

# Xianhu Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4777521/publications.pdf>

Version: 2024-02-01

205  
papers

12,238  
citations

20817

60  
h-index

36028

97  
g-index

207  
all docs

207  
docs citations

207  
times ranked

9636  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically conductive polymer composites for smart flexible strain sensors: a critical review. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12121-12141.	5.5	522
2	Continuously prepared highly conductive and stretchable SWNT/MWNT synergistically composited electrospun thermoplastic polyurethane yarns for wearable sensing. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2258-2269.	5.5	376
3	Highly Compressible and Robust Polyimide/Carbon Nanotube Composite Aerogel for High-Performance Wearable Pressure Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 42594-42606.	8.0	255
4	Polydopamine antibacterial materials. <i>Materials Horizons</i> , 2021, 8, 1618-1633.	12.2	246
5	Spin-polarized oxygen evolution reaction under magnetic field. <i>Nature Communications</i> , 2021, 12, 2608.	12.8	242
6	Flexible multilayered MXene/thermoplastic polyurethane films with excellent electromagnetic interference shielding, thermal conductivity, and management performances. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 274-285.	21.1	237
7	Non-covalently functionalized graphene strengthened poly(vinyl alcohol). <i>Materials and Design</i> , 2018, 139, 372-379.	7.0	236
8	Superhydrophobic Electrically Conductive Paper for Ultrasensitive Strain Sensor with Excellent Anticorrosion and Self-Cleaning Property. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21904-21914.	8.0	228
9	MOF-Derived Ni <sup>1+</sup> xCo <sub>x</sub> @Carbon with Tunable Nano-“Microstructure as Lightweight and Highly Efficient Electromagnetic Wave Absorber. <i>Nano-Micro Letters</i> , 2020, 12, 150.	27.0	222
10	Polyphenol scaffolds in tissue engineering. <i>Materials Horizons</i> , 2021, 8, 145-167.	12.2	203
11	Ultrathin flexible poly(vinylidene fluoride)/MXene/silver nanowire film with outstanding specific EMI shielding and high heat dissipation. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 505-513.	21.1	190
12	Highly Sensitive Ultrathin Flexible Thermoplastic Polyurethane/Carbon Black Fibrous Film Strain Sensor with Adjustable Scaffold Networks. <i>Nano-Micro Letters</i> , 2021, 13, 64.	27.0	189
13	Polydopamine free radical scavengers. <i>Biomaterials Science</i> , 2020, 8, 4940-4950.	5.4	180
14	A Mussel-Inspired Polydopamine-Filled Cellulose Aerogel for Solar-Enabled Water Remediation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 7617-7624.	8.0	172
15	Recent developments in polydopamine fluorescent nanomaterials. <i>Materials Horizons</i> , 2020, 7, 746-761.	12.2	171
16	Towards Long-Term Photostability of Nickel Hydroxide/BiVO <sub>4</sub> Photoanodes for Oxygen Evolution Catalysts via In-Situ Catalyst Tuning. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6213-6218.	13.8	169
17	Promoting the hydrogen evolution reaction through oxygen vacancies and phase transformation engineering on layered double hydroxide nanosheets. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2490-2497.	10.3	159
18	Graphene oxide based dopamine mussel-like cross-linked polyethylene imine nanocomposite coating with enhanced hexavalent uranium adsorption. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16902-16911.	10.3	156

