

# Mehdi Estili

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

4,370  
citations

218677

26  
h-index

345221

36  
g-index

36  
all docs

36  
docs citations

36  
times ranked

6027  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Electronic and Magnetic Properties of Two-Dimensional Transition Metal Carbides and Nitrides. <i>Advanced Functional Materials</i> , 2013, 23, 2185-2192.	14.9	1,418
2	Combination of hot extrusion and spark plasma sintering for producing carbon nanotube reinforced aluminum matrix composites. <i>Carbon</i> , 2009, 47, 570-577.	10.3	538
3	Two-dimensional molybdenum carbides: potential thermoelectric materials of the MXene family. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7841-7849.	2.8	395
4	Dielectrophoretically Aligned Carbon Nanotubes to Control Electrical and Mechanical Properties of Hydrogels to Fabricate Contractile Muscle Myofibers. <i>Advanced Materials</i> , 2013, 25, 4028-4034.	21.0	236
5	Hybrid hydrogels containing vertically aligned carbon nanotubes with anisotropic electrical conductivity for muscle myofiber fabrication. <i>Scientific Reports</i> , 2014, 4, 4271.	3.3	213
6	Hybrid hydrogel-aligned carbon nanotube scaffolds to enhance cardiac differentiation of embryoid bodies. <i>Acta Biomaterialia</i> , 2016, 31, 134-143.	8.3	145
7	Moldable elastomeric polyester-carbon nanotube scaffolds for cardiac tissue engineering. <i>Acta Biomaterialia</i> , 2017, 52, 81-91.	8.3	135
8	Trends in electronic structures and structural properties of MAX phases: a first-principles study on $M_2AlC$ ( $M = Sc, Ti, Cr, Zr, Nb, Mo, Hf, \text{ or } Ta$ ), $M_2AlN$ , and hypothetical $M_2AlB$ phases. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 505503.	1.8	116
9	Facile and green production of aqueous graphene dispersions for biomedical applications. <i>Nanoscale</i> , 2015, 7, 6436-6443.	5.6	114
10	The homogeneous dispersion of surfactantless, slightly disordered, crystalline, multiwalled carbon nanotubes in $\gamma$ -alumina ceramics for structural reinforcement. <i>Acta Materialia</i> , 2008, 56, 4070-4079.	7.9	105
11	An approach to mass-producing individually alumina-decorated multi-walled carbon nanotubes with optimized and controlled compositions. <i>Scripta Materialia</i> , 2008, 58, 906-909.	5.2	99
12	Load-bearing contribution of multi-walled carbon nanotubes on tensile response of aluminum. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 68, 133-139.	7.6	85
13	The effect of the interlayer element on the exfoliation of layered $M_2AC$ ( $A = Al, Si, P, Ga$ ). <i>Tj ETQq1 1 0.784314 rgBT /Ov</i> of <i>Advanced Materials</i> , 2014, 15, 014208.	6.1	78
14	Engineering Strong Intergraphene Shear Resistance in Multi-Walled Carbon Nanotubes and Dramatic Tensile Improvements. <i>Advanced Materials</i> , 2010, 22, 607-610.	21.0	74
15	Recent advances in understanding the reinforcing ability and mechanism of carbon nanotubes in ceramic matrix composites. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 064902.	6.1	73
16	Multi-Walled Carbon Nanotube-Aluminum Matrix Composites Prepared by Combination of Hetero-Agglomeration Method, Spark Plasma Sintering and Hot Extrusion. <i>Materials Transactions</i> , 2011, 52, 1960-1965.	1.2	57
17	Highly Concentrated 3D Macrostructure of Individual Carbon Nanotubes in a Ceramic Environment. <i>Advanced Materials</i> , 2012, 24, 4322-4326.	21.0	56
18	Microstructure and high-temperature strength of textured and non-textured $ZrB_2$ ceramics. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 014202.	6.1	43

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19	Machinable ZrB <sub>2</sub> -SiC-BN composites fabricated by reactive spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 582, 41-46.	5.6	39
20	Graphene induces spontaneous cardiac differentiation in embryoid bodies. <i>Nanoscale</i> , 2016, 8, 7075-7084.	5.6	39
21	Multiwalled carbon nanotubes as a unique agent to fabricate nanostructure-controlled functionally graded alumina ceramics. <i>Scripta Materialia</i> , 2008, 59, 703-705.	5.2	37
22	Unprecedented simultaneous enhancement in strain tolerance, toughness and strength of Al <sub>2</sub> O <sub>3</sub> ceramic by multiwall-type failure of a high loading of carbon nanotubes. <i>Nanotechnology</i> , 2013, 24, 155702.	2.6	37
23	Facile and rapid generation of 3D chemical gradients within hydrogels for high-throughput drug screening applications. <i>Biosensors and Bioelectronics</i> , 2014, 59, 166-173.	10.1	35
24	In situ characterization of tensile-bending load bearing ability of multi-walled carbon nanotubes in alumina-based nanocomposites. <i>Journal of Materials Chemistry</i> , 2011, 21, 4272.	6.7	32
25	Carbon nanotubes embedded in embryoid bodies direct cardiac differentiation. <i>Biomedical Microdevices</i> , 2017, 19, 57.	2.8	30
26	45S5 Bioglass-MWCNT composite: processing and bioactivity. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 199.	3.6	26
27	Microstructure and mechanical properties of ZrB <sub>2</sub> -SiC-BN composites fabricated by reactive hot pressing and reactive spark plasma sintering. <i>Scripta Materialia</i> , 2013, 68, 889-892.	5.2	25
28	Fabrication of poly(ethylene glycol) hydrogels containing vertically and horizontally aligned graphene using dielectrophoresis: An experimental and modeling study. <i>Carbon</i> , 2017, 123, 460-470.	10.3	24
29	Perfect High-Temperature Plasticity Realized in Multiwalled Carbon Nanotube-Concentrated Al <sub>2</sub> O <sub>3</sub> Hybrid. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1904-1908.	3.8	14
30	Mechanically reliable thermoelectric (TE) nanocomposites by dispersing and embedding TE-nanostructures inside a tetragonal ZrO <sub>2</sub> matrix: the concept and experimental demonstration in graphene oxide-3YSZ system. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 014201.	6.1	14
31	Multiwalled carbon nanotube-reinforced ceramic matrix composites as a promising structural material. <i>Journal of Nuclear Materials</i> , 2010, 398, 244-245.	2.7	13
32	Sintering in a graphite powder bed of alumina-toughened zirconia/carbon nanotube composites: a novel way to delay hydrothermal degradation. <i>Ceramics International</i> , 2015, 41, 4569-4580.	4.8	10
33	Advanced Nanostructure-Controlled Functionally Graded Materials Employing Carbon Nanotubes. <i>Materials Science Forum</i> , 2009, 631-632, 225-230.	0.3	5
34	Dispersion and structural evolution of multi-walled carbon nanotubes in ZrB <sub>2</sub> matrix. <i>Ceramics International</i> , 2017, 43, 10533-10539.	4.8	4
35	Heterocoagulation and SPS sintering of sulfonitic-treated CNT and 8YZ nanopowders. <i>Journal of Asian Ceramic Societies</i> , 2019, 7, 238-246.	2.3	4
36	Dispersion and Reinforcing Mechanism of Carbon Nanotubes in a Ceramic Material. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2016, 63, 955-964.	0.2	2