

# Chun-Tai 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.

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	Potential metal-related strategies for prevention and treatment of COVID-19.. <i>Rare Metals</i> , <b>2022</b> , 41, 1-13	5.5	1
501	Polymer microfibrillar tube for continuous oil/water separation and collection. <i>Polymer</i> , <b>2022</b> , 239, 124440	4.9	1
500	Stretchable, Sensitive Strain Sensors with a Wide Workable Range and Low Detection Limit for Wearable Electronic Skins.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	8
499	Deciphering CO <sub>2</sub> Reduction Reaction Mechanism in Aprotic Li-O <sub>2</sub> Batteries using In Situ Vibrational Spectroscopy Coupled with Theoretical Calculations. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 624-631	20.1	3
498	Advancing the pressure sensing performance of conductive CNT/PDMS composite film by constructing a hierarchical-structured surface. <i>Nano Materials Science</i> , <b>2022</b> ,	10.2	4
497	Green fabrication of double-sided self-supporting triboelectric nanogenerator with high durability for energy harvesting and self-powered sensing. <i>Nano Energy</i> , <b>2022</b> , 93, 106827	17.1	6
496	Flexible layered cotton cellulose-based nanofibrous membranes for piezoelectric energy harvesting and self-powered sensing. <i>Carbohydrate Polymers</i> , <b>2022</b> , 275, 118740	10.3	1
495	Fabrication of wrinkled thermoplastic polyurethane foams by dynamic supercritical carbon dioxide foaming. <i>Journal of Supercritical Fluids</i> , <b>2022</b> , 180, 105429	4.2	2
494	Programmable micropatterned surface for single-layer homogeneous-polymer Janus actuator. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 133052	14.7	4
493	Markedly improved hydrophobicity of cellulose film via a simple one-step aminosilane-assisted ball milling. <i>Carbohydrate Polymers</i> , <b>2022</b> , 275, 118701	10.3	2
492	Carbon welding on graphene skeleton for phase change composites with high thermal conductivity for solar-to-heat conversion. <i>Chemical Engineering Journal</i> , <b>2022</b> , 427, 131665	14.7	7
491	Boosting oxygen evolution activity of nickel iron hydroxide by iron hydroxide colloidal particles. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 606, 518-525	9.3	3
490	Facile preparation of a cellulose derived carbon/BN composite aerogel for superior electromagnetic wave absorption. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 5311-5320	7.1	1
489	Ni Flower/MXene-Melamine Foam Derived 3D Magnetic/Conductive Networks for Ultra-Efficient Microwave Absorption and Infrared Stealth.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 63	19.5	7
488	Efficient and Selective CO Reduction to Formate on Pd-Doped Pb (CO) <sub>2</sub> (OH) <sub>2</sub> : Dynamic Catalyst Reconstruction and Accelerated CO Protonation.. <i>Small</i> , <b>2022</b> , e2107885	11	1
487	Physical Cross-Linkage Constructed Supramolecular Conductive Hydrogel as Sustainable and Remolded Epidermal Electronics. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 2585-2594	4.3	0
486	Fabrication of skinless cellular poly (vinylidene fluoride) films by surface-constrained supercritical CO <sub>2</sub> foaming using elastic gas barrier layers. <i>Journal of Supercritical Fluids</i> , <b>2022</b> , 184, 105562	4.2	1

485	Flexible, thermostable and flame-resistant epoxy-based thermally conductive layered films with aligned ionic liquid-wrapped boron nitride nanosheets via cyclic layer-by-layer blade-casting. <i>Chemical Engineering Journal</i> , <b>2022</b> , 437, 135482	14.7	5
484	Hierarchical nanofibrous mat via water-assisted electrospinning for self-powered ultrasensitive vibration sensors. <i>Nano Energy</i> , <b>2022</b> , 97, 107149	17.1	4
483	Synergistically enhancing electromagnetic interference shielding performance and thermal conductivity of polyvinylidene fluoride-based lamellar film with MXene and graphene. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2022</b> , 157, 106945	8.4	3
482	Superhydrophobic porous polyvinylidene fluoride monolith with outstanding environmental suitability for high-efficient continuous oil/water separation under harsh conditions. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107480	6.8	0
481	Multifunctional MXene/CNTs based flexible electronic textile with excellent strain sensing, electromagnetic interference shielding and Joule heating performances. <i>Chemical Engineering Journal</i> , <b>2022</b> , 438, 135587	14.7	13
480	Sandwiched film with reversibly switchable transparency through cyclic melting-crystallization. <i>Chemical Engineering Journal</i> , <b>2022</b> , 442, 136205	14.7	1
479	Solution-processed lead-free double perovskite microplatelets with enhanced photoresponse and thermal stability. <i>Science China Materials</i> , <b>2022</b> , 65, 1313-1319	7.1	0
478	High-Entropy Carbonitride MAX Phases and Their Derivative MXenes. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103228	21.8	9
477	Environment-tolerant conductive and superhydrophobic poly(m-phenylene isophthalamide) fabric prepared via Frey activation and reduced graphene oxide/nano SiO <sub>2</sub> modification. <i>Journal of Applied Polymer Science</i> , <b>2022</b> , 139, 52004	2.9	