#	ARTICLE	IF	CITATIONS
19	Superhydrophobic Shish-kebab Membrane with Self-Cleaning and Oil/Water Separation Properties. ACS Sustainable Chemistry and Engineering, 2018, 6, 9866-9875.	6.7	147
20	Facile Fabrication of Superhydrophobic and Eco-Friendly Poly(lactic acid) Foam for Oil/Water Separation via Skin Peeling. ACS Applied Materials & Interfaces, 2019, 11, 14362-14367.	8.0	132
21	Boosting solar steam generation by photothermal enhanced polydopamine/wood composites. Polymer, 2021, 217, 123464.	3.8	132
22	Spontaneously Self-Assembly of a 2D/3D Heterostructure Enhances the Efficiency and Stability in Printed Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 2000173.	19.5	126
23	Emergence of melanin-inspired supercapacitors. Nano Today, 2021, 37, 101075.	11.9	121
24	Vertically Aligned 2D/3D Pb/Sn Perovskites with Enhanced Charge Extraction and Suppressed Phase Segregation for Efficient Printable Solar Cells. ACS Energy Letters, 2020, 5, 1386-1395.	17.4	111
25	Porous Polyethylene Bundles with Enhanced Hydrophobicity and Pumping Oil-Recovery Ability via Skin-Peeling. ACS Sustainable Chemistry and Engineering, 2018, 6, 12580-12585.	6.7	109
26	Magnetized MXene Microspheres with Multiscale Magnetic Coupling and Enhanced Polarized Interfaces for Distinct Microwave Absorption via a Spray-Drying Method. ACS Applied Materials & Interfaces, 2020, 12, 18138-18147.	8.0	108
27	Ni Flower/MXene-Melamine Foam Derived 3D Magnetic/Conductive Networks for Ultra-Efficient Microwave Absorption and Infrared Stealth. Nano-Micro Letters, 2022, 14, 63.	27.0	108
28	Constructing nickel chain/MXene networks in melamine foam towards phase change materials for thermal energy management and absorption-dominated electromagnetic interference shielding. Advanced Composites and Hybrid Materials, 2022, 5, 755-765.	21.1	105
29	Study of active sites on Se-MnS/NiS heterojunctions as highly efficient bifunctional electrocatalysts for overall water splitting. Journal of Materials Chemistry A, 2019, 7, 26975-26983.	10.3	104
30	Flexible Polydopamine Bioelectronics. Advanced Functional Materials, 2021, 31, 2103391.	14.9	102
31	Electrospun PVDF/PAN membrane for pressure sensor and sodium-ion battery separator. Advanced Composites and Hybrid Materials, 2021, 4, 1215-1225.	21.1	99
32	A Generalized Crystallization Protocol for Scalable Deposition of High-Quality Perovskite Thin Films for Photovoltaic Applications. Advanced Science, 2019, 6, 1901067.	11.2	97
33	Interface Engineering of CoS/CoO@N-Doped Graphene Nanocomposite for High-Performance Rechargeable Zn-Air Batteries. Nano-Micro Letters, 2021, 13, 3.	27.0	95
34	ROS Scavenging Biopolymers for Anti-Inflammatory Diseases: Classification and Formulation. Advanced Materials Interfaces, 2020, 7, 2000632.	3.7	92
35	Facile Thermally Impacted Water-Induced Phase Separation Approach for the Fabrication of Skin-Free Thermoplastic Polyurethane Foam and Its Recyclable Counterpart for Oil/Water Separation. Macromolecular Rapid Communications, 2018, 39, e1800635.	3.9	90
36	Recent Progress in Optoelectronic Synapses for Artificial Visual Perception System. Small Structures, 2020, 1, 2000029.	12.0	90

#	ARTICLE	IF	CITATIONS
37	Largely improved thermal conductivity of HDPE composites by building a 3D hybrid fillers network. <i>Composites Science and Technology</i> , 2021, 206, 108666.	7.8	89
38	Electrical conductivity and mechanical properties of melt-spun ternary composites comprising PMMA, carbon fibers and carbon black. <i>Composites Science and Technology</i> , 2017, 150, 24-31.	7.8	88
39	Enhancing the electrical conductivity of carbon black-filled immiscible polymer blends by tuning the morphology. <i>European Polymer Journal</i> , 2016, 78, 106-115.	5.4	87
40	Flexible, conductive, and anisotropic thermoplastic polyurethane/polydopamine /MXene foam for piezoresistive sensors and motion monitoring. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 155, 106838.	7.6	86
41	$V_4C_3Tx$ MXene: A promising active substrate for reactive surface modification and the enhanced electrocatalytic oxygen evolution activity. <i>Information Materials</i> , 2020, 2, 950-959.	17.3	85
42	Orientation growth modulated magnetic-carbon microspheres toward broadband electromagnetic wave absorption. <i>Carbon</i> , 2021, 172, 516-528.	10.3	85
43	Continuous fabrication of polymer microfiber bundles with interconnected microchannels for oil/water separation. <i>Applied Materials Today</i> , 2017, 9, 77-81.	4.3	84
44	Simple fabrication of superhydrophobic PLA with honeycomb-like structures for high-efficiency oil-water separation. <i>Chinese Chemical Letters</i> , 2020, 31, 365-368.	9.0	84
45	Biomass-derived nonprecious metal catalysts for oxygen reduction reaction: The demand-oriented engineering of active sites and structures. , 2020, 2, 561-581.		83
46	Remarkable Magnetic Exchange Coupling via Constructing Bi-Magnetic Interface for Broadband Lower-Frequency Microwave Absorption. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	82
47	High-performance porous PLLA-based scaffolds for bone tissue engineering: Preparation, characterization, and in vitro and in vivo evaluation. <i>Polymer</i> , 2019, 180, 121707.	3.8	81
48	Flexible and thin multifunctional waterborne polyurethane/Ag film for high-efficiency electromagnetic interference shielding, electro-thermal and strain sensing performances. <i>Composites Part B: Engineering</i> , 2021, 210, 108668.	12.0	80
49	Multifunctional and superhydrophobic cellulose composite paper for electromagnetic shielding, hydraulic triboelectric nanogenerator and Joule heating applications. <i>Chemical Engineering Journal</i> , 2021, 420, 129864.	12.7	79
50	Pt-induced Defects Curing on $BiVO_4$ Photoanodes for Near-Threshold Charge Separation. <i>Advanced Energy Materials</i> , 2021, 11, 2102384.	19.5	76
51	Cobalt (II) oxide nanosheets with rich oxygen vacancies as highly efficient bifunctional catalysts for ultra-stable rechargeable Zn-air flow battery. <i>Nano Energy</i> , 2021, 79, 105409.	16.0	74
52	Double ligand MOF-derived pomegranate-like Ni@C microspheres as high-performance microwave absorber. <i>Applied Surface Science</i> , 2021, 538, 148051.	6.1	74
53	Flexible and Robust Polyaniline Composites for Highly Efficient and Durable Solar Desalination. <i>ACS Applied Energy Materials</i> , 2020, 3, 2634-2642.	5.1	73
54	Self-reinforcing and toughening isotactic polypropylene via melt sequential injection molding. <i>Polymer Testing</i> , 2018, 67, 183-189.	4.8	72

