

Lu Bai

List of Publications by Year in descending order

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33
papers

3,069
citations

201385

27
h-index

395343

33
g-index

34
all docs

34
docs citations

34
times ranked

2578
citing authors

#	ARTICLE	IF	CITATIONS
1	Largely enhanced thermal conductivity of poly (ethylene glycol)/boron nitride composite phase change materials for solar-thermal-electric energy conversion and storage with very low content of graphene nanoplatelets. <i>Chemical Engineering Journal</i> , 2017, 315, 481-490.	6.6	264
2	Hybrid network structure of boron nitride and graphene oxide in shape-stabilized composite phase change materials with enhanced thermal conductivity and light-to-electric energy conversion capability. <i>Solar Energy Materials and Solar Cells</i> , 2018, 174, 56-64.	3.0	223
3	An ice-templated assembly strategy to construct graphene oxide/boron nitride hybrid porous scaffolds in phase change materials with enhanced thermal conductivity and shape stability for light-to-thermal-electric energy conversion. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18841-18851.	5.2	216
4	Flexible Anti-Biofouling MXene/Cellulose Fibrous Membrane for Sustainable Solar-Driven Water Purification. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36589-36597.	4.0	216
5	Macroporous three-dimensional MXene architectures for highly efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10446-10455.	5.2	208
6	High-performance composite phase change materials for energy conversion based on macroscopically three-dimensional structural materials. <i>Materials Horizons</i> , 2019, 6, 250-273.	6.4	187
7	Multilayer structured AgNW/WPU-MXene fiber strain sensors with ultrahigh sensitivity and a wide operating range for wearable monitoring and healthcare. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15913-15923.	5.2	184
8	Novel photodriven composite phase change materials with bioinspired modification of BN for solar-thermal energy conversion and storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9625-9634.	5.2	163
9	Multifunctional Thermal Management Materials with Excellent Heat Dissipation and Generation Capability for Future Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18739-18745.	4.0	116
10	Electrically insulating, layer structured SiR/GNPs/BN thermal management materials with enhanced thermal conductivity and breakdown voltage. <i>Composites Science and Technology</i> , 2018, 167, 456-462.	3.8	97
11	Flexible shape-stabilized phase change materials with passive radiative cooling capability for thermal management. <i>Chemical Engineering Journal</i> , 2021, 425, 131466.	6.6	97
12	Recent advances in polymer-based thermal interface materials for thermal management: A mini-review. <i>Composites Communications</i> , 2020, 22, 100528.	3.3	91
13	Photodriven Shape-Stabilized Phase Change Materials with Optimized Thermal Conductivity by Tailoring the Microstructure of Hierarchically Ordered Hybrid Porous Scaffolds. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6761-6770.	3.2	88
14	Bacterial cellulose/MXene hybrid aerogels for photodriven shape-stabilized composite phase change materials. <i>Solar Energy Materials and Solar Cells</i> , 2019, 203, 110174.	3.0	85
15	Electrically insulating POE/BN elastomeric composites with high through-plane thermal conductivity fabricated by two-roll milling and hot compression. <i>Advanced Composites and Hybrid Materials</i> , 2018, 1, 160-167.	9.9	81
16	Effect of temperature, crystallinity and molecular chain orientation on the thermal conductivity of polymers: a case study of PLLA. <i>Journal of Materials Science</i> , 2018, 53, 10543-10553.	1.7	79
17	Human Skin-Inspired Electronic Sensor Skin with Electromagnetic Interference Shielding for the Sensation and Protection of Wearable Electronics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 40880-40889.	4.0	78
18	Recent Advances in Multiresponsive Flexible Sensors towards E-skin: A Delicate Design for Versatile Sensing. <i>Small</i> , 2022, 18, e2103734.	5.2	76

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19	Robust polymer-based paper-like thermal interface materials with a through-plane thermal conductivity over $9 \text{ W m}^{-1} \text{ K}^{-1}$. <i>Chemical Engineering Journal</i> , 2020, 392, 123784.	6.6	66
20	Superior thermal interface materials for thermal management. <i>Composites Communications</i> , 2019, 12, 80-85.	3.3	61
21	Nanofibrillar Poly(vinyl alcohol) Ionic Organohydrogels for Smart Contact Lens and Human-Interactive Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23514-23522.	4.0	59
22	A Facile Route to Fabricate Highly Anisotropic Thermally Conductive Elastomeric POE/NG Composites for Thermal Management. <i>Advanced Materials Interfaces</i> , 2018, 5, 1700946.	1.9	56
23	Hierarchically Porous PVA Aerogel for Leakage-Proof Phase Change Materials with Superior Energy Storage Capacity. <i>Energy & Fuels</i> , 2020, 34, 2471-2479.	2.5	49
24	Emerging Flexible Thermally Conductive Films: Mechanism, Fabrication, Application. <i>Nano-Micro Letters</i> , 2022, 14, .	14.4	47
25	Exploring Next-Generation Functional Organic Phase Change Composites. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	42
26	Scalable Flexible Phase Change Materials with a Swollen Polymer Network Structure for Thermal Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59364-59372.	4.0	36
27	Enhanced Thermal Conductivity and Balanced Mechanical Performance of PP/BN Composites with 1 vol% Finely Dispersed MWCNTs Assisted by OBC. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900081.	1.9	33
28	Dynamic Rheological Behavior of HDPE/UHMWPE Blends. <i>Journal of Macromolecular Science - Physics</i> , 2011, 50, 1249-1259.	0.4	26
29	Leakage-Proof and Malleable Polyethylene Wax Vitrimer Phase Change Materials for Thermal Interface Management. <i>ACS Applied Energy Materials</i> , 2021, 4, 11173-11182.	2.5	19
30	Rheological behavior and mechanical properties of high-density polyethylene blends with different molecular weights. <i>Journal of Applied Polymer Science</i> , 2010, 118, 1356-1363.	1.3	13
31	Degradable ultrathin high-performance photocatalytic hydrogen generator from porous electrospun composite fiber membrane with enhanced light absorption ability. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10277-10288.	5.2	8
32	Thermally conductive composite phase change materials with excellent thermal management capability for electronic devices. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 1008-1020.	1.1	3
33	Excellent mechanical performance and enhanced dielectric properties of OBC/SiO ₂ elastomeric nanocomposites: effect of dispersion of the SiO ₂ nanoparticles. <i>RSC Advances</i> , 2017, 7, 46297-46305.	1.7	2