

# Kewang Nan

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/3709883/kewang-nan-publications-by-citations.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | 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> , <b>2015</b> , 112, 11757-64   | 11.5 | 344       |
| 23 | Morphable 3D mesostructures and microelectronic devices by multistable buckling mechanics. <i>Nature Materials</i> , <b>2018</b> , 17, 268-276  | 27   | 216       |
| 22 | Controlled mechanical buckling for origami-inspired construction of 3D microstructures in advanced materials. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2629-2639  | 15.6 | 188       |
| 21 | Mechanical assembly of complex, 3D mesostructures from releasable multilayers of advanced materials. <i>Science Advances</i> , <b>2016</b> , 2, e1601014  | 14.3 | 152       |
| 20 | Compliant and stretchable thermoelectric coils for energy harvesting in miniature flexible devices. <i>Science Advances</i> , <b>2018</b> , 4, eaau5849   | 14.3 | 147       |
| 19 | Iron Oxide Nanoparticle and Graphene Nanoribbon Composite as an Anode Material for High-Performance Li-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2044-2048  | 15.6 | 142       |
| 18 | Two-dimensional materials in functional three-dimensional architectures with applications in photodetection and imaging. <i>Nature Communications</i> , <b>2018</b> , 9, 1417   | 17.4 | 136       |
| 17 | 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> , <b>2017</b> , 114, E9455-E9464 | 11.5 | 104       |
| 16 | Composites of Graphene Nanoribbon Stacks and Epoxy for Joule Heating and Deicing of Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 3551-6   | 9.5  | 80        |
| 15 | Freestanding 3D Mesostructures, Functional Devices, and Shape-Programmable Systems Based on Mechanically Induced Assembly with Shape Memory Polymers. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805615  | 24   | 72        |
| 14 | Guided Formation of 3D Helical Mesostructures by Mechanical Buckling: Analytical Modeling and Experimental Validation. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 2909-2918   | 15.6 | 57        |
| 13 | Deterministic assembly of 3D mesostructures in advanced materials via compressive buckling: A short review of recent progress. <i>Extreme Mechanics Letters</i> , <b>2017</b> , 11, 96-104  | 3.9  | 56        |
| 12 | Silver-Graphene Nanoribbon Composite Catalyst for the Oxygen Reduction Reaction in Alkaline Electrolyte. <i>Electroanalysis</i> , <b>2014</b> , 26, 164-170   | 3    | 56        |
| 11 | Engineered elastomer substrates for guided assembly of complex 3D mesostructures by spatially nonuniform compressive buckling. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604281   | 15.6 | 41        |
| 10 | Plasticity-induced origami for assembly of three dimensional metallic structures guided by compressive buckling. <i>Extreme Mechanics Letters</i> , <b>2017</b> , 11, 105-110   | 3.9  | 40        |
| 9  | Three-Dimensional Multiscale, Multistable, and Geometrically Diverse Microstructures with Tunable Vibrational Dynamics Assembled by Compressive Buckling. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605914                                    | 15.6 | 39        |
| 8  | Remotely Triggered Assembly of 3D Mesostructures Through Shape-Memory Effects. <i>Advanced Materials</i> , <b>2019</b> , 31, e1905715   | 24   | 27        |

|   |  |      |    |
|---|--|------|----|
| 7 | Mechanically-Guided Deterministic Assembly of 3D Mesostructures Assisted by Residual Stresses. <i>Small</i> , <b>2017</b> , 13, 1700151  | 11   | 25 |
| 6 | Ultrathin, Transferred Layers of Metal Silicide as Faradaic Electrical Interfaces and Biofluid Barriers for Flexible Bioelectronic Implants. <i>ACS Nano</i> , <b>2019</b> , 13, 660-670                                   | 16.7 | 24 |
| 5 | Soft Three-Dimensional Microscale Vibratory Platforms for Characterization of Nano-Thin Polymer Films. <i>ACS Nano</i> , <b>2019</b> , 13, 449-457   | 16.7 | 16 |
| 4 | Mismatch strain programmed shape transformation of curved bilayer-flexible support assembly. <i>Extreme Mechanics Letters</i> , <b>2016</b> , 7, 34-41   | 3.9  | 15 |
| 3 | Deterministic Integration of Biological and Soft Materials onto 3D Microscale Cellular Frameworks. <i>Advanced Biology</i> , <b>2017</b> , 1, 1700068  | 3.5  | 12 |
| 2 | Synthesis, Assembly, and Applications of Semiconductor Nanomembranes <b>2016</b> , 1-36  |      | 1  |
| 1 | 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> , <b>2016</b> , 26, 2586-2586 | 15.6 |    |