

Kewang Nan

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

2,569
citations

361045

20
h-index

610482

24
g-index

25
all docs

25
docs citations

25
times ranked

3576
citing authors

#	ARTICLE	IF	CITATIONS
1	Remotely Triggered Assembly of 3D Mesostructures Through Shape-Memory Effects. <i>Advanced Materials</i> , 2019, 31, e1905715.	11.1	42
2	Soft Three-Dimensional Microscale Vibratory Platforms for Characterization of Nano-Thin Polymer Films. <i>ACS Nano</i> , 2019, 13, 449-457.	7.3	28
3	Ultrathin, Transferred Layers of Metal Silicide as Faradaic Electrical Interfaces and Biofluid Barriers for Flexible Bioelectronic Implants. <i>ACS Nano</i> , 2019, 13, 660-670.	7.3	30
4	Freestanding 3D Mesostructures, Functional Devices, and Shape-Programmable Systems Based on Mechanically Induced Assembly with Shape Memory Polymers. <i>Advanced Materials</i> , 2019, 31, e1805615.	11.1	105
5	Two-dimensional materials in functional three-dimensional architectures with applications in photodetection and imaging. <i>Nature Communications</i> , 2018, 9, 1417.	5.8	189
6	Morphable 3D mesostructures and microelectronic devices by multistable buckling mechanics. <i>Nature Materials</i> , 2018, 17, 268-276.	13.3	297
7	Compliant and stretchable thermoelectric coils for energy harvesting in miniature flexible devices. <i>Science Advances</i> , 2018, 4, eaau5849.	4.7	208
8	3D Tunable, Multiscale, and Multistable Vibrational Micro-Platforms Assembled by Compressive Buckling. <i>Advanced Functional Materials</i> , 2017, 27, 1605914.	7.8	43
9	Mechanically-Guided Deterministic Assembly of 3D Mesostructures Assisted by Residual Stresses. <i>Small</i> , 2017, 13, 1700151.	5.2	32
10	Deterministic assembly of 3D mesostructures in advanced materials via compressive buckling: A short review of recent progress. <i>Extreme Mechanics Letters</i> , 2017, 11, 96-104.	2.0	68
11	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9455-E9464.	3.3	129
12	Deterministic Integration of Biological and Soft Materials onto 3D Microscale Cellular Frameworks. <i>Advanced Biology</i> , 2017, 1, 1700068.	3.0	18
13	Engineered Elastomer Substrates for Guided Assembly of Complex 3D Mesostructures by Spatially Nonuniform Compressive Buckling. <i>Advanced Functional Materials</i> , 2017, 27, 1604281.	7.8	50
14	Plasticity-induced origami for assembly of three dimensional metallic structures guided by compressive buckling. <i>Extreme Mechanics Letters</i> , 2017, 11, 105-110.	2.0	48
15	Guided Formation of 3D Helical Mesostructures by Mechanical Buckling: Analytical Modeling and Experimental Validation. <i>Advanced Functional Materials</i> , 2016, 26, 2909-2918.	7.8	70
16	Controlled Mechanical Buckling for Origami-Inspired Construction of 3D Microstructures in Advanced Materials. <i>Advanced Functional Materials</i> , 2016, 26, 2629-2639.	7.8	231
17	Mechanical assembly of complex, 3D mesostructures from releasable multilayers of advanced materials. <i>Science Advances</i> , 2016, 2, e1601014.	4.7	200
18	3D Assembly: Controlled Mechanical Buckling for Origami-Inspired Construction of 3D Microstructures in Advanced Materials (<i>Adv. Funct. Mater.</i> 16/2016). <i>Advanced Functional Materials</i> , 2016, 26, 2586-2586.	7.8	1

#	ARTICLE	IF	CITATIONS
19	Composites of Graphene Nanoribbon Stacks and Epoxy for Joule Heating and Deicing of Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 3551-3556.	4.0	114
20	Mismatch strain programmed shape transformation of curved bilayer-flexible support assembly. Extreme Mechanics Letters, 2016, 7, 34-41.	2.0	17
21	A mechanically driven form of Kirigami as a route to 3D mesostructures in micro/nanomembranes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11757-11764.	3.3	429
22	Iron Oxide Nanoparticle and Graphene Nanoribbon Composite as an Anode Material for High-Performance Li-Ion Batteries. Advanced Functional Materials, 2014, 24, 2044-2048.	7.8	156
23	Silver-Graphene Nanoribbon Composite Catalyst for the Oxygen Reduction Reaction in Alkaline Electrolyte. Electroanalysis, 2014, 26, 164-170.	1.5	61