476	Direct drop-casting synthesis of all-inorganic lead and lead-free halide perovskite microcrystals for high-performance photodetectors. <i>Nano Research</i> , <b>2022</b> , 15, 3621-3627	10	2
475	Vertically Aligned Silicon Carbide Nanowires/Boron Nitride Cellulose Aerogel Networks Enhanced Thermal Conductivity and Electromagnetic Absorbing of Epoxy Composites.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 118	19.5	13
474	Crystallization Behavior of Rapid-Compression-Induced Mesomorphic Isotactic Polypropylene during Uniaxial Stretching at Different Temperatures. <i>Polymer Crystallization</i> , <b>2022</b> , 2022, 1-13	0.9	
473	Superhydrophobic polycarbonate blend monolith with micro/nano porous structure for selective oil/water separation. <i>Polymer</i> , <b>2022</b> , 253, 124994	3.9	0
472	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> , <b>2022</b> , 125008	3.9	2
471	A double crosslinking MXene/cellulose nanofiber layered film for improving mechanical properties and stable electromagnetic interference shielding performance. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 129, 127-134	9.1	0
470	FeCo alloy nanoparticle decorated cellulose based carbon aerogel as a low-cost and efficient electromagnetic microwave absorber. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 10, 126-134	7.1	4
469	MXene-Coated Wrinkled Fabrics for Stretchable and Multifunctional Electromagnetic Interference Shielding and Electro/Photo-Thermal Conversion Applications.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 60478-60488	9.5	8
468	High-speed melt stretching produces polyethylene nanocomposite film with ultrahigh mechanical strength. <i>Composites Science and Technology</i> , <b>2021</b> , 109134	8.6	1

467	Influence of crystal orientation on stretching induced void formation in poly(4-methyl-1-pentene) investigated by in-situ small-angle and wide-angle X-ray scattering. <i>Polymer Crystallization</i> , <b>2021</b> , 4, e10218	9.8	18
466	Rational Design of Thermosensitive Hydrogel to Deliver Nanocrystals with Intranasal Administration for Brain Targeting in Parkinson's Disease. <i>Research</i> , <b>2021</b> , 2021, 9812523	7.8	4
465	Electrospun PVDF/PAN membrane for pressure sensor and sodium-ion battery separator. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 1215	8.7	22
464	Flexible Conductive Polyimide Fiber/MXene Composite Film for Electromagnetic Interference Shielding and Joule Heating with Excellent Harsh Environment Tolerance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 50368-50380	9.5	16
463	Nacre-inspired tunable strain sensor with synergistic interfacial interaction for sign language interpretation. <i>Nano Energy</i> , <b>2021</b> , 90, 106606	17.1	7
462	Strain dependent crystallization of isotactic polypropylene during solid-state stretching. <i>Polymer Testing</i> , <b>2021</b> , 104, 107404	4.5	0
461	The Synergistic Effect of Rare-Earth Complex Nucleating Agent and Graphene Oxide on the Non-Isothermal Crystallization Behavior of iPP Originating From the Diverse Self-Assembly Morphology. <i>Macromolecular Chemistry and Physics</i> , <b>2021</b> , 222, 2000357	2.6	3
460	Interrogating Lithium-Oxygen Battery Reactions and Chemistry with Isotope-Labeling Techniques: A Mini Review. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 4743-4750	4.1	5
459	An ultra-light, superhydrophobic and thermal insulation ultra-high molecular weight polyethylene foam. <i>Polymer</i> , <b>2021</b> , 218, 123528	3.9	18
458	Wearable Strain Sensors Based on a Porous Polydimethylsiloxane Hybrid with Carbon Nanotubes and Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 15572-15583	9.5	32
457	Flexible multilayered MXene/thermoplastic polyurethane films with excellent electromagnetic interference shielding, thermal conductivity, and management performances. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 274-285	8.7	94
456	Effect of multiscale reinforcement by fiber surface treatment with polyvinyl alcohol/graphene oxide/oxidized carbon nanotubes on the mechanical properties of reinforced hybrid fiber composites. <i>Composites Science and Technology</i> , <b>2021</b> , 204, 108634	8.6	6
455	Multifunctional Magnetic TiCT MXene/Graphene Aerogel with Superior Electromagnetic Wave Absorption Performance. <i>ACS Nano</i> , <b>2021</b> , 15, 6622-6632	16.7	144
454	Highly thermal conductive epoxy nanocomposites filled with 3D BN/C spatial network prepared by salt template assisted method. <i>Composites Part B: Engineering</i> , <b>2021</b> , 209, 108609	10	30
453	Ultra-High Initial Coulombic Efficiency Induced by Interface Engineering Enables Rapid, Stable Sodium Storage. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 11582-11587	3.6	5
452	A Decade of Progress on Solid-State Electrolytes for Secondary Batteries: Advances and Contributions. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100891	15.6	25
451	Environment Tolerant Conductive Nanocomposite Organohydrogels as Flexible Strain Sensors and Power Sources for Sustainable Electronics. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101696	15.6	59
450	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> , <b>2021</b> , 4, 505-513	8.7	65

