

Suraj Ravindran

List of Publications by Year in descending order

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42
papers

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687363

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all docs

48
docs citations

48
times ranked

356
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic Strength of Iron at High Pressures and Strain Rates. <i>Physical Review Letters</i> , 2022, 128, 015705.	7.8	5
2	An investigation of shock-induced phase transition in soda-lime glass. <i>Journal of Applied Physics</i> , 2022, 131, .	2.5	3
3	Fracture mechanism and toughness of a rolled magnesium alloy under dynamic loading. <i>Acta Materialia</i> , 2021, 202, 350-365.	7.9	22
4	Dynamic Strength of Copper at High Pressures Using Pressure Shear Plate Experiments. <i>Journal of Dynamic Behavior of Materials</i> , 2021, 7, 248-261.	1.7	13
5	In situ deformation characterization of density-graded foams in quasi-static and impact loading conditions. <i>International Journal of Impact Engineering</i> , 2021, 150, 103820.	5.0	22
6	Probing the properties and mechanisms of failure waves in soda-lime glass. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	6
7	Strength of magnesium at high pressures and strain rates. <i>Extreme Mechanics Letters</i> , 2020, 41, 101044.	4.1	4
8	Shock structure and spall behavior of porous aluminum. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	3
9	Pressure-shear plate impact experiments of magnesium at high pressures. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
10	Mode-I behavior of adhesively bonded composite joints at high loading rates. <i>Composites Science and Technology</i> , 2020, 198, 108310.	7.8	16
11	Pressure-shear plate impact experiments at very high pressures. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
12	Weak-shock wave propagation in polymer-based particulate composites. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	7
13	On the Response of Polymer Bonded Explosives at Different Impact Velocities. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019, , 219-224.	0.5	1
14	Localized Microstructural Deformation Behavior of Dynamically Deformed Pure Magnesium. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019, , 225-228.	0.5	0
15	A multiscale experimental approach for correlating global and local deformation response in woven composites. <i>Composite Structures</i> , 2018, 194, 328-334.	5.8	18
16	Experimental characterization of compaction wave propagation in cellular polymers. <i>International Journal of Solids and Structures</i> , 2018, 139-140, 270-282.	2.7	26
17	Effects of cell-wall instability and local failure on the response of closed-cell polymeric foams subjected to dynamic loading. <i>Mechanics of Materials</i> , 2018, 116, 67-76.	3.2	30
18	Gradual damage evolution and propagation in quasi-isotropic CFRC under quasi-static loading. <i>Composite Structures</i> , 2018, 185, 186-192.	5.8	10

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19	Multiscale deformation behavior of polymer bonded explosives subjected to intermediate velocity impact. AIP Conference Proceedings, 2018, , .	0.4	1
20	In-situ quantification of intra and intergranular deformation in pure magnesium using full-field measurements at low and high strain rates. Mechanics of Materials, 2018, 126, 36-46.	3.2	4
21	The Effect of Nano-Fillers on the In-Plane and Interlaminar Shear Properties of Carbon Fiber Reinforced Composite. Journal of Dynamic Behavior of Materials, 2018, 4, 296-307.	1.7	13
22	Impact Response of Density Graded Cellular Polymers. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 17-23.	0.5	3
23	Compaction Wave Characteristics of Polymeric Foams Under Dynamic Loading. Conference Proceedings of the Society for Experimental Mechanics, 2018, , 175-180.	0.5	0
24	Experimental characterization of meso-scale deformation mechanisms and the RVE size in plastically deformed carbon steel. Strain, 2017, 53, e12217.	2.4	15
25	Multiscale damage evolution in polymer bonded sugar under dynamic loading. Mechanics of Materials, 2017, 114, 97-106.	3.2	39
26	Experimental determination of Representative Volume Element (RVE) size in woven composites. Optics and Lasers in Engineering, 2017, 90, 59-71.	3.8	46
27	Effect of Crystal Density on Dynamic Deformation Behavior of PBX. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 87-92.	0.5	5
28	Experimental Study of Residual Plastic Strain and Damages Development in Carbon Fiber Composite. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 31-36.	0.5	3
29	Experimental Investigation of Compaction Wave Propagation in Cellular Polymers. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 113-115.	0.5	3
30	Note: Dynamic meso-scale full field surface deformation measurement of heterogeneous materials. Review of Scientific Instruments, 2016, 87, 036108.	1.3	16
31	Using Digital Image Correlation to Characterize Local Strains on Vascular Tissue Specimens. Journal of Visualized Experiments, 2016, , e53625.	0.3	7
32	Local Deformation and Failure Mechanisms of Polymer Bonded Energetic Materials Subjected to High Strain Rate Loading. Journal of Dynamic Behavior of Materials, 2016, 2, 146-156.	1.7	45
33	Meso-scale study of non-linear tensile response and fiber trellising mechanisms in woven composites. Journal of Reinforced Plastics and Composites, 2016, 35, 986-995.	3.1	16
34	On the Mechanical Response of Polymer Fiber Composites Reinforced with Nanoparticles. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 125-130.	0.5	1
35	Meso-Scale Deformation Behavior of Polymer Bonded Energetic Material Under Quasi-Static Compression. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 345-350.	0.5	2
36	Meso-scale Deformation Mechanisms of Polymer Bonded Energetic Materials Under Dynamic Loading. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 451-456.	0.5	5

#	ARTICLE	IF	CITATIONS
37	Meso-scale strain localization and failure response of an orthotropic woven glass fiber reinforced composite. Composites Part B: Engineering, 2015, 78, 308-318.	12.0	37
38	On the Meso-Macro Scale Deformation of Low Carbon Steel. Conference Proceedings of the Society for Experimental Mechanics, 2015, , 409-414.	0.5	3
39	Optimal Sensor Placement for Damage Detection: Role of Global Search. , 2007, , .		4
40	Generalized linear prediction method in phase-shifting interferometry in the presence of noise. Optics and Lasers in Engineering, 2007, 45, 766-772.	3.8	4
41	Optimal Sensor Placement for Damage Detection: Role of Global Search. Database and Expert Systems Applications (DEXA), Proceedings of the International Workshop on, 2007, , .	0.0	0
42	Free-Edge Strain Localization of Cross-Ply Laminates with Different Lamina Arrangements. , 0, , .		0