

Kai Wu

List of Publications by Year in Descending Order

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Version: 2024-04-19

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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.

51
papers

1,796
citations

21
h-index

42
g-index

53
ext. papers

2,623
ext. citations

10.4
avg, IF

5.44
L-index

#	Paper	IF	Citations
51	Semiconvertible Hyaluronic Hydrogel Enabled Red-Light-Responsive Reversible Mechanics, Adhesion, and Self-Healing.. <i>Biomacromolecules</i> , 2022 ,	6.9	1
50	Aldehyde-methacrylate-hyaluronan profited hydrogel system integrating aligned and viscoelastic cues for neurogenesis.. <i>Carbohydrate Polymers</i> , 2022 , 278, 118961	10.3	1
49	The effect of filler permittivity on the dielectric properties of polymer-based composites. <i>Composites Science and Technology</i> , 2022 , 222, 109342	8.6	2
48	Highly thermoconductive yet ultraflexible polymer composites with superior mechanical properties and autonomous self-healing functionality a binary filler strategy. <i>Materials Horizons</i> , 2021 ,	14.4	5
47	One-step synthesis of ultrabright amphiphilic carbon dots for rapid and precise tracking lipid droplets dynamics in biosystems.. <i>Biosensors and Bioelectronics</i> , 2021 , 200, 113928	11.8	2
46	Reconfigurable and Renewable Nano-Micro-Structured Plastics for Radiative Cooling. <i>Advanced Functional Materials</i> , 2021 , 31, 2100535	15.6	19
45	Static-Dynamic Profited Viscoelastic Hydrogels for Motor-Clutch-Regulated Neurogenesis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24463-24476	9.5	6
44	Thermo-conductive phase change materials with binary fillers of core-shell-like distribution. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 144, 106326	8.4	6
43	Fully Organic Bulk Polymer with Metallic Thermal Conductivity and Tunable Thermal Pathways. <i>Advanced Science</i> , 2021 , 8, e2004821	13.6	10
42	One-step alkyl-modification on boron nitride nanosheets for polypropylene nanocomposites with enhanced thermal conductivity and ultra-low dielectric loss. <i>Composites Science and Technology</i> , 2021 , 208, 108756	8.6	15
41	Magnetolectric Nanoparticles Incorporated Biomimetic Matrix for Wireless Electrical Stimulation and Nerve Regeneration. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100695	10.1	6
40	Highly thermo-conductive but electrically insulating filament via a volume-confinement self-assembled strategy for thermoelectric wearables. <i>Chemical Engineering Journal</i> , 2021 , 421, 127764	14.7	3
39	A self-reinforcing and self-healing elastomer with high strength, unprecedented toughness and room-temperature reparability. <i>Materials Horizons</i> , 2021 , 8, 267-275	14.4	53
38	Fiber-reinforced monolithic supercapacitors with interdigitated interfaces. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11033-11041	13	1
37	Improved dielectric and energy storage properties of polypropylene by adding hybrid fillers and high-speed extrusion. <i>Polymer</i> , 2021 , 214, 123348	3.9	14
36	The effect of cellulose molecular weight on internal structure and properties of regenerated cellulose fibers as spun from the alkali/urea aqueous system. <i>Polymer</i> , 2021 , 215, 123379	3.9	5
35	Insights into the microstructures and reinforcement mechanism of nano-fibrillated cellulose/MXene based electromagnetic interference shielding film. <i>Cellulose</i> , 2021 , 28, 3311-3325	5.5	7