449	Multi-functional and flexible helical fiber sensor for micro-deformation detection, temperature sensing and ammonia gas monitoring. <i>Composites Part B: Engineering</i> , <b>2021</b> , 211, 108621	10	11
448	Largely improved thermal conductivity of HDPE composites by building a 3D hybrid fillers network. <i>Composites Science and Technology</i> , <b>2021</b> , 206, 108666	8.6	32
447	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> , <b>2021</b> , 210, 108668	10	39
446	High-Performance Flexible Self-Powered Photodetectors Utilizing Spontaneous Electron and Hole Separation in Quasi-2D Halide Perovskites. <i>Small</i> , <b>2021</b> , 17, e2100442	11	8
445	Microribbon Structured Polyvinylidene Fluoride with High-Performance Piezoelectricity for Sensing Application. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 2411-2419	4.3	6
444	Interface-Constrained Layered Double Hydroxides for Stable Uranium Capture in Highly Acidic Industrial Wastewater. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 17988-17997	9.5	9
443	Ultra-High Initial Coulombic Efficiency Induced by Interface Engineering Enables Rapid, Stable Sodium Storage. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 11481-11486	16.4	51
442	Continuous fabrication of polyethylene microfibrillar bundles for wearable personal thermal management fabric. <i>Applied Surface Science</i> , <b>2021</b> , 549, 149255	6.7	7
441	Predicting and Characterizing Plastic Deformation Behavior of Transversely-isotropic Carbon Fiber Monofilament Using Finite Element Simulation and Nanoindentation. <i>Fibers and Polymers</i> , <b>2021</b> , 22, 2316 <sup>2</sup> -2322 <sup>0</sup>		
440	Reversible Cycling of Graphite Electrodes in Propylene Carbonate Electrolytes Enabled by Ethyl Isothiocyanate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 26023-26033	9.5	3
439	Water-endurable intercalated graphene oxide adsorbent with highly efficient uranium capture from acidic wastewater. <i>Separation and Purification Technology</i> , <b>2021</b> , 263, 118364	8.3	15
438	Superhydrophobic cellulose acetate/multiwalled carbon nanotube monolith with fiber cluster network for selective oil/water separation. <i>Carbohydrate Polymers</i> , <b>2021</b> , 259, 117750	10.3	17
437	Properties of Cell-Compatible Poly(vinyl alcohol) Hydrogels Cross-Linked with Hydrophobic Luteolin. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 3019-3027	4.3	4
436	Simultaneously improved solid particle erosion resistant and strength of graphene nanoplates/carbon nanotube enhanced thermoplastic polyurethane films. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50924	2.9	
435	Aluminum dihydric tripolyphosphate/polypyrrole-functionalized graphene oxide waterborne epoxy composite coatings for impermeability and corrosion protection performance of metals. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 780-792	8.7	29
434	Versatile Janus Composite Nonwoven Solar Absorbers with Salt Resistance for Efficient Wastewater Purification and Desalination. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 24945-24958	8.5	9
433	Electrostatic self-assembled NiFe <sub>2</sub> O <sub>4</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nanocomposites for efficient electromagnetic wave absorption at ultralow loading level. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 602-613	8.7	33
432	Asymmetric Superhydrophobic Textiles for Electromagnetic Interference Shielding, Photothermal Conversion, and Solar Water Evaporation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 28996-29007	9.5	19

431	Tunable and Nacre-Mimetic Multifunctional Electronic Skins for Highly Stretchable Contact-Noncontact Sensing. <i>Small</i> , <b>2021</b> , 17, e2100542	11	30
430	Highly Thermal Conductive Poly(vinyl alcohol) Composites with Oriented Hybrid Networks: Silver Nanowire Bridged Boron Nitride Nanoplatelets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 32286-32294 <sup>17</sup>	9.5	17
429	Flexible and robust porous thermoplastic polyurethane/reduced graphene oxide monolith with special wettability for continuous oil/water separation in harsh environment. <i>Separation and Purification Technology</i> , <b>2021</b> , 266, 118553	8.3	8
428	Scalable manufacturing of flexible, durable Ti3C2Tx MXene/Polyvinylidene fluoride film for multifunctional electromagnetic interference shielding and electro/photo-thermal conversion applications. <i>Composites Part B: Engineering</i> , <b>2021</b> , 217, 108902	10	27
427	Dependence of electromagnetic wave absorption properties on the topography of Ni anchoring on reduced graphene oxide. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 870-874	8.1	7
426	PAANa-induced ductile SEI of bare micro-sized FeS enables high sodium-ion storage performance. <i>Science China Materials</i> , <b>2021</b> , 64, 105-114	7.1	9
425	Highly flame-retardant epoxy-based thermal conductive composites with functionalized boron nitride nanosheets exfoliated by one-step ball milling. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 127099	14.7	38
424	Multifunctional interlocked e-skin based on elastic micropattern array facilely prepared by hot-air-gun. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 127960	14.7	20
