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Graphene chiral liquid crystals and macroscopic assembled fibres

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886	Lyotropic smectic B phase formed in suspensions of charged colloidal platelets. <b>2012</b> , 134, 5985-90		38
885	Nonlinear photoluminescence imaging of isotropic and liquid crystalline dispersions of graphene oxide. <b>2012</b> , 6, 8060-6		34
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720 719	Properties in polystyrene. 2014, 53, 272-279  Nanomechanics of Graphene and Nanocrystals. 2014, 10, 273-284  Bismuth oxide nanotubes-graphene fiber-based flexible supercapacitors. 2014, 6, 8595-600  High-performance multifunctional graphene yarns: toward wearable all-carbon energy storage	24	3 105
720 719 718	Properties in polystyrene. 2014, 53, 272-279  Nanomechanics of Graphene and Nanocrystals. 2014, 10, 273-284  Bismuth oxide nanotubes-graphene fiber-based flexible supercapacitors. 2014, 6, 8595-600  High-performance multifunctional graphene yarns: toward wearable all-carbon energy storage textiles. 2014, 8, 2456-66  Highly conductive, flexible, and compressible all-graphene passive electronic skin for sensing	24	3 105 290
720 719 718 717	Nanomechanics of Graphene and Nanocrystals. 2014, 10, 273-284  Bismuth oxide nanotubes-graphene fiber-based flexible supercapacitors. 2014, 6, 8595-600  High-performance multifunctional graphene yarns: toward wearable all-carbon energy storage textiles. 2014, 8, 2456-66  Highly conductive, flexible, and compressible all-graphene passive electronic skin for sensing human touch. Advanced Materials, 2014, 26, 5018-24	24	3 105 290 231
720 719 718 717 716	Nanomechanics of Graphene and Nanocrystals. 2014, 10, 273-284  Bismuth oxide nanotubes-graphene fiber-based flexible supercapacitors. 2014, 6, 8595-600  High-performance multifunctional graphene yarns: toward wearable all-carbon energy storage textiles. 2014, 8, 2456-66  Highly conductive, flexible, and compressible all-graphene passive electronic skin for sensing human touch. Advanced Materials, 2014, 26, 5018-24  Graphene in macroscopic order: liquid crystals and wet-spun fibers. 2014, 47, 1267-76  Enhanced mechanical and thermal properties of regenerated cellulose/graphene composite fibers.	24	3 105 290 231 264

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505	2D material liquid crystals for optoelectronics and photonics. <b>2017</b> , 5, 11185-11195		39
504	Carbon nanomaterials for flexible lithium ion batteries. <i>Carbon</i> , <b>2017</b> , 124, 79-88	10.4	45
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482	Direct 3D Printing of Ultralight Graphene Oxide Aerogel Microlattices. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707024	15.6	198
481	Conceptually Novel Black Phosphorus/Cellulose Hydrogels as Promising Photothermal Agents for Effective Cancer Therapy. <b>2018</b> , 7, e1701510		139
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	A facile fabrication of colorimetric graphene oxide reflecting films for ultrasensitive optical gas	8.5	
468	A facile fabrication of colorimetric graphene oxide reflecting films for ultrasensitive optical gas sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 261, 83-90	8.5	
468	A facile fabrication of colorimetric graphene oxide reflecting films for ultrasensitive optical gas sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 261, 83-90  Self-Assembled Graphene Nanostructures and Their Applications. <b>2018</b> , 39-74  Nitrogen-Doped Single Graphene Fiber with Platinum Water Dissociation Catalyst for Wearable	8.5	10
468 467 466	A facile fabrication of colorimetric graphene oxide reflecting films for ultrasensitive optical gas sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 261, 83-90  Self-Assembled Graphene Nanostructures and Their Applications. <b>2018</b> , 39-74  Nitrogen-Doped Single Graphene Fiber with Platinum Water Dissociation Catalyst for Wearable Humidity Sensor. <b>2018</b> , 14, e1703934  Flexible fiber-shaped energy storage devices: principles, progress, applications and challenges.	8.5	10 72
468 467 466 465	A facile fabrication of colorimetric graphene oxide reflecting films for ultrasensitive optical gas sensing. Sensors and Actuators B: Chemical, 2018, 261, 83-90  Self-Assembled Graphene Nanostructures and Their Applications. 2018, 39-74  Nitrogen-Doped Single Graphene Fiber with Platinum Water Dissociation Catalyst for Wearable Humidity Sensor. 2018, 14, e1703934  Flexible fiber-shaped energy storage devices: principles, progress, applications and challenges. 2018, 3, 013001  MOF for template-directed growth of well-oriented nanowire hybrid arrays on carbon nanotube	8.5	10 72 24
468 467 466 465 464	A facile fabrication of colorimetric graphene oxide reflecting films for ultrasensitive optical gas sensing. Sensors and Actuators B: Chemical, 2018, 261, 83-90  Self-Assembled Graphene Nanostructures and Their Applications. 2018, 39-74  Nitrogen-Doped Single Graphene Fiber with Platinum Water Dissociation Catalyst for Wearable Humidity Sensor. 2018, 14, e1703934  Flexible fiber-shaped energy storage devices: principles, progress, applications and challenges. 2018, 3, 013001  MOF for template-directed growth of well-oriented nanowire hybrid arrays on carbon nanotube fibers for wearable electronics integrated with triboelectric nanogenerators. 2018, 45, 420-431	8.5	10 72 24 121

