Ramathasan Thevamaran

List of Publications by Year
in descending order

27 papers	490 citations	687363 13 h-index	677142 22 g-index
27 all docs	27 docs citations	27 times ranked	505 citing authors

#	Article	IF	Citations
1	Origins of mechanical preconditioning in hierarchical nanofibrous materials. Extreme Mechanics Letters, 2022, 50, 101576.	4.1	4
2	Universal route for the emergence of exceptional points in PT-symmetric metamaterials with unfolding spectral symmetries. New Journal of Physics, 2021, 23, 063079.	2.9	7
3	Origins of size effects in initially dislocation-free single-crystal silver micro- and nanocubes. Acta Materialia, 2021, 214, 117020.	7.9	14
4	Extreme Energy Dissipation via Material Evolution in Carbon Nanotube Mats. Advanced Science, 2021, 8, 2003142.	11.2	9
5	Extreme Dynamic Performance of Nanofiber Mats under Supersonic Impacts Mediated by Interfacial Hydrogen Bonds. ACS Nano, 2021, 15, 19945-19955.	14.6	17
6	Dynamic martensitic phase transformation in single-crystal silver microcubes. Acta Materialia, 2020, 182, 131-143.	7.9	24
7	Independent control of dynamic material properties by exploiting structural hierarchy and intrinsic structural gradients. Materials Today Communications, 2020, 23, 100865.	1.9	2
8	Coesite Formation at Low Pressure during Supersonic Microprojectile Impact of Opal. ACS Earth and Space Chemistry, 2020, 4, 1291-1297.	2.7	6
9	Environmentally Induced Exceptional Points in Elastodynamics. Physical Review Applied, 2020, 13, .	3.8	26
10	Superior Energy Dissipation by Ultrathin Semicrystalline Polymer Films Under Supersonic Microprojectile Impacts. Nano Letters, 2020, 20, 5632-5638.	9.1	36
11	Asymmetric acoustic energy transport in non-Hermitian metamaterials. Journal of the Acoustical Society of America, 2019, 146, 863-872.	1.1	15
12	Size Effects in Single-Crystal Metallic Micro- and Nanocubes. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 47-49.	0.5	0
13	Extreme Energy Absorption in Glassy Polymer Thin Films by Supersonic Micro-projectile Impact. Materials Today, 2018, 21, 817-824.	14.2	55
14	Impact absorption properties of carbon fiber reinforced bucky sponges. Nanotechnology, 2017, 28, 184002.	2.6	3
15	Synthesis of Monodisperse Single Crystalline Ag Microcubes via Seed-Mediated Growth. Crystal Growth and Design, 2017, 17, 284-289.	3.0	17
16	High-Resolution Quantum Dot Photopatterning via Interference Lithography Assisted Microstamping. Journal of Physical Chemistry C, 2017, 121, 13370-13380.	3.1	14
17	High-velocity projectile impact induced 9R phase in ultrafine-grained aluminium. Nature Communications, 2017, 8, 1653.	12.8	66
18	Dynamic creation and evolution of gradient nanostructure in single-crystal metallic microcubes. Science, 2016, 354, 312-316.	12.6	95

#	Article	IF	Citations
19	Rate-sensitive strain localization and impact response of carbon nanotube foams with microscale heterogeneous bands. Carbon, 2016, 101, 184-190.	10.3	8
20	Dynamic Behavior of Vertically Aligned Carbon Nanotube Foams With Patterned Microstructure. Advanced Engineering Materials, 2015, 17, 1470-1479.	3.5	7
21	Selfâ€Assembled Recyclable Hierarchical Bucky Aerogels. Advanced Engineering Materials, 2015, 17, 990-994.	3.5	5
22	Anomalous impact and strain responses in helical carbon nanotube foams. RSC Advances, 2015, 5, 29306-29311.	3.6	11
23	Shock formation and rate effects in impacted carbon nanotube foams. Carbon, 2015, 84, 390-398.	10.3	33
24	Multiscale Mass-Spring Model for High-Rate Compression of Vertically Aligned Carbon Nanotube Foams. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	2.2	15
25	Dynamics of Multilayered Structures of VACNTs with Metallic Inter-layers. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 463-465.	0.5	0
26	Dynamic Behavior of Periodic Structures Consisting of Vertically Aligned Carbon Nanotubes and Rigid Interlayers. , 2012, , .		1
27	Dynamic Martensitic Phase Transformation in Single-Crystal Silver Microcubes. SSRN Electronic Journal, 0, , .	0.4	0