

Chun-Tai Liu

List of Publications by Citations

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502
papers

19,867
citations

73
h-index

119
g-index

531
ext. papers

27,303
ext. citations

7.4
avg. IF

7.63
L-index

#	Paper	IF	Citations
502	A review on fundamentals for designing oxygen evolution electrocatalysts. <i>Chemical Society Reviews</i> , 2020 , 49, 2196-2214	58.5	591
501	Lightweight conductive graphene/thermoplastic polyurethane foams with ultrahigh compressibility for piezoresistive sensing. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 73-83	7.1	477
500	Electrically conductive thermoplastic elastomer nanocomposites at ultralow graphene loading levels for strain sensor applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 157-166	7.1	413
499	Overview of carbon nanostructures and nanocomposites for electromagnetic wave shielding. <i>Carbon</i> , 2018 , 140, 696-733	10.4	403
498	Electrically conductive strain sensing polyurethane nanocomposites with synergistic carbon nanotubes and graphene bifillers. <i>Nanoscale</i> , 2016 , 8, 12977-89	7.7	364
497	Electrically conductive polymer composites for smart flexible strain sensors: a critical review. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12121-12141	7.1	359
496	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	7.1	301
495	Ultralight, highly compressible and fire-retardant graphene aerogel with self-adjustable electromagnetic wave absorption. <i>Carbon</i> , 2018 , 139, 1126-1135	10.4	245
494	Ultrasensitive and Highly Compressible Piezoresistive Sensor Based on Polyurethane Sponge Coated with a Cracked Cellulose Nanofibril/Silver Nanowire Layer. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 10922-10932	9.5	242
493	Flexible electrically resistive-type strain sensors based on reduced graphene oxide-decorated electrospun polymer fibrous mats for human motion monitoring. <i>Carbon</i> , 2018 , 126, 360-371	10.4	242
492	The effect of filler dimensionality on the electromechanical performance of polydimethylsiloxane based conductive nanocomposites for flexible strain sensors. <i>Composites Science and Technology</i> , 2017 , 139, 64-73	8.6	222
491	Reinforced carbon fiber laminates with oriented carbon nanotube epoxy nanocomposites: Magnetic field assisted alignment and cryogenic temperature mechanical properties. <i>Journal of Colloid and Interface Science</i> , 2018 , 517, 40-51	9.3	222
490	Carbon Nanotubes-Adsorbed Electrospun PA66 Nanofiber Bundles with Improved Conductivity and Robust Flexibility. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14150-9	9.5	216
489	Non-covalently functionalized graphene strengthened poly(vinyl alcohol). <i>Materials and Design</i> , 2018 , 139, 372-379	8.1	207
488	Comparative assessment of the strain-sensing behaviors of polylactic acid nanocomposites: reduced graphene oxide or carbon nanotubes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2318-2328	7.1	202
487	A highly stretchable and stable strain sensor based on hybrid carbon nanofillers/polydimethylsiloxane conductive composites for large human motions monitoring. <i>Composites Science and Technology</i> , 2018 , 156, 276-286	8.6	199
486	One-pot synthesized molybdenum dioxide/holybdenum carbide heterostructures coupled with 3D holey carbon nanosheets for highly efficient and ultrastable cycling lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13460-13472	13	185