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436	Understanding Deformation Motion of Colloidal Nanosheets from CLSM Images using Deep Learning-based Approach. <b>2018</b> ,	1	
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43 <sup>2</sup> 43 <sup>1</sup> 43 <sup>0</sup>	<ul> <li>&amp; Interfaces, 2018, 10, 43088-43094</li> <li>Ultratough Bioinspired Graphene Fiber via Sequential Toughening of Hydrogen and Ionic Bonding. 2018, 12, 12638-12645</li> <li>Sulfur-oleyl amine platelet derivatives with liquid crystalline behavior 2018, 8, 41480-41483</li> <li>Electrospinning synthesis of Li-Fe-P/PAN based micro-nanofibers as precursors for LiFePO4 cathode material in Li-ion fiber battery applications. 2018, 437, 012006</li> <li>Electrochemical performance of flexible graphene-based fibers as electrodes for wearable</li> </ul>	36	
43 <sup>2</sup> 43 <sup>1</sup> 43 <sup>0</sup> 429	With a sequential Toughening of Hydrogen and Ionic Bonding.  2018, 12, 12638-12645  Sulfur-oleyl amine platelet derivatives with liquid crystalline behavior 2018, 8, 41480-41483  Electrospinning synthesis of Li-Fe-P/PAN based micro-nanofibers as precursors for LiFePO4 cathode material in Li-ion fiber battery applications. 2018, 437, 012006  Electrochemical performance of flexible graphene-based fibers as electrodes for wearable supercapacitors. 2018, 246, 108-114  Reconstruction of Inherent Graphene Oxide Liquid Crystals for Large-Scale Fabrication of	36 3 2	
43 <sup>2</sup> 43 <sup>1</sup> 43 <sup>0</sup> 429 428	Ultratough Bioinspired Graphene Fiber via Sequential Toughening of Hydrogen and Ionic Bonding. 2018, 12, 12638-12645  Sulfur-oleyl amine platelet derivatives with liquid crystalline behavior 2018, 8, 41480-41483  Electrospinning synthesis of Li-Fe-P/PAN based micro-nanofibers as precursors for LiFePO4 cathode material in Li-ion fiber battery applications. 2018, 437, 012006  Electrochemical performance of flexible graphene-based fibers as electrodes for wearable supercapacitors. 2018, 246, 108-114  Reconstruction of Inherent Graphene Oxide Liquid Crystals for Large-Scale Fabrication of Structure-Intact Graphene Aerogel Bulk toward Practical Applications. 2018, 12, 11407-11416	36 3 2 14 73	

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423	Thermally Responsive Torsional and Tensile Fiber Actuator Based on Graphene Oxide. <i>ACS Applied Materials &amp; Discourse Materials &amp; Di</i>	9.5	26
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420	Electrical property of macroscopic graphene composite fibers prepared by chemical vapor deposition. <i>Nanotechnology</i> , <b>2018</b> , 29, 305601	3.4	3
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414	The properties of carbon fibers. <b>2018</b> , 841-871		8
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411	Introduction and Literature Review. <b>2018</b> , 1-45		
410	A Review of Carbon Nanomaterials' Synthesis via the Chemical Vapor Deposition (CVD) Method. <b>2018</b> , 11,		186
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408	Graphene oxide liquid crystals: a frontier 2D soft material for graphene-based functional materials. <b>2018</b> , 47, 6013-6045		88
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403	Preparation of Nano-composites Membranes with Graphic Oxides and Polylactic Acid. <b>2018</b> , 33, 995-998	1
402	Partial Nitridation-Induced Electrochemistry Enhancement of Ternary Oxide Nanosheets for Fiber Energy Storage Device. <b>2018</b> , 8, 1800685	54
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395	Large-Scale Conductive Yarns Based on Twistable Korean Traditional Paper (Hanji) for Supercapacitor Applications: Toward High-Performance Paper Supercapacitors. <b>2018</b> , 8, 1801854	33
394	Bending behavior of CNT fibers and their scaling laws. <b>2018</b> , 14, 8284-8292	14
393	A facile continuous wet-spinning of graphene oxide fibers from aqueous solutions at high pH with the introduction of ammonia. <i>Carbon</i> , <b>2018</b> , 138, 292-299	25
392	Isotropic, nematic, and lamellar phases in colloidal suspensions of nanosheets. 2018, 115, 6662-6667	44
391	Novel coaxial fiber-shaped sensing system integrated with an asymmetric supercapacitor and a humidity sensor. <b>2018</b> , 15, 315-323	38
390	Carbon-Based Polyaniline Nanocomposites for Supercapacitors. <b>2018</b> , 489-535	
389	Coupled Chiral Structure in Graphene-Based Film for Ultrahigh Thermal Conductivity in Both In-Plane and Through-Plane Directions. <i>ACS Applied Materials &amp; Directions and Through Plane Directions and Materials &amp; Directions and Through Plane Directions are set on the Plane Directions and Plane Directions are set on the Plane Directions and Plane Directions are set on the Plane Direction and Directions are set on the Plane Direction are set on the Plane D</i>	38

