

# Xiaopeng Li

## List of Publications by Year in descending order

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17  
papers

1,143  
citations

516710

16  
h-index

888059

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all docs

17  
docs citations

17  
times ranked

1078  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale porous elastomer substrates for multifunctional on-skin electronics with passive-cooling capabilities. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 205-213.	7.1	131
2	Laser-Induced Graphene for Electrothermally Controlled, Mechanically Guided, 3D Assembly and Human-Soft Actuators Interaction. Advanced Materials, 2020, 32, e1908475.	21.0	118
3	Tailoring vibration suppression bands with hierarchical metamaterials containing local resonators. Journal of Sound and Vibration, 2019, 442, 237-248.	3.9	100
4	Nonreciprocal Wave Propagation in a Continuum-Based Metamaterial with Space-Time Modulated Resonators. Physical Review Applied, 2019, 11, .	3.8	97
5	A programmable metasurface for real time control of broadband elastic rays. Smart Materials and Structures, 2018, 27, 115011.	3.5	93
6	Size-dependent free vibration analysis of composite laminated Timoshenko beam based on new modified couple stress theory. Archive of Applied Mechanics, 2013, 83, 431-444.	2.2	75
7	A self-adaptive metamaterial beam with digitally controlled resonators for subwavelength broadband flexural wave attenuation. Smart Materials and Structures, 2018, 27, 045015.	3.5	74
8	Spectro-spatial analysis of wave packet propagation in nonlinear acoustic metamaterials. Journal of Sound and Vibration, 2018, 413, 250-269.	3.9	68
9	A new modified couple stress theory for anisotropic elasticity and microscale laminated Kirchhoff plate model. Archive of Applied Mechanics, 2014, 84, 323-341.	2.2	62
10	Wave propagation and absorption of sandwich beams containing interior dissipative multi-resonators. Ultrasonics, 2017, 76, 99-108.	3.9	61
11	An active mechanical Willis meta-layer with asymmetric polarizabilities. Nature Communications, 2020, 11, 3681.	12.8	56
12	Realization of active metamaterials with odd micropolar elasticity. Nature Communications, 2021, 12, 5935.	12.8	50
13	In-Plane Second-Order Topologically Protected States in Elastic Kagome Lattices. Physical Review Applied, 2020, 14, .	3.8	46
14	An active meta-layer for optimal flexural wave absorption and cloaking. Mechanical Systems and Signal Processing, 2021, 149, 107324.	8.0	42
15	Shaping elastic wave mode conversion with a piezoelectric-based programmable meta-boundary. Extreme Mechanics Letters, 2020, 39, 100837.	4.1	29
16	Core-skin debonding detection in honeycomb sandwich structures through guided wave wavefield analysis. Journal of Intelligent Material Systems and Structures, 2019, 30, 1306-1317.	2.5	28
17	Experimental demonstration of extremely asymmetric flexural wave absorption at the exceptional point. Extreme Mechanics Letters, 2022, 52, 101649.	4.1	13