485	Promising TiCT MXene/Ni Chain Hybrid with Excellent Electromagnetic Wave Absorption and Shielding Capacity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25399-25409	9.5	183
484	Flexible, Robust, and Multifunctional Electromagnetic Interference Shielding Film with Alternating Cellulose Nanofiber and MXene Layers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4895-4905	9.5	183
483	Organic vapor sensing behaviors of conductive thermoplastic polyurethane/graphene nanocomposites. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 4459-4469	7.1	179
482	High-Performance Flexible Freestanding Anode with Hierarchical 3D Carbon-Networks/Fe S /Graphene for Applicable Sodium-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1806664	24	173
481	Carbon nanospheres induced high negative permittivity in nanosilver-polydopamine metacomposites. <i>Carbon</i> , 2019 , 147, 550-558	10.4	165
480	Superhydrophobic Electrically Conductive Paper for Ultrasensitive Strain Sensor with Excellent Anticorrosion and Self-Cleaning Property. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21904-21914	9.5	162
479	An overview of lead-free piezoelectric materials and devices. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12446-12467	7.1	162
478	Flexible and Lightweight Pressure Sensor Based on Carbon Nanotube/Thermoplastic Polyurethane-Aligned Conductive Foam with Superior Compressibility and Stability. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42266-42277	9.5	159
477	Superhydrophobic/Superoleophilic Polycarbonate/Carbon Nanotubes Porous Monolith for Selective Oil Adsorption from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13747-13755	8.3	158
476	Stretchable conductive nonwoven fabrics with self-cleaning capability for tunable wearable strain sensor. <i>Nano Energy</i> , 2019 , 66, 104143	17.1	154
475	Multifunctional Magnetic TiCT MXene/Graphene Aerogel with Superior Electromagnetic Wave Absorption Performance. <i>ACS Nano</i> , 2021 , 15, 6622-6632	16.7	144
474	Significant Stretchability Enhancement of a Crack-Based Strain Sensor Combined with High Sensitivity and Superior Durability for Motion Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7405-7414	9.5	141
473	Recent Progress on the Alloy-Based Anode for Sodium-Ion Batteries and Potassium-Ion Batteries. <i>Small</i> , 2021 , 17, e1903194	11	140
472	Synergistic effect induced ultrafine SnO ₂ /graphene nanocomposite as an advanced lithium/sodium-ion batteries anode. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10027-10038	13	136
471	An overview of metamaterials and their achievements in wireless power transfer. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2925-2943	7.1	135
470	Highly Compressible and Robust Polyimide/Carbon Nanotube Composite Aerogel for High-Performance Wearable Pressure Sensor. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42594-42606	9.5	134
469	Trace electrospayed nanopolystyrene facilitated dispersion of multiwalled carbon nanotubes: Simultaneously strengthening and toughening epoxy. <i>Carbon</i> , 2019 , 142, 131-140	10.4	133
468	Micro-crack behavior of carbon fiber reinforced Fe ₃ O ₄ /graphene oxide modified epoxy composites for cryogenic application. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 108, 12-22	8.4	131

467	Superhydrophobic Shish-kebab Membrane with Self-Cleaning and Oil/Water Separation Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9866-9875	8.3	130
466	Electrically conductive thermoplastic polyurethane/polypropylene nanocomposites with selectively distributed graphene. <i>Polymer</i> , 2016 , 97, 11-19	3.9	129
465	Thermoplastic polyurethane-carbon black nanocomposite coating: Fabrication and solid particle erosion resistance. <i>Polymer</i> , 2018 , 158, 381-390	3.9	129
464	Lightweight, Superelastic, and Hydrophobic Polyimide Nanofiber /MXene Composite Aerogel for Wearable Piezoresistive Sensor and Oil/Water Separation Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2008006	15.6	127
463	A comparison between strain sensing behaviors of carbon black/polypropylene and carbon nanotubes/polypropylene electrically conductive composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 48, 129-136	8.4	118
462	Flexible MXene/Silver Nanowire-Based Transparent Conductive Film with Electromagnetic Interference Shielding and Electro-Photo-Thermal Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40859-40869	9.5	117
461	Smart strain sensing organic/inorganic hybrid hydrogels with nano barium ferrite as the cross-linker. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2353-2360	7.1	116
460	Highly stretchable and durable strain sensor based on carbon nanotubes decorated thermoplastic polyurethane fibrous network with aligned wave-like structure. <i>Chemical Engineering Journal</i> , 2019 , 360, 762-777	14.7	116
459	Conductive thermoplastic polyurethane composites with tunable piezoresistivity by modulating the filler dimensionality for flexible strain sensors. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 101, 41-49	8.4	110
458	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	13.9	106
457	Pitch-Derived Soft Carbon as Stable Anode Material for Potassium Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e2000505	24	105
456	Interfacing Epitaxial Dinickel Phosphide to 2D Nickel Thiophosphate Nanosheets for Boosting Electrocatalytic Water Splitting. <i>ACS Nano</i> , 2019 , 13, 7975-7984	16.7	104
455	Pyrite FeS ₂ microspheres anchoring on reduced graphene oxide aerogel as an enhanced electrode material for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5332-5341	13	100
454	Synergetic Improvement in Thermal Conductivity and Flame Retardancy of Epoxy/Silver Nanowires Composites by Incorporating "Branch-Like" Flame-Retardant Functionalized Graphene. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21628-21641	9.5	100
453	Enhanced Electromagnetic Wave-Absorbing Performance of Magnetic Nanoparticles-Anchored 2D TiCT MXene. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2644-2654	9.5	98
452	Superhydrophobic and superoleophilic porous reduced graphene oxide/polycarbonate monoliths for high-efficiency oil/water separation. <i>Journal of Hazardous Materials</i> , 2018 , 344, 849-856	12.8	98
451	Flexible conductive Ag nanowire/cellulose nanofibril hybrid nanopaper for strain and temperature sensing applications. <i>Science Bulletin</i> , 2020 , 65, 899-908	10.6	95
450	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	8.7	94