423	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> , <b>2021</b> , 420, 127720	14.7	69
422	Facile Fabrication of Nylon66/Multi-Wall Carbon Nanotubes/Polyvinyl Alcohol Nanofiber Bundles for Use as Humidity Sensors. <i>Journal of Macromolecular Science - Physics</i> , <b>2021</b> , 60, 368-380	1.4	0
421	An Ultrasensitive, Durable and Stretchable Strain Sensor with Crack-wrinkle Structure for Human Motion Monitoring. <i>Chinese Journal of Polymer Science (English Edition)</i> , <b>2021</b> , 39, 316-326	3.5	8
420	Cellulose-based Ni-decorated graphene magnetic film for electromagnetic interference shielding. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 583, 571-578	9.3	42
419	Highly thermally conductive polyvinyl alcohol/boron nitride nanocomposites with interconnection oriented boron nitride nanoplatelets. <i>Composites Science and Technology</i> , <b>2021</b> , 201, 108521	8.6	20
418	Flexible hydrophobic 2D Ti3C2Tx-based transparent conductive film with multifunctional self-cleaning, electromagnetic interference shielding and joule heating capacities. <i>Composites Science and Technology</i> , <b>2021</b> , 201, 108531	8.6	29
417	Magnetic, superelastic and superhydrophobic porous thermoplastic polyurethane monolith with nano-Fe3O4 coating for highly selective and easy-recycling oil/water separation. <i>Applied Surface Science</i> , <b>2021</b> , 535, 147690	6.7	16
416	A simple superhydrophobic/superhydrophilic Janus-paper with enhanced biocompatibility by PDMS and candle soot coating for actuator. <i>Chemical Engineering Journal</i> , <b>2021</b> , 406, 126532	14.7	36
415	Recent Progress on the Alloy-Based Anode for Sodium-Ion Batteries and Potassium-Ion Batteries. <i>Small</i> , <b>2021</b> , 17, e1903194	11	140
414	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> , <b>2021</b> , 13, 2378-2388	7.7	54

413	Improved microwave absorption performance of double helical C/Co@CNT nanocomposite with hierarchical structures. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 2178-2189	7.1	19
412	Lightweight, Superelastic, and Hydrophobic Polyimide Nanofiber /MXene Composite Aerogel for Wearable Piezoresistive Sensor and Oil/Water Separation Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008006	15.6	127
411	Kinetics of the CO <sub>2</sub> reduction reaction in aprotic Li <sup>+</sup> CO <sub>2</sub> batteries: a model study. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 3290-3296	13	10
410	Hollow-porous fibers for intrinsically thermally insulating textiles and wearable electronics with ultrahigh working sensitivity. <i>Materials Horizons</i> , <b>2021</b> , 8, 1037-1046	14.4	15
409	A resilient and lightweight bacterial cellulose-derived C/rGO aerogel-based electromagnetic wave absorber integrated with multiple functions. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5566-5577	13	19
408	Pretreatment of hydroxy-terminated polybutadiene (HTPB)/toluene diisocyanate (TDI) binder system for biodegradation. <i>Advanced Composites and Hybrid Materials</i> , <b>2021</b> , 4, 96-103	8.7	3
407	Robust and efficient UV-reflecting one-dimensional photonic crystals enabled by organic/inorganic nanocomposite thin films for photoprotection of transparent polymers. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 4223-4232	7.1	1
406	Superefficient and robust polymer coating for bionic manufacturing of superwetting surfaces with Bose petal effect and lotus leaf effect. <i>Progress in Organic Coatings</i> , <b>2021</b> , 151, 106090	4.8	5
405	The retardation effects of lamellar slip or/and chain slip on void initiation during uniaxial stretching of oriented iPP. <i>Polymer</i> , <b>2021</b> , 215, 123342	3.9	2
404	Selective Etching Quaternary MAX Phase toward Single Atom Copper Immobilized MXene (TiCCl) for Efficient CO Electroreduction to Methanol. <i>ACS Nano</i> , <b>2021</b> , 15, 4927-4936	16.7	41
403	Crystalline grain refinement toughened isotactic polypropylene through rapid quenching of stretched melt. <i>Polymer</i> , <b>2021</b> , 216, 123435	3.9	6
402	Flexible Transparent Polypyrrole-Decorated MXene-Based Film with Excellent Photothermal Energy Conversion Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 8909-8918	9.5	9
401	Alternating aligned conductive stripes in polypropylene film with remarkable anisotropy for sensing application. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 330, 129370	8.5	1
400	Asymmetric layered structural design with segregated conductive network for absorption-dominated high-performance electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , <b>2021</b> , 416, 129083	14.7	18
399	High-Performance Cathode Materials for Potassium-Ion Batteries: Structural Design and Electrochemical Properties. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100409	24	18
398	Roles of Interlayer Diffusion and Confinements in Manipulating Microstructural Evolutions in Multilayer Assembled Polyvinylidene Fluoride/Poly(methyl methacrylate) Films for Tunable Dielectric and Piezoelectric Performances. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 3843-3854	4.3	1