388	Fabrication of high-quality or highly porous graphene sheets from exfoliated graphene oxide via reactions in alkaline solutions. <i>Carbon</i> , <b>2018</b> , 138, 219-226	10.4	20
387	Capillarity-driven assembly of single-walled carbon nanotubes onto nickel wires for flexible wire-shaped supercapacitors. <b>2018</b> , 1, 91-96		8
386	Tri-high designed graphene electrodes for long cycle-life supercapacitors with high mass loading. <b>2019</b> , 17, 349-357		42
385	Lithium-ion battery fiber constructed by diverse-dimensional carbon nanomaterials. <b>2019</b> , 54, 582-591		15
384	Colloidal stability of halloysite clay nanotubes. <b>2019</b> , 45, 2858-2865		39
383	In Vivo Restoration of Myocardial Conduction With Carbon Nanotube Fibers. <b>2019</b> , 12, e007256		21
382	2D Crystal-Based Fibers: Status and Challenges. <b>2019</b> , 15, e1902691		26
381	Construction of surfactant/polymer/copolymer-templated mesoporous reduced graphene oxide nanoparticles for adsorption applications. <b>2019</b> , 4, 53-59		2
380	Highly conductive, flexible and functional multi-channel graphene microtube fabricated by electrospray deposition technique. <b>2019</b> , 54, 14378-14387		5
379	A Review on Graphene Polymer Nanocomposites in Harsh Operating Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 17106-17129	3.9	18
378	Highly Ordered Graphene Solid: An Efficient Platform for Capacitive Sodium-Ion Storage with Ultrahigh Volumetric Capacity and Superior Rate Capability. <b>2019</b> , 13, 9161-9170		31
377	Design and mechanistic understanding of graphene oxide reinforced zein nanocomposites with improved mechanical, barrier and thermal properties. <b>2019</b> , 54, 12533-12552		10
376	Multifunctional Fibers to Shape Future Biomedical Devices. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902834	15.6	51
375	Polymer-Brush-Decorated Graphene Oxide: Precision Synthesis and Liquid-Crystal Formation. <b>2019</b> , 35, 10900-10909		10
374	Highly Flexible and Stretchable Nanowire Superlattice Fibers Achieved by Spring-Like Structure of Sub-1 nm Nanowires. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1903477	15.6	8
373	A facile route to mechanically robust graphene oxide fibers <b>2019</b> , 9, 20248-20255		5
372	Millisecond tension-annealing for enhancing carbon nanotube fibers. <b>2019</b> , 11, 13909-13916		12
371	Janus Graphene Liquid Crystalline Fiber with Tunable Properties Enabled by Ultrafast Flash Reduction. <b>2019</b> , 15, e1901529		15