449	Porous Polyethylene Bundles with Enhanced Hydrophobicity and Pumping Oil-Recovery Ability via Skin-Peeling. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12580-12585	8.3	93
448	Ultra-stretchable triboelectric nanogenerator as high-sensitive and self-powered electronic skins for energy harvesting and tactile sensing. <i>Nano Energy</i> , 2020 , 70, 104546	17.1	91
447	Ultra-stretchable, sensitive and durable strain sensors based on polydopamine encapsulated carbon nanotubes/elastic bands. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8160-8170	7.1	91
446	Multifunctions of Polymer Nanocomposites: Environmental Remediation, Electromagnetic Interference Shielding, And Sensing Applications. <i>ChemNanoMat</i> , 2020 , 6, 174-184	3.5	89
445	A highly stretchable carbon nanotubes/thermoplastic polyurethane fiber-shaped strain sensor with porous structure for human motion monitoring. <i>Composites Science and Technology</i> , 2018 , 168, 126-132	8.6	89
444	Cobalt-based electrode materials for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 370, 185-207	17.1	87
443	Ultra-Stretchable, durable and conductive hydrogel with hybrid double network as high performance strain sensor and stretchable triboelectric nanogenerator. <i>Nano Energy</i> , 2020 , 76, 105035	17.1	87
442	Detection of non-joint areas tiny strain and anti-interference voice recognition by micro-cracked metal thin film. <i>Nano Energy</i> , 2017 , 34, 578-585	17.1	83
441	A Highly Sensitive and Stretchable Yarn Strain Sensor for Human Motion Tracking Utilizing a Wrinkle-Assisted Crack Structure. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36052-36062	9.5	82
440	Multifunctional flexible carbon black/polydimethylsiloxane piezoresistive sensor with ultrahigh linear range, excellent durability and oil/water separation capability. <i>Chemical Engineering Journal</i> , 2019 , 372, 373-382	14.7	81
439	Flexible conductive MXene/cellulose nanocrystal coated nonwoven fabrics for tunable wearable strain/pressure sensors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21131-21141	13	80
438	Friction and Wear of MoO ₃ /Graphene Oxide Modified Glass Fiber Reinforced Epoxy Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900166	3.9	79
437	A tunable strain sensor based on a carbon nanotubes/electrospun polyamide 6 conductive nanofibrous network embedded into poly(vinyl alcohol) with self-diagnosis capabilities. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4408-4418	7.1	77
436	Facile Fabrication of Superhydrophobic and Eco-Friendly Poly(lactic acid) Foam for Oil-Water Separation via Skin Peeling. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14362-14367	9.5	77
435	A flexible and self-formed sandwich structure strain sensor based on AgNW decorated electrospun fibrous mats with excellent sensing capability and good oxidation inhibition properties. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 7035-7042	7.1	77
434	An overview of graphene and its derivatives reinforced metal matrix composites: Preparation, properties and applications. <i>Carbon</i> , 2020 , 170, 302-326	10.4	77
433	Structural characterization of lignin and its carbohydrate complexes isolated from bamboo (<i>Dendrocalamus sinicus</i>). <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 376-384	7.9	76
432	Strain sensing behaviors of epoxy nanocomposites with carbon nanotubes under cyclic deformation. <i>Polymer</i> , 2017 , 112, 1-9	3.9	75