397	Highly linear and low hysteresis porous strain sensor for wearable electronic skins. <i>Composites Communications</i> , <b>2021</b> , 26, 100809	6.7	7
396	Engineering multilayered MXene/electrospun poly(lactic acid) membrane with increscent electromagnetic interference (EMI) shielding for integrated Joule heating and energy generating. <i>Composites Communications</i> , <b>2021</b> , 26, 100770	6.7	18

395	Multifunctional electromagnetic interference shielding films comprised of multilayered thermoplastic polyurethane membrane and silver nanowire. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2021</b> , 147, 106472	8.4	7
394	Simple Approach to Fabricate an Anisotropic Wetting Surface with High Adhesive Force toward Droplet Transfer. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 4470-4477	4.3	
393	Sandwiched cellulose nanofiber /boron nitride nanosheet /Ti3C2Tx MXene composite film with high electromagnetic shielding and thermal conductivity yet insulation performance. <i>Composites Science and Technology</i> , <b>2021</b> , 214, 108974	8.6	13
392	Bioinspired Multifunctional Photonic-Electronic Smart Skin for Ultrasensitive Health Monitoring, for Visual and Self-Powered Sensing. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102332	24	21
391	Machine Learning: An Advanced Platform for Materials Development and State Prediction in Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2021</b> , e2101474	24	14
390	Quantum Artificial Synapses. <i>Advanced Quantum Technologies</i> , <b>2021</b> , 4, 2100072	4.3	1
389	Multifunctional and superhydrophobic cellulose composite paper for electromagnetic shielding, hydraulic triboelectric nanogenerator and Joule heating applications. <i>Chemical Engineering Journal</i> , <b>2021</b> , 420, 129864	14.7	28
388	Promising commercial fabrics with radiative cooling for personal thermal management. <i>Science Bulletin</i> , <b>2021</b> , 67, 229-229	10.6	0
387	Ultrasensitive strain sensor based on superhydrophobic microcracked conductive Ti3C2T MXene/paper for human-motion monitoring and E-skin. <i>Science Bulletin</i> , <b>2021</b> , 66, 1849-1857	10.6	48
386	Superhydrophobic UHMWPE Foams with High Mechanical Robustness and Durability Fabricated by Supercritical CO2 Foaming. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 12663-12673	8.3	4
385	Understanding Lithium-Mediated Oxygen Reactions at the Au DMSO interface: Are We There?. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 20762-20771	3.8	1
384	Skinless porous films generated by supercritical CO2 foaming for high-performance complementary shaped triboelectric nanogenerators and self-powered sensors. <i>Nano Energy</i> , <b>2021</b> , 87, 106148	17.1	9
383	Flexible Ag Microparticle/MXene-Based Film for Energy Harvesting. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 201	19.5	18
382	Dynamic Restructuring of Cu-Doped SnS Nanoflowers for Highly Selective Electrochemical CO Reduction to Formate. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26233-26237	16.4	12
381	Highly thermally conductive 3D BN/MWCNTs/C spatial network composites with improved electrically insulating and flame retardancy prepared by biological template assisted method. <i>Composites Part B: Engineering</i> , <b>2021</b> , 222, 109039	10	6
380	A novel and simple method to improve thermal imbalance and sink mark of gate region in injection molding. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 127, 105498	5.8	0
379	Aramid nanofiber-derived carbon aerogel film with skin-core structure for high electromagnetic interference shielding and solar-thermal conversion. <i>Carbon</i> , <b>2021</b> , 184, 562-570	10.4	16
378	Self-Anti-Stacking 2D Metal Phosphide Loop-Sheet Heterostructures by Edge-Topological Regulation for Highly Efficient Water Oxidation. <i>Small</i> , <b>2021</b> , 17, e2006860	11	7



377	Ultra-stretchable and multifunctional wearable electronics for superior electromagnetic interference shielding, electrical therapy and biomotion monitoring. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 7238-7247	13	18
376	Van der Waals PdSe <sub>2</sub> /WS <sub>2</sub> Heterostructures for Robust High-Performance Broadband Photodetection from Visible to Infrared Optical Communication Band. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001991	8.1	15
375	Fire/heat-resistant, anti-corrosion and folding Ti <sub>2</sub> C <sub>3</sub> T <sub>x</sub> MXene/single-walled carbon nanotube films for extreme-environmental EMI shielding and solar-thermal conversion applications. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 10425-10434	7.1	15
374	Recent progress of emerging cathode materials for sodium ion batteries. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 3735-3764	7.8	43
373	Crystallization behavior of poly(lactic acid) and its blends. <i>Polymer Crystallization</i> , <b>2021</b> , 4, e10171	0.9	2
372	Highly Tunable Piezoelectricity of Flexible Nanogenerators Based on 3D Poroously Architected Membranes for Versatile Energy Harvesting and Self-Powered Multistimulus Sensing. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 17128-17141	8.3	4
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370	Tuning the Electronic Structures of Multimetal Oxide Nanoplates to Realize Favorable Adsorption Energies of Oxygenated Intermediates. <i>ACS Nano</i> , <b>2020</b> ,	16.7	19
