

# Kewang Nan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3709883/publications.pdf>

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	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
2	Morphable 3D mesostructures and microelectronic devices by multistable buckling mechanics. Nature Materials, 2018, 17, 268-276.	13.3	297
3	Controlled Mechanical Buckling for Origami-Inspired Construction of 3D Microstructures in Advanced Materials. Advanced Functional Materials, 2016, 26, 2629-2639.	7.8	231
4	Compliant and stretchable thermoelectric coils for energy harvesting in miniature flexible devices. Science Advances, 2018, 4, eaau5849.	4.7	208
5	Mechanical assembly of complex, 3D mesostructures from releasable multilayers of advanced materials. Science Advances, 2016, 2, e1601014.	4.7	200
6	Two-dimensional materials in functional three-dimensional architectures with applications in photodetection and imaging. Nature Communications, 2018, 9, 1417.	5.8	189
7	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
8	Three-dimensional mesostructures as high-temperature growth templates, electronic cellular scaffolds, and self-propelled microrobots. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9455-E9464.	3.3	129
9	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
10	Freestanding 3D Mesostructures, Functional Devices, and Shape-Programmable Systems Based on Mechanically Induced Assembly with Shape Memory Polymers. Advanced Materials, 2019, 31, e1805615.	11.1	105
11	Guided Formation of 3D Helical Mesostructures by Mechanical Buckling: Analytical Modeling and Experimental Validation. Advanced Functional Materials, 2016, 26, 2909-2918.	7.8	70
12	Deterministic assembly of 3D mesostructures in advanced materials via compressive buckling: A short review of recent progress. Extreme Mechanics Letters, 2017, 11, 96-104.	2.0	68
13	Silver-Graphene Nanoribbon Composite Catalyst for the Oxygen Reduction Reaction in Alkaline Electrolyte. Electroanalysis, 2014, 26, 164-170.	1.5	61
14	Engineered Elastomer Substrates for Guided Assembly of Complex 3D Mesostructures by Spatially Nonuniform Compressive Buckling. Advanced Functional Materials, 2017, 27, 1604281.	7.8	50
15	Plasticity-induced origami for assembly of three dimensional metallic structures guided by compressive buckling. Extreme Mechanics Letters, 2017, 11, 105-110.	2.0	48
16	3D Tunable, Multiscale, and Multistable Vibrational Micro-Platforms Assembled by Compressive Buckling. Advanced Functional Materials, 2017, 27, 1605914.	7.8	43
17	Remotely Triggered Assembly of 3D Mesostructures Through Shape-Memory Effects. Advanced Materials, 2019, 31, e1905715.	11.1	42
18	Mechanically-Guided Deterministic Assembly of 3D Mesostructures Assisted by Residual Stresses. Small, 2017, 13, 1700151.	5.2	32

#	ARTICLE	IF	CITATIONS
19	Ultrathin, Transferred Layers of Metal Silicide as Faradaic Electrical Interfaces and Biofluid Barriers for Flexible Bioelectronic Implants. ACS Nano, 2019, 13, 660-670.	7.3	30
20	Soft Three-Dimensional Microscale Vibratory Platforms for Characterization of Nano-Thin Polymer Films. ACS Nano, 2019, 13, 449-457.	7.3	28
21	Deterministic Integration of Biological and Soft Materials onto 3D Microscale Cellular Frameworks. Advanced Biology, 2017, 1, 1700068.	3.0	18
22	Mismatch strain programmed shape transformation of curved bilayer-flexible support assembly. Extreme Mechanics Letters, 2016, 7, 34-41.	2.0	17
23	3D Assembly: Controlled Mechanical Buckling for Origami-Inspired Construction of 3D Microstructures in Advanced Materials (Adv. Funct. Mater. 16/2016). Advanced Functional Materials, 2016, 26, 2586-2586.	7.8	1