431	Effect of MoO ₃ /carbon nanotubes on friction and wear performance of glass fabric-reinforced epoxy composites under dry sliding. <i>Applied Surface Science</i> , 2020 , 506, 144946	6.7	75
430	Flexible polyvinylidene fluoride film with alternating oriented graphene/Ni nanochains for electromagnetic interference shielding and thermal management. <i>Chemical Engineering Journal</i> , 2020 , 395, 125209	14.7	74
429	Amorphous/Crystalline Heterostructured Cobalt-Vanadium-Iron (Oxy)hydroxides for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2020 , 10, 2002215	21.8	73
428	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. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800635	4.8	73
427	Catalytic Conversion of Polysulfides on Single Atom Zinc Implanted MXene toward High-Rate Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2002471	15.6	72
426	Conductive herringbone structure carbon nanotube/thermoplastic polyurethane porous foam tuned by epoxy for high performance flexible piezoresistive sensor. <i>Composites Science and Technology</i> , 2017 , 149, 166-177	8.6	71
425	Flexible and wearable carbon black/thermoplastic polyurethane foam with a pinnate-veined aligned porous structure for multifunctional piezoresistive sensors. <i>Chemical Engineering Journal</i> , 2020 , 382, 122985	14.7	71
424	Enhanced piezoresistive performance of conductive WPU/CNT composite foam through incorporating brittle cellulose nanocrystal. <i>Chemical Engineering Journal</i> , 2020 , 387, 124045	14.7	69
423	Piezoresistive behavior of porous carbon nanotube-thermoplastic polyurethane conductive nanocomposites with ultrahigh compressibility. <i>Applied Physics Letters</i> , 2016 , 108, 011904	3.4	69
422	Conductive MXene/cotton fabric based pressure sensor with both high sensitivity and wide sensing range for human motion detection and E-skin. <i>Chemical Engineering Journal</i> , 2021 , 420, 127720	14.7	69
421	Biomimetic composite scaffolds based on mineralization of hydroxyapatite on electrospun poly(ϵ -caprolactone)/nanocellulose fibers. <i>Carbohydrate Polymers</i> , 2016 , 143, 270-8	10.3	68
420	An Overview of Electrically Conductive Polymer Nanocomposites toward Electromagnetic Interference Shielding. <i>Engineered Science</i> , 2018 ,	3.8	67
419	Structural characterization of lignin from <i>D. sinicus</i> by FTIR and NMR techniques. <i>Green Chemistry Letters and Reviews</i> , 2019 , 12, 235-243	4.7	66
418	Continuously fabricated transparent conductive polycarbonate/carbon nanotube nanocomposite films for switchable thermochromic applications. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8360-8371	7.1	65
417	Three-dimensional CuS hierarchical architectures as recyclable catalysts for dye decolorization. <i>CrystEngComm</i> , 2012 , 14, 3965	3.3	65
416	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	8.7	65
415	Multiple synergistic effects of graphene-based hybrid and hexagonal boron nitride in enhancing thermal conductivity and flame retardancy of epoxy. <i>Chemical Engineering Journal</i> , 2020 , 379, 122402	14.7	65
414	Flexible conductive polymer composites for smart wearable strain sensors. <i>SmartMat</i> , 2020 , 1, e1010	22.8	63

