Veronica Eliasson

List of Publications by Year
in descending order

44 papers	392 citations	840776 11 h-index	888059 17 g-index
46 all docs	46 docs citations	46 times ranked	308 citing authors

#	Article	IF	Citations
1	Controlling the form of strong converging shocks by means of disturbances. Shock Waves, 2007, 17, 29-42.	1.9	30
2	Shock Wave Response of Iron-based In Situ Metallic Glass Matrix Composites. Scientific Reports, 2016, 6, 22568.	3.3	27
3	Focusing of Strong Shocks in an Annular Shock Tube. Shock Waves, 2006, 15, 205-217.	1.9	26
4	Creep in amorphous metals. Journal of Materials Research and Technology, 2015, 4, 100-107.	5.8	23
5	Quantitative Visualization of Dynamic Material Behavior. Experimental Mechanics, 2016, 56, 1-2.	2.0	20
6	Light emission during shock wave focusing in air and argon. Physics of Fluids, 2007, 19, 106106.	4.0	16
7	Shock wave focusing in water inside convergent structures. International Journal of Multiphysics, 2012, 6, 267-282.	0.1	15
8	Regular versus Mach reflection for converging polygonal shocks. Shock Waves, 2007, 17, 43-50.	1.9	14
9	Experimental investigation of converging shocks in water with various confinement materials. Shock Waves, 2010, 20, 395-408.	1.9	13
10	Shock Wave Attenuation Using Foam Obstacles: Does Geometry Matter?. Aerospace, 2015, 2, 353-375.	2.2	13
11	Numerical and experimental investigation of oblique shock wave reflection off a water wedge. Journal of Fluid Mechanics, 2017, 826, 732-758.	3.4	13
12	Numerical Study of Shock Wave Attenuation in Two-Dimensional Ducts Using Solid Obstacles: How to Utilize Shock Focusing Techniques to Attenuate Shock Waves. Aerospace, 2015, 2, 203-221.	2.2	12
13	Image Processing and Edge Detection Techniques to Quantify Shock Wave Dynamics Experiments. Experimental Techniques, 2021, 45, 483-495.	1.5	11
14	Shock Focusing Phenomena. Shock Wave and High Pressure Phenomena, 2019, , .	0.1	11
15	In Situ Optical Investigations of Hypervelocity Impact Induced Dynamic Fracture. Experimental Mechanics, 2012, 52, 161-170.	2.0	10
16	Interaction and coalescence of multiple simultaneous and non-simultaneous blast waves. Shock Waves, 2016, 26, 287-297.	1.9	10
17	Evaluation of the effect of water content on the stress optical coefficient in PMMA. Polymer Testing, 2016, 50, 119-124.	4.8	9
18	Mechanical Properties of an Feâ€Based SAM2Ã—5â€630 Metallic Glass Matrix Composite with Tungsten Particle Additions. Advanced Engineering Materials, 2018, 20, 1800023.	3.5	9

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19	Parallel implementation of geometrical shock dynamics for two dimensional converging shock waves. Computer Physics Communications, 2016, 207, 186-192.	7.5	8
20	Influence of Water Uptake on Dynamic Fracture Behavior of Poly(Methyl Methacrylate). Experimental Mechanics, 2016, 56, 59-68.	2.0	8
21	Investigation of shock wave focusing in water in a logarithmic spiral duct, Part 1: Weak coupling. Ocean Engineering, 2015, 102, 174-184.	4.3	7
22	Effect of Water Content on Dynamic Fracture Initiation of Vinyl Ester. Experimental Mechanics, 2016, 56, 637-644.	2.0	7
23	Shock wave interactions with liquid sheets. Experiments in Fluids, 2017, 58, 1.	2.4	7
24	Bulk Mechanical Properties Testing of Metallic Marginal Glass Formers. Journal of Metallurgy, 2016, 2016, 1-8.	1.1	6
25	Glial Model for Traumatic Brain Injury: Network Strain Field and Inflammation Induced by Repeated Mechanical Impacts In Vitro. Experimental Mechanics, 2018, 58, 125-135.	2.0	6
26	Shock wave attenuation using rigid obstacles with large- and small-scale geometrical features. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2019, 2, 269-279.	2.1	6
27	Quantitative Pressure Measurement of Shock Waves in Water Using a Schlieren-Based Visualization Technique. Experimental Techniques, 2013, 40, n/a-n/a.	1.5	6
28	On cylindrically converging shock waves shaped by obstacles. Physica D: Nonlinear Phenomena, 2008, 237, 2203-2209.	2.8	5
29	HAMr: A Mechanical Impactor for Repeated Dynamic Loading of In vitro Neuronal Networks. Experimental Mechanics, 2015, 55, 1441-1449.	2.0	5
30	Experimental Investigation of Dynamic Fracture Initiation in PMMA Submerged in Water. Journal of Dynamic Behavior of Materials, 2016, 2, 391-398.	1.7	5
31	Design of a Multiple Exploding Wire Setup to Study Shock Wave Dynamics. Experimental Techniques, 2020, 44, 241-248.	1.5	5
32	The Effect of Moisture Intake on the Mode-II Dynamic Fracture Behavior of Carbon Fiber/Epoxy Composites. Journal of Dynamic Behavior of Materials, 2021, 7, 21-33.	1.7	5
33	Quantitative Pressure Measurement of Shock Waves in Water Using a Schlieren-Based Visualization Technique. Experimental Techniques, 2016, 40, 323-331.	1.5	4
34	Blast wave interaction with structures: an application of exploding wire experiments. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2020, 3, 337-347.	2.1	4
35	Shaping converging shock waves by means of obstacles. Journal of Visualization, 2006, 9, 240-240.	1.8	3
36	Investigation of shock wave focusing in water in a logarithmic spiral duct, Part 2: Strong coupling. Ocean Engineering, 2015, 102, 185-196.	4.3	3

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37	Mode-II Fracture Response of PMMA Under Dynamic Loading Conditions. Journal of Dynamic Behavior of Materials, 0, , 1.	1.7	3
38	Effect of Loading Rate on Dynamic Fracture Morphology of a Zr-Based Bulk Metallic Glass. Materials Transactions, 2015, 56, 840-843.	1.2	2
39	Shock Waves and Blast Waves. Shock Wave and High Pressure Phenomena, 2019, , 9-34.	0.1	2
40	Experimental and Numerical Study of Blast-Structure Interaction. , 2020, , .		2
41	Numerical investigation of shock wave attenuation in channels using water obstacles. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2019, 2, 159-173.	2.1	1
42	Shock Wave Mitigation Using Liquids. Springer Transactions in Civil and Environmental Engineering, 2018, , 301-320.	0.4	0
43	Moisture effect investigation on the dynamic fracture behavior of unidirectional and woven carbon fiber/epoxy materials. , 2022, , 237-254.		0
44	Traumatic Brain Injury: Models and Mechanisms of Traumatic Brain Injury. , 2019, , 283-313.		0