.7	15
18	Three-dimensional and stable polyaniline-grafted graphene hybrid materials for supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 15273-15278	13	114
17	A new method to improve the stability, tensile strength, and heat resistant properties of shape-memory epoxy resins: Two-stages curing. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	7
16	UV-protective treatment for Vectran <sup>®</sup> fibers with hybrid coatings of TiO <sub>2</sub> /organic UV absorbers. <i>Journal of Adhesion Science and Technology</i> , <b>2014</b> , 28, 1773-1782	2	14
15	Effect of accelerated xenon lamp aging on the mechanical properties and structure of thermoplastic polyurethane for stratospheric airship envelope. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2014</b> , 29, 1270-1276	1	12
14	MnO <sub>2</sub> catalysts uniformly decorated on polyphenylene sulfide filter felt by a polypyrrole-assisted method for use in the selective catalytic reduction of NO with NH <sub>3</sub> . <i>RSC Advances</i> , <b>2014</b> , 4, 59242-59247	3.7	8
13	Toughening-modified epoxy-amine system: Cure kinetics, mechanical behavior, and shape memory performances. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	11
12	Decomposition behavior and decomposition products of epoxy resin cured with MeHHPA in near-critical water. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2013</b> , 28, 781-786	1	4
11	Accelerated ultraviolet aging study of the Vectran fiber. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 3286-3292	2.9	10
10	Thermal stability, thermal decomposition and mechanism analysis of cycloaliphatic epoxy/4,4'-dihydroxydiphenylsulfone/aluminum complexes latent resin systems. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2012</b> , 27, 1061-1067	1	3
9	Amino functionalization of multiwalled carbon nanotubes by gamma ray irradiation and its epoxy composites. <i>Polymer Composites</i> , <b>2012</b> , 33, 267-274	3	8
8	Organic-montmorillonite modified shape memory epoxy composite. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 2017-2021	3.2	15
7	Thermal, mechanical and shape memory properties of shape memory epoxy resin. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 2510-2514	5.3	134
6	Hydrophilic modification of poly(aryl sulfone) membrane materials toward highly-efficient environmental remediation. <i>Frontiers of Chemical Science and Engineering</i> , 1	4.5	3
5	A Magnetic-Driven Switchable Adhesive Superhydrophobic Surface for In Situ Sliding Control of Superparamagnetic Microdroplets. <i>Advanced Materials Interfaces</i> , 2101660	4.6	2
4	Highly Conductive Liquid Metal-Based Shape Memory Material with an Ultrasensitive Fire Warning Response. <i>ACS Applied Polymer Materials</i> ,	4.3	1

3	Programmable droplet sliding on slippery surface with tunability in both surface microstructure and lubricant. <i>Advanced Composites and Hybrid Materials</i> ,1	8.7	0
2	Liquid diode with gating based on shape memory sponge. <i>Science China Materials</i> ,1	7.1	1
1	Amphibious superlyophobic shape memory arrays with tunable wettability in both air and water. <i>Advanced Composites and Hybrid Materials</i> ,1	8.7	0