

Kewang Nan

List of Publications by Year in Descending Order

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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.

24
papers

1,991
citations

19
h-index

25
g-index

25
ext. papers

2,233
ext. citations

13.2
avg, IF

4.17
L-index

#	Paper	IF	Citations
24	Remotely Triggered Assembly of 3D Mesostructures Through Shape-Memory Effects. <i>Advanced Materials</i> , 2019 , 31, e1905715	24	27
23	Soft Three-Dimensional Microscale Vibratory Platforms for Characterization of Nano-Thin Polymer Films. <i>ACS Nano</i> , 2019 , 13, 449-457	16.7	16
22	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	16.7	24
21	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	24	72
20	Two-dimensional materials in functional three-dimensional architectures with applications in photodetection and imaging. <i>Nature Communications</i> , 2018 , 9, 1417	17.4	136
19	Morphable 3D mesostructures and microelectronic devices by multistable buckling mechanics. <i>Nature Materials</i> , 2018 , 17, 268-276	27	216
18	Compliant and stretchable thermoelectric coils for energy harvesting in miniature flexible devices. <i>Science Advances</i> , 2018 , 4, eaau5849	14.3	147
17	Three-Dimensional Multiscale, Multistable, and Geometrically Diverse Microstructures with Tunable Vibrational Dynamics Assembled by Compressive Buckling. <i>Advanced Functional Materials</i> , 2017 , 27, 1605914	15.6	39
16	Mechanically-Guided Deterministic Assembly of 3D Mesostructures Assisted by Residual Stresses. <i>Small</i> , 2017 , 13, 1700151	11	25
15	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	3.9	56
14	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	11.5	104
13	Deterministic Integration of Biological and Soft Materials onto 3D Microscale Cellular Frameworks. <i>Advanced Biology</i> , 2017 , 1, 1700068	3.5	12
12	Engineered elastomer substrates for guided assembly of complex 3D mesostructures by spatially nonuniform compressive buckling. <i>Advanced Functional Materials</i> , 2017 , 27, 1604281	15.6	41
11	Plasticity-induced origami for assembly of three dimensional metallic structures guided by compressive buckling. <i>Extreme Mechanics Letters</i> , 2017 , 11, 105-110	3.9	40
10	Synthesis, Assembly, and Applications of Semiconductor Nanomembranes 2016 , 1-36		1
9	Mechanical assembly of complex, 3D mesostructures from releasable multilayers of advanced materials. <i>Science Advances</i> , 2016 , 2, e1601014	14.3	152
8	3D Assembly: Controlled Mechanical Buckling for Origami-Inspired Construction of 3D Microstructures in Advanced Materials (Adv. Funct. Mater. 16/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 2586-2586	15.6	

7	Composites of Graphene Nanoribbon Stacks and Epoxy for Joule Heating and Deicing of Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3551-6	9.5	80
6	Mismatch strain programmed shape transformation of curved bilayer-flexible support assembly. <i>Extreme Mechanics Letters</i> , 2016 , 7, 34-41	3.9	15
5	Guided Formation of 3D Helical Mesostructures by Mechanical Buckling: Analytical Modeling and Experimental Validation. <i>Advanced Functional Materials</i> , 2016 , 26, 2909-2918	15.6	57
4	Controlled mechanical buckling for origami-inspired construction of 3D microstructures in advanced materials. <i>Advanced Functional Materials</i> , 2016 , 26, 2629-2639	15.6	188
3	A mechanically driven form of Kirigami as a route to 3D mesostructures in micro/nanomembranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 11757-64	11.5	344
2	Iron Oxide Nanoparticle and Graphene Nanoribbon Composite as an Anode Material for High-Performance Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 2044-2048	15.6	142
1	Silver-Graphene Nanoribbon Composite Catalyst for the Oxygen Reduction Reaction in Alkaline Electrolyte. <i>Electroanalysis</i> , 2014 , 26, 164-170	3	56