370	Mercerization to enhance flexibility and electromechanical stability of reduced graphene oxide cotton yarns. <b>2019</b> , 184, 107845		10	
369	Conformal 3D Nanopatterning by Block Copolymer Lithography with Vapor-Phase Deposited Neutral Adlayer. <b>2019</b> , 13, 13092-13099		10	
368	High-performance composite phase change materials for energy conversion based on macroscopically three-dimensional structural materials. <b>2019</b> , 6, 250-273		116	
367	Continuous Graphene Oxide Fiber and Its Applications. <b>2019</b> , 409-431			
366	Polyaniline-Modified Hierarchical Graphene Fiber for Ultrahigh-Performance Electrochemical Supercapacitor with Carbon Fiber in Core as Current Collector. <b>2019</b> , 7, 1900522		3	
365	Effect of pyrolyzed catecholamine polymers for concurrent enhancements of electrical conductivity and mechanical strength of graphene-based fibers. <b>2019</b> , 183, 107818		5	
364	Lyotropic Liquid Crystals from Colloidal Suspensions of Graphene Oxide. <b>2019</b> , 9, 455		6	
363	Hydrophilicity Improvement of Graphene Fibers for High-Performance Flexible Supercapacitor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 17338-17345	3.9	15	
362	Molecular Dynamics Study on the Mechanism of Graphene Oxide to Destabilize Oil/Water Emulsion. <b>2019</b> , 123, 22989-22999		19	
361	2D WS liquid crystals: tunable functionality enabling diverse applications. <b>2019</b> , 11, 16886-16895		3	
360	Flexible graphene oxide/mixed cellulose ester films for electricity generation and solar desalination. <b>2019</b> , 163, 114322		16	
359	Impact of graphene/graphene oxide on the mechanical properties of cellulose acetate membrane and promising natural seawater desalination. <b>2019</b> , 39, 794-804		4	
358	Polyacrylonitrile/liquid crystalline graphene oxide composite fibers <b>T</b> owards high performance carbon fiber precursors. <b>2019</b> , 182, 107781		18	
357	Graphene-based chiral liquid crystal materials for optical applications. <b>2019</b> , 7, 2146-2171		41	
356	Understanding the enhancement of Young modulus of macroscopic carbon nanotube fibers after polymer infiltration. <b>2019</b> ,		3	
355	Hybrid carbon nanostructured fibers: stepping stone for intelligent textile-based electronics. <b>2019</b> , 11, 3046-3101		46	
354	Recent progress in flexible non-lithium based rechargeable batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4353-4382	13	64	
353	Binder-free graphene oxide doughs. <i>Nature Communications</i> , <b>2019</b> , 10, 422	17.4	24	

352	Carbon-Nanomaterial-Based Flexible Batteries for Wearable Electronics. <i>Advanced Materials</i> , <b>2019</b> , 31, e1800716	24	144
351	Expanded graphene oxide fibers with high strength and increased elongation <b>2019</b> , 9, 4198-4202		7
350	Textile strain sensors: a review of the fabrication technologies, performance evaluation and applications. <b>2019</b> , 6, 219-249		193
349	Dual Engineering Interface-Driven Complementary Graphene Oxide-Protein Dimer Supramolecular Architecture Enables Nucleus Imaging and Therapy <b>2019</b> , 2, 2896-2906		2
348	Perspectives in Liquid-Crystal-Aided Nanotechnology and Nanoscience. <b>2019</b> , 9, 2512		47
347	Self-Assembly of Two-Dimensional Colloids in Spherical Space. <b>2019</b> , 123, 17049-17055		3
346	Flexible fiber-shaped supercapacitors with high energy density based on self-twisted graphene fibers. <b>2019</b> , 433, 226711		24
345	Preparation of sulfur-doped graphene fibers and their application in flexible fibriform micro-supercapacitors. <b>2019</b> , 13, 145-153		7
344	Ultra-Thin Conductive Graphitic Carbon Nitride Assembly through van der Waals Epitaxy toward High-Energy-Density Flexible Supercapacitors. <i>Nano Letters</i> , <b>2019</b> , 19, 4103-4111	11.5	55
343	Multifunctional reduced graphene oxide-CVD graphene core-shell fibers. <b>2019</b> , 11, 12637-12642		19
342	Reduced graphene oxide/carbon nanotube hybrid fibers with narrowly distributed mesopores for flexible supercapacitors with high volumetric capacitances and satisfactory durability. <i>Carbon</i> , <b>2019</b> , 152, 134-143	10.4	59
341	Preparation and Thermal Performance of Carboxyl Modified Graphene Oxide/Polyacrynitrile Composite Films. <b>2019</b> , 61, 215-221		
340	Enhanced gas barrier property of stacking-controlled reduced graphene oxide films for encapsulation of polymer solar cells. <i>Carbon</i> , <b>2019</b> , 150, 275-283	10.4	14
339	Graphene Fibers: Advancing Applications in Sensor, Energy Storage and Conversion. <b>2019</b> , 37, 535-547		14
338	Magnetic induced wet-spinning of graphene oxide sheets grafted with ferroferric oxide and the ultra-strain and elasticity of sensing fiber. <b>2019</b> , 170, 1-10		14
337	A scalable nano-engineering method to synthesize 3D-graphene-carbon nanotube hybrid fibers for supercapacitor applications. <b>2019</b> , 312, 411-423		24
336	Modification of chiral liquid crystal polymers by charged 2D nanoplatelets towards colorful nanocomposites with tunable wetability. <b>2019</b> , 52, 285304		3
335	CoNi-layered double hydroxide array on graphene-based fiber as a new electrode material for microsupercapacitor. <i>Applied Surface Science</i> , <b>2019</b> , 487, 1-8	6.7	12