#	ARTICLE	IF	CITATIONS
55	Mechanical enhancement of melt-stretched $\hat{\Gamma}^2$ -nucleated isotactic polypropylene: The role of lamellar branching of $\hat{\Gamma}^2$ -crystal. <i>Polymer Testing</i> , 2017, 58, 227-235.	4.8	69
56	Sequential Deposition of High-Quality Photovoltaic Perovskite Layers via Scalable Printing Methods. <i>Advanced Functional Materials</i> , 2019, 29, 1900964.	14.9	69
57	High-strength, flexible and cycling-stable piezo-resistive polymeric foams derived from thermoplastic polyurethane and multi-wall carbon nanotubes. <i>Composites Part B: Engineering</i> , 2020, 199, 108279.	12.0	68
58	Efficient and Stable Planar $\text{p-Sb}_2\text{Se}_3$ Solar Cells Enabled by Oriented 1D Trigonal Selenium Structures. <i>Advanced Science</i> , 2020, 7, 2001013.	11.2	67
59	Photo-driven Oxygen Vacancies Extends Charge Carrier Lifetime for Efficient Solar Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17601-17607.	13.8	67
60	Entanglement network formed in miscible PLA/PMMA blends and its role in rheological and thermo-mechanical properties of the blends. <i>Polymer</i> , 2015, 80, 38-45.	3.8	66
61	Oxygen-Vacancy-Dominated Cocatalyst/Hematite Interface for Boosting Solar Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22272-22277.	8.0	66
62	Yttrium-Induced Regulation of Electron Density in NiFe Layered Double Hydroxides Yields Stable Solar Water Splitting. <i>ACS Catalysis</i> , 2020, 10, 10570-10576.	11.2	66
63	A simple superhydrophobic/superhydrophilic Janus-paper with enhanced biocompatibility by PDMS and candle soot coating for actuator. <i>Chemical Engineering Journal</i> , 2021, 406, 126532.	12.7	65
64	Asymmetric Superhydrophobic Textiles for Electromagnetic Interference Shielding, Photothermal Conversion, and Solar Water Evaporation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28996-29007.	8.0	65
65	2D-3D heterostructure enables scalable coating of efficient low-bandgap Sn-Pb mixed perovskite solar cells. <i>Nano Energy</i> , 2019, 66, 104099.	16.0	63
66	Functional additives for solid polymer electrolytes in flexible and high-energy-density solid-state lithium-ion batteries. , 2021, 3, 929-956.		63
67	Rheological and electrical behavior of poly(methyl methacrylate)/carbon black composites as investigated by creep recovery in shear. <i>Composites Science and Technology</i> , 2016, 128, 1-7.	7.8	61
68	Crystalline Structure of Injection Molded $\hat{\Gamma}^2$ -Isotactic Polypropylene: Analysis of the Oriented Shear Zone. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 11996-12002.	3.7	58
69	Viscoelastic and electrical behavior of poly(methyl methacrylate)/carbon black composites prior to and after annealing. <i>Polymer</i> , 2017, 113, 34-38.	3.8	58
70	In situ construction of hybrid $\text{Co}(\text{OH})_2$ nanowires for promoting long-term water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120063.	20.2	58
71	Flexible Ag Microparticle/MXene-Based Film for Energy Harvesting. <i>Nano-Micro Letters</i> , 2021, 13, 201.	27.0	57
72	Integrated POSS-dendrimer nanohybrid materials: current status and future perspective. <i>Nanoscale</i> , 2020, 12, 11395-11415.	5.6	55

