

Ke Liu

List of Publications by Year in descending order

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17
papers

651
citations

687363

13
h-index

996975

15
g-index

17
all docs

17
docs citations

17
times ranked

563
citing authors

#	ARTICLE	IF	CITATIONS
1	Bar and hinge models for scalable analysis of origami. International Journal of Solids and Structures, 2017, 124, 26-45.	2.7	169
2	Programmable Deployment of Tensegrity Structures by Stimulus-Responsive Polymers. Scientific Reports, 2017, 7, 3511.	3.3	72
3	Robotic surfaces with reversible, spatiotemporal control for shape morphing and object manipulation. Science Robotics, 2021, 6, .	17.6	70
4	Geometric Mechanics of Origami Patterns Exhibiting Poisson's Ratio Switch by Breaking Mountain and Valley Assignment. Physical Review Letters, 2019, 122, 155501.	7.8	68
5	Invariant and smooth limit of discrete geometry folded from bistable origami leading to multistable metasurfaces. Nature Communications, 2019, 10, 4238.	12.8	65
6	Unraveling tensegrity tessellations for metamaterials with tunable stiffness and bandgaps. Journal of the Mechanics and Physics of Solids, 2019, 131, 147-166.	4.8	40
7	Mechanical cloak via data-driven aperiodic metamaterial design. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2122185119.	7.1	27
8	Tensegrity topology optimization by force maximization on arbitrary ground structures. Structural and Multidisciplinary Optimization, 2019, 59, 2041-2062.	3.5	26
9	Reliability-based topology optimization using a new method for sensitivity approximation - application to ground structures. Structural and Multidisciplinary Optimization, 2016, 54, 553-571.	3.5	24
10	Big influence of small random imperfections in origami-based metamaterials. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, .	2.1	20
11	Experimental realization of tunable Poisson's ratio in deployable origami metamaterials. Extreme Mechanics Letters, 2022, 53, 101685.	4.1	19
12	Segmental multi-point linearization for parameter sensitivity approximation in reliability analysis. Structural Safety, 2016, 62, 101-115.	5.3	16
13	Triclinic Metamaterials by Tristable Origami with Reprogrammable Frustration. Advanced Materials, 2022, 34, .	21.0	14
14	Reprogrammable Kinematic Branches in Tessellated Origami Structures. Journal of Mechanisms and Robotics, 2021, 13, .	2.2	12
15	Bio-Inspired Origami Metamaterials With Metastable Phases Through Mechanical Phase Transitions. Journal of Applied Mechanics, Transactions ASME, 2021, 88, .	2.2	8
16	Integrated Origami-String System. , 2019, , .		1
17	Kinematics of the Morph Origami Pattern and its Hybrid States. , 2020, , .		0