334	Green mass synthesis of graphene oxide and its MnO2 composite for high performance supercapacitor. <b>2019</b> , 312, 11-21		51	
333	The Rise of Fiber Electronics. <b>2019</b> , 131, 13778-13788		11	
332	The Rise of Fiber Electronics. <b>2019</b> , 58, 13643-13653		48	
331	An All-Inorganic Colloidal Nanocrystal Flexible Polarizer. <b>2019</b> , 58, 8730-8735		21	
330	An All-Inorganic Colloidal Nanocrystal Flexible Polarizer. <b>2019</b> , 131, 8822-8827		4	
329	Handedness-controlled and solvent-driven actuators with twisted fibers. <b>2019</b> , 6, 1207-1214		24	
328	A Review of Supercapacitors Based on Graphene and Redox-Active Organic Materials. 2019, 12,		38	
327	Mordant inspired wet-spinning of graphene fibers for high performance flexible supercapacitors. Journal of Materials Chemistry A, 2019, 7, 6869-6876	13	27	
326	Synergistic impact of graphene and carbon nanotubes on waste paper for hybrid nanocomposite substrates. <b>2019</b> , 26, 3935-3954		7	
325	Size Effects on the Mechanical Properties of Nanoporous Graphene Networks. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900311	15.6	13	
324	Attapulgite nanofibers and graphene oxide composite membrane for high-performance molecular separation. <b>2019</b> , 545, 276-281		19	
323	A Photoaddressable Liquid Crystalline Phase Transition in Graphene Oxide Nanocomposites. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900738	15.6	1	
322	Carbon Nanotube and Graphene Fibers for Wearable Fiber-Shaped Energy Conversion. <b>2019</b> , 359-381		1	
321	Fabrication of bagel-like graphene aerogels and its application in pressure sensors. <b>2019</b> , 28, 055020		5	
320	All-carbon fiber-based chemical sensor: Improved reversible NO2 reaction kinetics. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 290, 293-301	8.5	18	
319	Microscope Observation of Morphology of Colloidally Dispersed Niobate Nanosheets Combined with Optical Trapping. <b>2019</b> , 35, 5568-5573		3	
318	Computationally efficient simulation method for conductivity modeling of 2D-based conductors. <b>2019</b> , 161, 364-370		3	
317	Scalable concentration process of graphene oxide dispersions via cross-flow membrane filtration. <b>2019</b> , 200, 127-137		13	

316	Surface functionalization effect of graphene oxide on its liquid crystalline and assembly behaviors. <i>Applied Surface Science</i> , <b>2019</b> , 480, 514-522	6.7	15
315	Three-Dimensional Porous Carbon Nanotubes/Reduced Graphene Oxide Fiber from Rapid Phase Separation for a High-Rate All-Solid-State Supercapacitor. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2019</b> , 11, 9283-9290	9.5	53
314	Research on Application of New Types of Fiber Reinforced Composites in Safety Technology. <b>2019</b> , 562, 012051		
313	Enlargement of blue-phase stability by modified graphene oxide platelets. <b>2019</b> , 689, 1-9		2
312	Flexible heteroatom-doped graphitic hollow carbon fibers for ultrasensitive and reusable electric current sensing. <b>2019</b> , 55, 12853-12856		2
311	Path towards graphene commercialization from lab to market. <b>2019</b> , 14, 927-938		126
310	Application of graphene derivatives and their nanocomposites in tribology and lubrication: a review <b>2019</b> , 9, 40642-40661		38
309	All Fiber Based Electrochemical Capacitor towards Wearable AC Line Filters with Outstanding Rate Capability. <b>2019</b> , 6, 1450-1457		6
308	Temperature-responsive and piezoresistive performances of poly(N- isopropylacrylamide)-grafted reduced graphene oxide smart fiber. <b>2019</b> , 169, 186-194		8
307	Synchronous enhancement and stabilization of graphene oxide liquid crystals: Inductive effect of sodium alginates in different concentration zones. <b>2019</b> , 160, 107-114		17
306	Porous Graphene-Carbon Nanotube Scaffolds for Fiber Supercapacitors. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2019</b> , 11, 9011-9022	9.5	59
305	The liquid crystalline order, rheology and their correlation in chitin whiskers suspensions. <b>2019</b> , 209, 92-100		8
304	Microfluidics-enabled orientation and microstructure control of macroscopic graphene fibres. <b>2019</b> , 14, 168-175		129
303	Elastomer-Free, Stretchable, and Conformable Silver Nanowire Conductors Enabled by Three-Dimensional Buckled Microstructures. <i>ACS Applied Materials &amp; Discourse and State Sta</i>	4 <b>9</b> ·5	22
302	Wet-spun poly(ionic liquid)-graphene hybrid fibers for high performance all-solid-state flexible supercapacitors. <b>2019</b> , 34, 104-110		19
301	Joule heating-induced sp2-restoration in graphene fibers. <i>Carbon</i> , <b>2019</b> , 142, 230-237	10.4	27
300	Structure and electrocatalytic activity of flexible reduced graphene oxide/fullerene smart fiber. <i>Carbon</i> , <b>2019</b> , 142, 411-419	10.4	9
299	Graphene-Based Transparent Conductive Films: Material Systems, Preparation and Applications. <b>2019</b> , 3, 1800199		94