34	Dragonfly wing-inspired architecture makes a stiff yet tough healable material. <i>Matter</i> , 2021 , 4, 2474-2482	2.7	22
33	Controlled Vertically Aligned Structures in Polymer Composites: Natural Inspiration, Structural Processing, and Functional Application. <i>Advanced Materials</i> , 2021 , e2103495	24	8
32	Highly thermo-conductive yet electrically insulating material with perpendicularly engineered assembly of boron nitride nanosheets. <i>Composites Science and Technology</i> , 2021 , 214, 108995	8.6	4
31	A Multidirectionally Thermoconductive Phase Change Material Enables High and Durable Electricity Real-Environment Solar-Thermal-Electric Conversion. <i>ACS Nano</i> , 2020 , 14, 15738-15747	16.7	61
30	Metal-Level Robust, Folding Endurance, and Highly Temperature-Stable MXene-Based Film with Engineered Aramid Nanofiber for Extreme-Condition Electromagnetic Interference Shielding Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26485-26495	9.5	56
29	Addressing the challenge of fabricating a high content regenerated cellulose/nanomaterial composite: the magical effect of urea. <i>Green Chemistry</i> , 2020 , 22, 4121-4127	10	4
28	Highly Thermoconductive, Thermostable, and Super-Flexible Film by Engineering 1D Rigid Rod-Like Aramid Nanofiber/2D Boron Nitride Nanosheets. <i>Advanced Materials</i> , 2020 , 32, e1906939	24	101
27	Is filler orientation always good for thermal management performance: A visualized study from experimental results to simulative analysis. <i>Chemical Engineering Journal</i> , 2020 , 394, 124929	14.7	23
26	Tunable Fast Relaxation in Imine-Based Nanofibrillar Hydrogels Stimulates Cell Response through TRPV4 Activation. <i>Biomacromolecules</i> , 2020 , 21, 3745-3755	6.9	10
25	Spatiotemporal regulation of dynamic cell microenvironment signals based on an azobenzene photoswitch. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 9212-9226	7.3	7
24	A Dual-Crosslinked and Anisotropic Regenerated Cellulose/Boron Nitride Nanosheets Film With High Thermal Conductivity, Mechanical Strength, and Toughness. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 602318	5.8	1
23	Largely enhanced energy density of polypropylene based nanocomposites via synergistic hybrid fillers and high shear extrusion assisted dispersion. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 119, 134-144	8.4	20
22	Preparation of highly thermally conductive but electrically insulating composites by constructing a segregated double network in polymer composites. <i>Composites Science and Technology</i> , 2019 , 175, 135-142	8.6	44
21	Surface modifications of boron nitride nanosheets for poly(vinylidene fluoride) based film capacitors: advantages of edge-hydroxylation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7664-7674	13	52
20	Utilizing ammonium persulfate assisted expansion to fabricate flexible expanded graphite films with excellent thermal conductivity by introducing wrinkles. <i>Carbon</i> , 2019 , 153, 565-574	10.4	19
19	Phase change material with anisotropically high thermal conductivity and excellent shape stability due to its robust cellulose/BNNSs skeleton. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19364-19373	13	62
18	Green Production of Regenerated Cellulose/Boron Nitride Nanosheet Textiles for Static and Dynamic Personal Cooling. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40685-40693	9.5	35
17	Largely enhanced energy storage density of poly(vinylidene fluoride) nanocomposites based on surface hydroxylation of boron nitride nanosheets. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7573-7584	13	90

16	Graphene enhanced flexible expanded graphite film with high electric, thermal conductivities and EMI shielding at low content. <i>Carbon</i> , 2018 , 133, 435-445	10.4	80
15	New insight of high temperature oxidation on self-exfoliation capability of graphene oxide. <i>Nanotechnology</i> , 2018 , 29, 185601	3.4	8
14	Preparation of a thermally conductive biodegradable cellulose nanofiber/hydroxylated boron nitride nanosheet film: the critical role of edge-hydroxylation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11863-11873	13	71
13	Design and Preparation of a Unique Segregated Double Network with Excellent Thermal Conductive Property. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7637-7647	9.5	115
12	Largely improved thermal conductivity of HDPE/expanded graphite/carbon nanotubes ternary composites via filler network-network synergy. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 99, 32-40	8.4	112
11	Ultrathin flexible reduced graphene oxide/cellulose nanofiber composite films with strongly anisotropic thermal conductivity and efficient electromagnetic interference shielding. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3748-3756	7.1	188
10	Constructing conductive multi-walled carbon nanotubes network inside hexagonal boron nitride network in polymer composites for significantly improved dielectric property and thermal conductivity. <i>Composites Science and Technology</i> , 2017 , 151, 193-201	8.6	31
9	Achieving a Collapsible, Strong, and Highly Thermally Conductive Film Based on Oriented Functionalized Boron Nitride Nanosheets and Cellulose Nanofiber. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30035-30045	9.5	167
8	Preparation of nylon MXD6/EG/CNTs ternary composites with excellent thermal conductivity and electromagnetic interference shielding effectiveness. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017 , 35, 1497-1507	3.5	21
7	Surface modification of boron nitride by reduced graphene oxide for preparation of dielectric material with enhanced dielectric constant and well-suppressed dielectric loss. <i>Composites Science and Technology</i> , 2016 , 134, 191-200	8.6	71
6	Largely enhanced electrical properties of polymer composites via the combined effect of volume exclusion and synergy. <i>RSC Advances</i> , 2016 , 6, 51900-51907	3.7	8
5	Largely enhanced thermal and electrical conductivity via constructing double percolated filler network in polypropylene/expanded graphite [Multi-wall carbon nanotubes ternary composites. <i>Composites Science and Technology</i> , 2016 , 130, 28-35	8.6	62
4	Polydopamine coating layer on graphene for suppressing loss tangent and enhancing dielectric constant of poly(vinylidene fluoride)/graphene composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015 , 73, 85-92	8.4	69
3	A Structured Phase Change Material with Controllable Thermoconductive Highways Enables Unparalleled Electricity via Solar-Thermal-Electric Conversion. <i>Advanced Functional Materials</i> , 2109255	15.6	6
2	Knittable Composite Fiber Allows Constant and Tremendous Self-Powering Based on the Transpiration-Driven Electrokinetic Effect. <i>Advanced Functional Materials</i> , 2203666	15.6	0
1	A Universal Mechanochemistry Allows On-Demand Synthesis of Stable and Processable Liquid Metal Composites. <i>Small Methods</i> , 2200246	12.8	3