

Kai Wu

List of Publications by Year in descending order

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53
papers

3,527
citations

159585
30
h-index

168389
53
g-index

53
all docs

53
docs citations

53
times ranked

2593
citing authors

#	ARTICLE	IF	CITATIONS
1	A Structured Phase Change Material with Controllable Thermoconductive Highways Enables Unparalleled Electricity via Solar-Thermal-Electric Conversion. <i>Advanced Functional Materials</i> , 2022, 32, 2109255.	14.9	49
2	Highly thermoconductive yet ultraflexible polymer composites with superior mechanical properties and autonomous self-healing functionality via a binary filler strategy. <i>Materials Horizons</i> , 2022, 9, 640-652.	12.2	53
3	Aldehyde-methacrylate-hyaluronan profited hydrogel system integrating aligned and viscoelastic cues for neurogenesis. <i>Carbohydrate Polymers</i> , 2022, 278, 118961.	10.2	9
4	One-step synthesis of ultrabright amphiphilic carbon dots for rapid and precise tracking lipid droplets dynamics in biosystems. <i>Biosensors and Bioelectronics</i> , 2022, 200, 113928.	10.1	26
5	Semiconvertible Hyaluronic Hydrogel Enabled Red-Light-Responsive Reversible Mechanics, Adhesion, and Self-Healing. <i>Biomacromolecules</i> , 2022, 23, 1030-1040.	5.4	19
6	A thermally conductive interface material with tremendous and reversible surface adhesion promises durable cross-interface heat conduction. <i>Materials Horizons</i> , 2022, 9, 1690-1699.	12.2	55
7	The effect of filler permittivity on the dielectric properties of polymer-based composites. <i>Composites Science and Technology</i> , 2022, 222, 109342.	7.8	20
8	Knittable Composite Fiber Allows Constant and Tremendous Self-Powering Based on the Transpiration-Driven Electrokinetic Effect. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
9	A Universal Mechanochemistry Allows On-Demand Synthesis of Stable and Processable Liquid Metal Composites. <i>Small Methods</i> , 2022, 6, .	8.6	24
10	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.	12.7	14
11	A self-reinforcing and self-healing elastomer with high strength, unprecedented toughness and room-temperature reparability. <i>Materials Horizons</i> , 2021, 8, 267-275.	12.2	161
12	Fiber-reinforced monolithic supercapacitors with interdigitated interfaces. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11033-11041.	10.3	6
13	Improved dielectric and energy storage properties of polypropylene by adding hybrid fillers and high-speed extrusion. <i>Polymer</i> , 2021, 214, 123348.	3.8	30
14	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.	3.8	22
15	Insights into the microstructures and reinforcement mechanism of nano-fibrillated cellulose/MXene based electromagnetic interference shielding film. <i>Cellulose</i> , 2021, 28, 3311-3325.	4.9	31
16	Reconfigurable and Renewable Nano-Micro-Structured Plastics for Radiative Cooling. <i>Advanced Functional Materials</i> , 2021, 31, 2100535.	14.9	58
17	Static-Dynamic Profited Viscoelastic Hydrogels for Motor-Clutch-Regulated Neurogenesis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24463-24476.	8.0	23
18	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.	7.6	21

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19	Fully Organic Bulk Polymer with Metallic Thermal Conductivity and Tunable Thermal Pathways. <i>Advanced Science</i> , 2021, 8, e2004821.	11.2	51
20	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.	7.8	51
21	Magnetoelectric Nanoparticles Incorporated Biomimetic Matrix for Wireless Electrical Stimulation and Nerve Regeneration. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100695.	7.6	59
22	Dragonfly wing-inspired architecture makes a stiff yet tough healable material. <i>Matter</i> , 2021, 4, 2474-2489.	10.0	63
23	Controlled Vertically Aligned Structures in Polymer Composites: Natural Inspiration, Structural Processing, and Functional Application. <i>Advanced Materials</i> , 2021, 33, e2103495.	21.0	62
24	Highly thermo-conductive yet electrically insulating material with perpendicularly engineered assembly of boron nitride nanosheets. <i>Composites Science and Technology</i> , 2021, 214, 108995.	7.8	29
25	Antioxidative and Conductive Nanoparticles-Embedded Cell Niche for Neural Differentiation and Spinal Cord Injury Repair. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52346-52361.	8.0	35
26	Tunable Fast Relaxation in Imine-Based Nanofibrillar Hydrogels Stimulates Cell Response through TRPV4 Activation. <i>Biomacromolecules</i> , 2020, 21, 3745-3755.	5.4	20
27	Spatiotemporal regulation of dynamic cell microenvironment signals based on an azobenzene photoswitch. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9212-9226.	5.8	8
28	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.	4.1	3
29	A Multidirectionally Thermoconductive Phase Change Material Enables High and Durable Electricity <i>via</i> Real-Environment Solar-Thermal-Electric Conversion. <i>ACS Nano</i> , 2020, 14, 15738-15747.	14.6	152
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.	8.0	113
31	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.	9.0	7
32	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.	21.0	234
33	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.	12.7	52
34	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.	10.3	29
35	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.	10.3	103
36	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.	8.0	61