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298	Ultralight, Superelastic, and Fatigue-Resistant Graphene Aerogel Templated by Graphene Oxide Liquid Crystal Stabilized Air Bubbles. <i>ACS Applied Materials &amp; Distributed Mater</i>	9.5	37
297	Nanoparticle intercalation-modulated stretchable conductive graphene fibers with combined photoelectric properties. <i>Carbon</i> , <b>2019</b> , 141, 218-225	10.4	17
296	Carbon nanotube- and graphene-based nanomaterials and applications in high-voltage supercapacitor: A review. <i>Carbon</i> , <b>2019</b> , 141, 467-480	10.4	386
295	Nature-Inspired Emerging Chiral Liquid Crystal Nanostructures: From Molecular Self-Assembly to DNA Mesophase and Nanocolloids. <i>Advanced Materials</i> , <b>2020</b> , 32, e1801335	24	138
294	Recent Advances in Fiber Supercapacitors: Materials, Device Configurations, and Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e1901806	24	126
293	Graphene for Energy Storage and Conversion: Synthesis and Interdisciplinary Applications. <b>2020</b> , 3, 395	-430	39
292	Recent Advances in 1D Stretchable Electrodes and Devices for Textile and Wearable Electronics: Materials, Fabrications, and Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902532	24	111
291	Recent progress in graphene-based electrodes for flexible batteries. <b>2020</b> , 2, 509-526		68
290	Graphene and graphene oxide-reinforced 3D and 4D printable composites. <b>2020</b> , 259-296		2
289	Flexible visible-light-driven photoelectrochemical biosensor based on molecularly imprinted nanoparticle intercalation-modulated graphene fiber for ultrasensitive urea detection. <i>Carbon</i> , <b>2020</b> , 157, 457-465	10.4	27
288	A Review on Graphene Fibers: Expectations, Advances, and Prospects. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902664	24	126
287	Preparation and properties of melt-spun poly(fluorinated ethylene-propylene)/graphene composite fibers. <b>2020</b> , 41, 233-243		3
286	A Route Toward Smart System Integration: From Fiber Design to Device Construction. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902301	24	67
285	Graphene-Based Fibers: Recent Advances in Preparation and Application. <i>Advanced Materials</i> , <b>2020</b> , 32, e1901979	24	50
284	Facile fabrication of flexible rGO/MXene hybrid fiber-like electrode with high volumetric capacitance. <b>2020</b> , 448, 227398		30
283	Textile-Based Strain Sensor for Human Motion Detection. <b>2020</b> , 3, 80-100		49
282	Characterization and evaluation of FeNIC electrocatalysts for oxygen reduction directly synthesized by reactive spray deposition technology. <b>2020</b> , 55, 1673-1691		4
281	Graphene oxide in aqueous and nonaqueous media: Dispersion behaviour and solution chemistry. <i>Carbon</i> , <b>2020</b> , 158, 568-579	10.4	28

