

# Ahmad Serjouei

## List of Publications by Year in descending order

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29  
papers

1,276  
citations

471371

17  
h-index

501076

28  
g-index

29  
all docs

29  
docs citations

29  
times ranked

1403  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reprocessable thermosets for sustainable three-dimensional printing. <i>Nature Communications</i> , 2018, 9, 1831.	5.8	249
2	Highly stretchable hydrogels for UV curing based high-resolution multimaterial 3D printing. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3246-3253.	2.9	173
3	Reversible energy absorbing meta-sandwiches by FDM 4D printing. <i>International Journal of Mechanical Sciences</i> , 2020, 173, 105451.	3.6	154
4	Enhanced multimaterial 4D printing with active hinges. <i>Smart Materials and Structures</i> , 2018, 27, 065027.	1.8	96
5	Multimaterial 3D Printed Soft Actuators Powered by Shape Memory Alloy Wires. <i>Sensors and Actuators A: Physical</i> , 2019, 290, 177-189.	2.0	56
6	Ballistic impact on bi-layer alumina/aluminium armor: A semi-analytical approach. <i>International Journal of Impact Engineering</i> , 2013, 52, 37-46.	2.4	52
7	Experimental validation of BLV model on bi-layer ceramic-metal armor. <i>International Journal of Impact Engineering</i> , 2015, 77, 30-41.	2.4	48
8	Influence of Infill Patterns Generated by CAD and FDM 3D Printer on Surface Roughness and Tensile Strength Properties. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7272.	1.3	44
9	On improving ballistic limit of bi-layer ceramic-metal armor. <i>International Journal of Impact Engineering</i> , 2017, 105, 54-67.	2.4	41
10	Pre-stress effect on confined ceramic armor ballistic performance. <i>International Journal of Impact Engineering</i> , 2015, 84, 159-170.	2.4	40
11	Energy Absorption and Mechanical Performance of Functionally Graded Soft-Hard Lattice Structures. <i>Materials</i> , 2021, 14, 1366.	1.3	38
12	4D printed shape memory sandwich structures: experimental analysis and numerical modeling. <i>Smart Materials and Structures</i> , 2022, 31, 055014.	1.8	31
13	Influences of Horizontal and Vertical Build Orientations and Post-Fabrication Processes on the Fatigue Behavior of Stainless Steel 316L Produced by Selective Laser Melting. <i>Materials</i> , 2019, 12, 4203.	1.3	30
14	Thermomechanics of printed anisotropic shape memory elastomeric composites. <i>International Journal of Solids and Structures</i> , 2016, 102-103, 186-199.	1.3	28
15	Modified commercial UV curable elastomers for passive 4D printing. <i>International Journal of Smart and Nano Materials</i> , 2019, 10, 225-236.	2.0	28
16	On the design workflow of auxetic metamaterials for structural applications. <i>Smart Materials and Structures</i> , 2022, 31, 023002.	1.8	26
17	An improved distortion compensation approach for additive manufacturing using optically scanned data. <i>Virtual and Physical Prototyping</i> , 2021, 16, 1-13.	5.3	23
18	Empirical Ballistic Limit Velocity Model for Bi-Layer Ceramic-Metal Armor. <i>International Journal of Protective Structures</i> , 2015, 6, 509-527.	1.4	19

#	ARTICLE	IF	CITATIONS
19	Dual-stage thermosetting photopolymers for advanced manufacturing. Chemical Engineering Journal, 2021, 411, 128466.	6.6	18
20	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
21	Nonlinear Finite Element Modelling of Thermo-Visco-Plastic Styrene and Polyurethane Shape Memory Polymer Foams. Actuators, 2021, 10, 46.	1.2	13
22	Controllable helical deformations on printed anisotropic composite soft actuators. Applied Physics Letters, 2018, 112, 181905.	1.5	12
23	Fatigue Life Improvement of Cracked Aluminum 6061-T6 Plates Repaired by Composite Patches. Materials, 2021, 14, 1421.	1.3	10
24	Adjustable Compliance Soft Sensor via an Elastically Inflatable Fluidic Dome. Sensors, 2021, 21, 1970.	2.1	9
25	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
26	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
27	An Empirical Model for the Ballistic Limit of Bi-layer Ceramic/metal Armour. Procedia Engineering, 2014, 75, 14-18.	1.2	6
28	On the Design of Bi-Layer Armor Materials. Solid State Phenomena, 0, 185, 48-50.	0.3	1
29	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