#	ARTICLE	IF	CITATIONS
73	Intermolecular cooperativity and entanglement network in a miscible PLA/PMMA blend in the presence of nanosilica. <i>Polymer</i> , 2016, 82, 57-65.	3.8	54
74	Flexible hydrophobic 2D Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> -based transparent conductive film with multifunctional self-cleaning, electromagnetic interference shielding and joule heating capacities. <i>Composites Science and Technology</i> , 2021, 201, 108531.	7.8	54
75	Bimodal Tactile Sensor without Signal Fusion for User-Interactive Applications. <i>ACS Nano</i> , 2022, 16, 2789-2797.	14.6	54
76	Conductive Li <sub>3.08</sub> Cr <sub>0.02</sub> Si <sub>0.09</sub> V <sub>0.9</sub> O <sub>4</sub> Anode Material: Novel "Zero-Strain" Characteristic and Superior Electrochemical Li <sup>+</sup> Storage. <i>Advanced Energy Materials</i> , 2020, 10, 1904267.	19.5	53
77	Mechanoluminescent hybrids from a natural resource for energy-related applications. <i>Informa Mater</i> , 2021, 3, 1272-1284.	17.3	53
78	Steering electron transfer using interface engineering on front-illuminated robust BiVO <sub>4</sub> photoanodes. <i>Nano Energy</i> , 2021, 89, 106360.	16.0	53
79	Creep and recovery behavior of injection-molded isotactic polypropylene with controllable skin-core structure. <i>Polymer Testing</i> , 2018, 69, 478-484.	4.8	52
80	Shear-induced rheological and electrical properties of molten poly(methyl methacrylate)/carbon black nanocomposites. <i>Composites Part B: Engineering</i> , 2019, 164, 37-44.	12.0	52
81	Synergistic effect of polypyrrole functionalized graphene oxide and zinc phosphate for enhanced anticorrosion performance of epoxy coatings. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 130, 105752.	7.6	52
82	Fabrication of bimodal open-porous poly (butylene succinate)/cellulose nanocrystals composite scaffolds for tissue engineering application. <i>International Journal of Biological Macromolecules</i> , 2020, 147, 1164-1173.	7.5	52
83	Towards Long-Term Photostability of Nickel Hydroxide/BiVO <sub>4</sub> Photoanodes for Oxygen Evolution Catalysts via In-Situ Catalyst Tuning. <i>Angewandte Chemie</i> , 2020, 132, 6272-6277.	2.0	52
84	Bi-phase fire-resistant polyethylenimine/graphene oxide/melanin coatings using layer by layer assembly technique: Smoke suppression and thermal stability of flexible polyurethane foams. <i>Polymer</i> , 2019, 170, 65-75.	3.8	51
85	Synthetic Biopigment Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30360-30367.	8.0	50
86	High performance high-density polyethylene/hydroxyapatite nanocomposites for load-bearing bone substitute: fabrication, in vitro and in vivo biocompatibility evaluation. <i>Composites Science and Technology</i> , 2019, 175, 100-110.	7.8	50
87	Metal ion-promoted fabrication of melanin-like poly(L-DOPA) nanoparticles for photothermal actuation. <i>Science China Chemistry</i> , 2020, 63, 1295-1305.	8.2	50
88	Ultrasmall Nanoparticle ROS Scavengers Based on Polyhedral Oligomeric Silsesquioxanes. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 1149-1156.	3.8	49
89	Remarkably Strengthened microinjection molded linear low-density polyethylene (LLDPE) via multi-walled carbon nanotubes derived nanohybrid shish-kebab structure. <i>Composites Part B: Engineering</i> , 2019, 167, 362-369.	12.0	48
90	The fabrication of homogeneous perovskite films on non-wetting interfaces enabled by physical modification. <i>Journal of Energy Chemistry</i> , 2019, 38, 192-198.	12.9	48

#	ARTICLE	IF	CITATIONS
91	Epoxy coating with in-situ synthesis of polypyrrole functionalized graphene oxide for enhanced anticorrosive performance. <i>Progress in Organic Coatings</i> , 2020, 140, 105488.	3.9	48
92	Active Phase on SrCo <sub>1-x</sub> Fe <sub>x</sub> O <sub>3</sub> (0 ≤ x ≤ 0.5), Perovskite for Water Oxidation: Reconstructed Surface versus Remaining Bulk. <i>Jacs Au</i> , 2021, 1, 108-115.	7.9	47
93	Electrical conductivity behaviour of sheared poly(methyl methacrylate)/carbon black composites. <i>Composites Science and Technology</i> , 2014, 100, 99-104.	7.8	46
94	Tea stain-inspired solar energy harvesting polyphenolic nanocoatings with tunable absorption spectra. <i>Nano Research</i> , 2021, 14, 969-975.	10.4	46
95	Mapping the Electrical Conductivity of Poly(methyl methacrylate)/Carbon Black Composites Prior to and after Shear. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8857-8860.	8.0	45
96	Electrophoretic deposition of dexamethasone-loaded gelatin nanospheres/chitosan coating and its dual function in anti-inflammation and osteogenesis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 249-256.	5.0	45
97	Mechanical, Thermal, and Rheological Properties of Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene/Thermoplastic Polyurethane Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000343.	3.6	44
98	Natural polyphenol fluorescent polymer dots. <i>Green Chemistry</i> , 2021, 23, 1834-1839.	9.0	44
99	Encapsulation of Sulfur into N-Doped Porous Carbon Cages by a Facile, Template-Free Method for Stable Lithium-Sulfur Cathode. <i>Small</i> , 2020, 16, e2001027.	10.0	43
100	Synthetic melanin facilitates MnO supercapacitors with high specific capacitance and wide operation potential window. <i>Polymer</i> , 2021, 235, 124276.	3.8	43
101	Interface-Confined Surface Engineering via Photoelectrochemical Etching toward Solar Neutral Water Splitting. <i>ACS Catalysis</i> , 2022, 12, 1686-1696.	11.2	42
102	Water-endurable intercalated graphene oxide adsorbent with highly efficient uranium capture from acidic wastewater. <i>Separation and Purification Technology</i> , 2021, 263, 118364.	7.9	41
103	Micromechanical analysis of molecular orientation in high-temperature creep of polycarbonate. <i>Materials and Design</i> , 2018, 144, 25-31.	7.0	40
104	Novel highly active and self-healing Co(CO <sub>3</sub> ) <sub>x</sub> OH <sub>y</sub> cocatalysts on BiVO <sub>4</sub> photoanodes for effective solar water oxidation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2563-2570.	10.3	40
105	Antioxidant shape amphiphiles for accelerated wound healing. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7018-7023.	5.8	40
106	Metal-phenolic network green flame retardants. <i>Polymer</i> , 2021, 221, 123627.	3.8	40
107	Electrospun poly(vinyl alcohol)/silica film for radiative cooling. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1966-1975.	21.1	40
108	Morphological comparison of isotactic polypropylene molded by water-assisted and conventional injection molding. <i>Journal of Materials Science</i> , 2011, 46, 7830-7838.	3.7	39