280	Wood annual ring structured elastomer composites with high thermal conduction enhancement efficiency. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 123467	14.7	22
279	Recent Advances in Fiber-Shaped Supercapacitors and Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902779	24	83
278	Coordination-Driven Hierarchical Assembly of Hybrid Nanostructures Based on 2D Materials. <b>2020</b> , 16, e1902779		6
277	Interfacial polyelectrolyte complexation spinning of graphene/cellulose nanofibrils for fiber-shaped electrodes. <b>2020</b> , 35, 122-131		4
276	Graphene-based wearable piezoresistive physical sensors. <b>2020</b> , 36, 158-179		109
275	Ultra-tough and highly ordered macroscopic fiber assembly from 2D functional metal oxide nanosheet liquid crystals and strong ionic interlayer bridging. <b>2020</b> , 12, 1374-1383		3
274	ZnO decorated flexible and strong graphene fibers for sensing NO2 and H2S at room temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 308, 127690	8.5	43
273	Torsional artificial muscles. <b>2020</b> , 7, 667-693		39
272	Liquid crystalline 3D printing for superstrong graphene microlattices with high density. <i>Carbon</i> , <b>2020</b> , 159, 166-174	10.4	14
271	Twist-spinning assembly of robust ultralight graphene fibers with hierarchical structure and multi-functions. <i>Carbon</i> , <b>2020</b> , 158, 157-162	10.4	7
270	Non-woven fabric electrodes based on graphene-based fibers for areal-energy-dense flexible solid-state supercapacitors. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123692	14.7	30
269	Selected functionalization of continuous graphene fibers for integrated energy conversion and storage. <b>2020</b> , 65, 486-495		18
268	Structural, optical and rheological behavior investigations of graphene oxide/glycerol based lyotropic liquid crystalline phases. <i>Applied Surface Science</i> , <b>2020</b> , 509, 144710	6.7	7
267	Hierarchical core-shell fibers of graphene fiber/radially-aligned molybdenum disulfide nanosheet arrays for highly efficient energy storage. <b>2020</b> , 828, 153622		15
266	Engineered metal nanoparticles in the marine environment: A review of the effects on marine fauna. <b>2020</b> , 161, 105110		14
265	Stretchable, self-healing, conductive hydrogel fibers for strain sensing and triboelectric energy-harvesting smart textiles. <b>2020</b> , 78, 105389		94
264	Cutting edge development on graphene derivatives modified by liquid crystal and CdS/TiO2 hybrid matrix: optoelectronics and biotechnological aspects. <b>2020</b> , 1-65		37
263	Novel Trends in Lyotropic Liquid Crystals. <b>2020</b> , 10, 604		20

262 Fiber Composites Made of Low-Dimensional Carbon Materials. 2020,

261	2D graphene oxide liquid crystal for real-world applications: Energy, environment, and antimicrobial. <b>2020</b> , 8, 070903		12
260	Enhanced saltwater stability of CNT wires under electrical bias. <i>Carbon</i> , <b>2020</b> , 168, 180-192	10.4	1
259	Conformational Scaling Relations of Two-Dimensional Macromolecular Graphene Oxide in Solution. <b>2020</b> , 53, 10421-10430		8
258	Scalable microgel spinning of a three-dimensional porous graphene fiber for high-performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 25355-25362	13	15
257	Conformation Engineering of Two-Dimensional Macromolecules: A Case Study with Graphene Oxide. <b>2020</b> , 1, 175-187		6
256	Graphene Oxide Concentration Effect on the Optoelectronic Properties of ZnO/GO Nanocomposites. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	8
255	Highly Flexible and Self-Healable Zinc-Ion Hybrid Supercapacitors Based on MWCNTs-RGO Fibers. <b>2020</b> , 5, 2000268		15
254	Alternately Dipping Method to Prepare Graphene Fiber Electrodes for Ultra-high-Capacitance Fiber Supercapacitors. <b>2020</b> , 23, 101396		8
253	Graphene-Based Helical Micromotors Constructed by "Microscale Liquid Rope-Coil Effect" with Microfluidics. <b>2020</b> ,		28
252	Graphene Oxide Nanoribbon Hydrogel: Viscoelastic Behavior and Use as a Molecular Separation Membrane. <b>2020</b> , 14, 12195-12202		20
251	Highly Crystalline Graphene Fibers with Superior Strength and Conductivities by Plasticization Spinning. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2006584	15.6	31
250	3D Graphene Materials: From Understanding to Design and Synthesis Control. <i>Chemical Reviews</i> , <b>2020</b> , 120, 10336-10453	68.1	117
249	Melt Spinning of Low-Cost Activated Carbon Fiber with a Tunable Pore Structure for High-Performance Flexible Supercapacitors. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 9360-9368	6.1	9
248	Ultrahigh Strength and Modulus Graphene-Based Hybrid Carbons with AB-Stacked and Turbostratic Structures. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2005381	15.6	5
247	Carbon Allotropes as ITO Electrode Replacement Materials in Liquid Crystal Devices. <b>2020</b> , 6, 80		2
246	Microstructure of fibres pressure-spun from polyacrylonitrile@raphene oxide composite mixtures. <b>2020</b> , 197, 108214		3
245	MXene-Based Fibers, Yarns, and Fabrics for Wearable Energy Storage Devices. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2000739	15.6	68

