

Lu An

List of Publications by Year in descending order

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35
papers

592
citations

759233

12
h-index

642732

23
g-index

36
all docs

36
docs citations

36
times ranked

563
citing authors

#	ARTICLE	IF	CITATIONS
1	An All-Ceramic, Anisotropic, and Flexible Aerogel Insulation Material. <i>Nano Letters</i> , 2020, 20, 3828-3835.	9.1	79
2	Thermal enhancement and shape stabilization of a phase-change energy-storage material via copper nanowire aerogel. <i>Chemical Engineering Journal</i> , 2019, 373, 857-869.	12.7	56
3	Effect of nanoparticle size on the mechanical properties of nanoparticle assemblies. <i>Nanoscale</i> , 2019, 11, 9563-9573.	5.6	50
4	Acoustic emission signal processing framework to identify fracture in aluminum alloys. <i>Engineering Fracture Mechanics</i> , 2019, 210, 367-380.	4.3	42
5	A Hierarchical Mesoporous Insulation Ceramic. <i>Nano Letters</i> , 2020, 20, 1110-1116.	9.1	38
6	Printable Copper Sensor Electronics for High Temperature. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1867-1873.	4.3	37
7	A scalable crosslinked fiberglass-aerogel thermal insulation composite. <i>Applied Materials Today</i> , 2020, 21, 100843.	4.3	31
8	Cost-Effective Additive Manufacturing of Ambient Pressure-Dried Silica Aerogel. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2021, 143, .	2.2	28
9	Solution-shearing of dielectric polymer with high thermal conductivity and electric insulation. <i>Science Advances</i> , 2021, 7, eabi7410.	10.3	24
10	Wearable Aramid-Ceramic Aerogel Composite for Harsh Environment. <i>Advanced Engineering Materials</i> , 2021, 23, 2001169.	3.5	20
11	Reflective Paint Consisting of Mesoporous Silica Aerogel and Titania Nanoparticles for Thermal Management. <i>ACS Applied Nano Materials</i> , 2021, 4, 6357-6363.	5.0	17
12	Copper Nanoplates for Printing Flexible High-Temperature Conductors. <i>ACS Applied Nano Materials</i> , 2022, 5, 4028-4037.	5.0	13
13	Transparent and Flexible Thermal Insulation Window Material. <i>Cell Reports Physical Science</i> , 2020, 1, 100140.	5.6	12
14	Flexible and printable dielectric polymer composite with tunable permittivity and thermal stability. <i>Chemical Communications</i> , 2020, 56, 2332-2335.	4.1	12
15	Nanoengineering Porous Silica for Thermal Management. <i>ACS Applied Nano Materials</i> , 2022, 5, 2655-2663.	5.0	12
16	High temperature ceramic thermal insulation material. <i>Nano Research</i> , 2022, 15, 6662-6669.	10.4	12
17	All-Printed Conformal High-Temperature Electronics on Flexible Ceramics. <i>ACS Applied Electronic Materials</i> , 2020, 2, 556-562.	4.3	11
18	Eutectic crystallized FePd nanoparticles for liquid metal magnet. <i>Chemical Communications</i> , 2020, 56, 6555-6558.	4.1	11

#	ARTICLE	IF	CITATIONS
19	Flame aerosol synthesis of hollow alumina nanoshells for application in thermal insulation. <i>Chemical Engineering Journal</i> , 2022, 428, 131273.	12.7	11
20	Ductile cooling phase change material. <i>Nanoscale Advances</i> , 2020, 2, 3900-3905.	4.6	7
21	A macromolecular assembly directed ceramic aerogel monolith material. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10319-10324.	5.5	7
22	Additive Manufacturing of Porous Ceramics With Foaming Agent. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2022, 144, .	2.2	7
23	Cu-based metal-organic frameworks for highly sensitive X-ray detectors. <i>Chemical Communications</i> , 2021, 57, 8612-8615.	4.1	7
24	Scalable and robust silica aerogel materials from ambient pressure drying. <i>Materials Advances</i> , 2022, 3, 2726-2736.	5.4	7
25	Cross-Linking and Charging Molecular Magnetolectronics. <i>Nano Letters</i> , 2021, 21, 4099-4105.	9.1	6
26	Hierarchical Structural Engineering of Ultrahigh-Molecular-Weight Polyethylene. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50024-50032.	8.0	5
27	Emerging Magnetic Interactions in van der Waals Heterostructures. <i>Nano Letters</i> , 2020, 20, 7852-7859.	9.1	5
28	Enhanced Fatigue Property of Welded S355J2W Steel by Forming a Gradient Nanostructured Surface Layer. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 1252-1258.	2.9	5
29	Two-Dimensional Conductive Frameworks with Multiple Sensory Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28703-28709.	8.0	5
30	Printing Air-Stable High-Tc Molecular Magnet with Tunable Magnetic Interaction. <i>Nano Letters</i> , 2022, 22, 545-553.	9.1	4
31	Electron transfer induced magnetic ordering of metal-cyanide magnets. <i>Materials Advances</i> , 2020, 1, 1061-1065.	5.4	3
32	A predictive multiphase model of silica aerogels for building envelope insulations. <i>Computational Mechanics</i> , 2022, 69, 1457-1479.	4.0	2
33	Printed copper-nanoplate conductor for electro-magnetic interference. <i>Nanotechnology</i> , 2022, 33, 115601.	2.6	2
34	Printable and flexible wireless oxygen sensor. <i>Engineering Research Express</i> , 2021, 3, 015021.	1.6	1
35	Magnetically hard ferrite nanoparticles synthesized through aerogel nanoreactor. <i>Nanotechnology</i> , 2020, 31, 465606.	2.6	0