

Ramathasan Thevamaran

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

490
citations

687363

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h-index

677142

22
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27
all docs

27
docs citations

27
times ranked

505
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic creation and evolution of gradient nanostructure in single-crystal metallic microcubes. <i>Science</i> , 2016, 354, 312-316.	12.6	95
2	High-velocity projectile impact induced 9R phase in ultrafine-grained aluminium. <i>Nature Communications</i> , 2017, 8, 1653.	12.8	66
3	Extreme Energy Absorption in Glassy Polymer Thin Films by Supersonic Micro-projectile Impact. <i>Materials Today</i> , 2018, 21, 817-824.	14.2	55
4	Superior Energy Dissipation by Ultrathin Semicrystalline Polymer Films Under Supersonic Microprojectile Impacts. <i>Nano Letters</i> , 2020, 20, 5632-5638.	9.1	36
5	Shock formation and rate effects in impacted carbon nanotube foams. <i>Carbon</i> , 2015, 84, 390-398.	10.3	33
6	Environmentally Induced Exceptional Points in Elastodynamics. <i>Physical Review Applied</i> , 2020, 13, .	3.8	26
7	Dynamic martensitic phase transformation in single-crystal silver microcubes. <i>Acta Materialia</i> , 2020, 182, 131-143.	7.9	24
8	Synthesis of Monodisperse Single Crystalline Ag Microcubes via Seed-Mediated Growth. <i>Crystal Growth and Design</i> , 2017, 17, 284-289.	3.0	17
9	Extreme Dynamic Performance of Nanofiber Mats under Supersonic Impacts Mediated by Interfacial Hydrogen Bonds. <i>ACS Nano</i> , 2021, 15, 19945-19955.	14.6	17
10	Multiscale Mass-Spring Model for High-Rate Compression of Vertically Aligned Carbon Nanotube Foams. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	2.2	15
11	Asymmetric acoustic energy transport in non-Hermitian metamaterials. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 863-872.	1.1	15
12	High-Resolution Quantum Dot Photopatterning via Interference Lithography Assisted Microstamping. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13370-13380.	3.1	14
13	Origins of size effects in initially dislocation-free single-crystal silver micro- and nanocubes. <i>Acta Materialia</i> , 2021, 214, 117020.	7.9	14
14	Anomalous impact and strain responses in helical carbon nanotube foams. <i>RSC Advances</i> , 2015, 5, 29306-29311.	3.6	11
15	Extreme Energy Dissipation via Material Evolution in Carbon Nanotube Mats. <i>Advanced Science</i> , 2021, 8, 2003142.	11.2	9
16	Rate-sensitive strain localization and impact response of carbon nanotube foams with microscale heterogeneous bands. <i>Carbon</i> , 2016, 101, 184-190.	10.3	8
17	Dynamic Behavior of Vertically Aligned Carbon Nanotube Foams With Patterned Microstructure. <i>Advanced Engineering Materials</i> , 2015, 17, 1470-1479.	3.5	7
18	Universal route for the emergence of exceptional points in PT-symmetric metamaterials with unfolding spectral symmetries. <i>New Journal of Physics</i> , 2021, 23, 063079.	2.9	7

#	ARTICLE	IF	CITATIONS
19	Coesite Formation at Low Pressure during Supersonic Microprojectile Impact of Opal. ACS Earth and Space Chemistry, 2020, 4, 1291-1297.	2.7	6
20	Self-Assembled Recyclable Hierarchical Bucky Aerogels. Advanced Engineering Materials, 2015, 17, 990-994.	3.5	5
21	Origins of mechanical preconditioning in hierarchical nanofibrous materials. Extreme Mechanics Letters, 2022, 50, 101576.	4.1	4
22	Impact absorption properties of carbon fiber reinforced bucky sponges. Nanotechnology, 2017, 28, 184002.	2.6	3
23	Independent control of dynamic material properties by exploiting structural hierarchy and intrinsic structural gradients. Materials Today Communications, 2020, 23, 100865.	1.9	2
24	Dynamic Behavior of Periodic Structures Consisting of Vertically Aligned Carbon Nanotubes and Rigid Interlayers. , 2012, , .		1
25	Size Effects in Single-Crystal Metallic Micro- and Nanocubes. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 47-49.	0.5	0
26	Dynamics of Multilayered Structures of VACNTs with Metallic Inter-layers. Conference Proceedings of the Society for Experimental Mechanics, 2013, , 463-465.	0.5	0
27	Dynamic Martensitic Phase Transformation in Single-Crystal Silver Microcubes. SSRN Electronic Journal, 0, , .	0.4	0