244	Self-assembly of graphene oxide and cellulose nanocrystals into continuous filament via interfacial nanoparticle complexation. <b>2020</b> , 193, 108791		10
243	Direct fabrication of graphene oxide fiber by injection spinning for flexible and wearable electronics. <b>2020</b> , 55, 12065-12081		6
242	Effect of graphene oxide dispersion in antiferroelectric liquid crystal mixture in the verge of SmC* to SmCA* phase transition. <b>2020</b> , 67, 91-106		3
241	Flexible fiber-shaped lithium and sodium-ion batteries with exclusive ion transport channels and superior pseudocapacitive charge storage. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11155-11164	13	4
240	Continuous crystalline graphene papers with gigapascal strength by intercalation modulated plasticization. <i>Nature Communications</i> , <b>2020</b> , 11, 2645	17.4	39
239	Self-Planarization of High-Performance Graphene Liquid Crystalline Fibers by Hydration. <b>2020</b> , 6, 1105-	1114	8
238	Nonwoven rGO Fiber-Aramid Separator for High-Speed Charging and Discharging of Li Metal Anode. <b>2020</b> , 10, 2001479		23
237	Large-scale wet-spinning of highly electroconductive MXene fibers. <i>Nature Communications</i> , <b>2020</b> , 11, 2825	17.4	86
236	Boosting storage properties of reduced graphene oxide fiber modified with MOFs-derived porous carbon through a wet-spinning fiber strategy. <i>Nanotechnology</i> , <b>2020</b> , 31, 395603	3.4	3
235	Mechanical properties and applications. <b>2020</b> , 373-414		
234	Freeze Casting: From Low-Dimensional Building Blocks to Aligned Porous Structures-A Review of Novel Materials, Methods, and Applications. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907176	24	144
233	Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. <b>2020</b> , 113, 100665		37
232	Review⊞eterogeneous 3D Graphene Derivatives for Supercapacitors. <b>2020</b> , 167, 050509		15
231	Multifunctional Pure MXene Fiber from Liquid Crystals of Only Water and MXene. <b>2020</b> , 6, 344-346		8
230	Fiber-shaped Supercapacitors: Advanced Strategies toward High-performances and Multi-functions. <b>2020</b> , 38, 403-422		8
229	Graphene oxide coated flower-shaped ZnO nanorods: Optoelectronic properties. <b>2020</b> , 831, 154874		10
228	Anisotropic Thermal Transport in Spray-Coated Single-Phase Two-Dimensional Materials: Synthetic Clay Versus Graphene Oxide. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2020</b> , 12, 18785-18791	9.5	10
227	Chirally Reversed Graphene Oxide Liquid Crystals. <b>2020</b> , 7, 2001269		4

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226	Laser-induced graphene enabled 1D fiber electronics. <i>Carbon</i> , <b>2020</b> , 168, 308-318	10.4	17
225	High-Performance Graphene Fibers Enabled by Hydration. <b>2020</b> , 6, 1040-1042		2
224	Graphene/Polymer Hybrid Fiber with Enhanced Fracture Elongation for Thermoelectric Energy Harvesting. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6165-6171	6.1	15
223	Multifunctional g-C3N4/Ag NPs intercalated GO composite membrane for SERS detection and photocatalytic degradation of paraoxon-ethyl. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 126223	14.7	28
222	Rational design of hierarchical carbon hybrid microassemblies via reductive-catalytic chemical vapor deposition. <i>Carbon</i> , <b>2020</b> , 167, 422-430	10.4	5
221	Polyaniline/graphene hybrid fibers as electrodes for flexible supercapacitors. <b>2020</b> , 268, 116484		23
220	Additive-Free MXene Liquid Crystals and Fibers. <b>2020</b> , 6, 254-265		73
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218	Continuous graphene fibers prepared by liquid crystal spinning as strain sensors for Monitoring Vital Signs. <b>2020</b> , 24, 100909		11
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	Graphene functionalized hybrid nanomaterials for industrial-scale applications: A systematic	10.4	
126	Graphene functionalized hybrid nanomaterials for industrial-scale applications: A systematic review. <b>2021</b> , 1239, 130518  Ascorbic acid-assisted defect healing and stack ordering of graphene films towards high power		
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126 125 124 123	Graphene functionalized hybrid nanomaterials for industrial-scale applications: A systematic review. 2021, 1239, 130518  Ascorbic acid-assisted defect healing and stack ordering of graphene films towards high power thermal dispersion. <i>Carbon</i> , 2021, 182, 799-805  Three-dimensional printing of graphene-based materials for energy storage and conversion. 2021, 1, 304-323  Micromechanical Landscape of Three-Dimensional Disordered Graphene Networks. <i>Nano Letters</i> , 2021, 21, 8401-8408  Facile Fabrication of Polyaniline/Graphene Composite Fibers as Electrodes for Fiber-Shaped Supercapacitors. 2021, 11, 8690  Advanced materials for personal thermal and moisture management of health care workers	10.4	<ul><li>2</li><li>16</li><li>5</li><li>2</li></ul>

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