413	Mechanical enhancement of melt-stretched β -nucleated isotactic polypropylene: The role of lamellar branching of β -crystal. <i>Polymer Testing</i> , 2017 , 58, 227-235	4.5	62
412	Continuous fabrication of polymer microfiber bundles with interconnected microchannels for oil/water separation. <i>Applied Materials Today</i> , 2017 , 9, 77-81	6.6	61
411	High-Performance Wearable Strain Sensor Based on Graphene/Cotton Fabric with High Durability and Low Detection Limit. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1474-1485	9.5	61
410	Design of Helically Double-Levelled Gaps for Stretchable Fiber Strain Sensor with Ultralow Detection Limit, Broad Sensing Range, and High Repeatability. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4345-4352	9.5	61
409	Enhancing thermal oxidation and fire resistance of reduced graphene oxide by phosphorus and nitrogen co-doping: Mechanism and kinetic analysis. <i>Carbon</i> , 2019 , 146, 650-659	10.4	60
408	Self-reinforcing and toughening isotactic polypropylene via melt sequential injection molding. <i>Polymer Testing</i> , 2018 , 67, 183-189	4.5	59
407	Facile and scalable synthesis of low-cost FeS@C as long-cycle anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19709-19718	13	59
406	3D hierarchically patterned tubular NiSe with nano-/microstructures for Li ion battery design. <i>Dalton Transactions</i> , 2012 , 41, 12595-600	4.3	59
405	Environment Tolerant Conductive Nanocomposite Organohydrogels as Flexible Strain Sensors and Power Sources for Sustainable Electronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2101696	15.6	59
404	Bimetal-MOF nanosheets as efficient bifunctional electrocatalysts for oxygen evolution and nitrogen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3658-3666	13	57
403	Experimental study on thermal expansion coefficient of composite multi-layered flaky gun propellants. <i>Composites Part B: Engineering</i> , 2019 , 166, 428-435	10	57
402	Tuning of vapor sensing behaviors of eco-friendly conductive polymer composites utilizing ramie fiber. <i>Sensors and Actuators B: Chemical</i> , 2015 , 221, 1279-1289	8.5	56
401	3D porous nano/micro nickel sulfides with hierarchical structure: controlled synthesis, structure characterization and electrochemical properties. <i>Dalton Transactions</i> , 2013 , 42, 5724-30	4.3	56
400	Thermal degradation mechanism and kinetics of polycarbonate/silica nanocomposites. <i>Polymer Degradation and Stability</i> , 2014 , 107, 129-138	4.7	55
399	Crystalline Structure of Injection Molded β -isotactic Polypropylene: Analysis of the Oriented Shear Zone. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 11996-12002	3.9	55
398	Multifunctional stretchable strain sensor based on polydopamine/ reduced graphene oxide/ electrospun thermoplastic polyurethane fibrous mats for human motion detection and environment monitoring. <i>Composites Part B: Engineering</i> , 2020 , 183, 107696	10	55
397	Efficient Nitrate Synthesis via Ambient Nitrogen Oxidation with Ru-Doped TiO ₂ /RuO ₄ Electrocatalysts. <i>Advanced Materials</i> , 2020 , 32, e2002189	24	55
396	An asymmetric sandwich structural cellulose-based film with self-supported MXene and AgNW layers for flexible electromagnetic interference shielding and thermal management. <i>Nanoscale</i> , 2021 , 13, 2378-2388	7.7	54