369	Flexible conductive polymer composites for smart wearable strain sensors. <i>SmartMat</i> , <b>2020</b> , 1, e1010	22.8	63
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366	Effects of Hydrothermal Aging of Carbon Fiber Reinforced Polycarbonate Composites on Mechanical Performance and Sand Erosion Resistance. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4
365	Multiscale Structural Evolution and Its Relationship to Dielectric Properties of Micro-/Nano-Layer Coextruded PVDF-HFP/PC Films. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3
364	Enhancing the Performance of a Stretchable and Transparent Triboelectric Nanogenerator by Optimizing the Hydrogel Ionic Electrode Property. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 23474-23483	9.5	33
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355	Enabling reversible phase transition on K <sub>5</sub> /9Mn <sub>7</sub> /9Ti <sub>2</sub> /9O <sub>2</sub> for high-performance potassium-ion batteries cathodes. <i>Energy Storage Materials</i> , <b>2020</b> , 31, 20-26	19.4	15
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352	Pitch-Derived Soft Carbon as Stable Anode Material for Potassium Ion Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000505	24	105
351	Investigation on the phase transition from Form II to Form I in iPb-1 after pre-stretching. <i>Polymer</i> , <b>2020</b> , 194, 122385	3.9	11
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349	Overview of Polyvinyl Alcohol Nanocomposite Hydrogels for Electro-Skin, Actuator, Supercapacitor and Fuel Cell. <i>Chemical Record</i> , <b>2020</b> , 20, 773-792	6.6	24
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345	Overview of Ionogels in Flexible Electronics. <i>Chemical Record</i> , <b>2020</b> , 20, 948-967	6.6	26
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250	One-pot synthesized molybdenum dioxide-molybdenum carbide heterostructures coupled with 3D holey carbon nanosheets for highly efficient and ultrastable cycling lithium-ion storage. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 13460-13472	13	185
249	Phase transitions of the rapid-compression-induced mesomorphic isotactic polypropylene under high-pressure annealing. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2019</b> , 57, 651-661	2.6	8
248	Carbon nanospheres induced high negative permittivity in nanosilver-polydopamine metamaterials. <i>Carbon</i> , <b>2019</b> , 147, 550-558	10.4	165
247	Cobalt-based electrode materials for sodium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 185-207	207	87
246	Enhanced Solid Particle Erosion Properties of Thermoplastic Polyurethane-Carbon Nanotube Nanocomposites. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1900010	3.9	41
245	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> , <b>2019</b> , 167, 362-369	10	42
244	High-pressure induced formation of isotactic polypropylene mesophase: Synergistic effect of pressure and pressurization rate. <i>Polymer Engineering and Science</i> , <b>2019</b> , 59, 439-446	2.3	7
243	Employment of stereological laws in fast crystal numerical simulation algorithm of polymers and errors analysis of results. <i>Modelling and Simulation in Materials Science and Engineering</i> , <b>2019</b> , 27, 045004 <sup>2</sup>		
242	Facile Fabrication of Superhydrophobic and Eco-Friendly Poly(lactic acid) Foam for Oil-Water Separation via Skin Peeling. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 14362-14367	9.5	77
241	Multi-walled carbon nanotube in a miscible PEO/PMMA blend: Thermal and rheological behavior. <i>Polymer Testing</i> , <b>2019</b> , 75, 367-372	4.5	23
240	Crystalline structure and remarkably enhanced tensile property of isotactic polypropylene via overflow microinjection molding. <i>Polymer Testing</i> , <b>2019</b> , 76, 448-454	4.5	7
239	Enhanced mechanical properties of biodegradable poly( $\epsilon$ -caprolactone)/cellulose acetate butyrate nanocomposites filled with organoclay. <i>Composites Communications</i> , <b>2019</b> , 13, 70-74	6.7	13
238	Ultrasensitive and Highly Compressible Piezoresistive Sensor Based on Polyurethane Sponge Coated with a Cracked Cellulose Nanofibril/Silver Nanowire Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 10922-10932	9.5	242
237	Melting temperature, concentration and cooling rate-dependent nucleating ability of a self-assembly aryl amide nucleator on poly(lactic acid) crystallization. <i>Polymer</i> , <b>2019</b> , 168, 77-85	3.9	28
236	Crystallization behavior and mechanical properties of poly(lactic acid)/poly(ethylene oxide) blends nucleated by a self-assembly nucleator. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 135, 3107-3114 <sup>1</sup>	4.1	14
235	Structure and Mechanical Properties of Multi-Walled Carbon Nanotubes-Filled Isotactic Polypropylene Composites Treated by Pressurization at Different Rates. <i>Polymers</i> , <b>2019</b> , 11,	4.5	2
234	Effect of different sterilization methods on the properties of commercial biodegradable polyesters for single-use, disposable medical devices. <i>Materials Science and Engineering C</i> , <b>2019</b> , 105, 110041	8.3	32