#	ARTICLE	IF	CITATIONS
109	Ultrastable and high-performance seawater-based photoelectrolysis system for solar hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120883.	20.2	39
110	Size Regulation of Polydopamine Nanoparticles by Boronic Acid and Lewis Base. <i>Macromolecular Rapid Communications</i> , 2023, 44, e2100916.	3.9	39
111	Annealing Induced Mechanical Reinforcement of Injection Molded iPP Parts. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 1468-1472.	3.6	38
112	Ni nanoparticles/ $V_4C_3Tx$ MXene heterostructures for electrocatalytic nitrogen fixation. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2338-2346.	5.9	38
113	Atomically embedded Ag on transition metal hydroxides triggers the lattice oxygen towards sustained seawater electrolysis. <i>Nano Energy</i> , 2022, 98, 107212.	16.0	37
114	Interfacial Strain Engineering in Wide-Bandgap GeS Thin Films for Photovoltaics. <i>Journal of the American Chemical Society</i> , 2021, 143, 9664-9671.	13.7	36
115	Simple water tunable polyurethane microsphere for super-hydrophobic dip-coating and oil-water separation. <i>Polymer</i> , 2020, 204, 122833.	3.8	35
116	An Alternating Skin-Core Structure in Melt Multi-Injection Molded Polyethylene. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700465.	3.6	34
117	An ultra-light, superhydrophobic and thermal insulation ultra-high molecular weight polyethylene foam. <i>Polymer</i> , 2021, 218, 123528.	3.8	33
118	Managing Phase Orientation and Crystallinity of Printed Dion-Jacobson 2D Perovskite Layers via Controlling Crystallization Kinetics. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	33
119	Tungsten induced defects control on BiVO <sub>4</sub> photoanodes for enhanced solar water splitting performance and photocorrosion resistance. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120610.	20.2	32
120	Facile fabrication of durable superhydrophobic mesh via candle soot for oil-water separation. <i>Progress in Organic Coatings</i> , 2019, 136, 105253.	3.9	31
121	Roselle-like Zn <sub>2</sub> Ti <sub>3</sub> O <sub>8</sub> /rGO nanocomposite as anode for lithium ion capacitor. <i>Chemical Engineering Journal</i> , 2020, 385, 123881.	12.7	31
122	Vortex tuning magnetization configurations in porous Fe <sub>3</sub> O <sub>4</sub> nanotube with wide microwave absorption frequency. <i>Nano Research</i> , 2022, 15, 6743-6750.	10.4	31
123	Magnetic Interacted Interaction Effect in MXene Skeleton: Enhanced Thermal-Generation for Electromagnetic Interference Shielding. <i>Small</i> , 2022, 18, .	10.0	31
124	Temperature-resistivity characteristics of a segregated conductive CB/PP/UHMWPE composite. <i>Colloid and Polymer Science</i> , 2014, 292, 2891-2898.	2.1	30
125	Green Nanoparticle Scavengers against Oxidative Stress. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 39126-39134.	8.0	30
126	Electric Field-Assisted Orientation of Short Phosphate Glass Fibers on Stainless Steel for Biomedical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 11529-11538.	8.0	29