395	Electrospun Flexible Cellulose Acetate-Based Separators for Sodium-Ion Batteries with Ultralong Cycle Stability and Excellent Wettability: The Role of Interface Chemical Groups. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23883-23890	9.5	53
394	Ultrastretchable Multilayered Fiber with a Hollow-Monolith Structure for High-Performance Strain Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34592-34603	9.5	53
393	Viscoelastic and electrical behavior of poly(methyl methacrylate)/carbon black composites prior to and after annealing. <i>Polymer</i> , 2017 , 113, 34-38	3.9	52
392	Heating-induced negative temperature coefficient effect in conductive graphene/polymer ternary nanocomposites with a segregated and double-percolated structure. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8233-8242	7.1	51
391	Ultra-High Initial Coulombic Efficiency Induced by Interface Engineering Enables Rapid, Stable Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11481-11486	16.4	51
390	MXene-Based Mesoporous Nanosheets Toward Superior Lithium Ion Conductors. <i>Advanced Energy Materials</i> , 2020 , 10, 1903534	21.8	50
389	Simple fabrication of superhydrophobic PLA with honeycomb-like structures for high-efficiency oil-water separation. <i>Chinese Chemical Letters</i> , 2020 , 31, 365-368	8.1	50
388	Aligned flexible conductive fibrous networks for highly sensitive, ultrastretchable and wearable strain sensors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6575-6583	7.1	50
387	The Cooperative Effect of Both Molecular and Supramolecular Chirality on Cell Adhesion. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6475-6479	16.4	48
386	Ultrasensitive strain sensor based on superhydrophobic microcracked conductive Ti3C2T MXene/paper for human-motion monitoring and E-skin. <i>Science Bulletin</i> , 2021 , 66, 1849-1857	10.6	48
385	Highly Stretchable, Transparent, and Bio-Friendly Strain Sensor Based on Self-Recovery Ionic-Covalent Hydrogels for Human Motion Monitoring. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900227	3.9	47
384	Ultrathin, flexible transparent Joule heater with fast response time based on single-walled carbon nanotubes/poly(vinyl alcohol) film. <i>Composites Science and Technology</i> , 2019 , 183, 107796	8.6	47
383	Interfacial interaction enhancement by shear-induced Etylindrite in isotactic polypropylene/glass fiber composites. <i>Polymer</i> , 2016 , 100, 111-118	3.9	45
382	Ultra-sensitive and durable strain sensor with sandwich structure and excellent anti-interference ability for wearable electronic skins. <i>Composites Science and Technology</i> , 2020 , 200, 108448	8.6	44
381	Antiferromagnetic Inverse Spinel Oxide LiCoVO with Spin-Polarized Channels for Water Oxidation. <i>Advanced Materials</i> , 2020 , 32, e1907976	24	44
380	The effect of nanoclay on the crystallization behavior, microcellular structure, and mechanical properties of thermoplastic polyurethane nanocomposite foams. <i>Polymer Engineering and Science</i> , 2016 , 56, 319-327	2.3	43
379	Creep and recovery behavior of injection-molded isotactic polypropylene with controllable skin-core structure. <i>Polymer Testing</i> , 2018 , 69, 478-484	4.5	43
378	Recent progress of emerging cathode materials for sodium ion batteries. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 3735-3764	7.8	43

377	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	10	42
376	Remarkably anisotropic conductive MWCNTs/polypropylene nanocomposites with alternating microlayers. <i>Chemical Engineering Journal</i> , 2019 , 358, 924-935	14.7	42
375	Cellulose-based Ni-decorated graphene magnetic film for electromagnetic interference shielding. <i>Journal of Colloid and Interface Science</i> , 2021 , 583, 571-578	9.3	42
374	Segregated conductive polymer composite with synergistically electrical and mechanical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 105, 68-77	8.4	42
373	Enhanced Solid Particle Erosion Properties of Thermoplastic Polyurethane-Carbon Nanotube Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1900010	3.9	41
372	Embracing high performance potassium-ion batteries with phosphorus-based electrodes: a review. <i>Nanoscale</i> , 2019 , 11, 15402-15417	7.7	41
371	Flexible and alternant-layered cellulose nanofiber/graphene film with superior thermal conductivity and efficient electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 139, 106134	8.4	41
370	An All-Organic D-A System for Visible-Light-Driven Overall Water Splitting. <i>Small</i> , 2020 , 16, e2003914	11	41
369	Selective Etching Quaternary MAX Phase toward Single Atom Copper Immobilized MXene (TiCCl) for Efficient CO Electroreduction to Methanol. <i>ACS Nano</i> , 2021 , 15, 4927-4936	16.7	41
368	Memory effect on the crystallization behavior of poly(lactic acid) probed by infrared spectroscopy. <i>European Polymer Journal</i> , 2017 , 91, 376-385	5.2	40
367	Facile fabrication of triboelectric nanogenerator based on low-cost thermoplastic polymeric fabrics for large-area energy harvesting and self-powered sensing. <i>Nano Energy</i> , 2019 , 65, 104068	17.1	40
366	Synergies among the self-assembled nucleating agent and the sheared isotactic polypropylene matrix. <i>Polymer</i> , 2015 , 60, 40-49	3.9	40
365	Shear-induced rheological and electrical properties of molten poly(methyl methacrylate)/carbon black nanocomposites. <i>Composites Part B: Engineering</i> , 2019 , 164, 37-44	10	40
364	Enhancing the Performance of a Stretchable and Transparent Triboelectric Nanogenerator by Optimizing the Hydrogel Ionic Electrode Property. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23474-23483	9.5	39
363	Interface engineering in transition metal carbides for electrocatalytic hydrogen generation and nitrogen fixation. <i>Materials Horizons</i> , 2020 , 7, 32-53	14.4	39
362	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	10	39
361	Ultra-Stretchable Porous Fiber-Shaped Strain Sensor with Exponential Response in Full Sensing Range and Excellent Anti-Interference Ability toward Buckling, Torsion, Temperature, and Humidity. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900538	6.4	38
360	Strain-Engineering of Bi ₂ O ₃ /Br ₂ Nanotubes for Boosting Photocatalytic CO ₂ Reduction 2020 , 2, 1025-1032		38