233	Facile fabrication of durable superhydrophobic mesh via candle soot for oil-water separation. <i>Progress in Organic Coatings</i> , <b>2019</b> , 136, 105253	4.8	23
232	Embracing high performance potassium-ion batteries with phosphorus-based electrodes: a review. <i>Nanoscale</i> , <b>2019</b> , 11, 15402-15417	7.7	41
231	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> , <b>2019</b> , 5, 1900538	6.4	38
230	Facile and scalable synthesis of low-cost FeS@C as long-cycle anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19709-19718	13	59
229	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> , <b>2019</b> , 304, 1900227	3.9	47
228	Polyethylene oxide-assisted dispersion of graphene nanoplatelets in poly(lactic acid) with enhanced mechanical properties and crystallization ability. <i>Polymer Testing</i> , <b>2019</b> , 78, 106008	4.5	13
227	Poly(ethylene oxide)-promoted dispersion of graphene nanoplatelets and its effect on the properties of poly(lactic acid)/poly(butylene adipate-co-terephthalate) based nanocomposites. <i>Materials Letters</i> , <b>2019</b> , 253, 34-37	3.3	13
226	Creep behavior and mechanical properties of isotactic polypropylene composites via twice melt injection molding. <i>Advanced Industrial and Engineering Polymer Research</i> , <b>2019</b> , 2, 102-109	7.3	1
225	Friction and Wear of MoO <sub>3</sub> /Graphene Oxide Modified Glass Fiber Reinforced Epoxy Nanocomposites. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1900166	3.9	79
224	Interfacing Epitaxial Dinickel Phosphide to 2D Nickel Thiophosphate Nanosheets for Boosting Electrocatalytic Water Splitting. <i>ACS Nano</i> , <b>2019</b> , 13, 7975-7984	16.7	104
223	Interfacial adhesion enhanced flexible polycarbonate/carbon nanotubes transparent conductive film for vapor sensing. <i>Composites Communications</i> , <b>2019</b> , 15, 80-86	6.7	14
222	Fabrication of quasi-metallic NiMoO nanodots for enhanced plasmon resonance and photothermal conversion. <i>Chemical Communications</i> , <b>2019</b> , 55, 9777-9780	5.8	15
221	Highly Compressible and Robust Polyimide/Carbon Nanotube Composite Aerogel for High-Performance Wearable Pressure Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 42594-42606	9.5	134
220	Superelastic and Durable Hierarchical Porous Thermoplastic Polyurethane Monolith with Excellent Hydrophobicity for Highly Efficient Oil/Water Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 20291-20299	3.9	17
219	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> , <b>2019</b> , 183, 107796	8.6	47
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217	The effects of nanoclay and deformation conditions on the inelastic behavior of thermoplastic polyurethane foams. <i>Polymer Testing</i> , <b>2019</b> , 79, 106043	4.5	10
216	Component Determination and Their Formation of PM <sub>2.5</sub> . <i>Science of Advanced Materials</i> , <b>2019</b> , 11, 756-763	7.3	32

215	The Effect of Deformation Parameters on Advanced High Strength Steel Treated by Quenching-Partitioning-Tempering Process. <i>Science of Advanced Materials</i> , <b>2019</b> , 11, 1044-1051	2.3	4
214	Melt-Processed Poly(Ether Ether Ketone)/Carbon Nanotubes/Montmorillonite Nanocomposites with Enhanced Mechanical and Thermomechanical Properties. <i>Materials</i> , <b>2019</b> , 12,	3.5	15
213	Thermal Degradation Behavior and Kinetics of 3D Porous Polycarbonate Monoliths. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1800667	3.9	10
212	Experimental study on thermal expansion coefficient of composite multi-layered flaky gun propellants. <i>Composites Part B: Engineering</i> , <b>2019</b> , 166, 428-435	10	57
211	Interfacial cylindrite of poly(lactic acid) induced by pulling a single glass fiber. <i>European Polymer Journal</i> , <b>2019</b> , 114, 127-133	5.2	3
210	Enhancing thermal oxidation and fire resistance of reduced graphene oxide by phosphorus and nitrogen co-doping: Mechanism and kinetic analysis. <i>Carbon</i> , <b>2019</b> , 146, 650-659	10.4	60
209	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> , <b>2019</b> , 6, 125374	1.7	2
208	Structural characterization of lignin and its carbohydrate complexes isolated from bamboo ( <i>Dendrocalamus sinicus</i> ). <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 126, 376-384	7.9	76
207	Shear-induced rheological and electrical properties of molten poly(methyl methacrylate)/carbon black nanocomposites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 164, 37-44	10	40
206	Stretching-induced phase transition of the butene-1/ethylene random copolymer: Orientation and kinetics. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2019</b> , 57, 116-126	2.6	23
205	High-Performance Flexible Freestanding Anode with Hierarchical 3D Carbon-Networks/Fe S /Graphene for Applicable Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806664	24	173
204	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 &amp; Interfaces</i> , <b>2019</b> , 11, 4345-4352	9.5	61
203	Electrically conductive carbon black/electrospun polyamide 6/poly(vinyl alcohol) composite based strain sensor with ultrahigh sensitivity and favorable repeatability. <i>Materials Letters</i> , <b>2019</b> , 236, 60-63	3.3	24