#	ARTICLE	IF	CITATIONS
127	The remarkably enhanced particle erosion resistance and toughness properties of glass fiber/epoxy composites via thermoplastic polyurethane nonwoven fabric. <i>Polymer Testing</i> , 2018, 69, 470-477.	4.8	28
128	Spiro-Linked Molecular Hole-Transport Materials for Highly Efficient Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900389.	5.8	28
129	Manganese-based oxygen evolution catalysts boosting stable solar-driven water splitting: MnSe as an intermetallic phase. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25298-25305.	10.3	28
130	Improved microwave absorption performance of a multi-dimensional Fe <sub>2</sub> O <sub>3</sub> /CNTCM@CN assembly achieved by enhanced dielectric relaxation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5715-5726.	5.5	28
131	Boosting the stability of BiVO <sub>4</sub> photoanodes: <i>in situ</i> cocatalyst passivation and immobilization by functional fluorine anions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6298-6305.	10.3	28
132	In Situ Formed Protective Layer: Toward a More Stable Interface between the Lithium Metal Anode and Li <sub>6</sub> PS <sub>5</sub> Cl Solid Electrolyte. <i>ACS Applied Energy Materials</i> , 2022, 5, 8428-8436.	5.1	28
133	Reversal phenomena of molten immiscible polymer blends during creep-recovery in shear. <i>Journal of Rheology</i> , 2017, 61, 759-767.	2.6	27
134	Multi-walled carbon nanotube in a miscible PEO/PMMA blend: Thermal and rheological behavior. <i>Polymer Testing</i> , 2019, 75, 367-372.	4.8	27
135	Natural methionine-passivated MAPbI <sub>3</sub> perovskite films for efficient and stable solar devices. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 1261-1269.	21.1	27
136	Overview of the Experimental Trends in Water-Assisted Injection Molding. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800035.	3.6	26
137	PVDF-Ni/PE-CNTs Composite Foams with Co-Continuous Structure for Electromagnetic Interference Shielding and Photo-Electro-Thermal Properties. <i>Engineered Science</i> , 2021, , .	2.3	26
138	Engineering polarization surface of hierarchical ZnO microspheres via spray-annealing strategy for wide-frequency electromagnetic wave absorption. <i>Journal of Materials Science and Technology</i> , 2022, 131, 231-239.	10.7	26
139	New insight into lamellar branching of Î <sup>2</sup> -nucleated isotactic polypropylene upon melt-stretching: WAXD and SAXS study. <i>Journal of Materials Science</i> , 2015, 50, 599-604.	3.7	25
140	Shear-Induced Skin-Core Structure of Molten Isotactic Polypropylene and the Formation of Î <sup>2</sup> -Crystal. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800083.	3.6	25
141	Heteroatoms-doped 3D carbon nanosphere cages embedded with MoS <sub>2</sub> for lithium-ion battery. <i>Electrochimica Acta</i> , 2020, 332, 135490.	5.2	25
142	Oxygen-Defective TiNb <sub>2</sub> O <sub>7</sub> Nanochains with Enlarged Lattice Spacing for High-Rate Lithium Ion Capacitor. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000705.	3.7	25
143	Novel synthesis of orange-red emitting copper nanoclusters stabilized by methionine as a fluorescent probe for norfloxacin sensing. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 236, 118334.	3.9	25
144	In situ XRD and electrochemical investigation on a new intercalation-type anode for high-rate lithium ion capacitor. <i>Journal of Energy Chemistry</i> , 2021, 57, 109-117.	12.9	25

#	ARTICLE	IF	CITATIONS
145	Interface-Constrained Layered Double Hydroxides for Stable Uranium Capture in Highly Acidic Industrial Wastewater. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 17988-17997.	8.0	25
146	Controllable design of nanoworm-like nickel sulfides for efficient electrochemical water splitting in alkaline media. <i>Materials Today Energy</i> , 2020, 18, 100573.	4.7	25
147	Atomic Short-Range Order in a Cation-Deficient Perovskite Anode for Fast-Charging and Long-Life Lithium-Ion Batteries. <i>Advanced Materials</i> , 2022, 34, e2200914.	21.0	25
148	Highly branched amylopectin binder for sulfur cathodes with enhanced performance and longevity. <i>Exploration</i> , 2022, 2, 20210131.	11.0	23
149	Enhanced orientation of the water-assisted injection-molded ipp in the presence of nucleating agent. <i>Polymer Engineering and Science</i> , 2012, 52, 725-732.	3.1	22
150	Molar mass and temperature dependence of rheological properties of polymethylmethacrylate melt. <i>Materials Letters</i> , 2018, 221, 62-65.	2.6	22
151	Reduction of charge carrier recombination by Ce gradient doping and surface polarization for solar water splitting. <i>Chemical Engineering Journal</i> , 2022, 448, 137602.	12.7	22
152	Unexpected molecular weight dependence of shish kebab in water-assisted injection molded HDPE. <i>Polymers for Advanced Technologies</i> , 2013, 24, 270-272.	3.2	21
153	Polyfluorene Copolymers as High-Performance Hole-Transport Materials for Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900384.	5.8	21
154	Porous $\text{Fe}_2\text{O}_3$ nanoparticles encapsulated within reduced graphene oxide as superior anode for lithium-ion battery. <i>Nanotechnology</i> , 2020, 31, 145404.	2.6	21
155	A bridging coordination of urea tailoring metal hydroxides oxygen evolution catalysts promotes stable solar water splitting. <i>Chemical Engineering Journal</i> , 2021, 426, 131062.	12.7	21
156	$\text{NiMoO}_x$ as a highly protective layer against photocorrosion for solar seawater splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1270-1277.	10.3	20
157	The hierarchical structure of water-assisted injection molded high density polyethylene: Small angle X-ray scattering study. <i>Journal of Applied Polymer Science</i> , 2012, 125, 2297-2303.	2.6	19
158	Conductivity and phase morphology of carbon black-filled immiscible polymer blends under creep: an experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32125-32131.	2.8	19
159	Interfacial engineering for metal oxide/nitride nano-heterojunctions towards high-rate lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7391-7398.	10.3	18
160	Superhydrophobic polycarbonate blend monolith with micro/nano porous structure for selective oil/water separation. <i>Polymer</i> , 2022, 253, 124994.	3.8	17
161	Twisted lamellae in water-assisted injection molded high density polyethylene. <i>Materials Letters</i> , 2016, 172, 19-22.	2.6	16
162	Electrophoretic deposition of core-shell $\text{Ag}@$ MSN incorporated-chitosan coatings with biocompatible and antibacterial activities. <i>Materials Letters</i> , 2019, 239, 29-32.	2.6	16