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201	Multifunctional MXene/CNTs based flexible electronic textile with excellent strain sensing, electromagnetic interference shielding and Joule heating performances. <i>Chemical Engineering Journal</i> , 2022 , 438, 135587	14.7	13
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63	Solid particle erosion resistance and electromagnetic shielding performance of carbon fiber reinforced polycarbonate composites. <i>Materials Research Express</i> , 2020 , 7, 045305	1.7	2
62	Structure and Mechanical Properties of Multi-Walled Carbon Nanotubes-Filled Isotactic Polypropylene Composites Treated by Pressurization at Different Rates. <i>Polymers</i> , 2019 , 11,	4.5	2
61	Comparative Study of Strain Sensing Behaviors of Carbon Black/Polypropylene and Carbon Nanotubes/Polypropylene with Different Tensile Speeds. <i>Polymer-Plastics Technology and Engineering</i> , 2013 , 52, 1303-1307		2
60	Fabrication of wrinkled thermoplastic polyurethane foams by dynamic supercritical carbon dioxide foaming. <i>Journal of Supercritical Fluids</i> , 2022 , 180, 105429	4.2	2
59	Breakup of a Viscoelastic Droplet in Co-Rotating Non-Twin Screw Channels. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15075-15086	3.9	2
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57	Enhanced interfacial and mechanical property of biodegradable poly(butylene succinate) film via introducing ultrahigh molecular weight polyethylene shish-kebab fibers. <i>Materials Research Express</i> , 2019 , 6, 125374	1.7	2
56	The retardation effects of lamellar slip or/and chain slip on void initiation during uniaxial stretching of oriented iPP. <i>Polymer</i> , 2021 , 215, 123342	3.9	2
55	Biodegradable PLA/CNTs/Ti3C2Tx MXene nanocomposites for efficient electromagnetic interference shielding. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	2
54	Markedly improved hydrophobicity of cellulose film via a simple one-step aminosilane-assisted ball milling. <i>Carbohydrate Polymers</i> , 2022 , 275, 118701	10.3	2