202	Trace electrospayed nanopolystyrene facilitated dispersion of multiwalled carbon nanotubes: Simultaneously strengthening and toughening epoxy. <i>Carbon</i> , <b>2019</b> , 142, 131-140	10.4	133
201	Remarkably anisotropic conductive MWCNTs/polypropylene nanocomposites with alternating microlayers. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 924-935	14.7	42
200	Tunable temperature-resistivity behaviors of carbon black/polyamide 6 /high-density polyethylene composites with conductive electrospun PA6 fibrous network. <i>Journal of Composite Materials</i> , <b>2019</b> , 53, 1897-1906	2.7	5
199	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> , <b>2019</b> , 360, 762-777	14.7	116
198	Understanding structure-mechanics relationship of high density polyethylene based on stress induced lattice distortion. <i>Polymer</i> , <b>2019</b> , 160, 170-180	3.9	21

197	Self-reinforcing and toughening isotactic polypropylene via melt sequential injection molding. <i>Polymer Testing</i> , <b>2018</b> , 67, 183-189	4.5	59
196	Competition effect of shear-induced nuclei and multiwalled carbon nanotubes (MWCNT) on Isotactic polypropylene (iPP) formation in preshear injection-molded iPP/MWCNT nanocomposites. <i>Polymer Composites</i> , <b>2018</b> , 39, E1149-E1158	3	5
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194	The Cooperative Effect of Both Molecular and Supramolecular Chirality on Cell Adhesion. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 6475-6479	16.4	48
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189	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> , <b>2018</b> , 156, 276-286	8.6	199
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187	Effects of nanoclays on the thermal stability and flame retardancy of microcellular thermoplastic polyurethane nanocomposites. <i>Polymer Composites</i> , <b>2018</b> , 39, E1429-E1440	3	16
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185	Flexible electrically resistive-type strain sensors based on reduced graphene oxide-decorated electrospun polymer fibrous mats for human motion monitoring. <i>Carbon</i> , <b>2018</b> , 126, 360-371	10.4	242
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155	A highly stretchable carbon nanotubes/thermoplastic polyurethane fiber-shaped strain sensor with porous structure for human motion monitoring. <i>Composites Science and Technology</i> , <b>2018</b> , 168, 126-132	8.6	89
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149	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 &amp; Interfaces</i> , <b>2018</b> , 10, 21628-21641	9.5	100
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146	Mechanical enhancement of melt-stretched $\beta$ nucleated isotactic polypropylene: The role of lamellar branching of $\beta$ crystal. <i>Polymer Testing</i> , <b>2017</b> , 58, 227-235	4.5	62
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116	Characterization of 3D elastic porous polydimethylsiloxane (PDMS) cell scaffolds fabricated by VARTM and particle leaching. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	12
115	Effects of surface modification with 3-aminopropyltriethoxysilane on structure and mechanical property of multiwalled carbon nanotube/polycarbonate composites. <i>Polymer Composites</i> , <b>2016</b> , 37, 1914-1923	3	11
114	Electrically conductive thermoplastic elastomer nanocomposites at ultralow graphene loading levels for strain sensor applications. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 157-166	7.1	413
113	Twisted lamellae in water-assisted injection molded high density polyethylene. <i>Materials Letters</i> , <b>2016</b> , 172, 19-22	3.3	15
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108	Simulation of Jetting in Injection Molding Using a Finite Volume Method. <i>Polymers</i> , <b>2016</b> , 8,	4.5	5

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104	Organic vapor sensing behaviors of conductive thermoplastic polyurethane/graphene nanocomposites. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 4459-4469	7.1	179
103	Electrically conductive strain sensing polyurethane nanocomposites with synergistic carbon nanotubes and graphene bifillers. <i>Nanoscale</i> , <b>2016</b> , 8, 12977-89	7.7	364
102	Electrically conductive thermoplastic polyurethane/polypropylene nanocomposites with selectively distributed graphene. <i>Polymer</i> , <b>2016</b> , 97, 11-19	3.9	129
101	Carbon Nanotubes-Adsorbed Electrospun PA66 Nanofiber Bundles with Improved Conductivity and Robust Flexibility. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14150-9	9.5	216
100	Liquid sensing behaviors of conductive polypropylene composites containing hybrid fillers of carbon fiber and carbon black. <i>Composites Part B: Engineering</i> , <b>2016</b> , 94, 45-51	10	24
99	Interfacial interaction enhancement by shear-induced cylindrite in isotactic polypropylene/glass fiber composites. <i>Polymer</i> , <b>2016</b> , 100, 111-118	3.9	45
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96	The influence of sub-T <sub>g</sub> annealing on environmental stress cracking resistance of polycarbonate. <i>Polymer Testing</i> , <b>2016</b> , 56, 364-368	4.5	8
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