#	ARTICLE	IF	CITATIONS
163	Rationally constructing a hierarchical two-dimensional NiCo metal-organic framework/graphene hybrid for highly efficient Li <sup>+</sup> ion storage. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4589-4595.	5.9	16
164	Dynamic oscillatory rheological properties of polystyrene/poly(methyl methacrylate) blends and their composites in the presence of carbon black. <i>Engineered Science</i> , 2018, , .	2.3	16
165	Morphology-Evolved Succulent-like FeCo Microarchitectures with Magnetic Configuration Regulation for Enhanced Microwave Absorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 32369-32378.	8.0	16
166	Oil-Water Separation Polypropylene Foam with Advanced Solvent-Evaporation Induced Coexistence of Microspheres and Microporous Structure. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200177.	3.9	15
167	Molecular orientation dependent dynamic viscoelasticity in uni-axially drawn polycarbonate. <i>Polymer Testing</i> , 2018, 69, 528-535.	4.8	14
168	l-Arginine/nanofish bone nanocomplex enhances bone regeneration via antioxidant activities and osteoimmunomodulatory properties. <i>Chinese Chemical Letters</i> , 2021, 32, 234-238.	9.0	14
169	Crystalline structure and remarkably enhanced tensile property of $\beta$ -isotactic polypropylene via overflow microinjection molding. <i>Polymer Testing</i> , 2019, 76, 448-454.	4.8	13
170	Pb/C Composite with Spherical Pb Nanoparticles Encapsulated in Carbon Microspheres as a High-Performance Anode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 7416-7426.	5.1	13
171	Effect of small amount of multi-walled carbon nanotubes on crystallization and thermal-mechanical properties of overflow microinjection molded isotactic polypropylene. <i>Composites Communications</i> , 2020, 21, 100381.	6.3	13
172	Poly (vinyl alcohol)/Graphene Nanocomposite Hydrogel Scaffolds for Control of Cell Adhesion. <i>Journal of Renewable Materials</i> , 2020, 8, 89-99.	2.2	13
173	Microspheres Modified with Superhydrophobic Non-Woven Fabric with High-Efficiency Oil-Water Separation: Controlled Water Content in PLA Solution. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	12
174	Influence of the pressure-dependent contact area between electrode and composite surface on the electrical conductivity. <i>Composite Structures</i> , 2016, 136, 414-418.	5.8	11
175	Facile Route to Improve the Crystalline Memory Effect: Electrospun Composite Fiber and Annealing. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800236.	2.2	11
176	Synergy effects between Sn and SiO <sub>2</sub> on enhancing the anti-poison ability to CO for ethanol electrooxidation. <i>Electrochimica Acta</i> , 2019, 302, 145-152.	5.2	11
177	Phosphate glass fibers facilitate proliferation and osteogenesis through Runx2 transcription in murine osteoblastic cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 316-326.	4.0	11
178	Building and testing a simple setup to investigate the electrical properties of polymer/carbon black composites. <i>Composite Structures</i> , 2015, 129, 55-59.	5.8	9
179	Suppression of the hierarchical structure of water-assisted injection moulded iPP in the presence of a $\beta$ -nucleating agent and lamellar branching of a $\beta$ -crystal. <i>RSC Advances</i> , 2016, 6, 68969-68972.	3.6	9
180	A general strategy towards transition metal nitrides (TMNs)/rGO nanocomposites for superior lithium ion storage. <i>Journal of Alloys and Compounds</i> , 2021, 865, 158968.	5.5	9

