Ahmad Serjouei

List of Publications by Year
in descending order

29	1,276	471371 17	501076 28
papers	citations	h-index	g-index

29	29	29	1403
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	4D printed shape memory sandwich structures: experimental analysis and numerical modeling. Smart Materials and Structures, 2022, 31, 055014.	1.8	31
2	On the design workflow of auxetic metamaterials for structural applications. Smart Materials and Structures, 2022, 31, 023002.	1.8	26
3	Nonlinear Finite Element Modelling of Thermo-Visco-Plastic Styrene and Polyurethane Shape Memory Polymer Foams. Actuators, 2021, 10, 46.	1.2	13
4	Fatigue Life Improvement of Cracked Aluminum 6061-T6 Plates Repaired by Composite Patches. Materials, 2021, 14, 1421.	1.3	10
5	Energy Absorption and Mechanical Performance of Functionally Graded Softâ€“Hard Lattice Structures. Materials, 2021, 14, 1366.	1.3	38
6	Adjustable Compliance Soft Sensor via an Elastically Inflatable Fluidic Dome. Sensors, 2021, 21, 1970.	2.1	9
7	Fatigue Modeling and Numerical Analysis of Re-Filling Probe Hole of Friction Stir Spot Welded Joints in Aluminum Alloys. Materials, 2021, 14, 2171.	1.3	1
8	Dual-stage thermosetting photopolymers for advanced manufacturing. Chemical Engineering Journal, 2021, 411, 128466.	6.6	18
9	Influence of Infill Patterns Generated by CAD and FDM 3D Printer on Surface Roughness and Tensile Strength Properties. Applied Sciences (Switzerland), 2021, 11, 7272.	1.3	44
10	Investigation of the right first-time distortion compensation approach in laser powder bed fusion of a thin manifold structure made of Inconel 718. Journal of Manufacturing Processes, 2021, 69, 621-629.	2.8	8
11	An improved distortion compensation approach for additive manufacturing using optically scanned data. Virtual and Physical Prototyping, 2021, 16, 1-13.	5.3	23
12	Reversible energy absorbing meta-sandwiches by FDM 4D printing. International Journal of Mechanical Sciences, 2020, 173, 105451.	3.6	154
13	Multimaterial 3D Printed Soft Actuators Powered by Shape Memory Alloy Wires. Sensors and Actuators A: Physical, 2019, 290, 177-189.	2.0	56
14	Modified commercial UV curable elastomers for passive 4D printing. International Journal of Smart and Nano Materials, 2019, 10, 225-236.	2.0	28
15	Influences of Horizontal and Vertical Build Orientations and Post-Fabrication Processes on the Fatigue Behavior of Stainless Steel 316L Produced by Selective Laser Melting. Materials, 2019, 12, 4203.	1.3	30
16	Enhanced multimaterial 4D printing with active hinges. Smart Materials and Structures, 2018, 27, 065027.	1.8	96
17	Highly stretchable hydrogels for UV curing based high-resolution multimaterial 3D printing. Journal of Materials Chemistry B, 2018, 6, 3246-3253.	2.9	173
18	Criterion for interface defeat to penetration transition of long rod projectile impact on ceramic armor. Thin-Walled Structures, 2018, 126, 266-284.	2.7	7

#	Article	IF	Citations
19	Controllable helical deformations on printed anisotropic composite soft actuators. Applied Physics Letters, 2018, 112, 181905.	1.5	12
20	Reprocessable thermosets for sustainable three-dimensional printing. Nature Communications, 2018, 9, 1831.	5.8	249
21	Influence of Geometry and Hardness of the Backing Plate on Ballistic Performance of Bi-Layer Ceramic Armor. Procedia Engineering, 2017, 173, 93-100.	1.2	15
22	On improving ballistic limit of bi-layer ceramicâ€“metal armor. International Journal of Impact Engineering, 2017, 105, 54-67.	2.4	41
23	Thermomechanics of printed anisotropic shape memory elastomeric composites. International Journal of Solids and Structures, 2016, 102-103, 186-199.	1.3	28
24	Empirical Ballistic Limit Velocity Model for Bi-Layer Ceramicâ€“Metal Armor. International Journal of Protective Structures, 2015, 6, 509-527.	1.4	19
25	Pre-stress effect on confined ceramic armor ballistic performance. International Journal of Impact Engineering, 2015, 84, 159-170.	2.4	40
26	Experimental validation of BLV model on bi-layer ceramic-metal armor. International Journal of Impact Engineering, 2015, 77, 30-41.	2.4	48
27	An Empirical Model for the Ballistic Limit of Bi-layer Ceramic/metal Armour. Procedia Engineering, 2014, 75, 14-18.	1.2	6
28	Ballistic impact on bi-layer alumina/aluminium armor: A semi-analytical approach. International Journal of Impact Engineering, 2013, 52, 37-46.	2.4	52
29	On the Design of Bi-Layer Armor Materials. Solid State Phenomena, 0, 185, 48-50.	0.3	1