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37	Largely enhanced energy density of polypropylene based nanocomposites via synergistic hybrid fillers and high shear extrusion assisted dispersion. Composites Part A: Applied Science and Manufacturing, 2019, 119, 134-144.	7.6	33
38	Preparation of highly thermally conductive but electrically insulating composites by constructing a segregated double network in polymer composites. Composites Science and Technology, 2019, 175, 135-142.	7.8	70
39	Surface modifications of boron nitride nanosheets for poly(vinylidene fluoride) based film capacitors: advantages of edge-hydroxylation. Journal of Materials Chemistry A, 2019, 7, 7664-7674.	10.3	82
40	Largely enhanced energy storage density of poly(vinylidene fluoride) nanocomposites based on surface hydroxylation of boron nitride nanosheets. Journal of Materials Chemistry A, 2018, 6, 7573-7584.	10.3	139
41	Graphene enhanced flexible expanded graphite film with high electric, thermal conductivities and EMI shielding at low content. Carbon, 2018, 133, 435-445.	10.3	104
42	New insight of high temperature oxidation on self-exfoliation capability of graphene oxide. Nanotechnology, 2018, 29, 185601.	2.6	11
43	Preparation of a thermally conductive biodegradable cellulose nanofiber/hydroxylated boron nitride nanosheet film: the critical role of edge-hydroxylation. Journal of Materials Chemistry A, 2018, 6, 11863-11873.	10.3	119
44	Design and Preparation of a Unique Segregated Double Network with Excellent Thermal Conductive Property. ACS Applied Materials & Interfaces, 2017, 9, 7637-7647.	8.0	155
45	Largely improved thermal conductivity of HDPE/expanded graphite/carbon nanotubes ternary composites via filler network-network synergy. Composites Part A: Applied Science and Manufacturing, 2017, 99, 32-40.	7.6	143
46	Ultrathin flexible reduced graphene oxide/cellulose nanofiber composite films with strongly anisotropic thermal conductivity and efficient electromagnetic interference shielding. Journal of Materials Chemistry C, 2017, 5, 3748-3756.	5.5	294
47	Constructing conductive multi-walled carbon nanotubes network inside hexagonal boron nitride network in polymer composites for significantly improved dielectric property and thermal conductivity. Composites Science and Technology, 2017, 151, 193-201.	7.8	43
48	Achieving a Collapsible, Strong, and Highly Thermally Conductive Film Based on Oriented Functionalized Boron Nitride Nanosheets and Cellulose Nanofiber. ACS Applied Materials & Interfaces, 2017, 9, 30035-30045.	8.0	258
49	Preparation of nylon MXD6/EG/CNTs ternary composites with excellent thermal conductivity and electromagnetic interference shielding effectiveness. Chinese Journal of Polymer Science (English) Tj ETQq1 1 0.78431 4 rgBT34 Overlaid	4.3	10
50	Largely enhanced thermal and electrical conductivity via constructing double percolated filler network in polypropylene/expanded graphite “ Multi-wall carbon nanotubes ternary composites. Composites Science and Technology, 2016, 130, 28-35.	7.8	86
51	Surface modification of boron nitride by reduced graphene oxide for preparation of dielectric material with enhanced dielectric constant and well-suppressed dielectric loss. Composites Science and Technology, 2016, 134, 191-200.	7.8	98
52	Largely enhanced electrical properties of polymer composites via the combined effect of volume exclusion and synergy. RSC Advances, 2016, 6, 51900-51907.	3.6	9
53	Polydopamine coating layer on graphene for suppressing loss tangent and enhancing dielectric constant of poly(vinylidene fluoride)/graphene composites. Composites Part A: Applied Science and Manufacturing, 2015, 73, 85-92.	7.6	83