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52	Crystallization behavior of poly(lactic acid) and its blends. <i>Polymer Crystallization</i> , 2021, 4, e10171	0.9	2
51	Direct drop-casting synthesis of all-inorganic lead and lead-free halide perovskite microcrystals for high-performance photodetectors. <i>Nano Research</i> , 2022, 15, 3621-3627	10	2
50	Mechanically robust and conductive poly(acrylamide) nanocomposite hydrogel by the synergistic effect of vinyl hybrid silica nanoparticle and polypyrrole for human motion sensing. <i>Advanced Composites and Hybrid Materials</i> , 1	8.7	2
49	Investigation on the accelerating effect of two-dimensional boron nitride on the phase transition from form II to I in isotactic polybutene-1. <i>Polymer</i> , 2022, 125008	3.9	2
48	Revitalized Form crystal during the remelting and recrystallization processes in isotactic polypropylene/glass fiber composites. <i>Polymer Crystallization</i> , 2018, 1, e10008	0.9	1
47	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	7.3	1
46	Study on Impact Property and Fracture Morphology of Injection-molded Optical-grade Polycarbonate. <i>Journal of Macromolecular Science - Physics</i> , 2014, 53, 336-346	1.4	1
45	Optimization of runner sizes and process conditions considering both part quality and manufacturing cost in injecting molding. <i>Journal of Polymer Engineering</i> , 2011, 31,	1.4	1
44	Potential metal-related strategies for prevention and treatment of COVID-19.. <i>Rare Metals</i> , 2022, 41, 1-13	5.5	1
43	Polymer microfibrillar tube for continuous oil/water separation and collection. <i>Polymer</i> , 2022, 239, 124440	4.9	1
42	High-speed melt stretching produces polyethylene nanocomposite film with ultrahigh mechanical strength. <i>Composites Science and Technology</i> , 2021, 109134	8.6	1
41	Flexible layered cotton cellulose-based nanofibrous membranes for piezoelectric energy harvesting and self-powered sensing. <i>Carbohydrate Polymers</i> , 2022, 275, 118740	10.3	1
40	Bifunctional Electrocatalyst with 0D/2D Heterostructure for Highly Efficient Hydrogen and Oxygen Generation. <i>Chemistry - an Asian Journal</i> , 2020, 15, 2892-2899	4.5	1
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38	Nonisothermal melt and cold crystallization behaviors of biodegradable poly(lactic acid)/Ti3C2Tx MXene nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	1
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33	Understanding Lithium-Mediated Oxygen Reactions at the Au DMSO interface: Are We There?. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 20762-20771	3.8	1
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30	Efficient and Selective CO Reduction to Formate on Pd-Doped Pb (CO) (OH) : Dynamic Catalyst Reconstruction and Accelerated CO Protonation.. <i>Small</i> , 2022 , e2107885	11	1
29	Combined effect of poly(ethylene glycol) and boron nitride nanosheets on the crystallization behavior and thermal properties of poly(lactic acid). <i>Journal of Thermal Analysis and Calorimetry</i> , 2022 , 210, 1055-1062	4.1	1
28	Fabrication of skinless cellular poly (vinylidene fluoride) films by surface-constrained supercritical CO ₂ foaming using elastic gas barrier layers. <i>Journal of Supercritical Fluids</i> , 2022 , 184, 105562	4.2	1
27	Sandwiched film with reversibly switchable transparency through cyclic melting-crystallization. <i>Chemical Engineering Journal</i> , 2022 , 442, 136205	14.7	1
26	Superior Performance and Stability of 2D Dion-Jacobson Halide Perovskite Photodetectors Operated under Harsh Conditions without Encapsulation. <i>Advanced Optical Materials</i> , 2022 , 10, 2101523	8.1	0
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23	Effect of a small amount of poly(ethylene oxide) on crystal polymorphism of poly(L-lactic acid). <i>Polymer Bulletin</i> , 2020 , 1	2.4	0
22	Predicting and Characterizing Plastic Deformation Behavior of Transversely-isotropic Carbon Fiber Monofilament Using Finite Element Simulation and Nanoindentation. <i>Fibers and Polymers</i> , 2021 , 22, 2316-2322	2.322	0
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19	Fabrication of Polyether Ether Ketone Foams with Superior Properties and Mitigated Weld Lines by Microcellular Injection Molding. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100766	3.5	0
18	Promising commercial fabrics with radiative cooling for personal thermal management. <i>Science Bulletin</i> , 2021 , 67, 229-229	10.6	0

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16	Farming-Inspired Continuous Fabrication of Grating Flexible Transparent Film with Anisotropic Conductivity. <i>Advanced Materials Technologies</i> , 2101638	6.8	o
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13	Solution-processed lead-free double perovskite microplatelets with enhanced photoresponse and thermal stability. <i>Science China Materials</i> , 2022 , 65, 1313-1319	7.1	o
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