#	ARTICLE	IF	CITATIONS
181	Performance Improvement of Li <sub>6</sub> PS <sub>5</sub> Cl Solid Electrolyte Modified by Poly(ethylene oxide)-Based Composite Polymer Electrolyte with ZSM-5 Molecular Sieves. ACS Applied Energy Materials, 2022, 5, 2356-2365.	5.1	9
182	A Facile Flow-Casting Production of Bioactive Glass Coatings on Porous Titanium for Bone Tissue Engineering. Materials, 2018, 11, 1540.	2.9	8
183	Selective assembly of magnetic nano-antenna for electromagnetic dissipation. Journal of Materials Chemistry A, 2022, 10, 10909-10915.	10.3	8
184	Domino Effect of Thickness Fluctuation on Subband Structure and Electron Transport within Semiconductor Cascade Structures. ACS Applied Materials & Interfaces, 2020, 12, 41950-41959.	8.0	7
185	Electrical conductivity of anisotropic PMMA composite filaments with aligned carbon fibers â€“ predicting the influence of measurement direction. RSC Advances, 2020, 10, 4156-4165.	3.6	7
186	The role of conductive pathways in the conductivity and rheological behavior of poly(methyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	2.6	6
187	Understanding the role of interface in advanced semiconductor nanostructure and its interplay with wave function overlap. Nano Research, 2020, 13, 1536-1543.	10.4	6
188	Photoâ€“driven Oxygen Vacancies Extends Charge Carrier Lifetime for Efficient Solar Water Splitting. Angewandte Chemie, 2021, 133, 17742-17748.	2.0	6
189	Sustainable â€“Sweet and Saltyâ€“Synthesis of Hierarchical Porous Carbon for Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2022, 5, 4991-5001.	5.1	6
190	Identifying the Crystalline Orientation of Mechanically Exfoliated Anisotropic Layered Materials through Their Morphologies. Advanced Materials Interfaces, 2020, 7, 2000612.	3.7	5
191	Synergetic effect of nanoclay and nano-CaCO <sub>3</sub> hybrid filler systems on the foaming properties and cellular structure of polystyrene nanocomposite foams using supercritical CO <sub>2</sub> . Frontiers in Forests and Global Change, 2020, 39, 185-202.	1.1	5
192	MoS <sub>2</sub> Nanosheets uniformly grown on polyphosphazene-derived carbon nanospheres for lithium-ion batteries. Surfaces and Interfaces, 2021, 24, 101034.	3.0	5
193	Facile Construction of Copper Mesh Surface from Superhydrophilic to Superhydrophobic for Various Oil-Water Separations. Engineered Science, 2019, , .	2.3	5
194	Dynamic viscoelasticity and molecular orientation in uniaxially drawn PC/PET blends. Journal of Applied Polymer Science, 2019, 136, 47514.	2.6	4
195	The thermal management of wearable and stretchable electronics. Science Bulletin, 2021, 66, 301-302.	9.0	4
196	Promising commercial fabrics with radiative cooling for personal thermal management. Science Bulletin, 2022, 67, 229-231.	9.0	4
197	Wide-bandgap perovskites for indoor photovoltaics. Science Bulletin, 2021, 66, 2047-2049.	9.0	4
198	Zero-strain Ca <sub>0.4</sub> Ce <sub>0.6</sub> VO <sub>4</sub> anode material for high capacity and long-life Na-ion batteries. Journal of Materials Chemistry A, 2021, 9, 25663-25671.	10.3	4

#	ARTICLE	IF	CITATIONS
199	A polymer cage as an efficient polysulfide reservoir for lithium-sulfur batteries. <i>Chemical Communications</i> , 2019, 55, 12499-12502.	4.1	3
200	Constructing N-Doped graphene supported MoS <sub>2</sub> @Ni <sub>3</sub> S <sub>4</sub> for pseudocapacitive sodium-ion storage with high rate and long life. <i>Materials Today Chemistry</i> , 2022, 23, 100713.	3.5	3
201	Electrical conductivity and rheological properties of carbon black based conductive polymer composites prior to and after annealing. <i>Polymers and Polymer Composites</i> , 0, , 096739112110012.	1.9	2
202	Creep behavior and mechanical properties of isotactic polypropylene composites via twice melt injection molding. <i>Advanced Industrial and Engineering Polymer Research</i> , 2019, 2, 102-109.	4.7	1
203	Large-scale formation of shish-kebab in water-assisted injection-moulded high-density polyethylene with a high-molecular weight. <i>Bulletin of Materials Science</i> , 2019, 42, 1.	1.7	1
204	Advancing the open-circuit voltage of tin halide perovskites via tailoring electron transport layer. <i>Science Bulletin</i> , 2021, 66, 204-205.	9.0	0
205	Influence of UVB-Irradiation on the Structures and Solid Particle Erosion Resistance for CF/PC Composites. <i>Journal of Materials Science and Chemical Engineering</i> , 2020, 08, 1-7.	0.4	0