Hamed Shahmir

List of Publications by Year
in descending order

43 papers	1,452 citations	361296 20 h-index	330025 37 g-index
43 all docs	43 docs citations	43 times ranked	995 citing authors

#	Article	IF	Citations
1	Effect of annealing on mechanical properties of a nanocrystalline CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 676, 294-303.	2.6	225
2	Microstructure and properties of a CoCrFeNiMn high-entropy alloy processed by equal-channel angular pressing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 705, 411-419.	2.6	137
3	Heat treatment effect on the microstructure, tensile properties and dry sliding wear behavior of A356â€“10%B4C cast composites. Materials & Design, 2010, 31, 4414-4422.	5.1	106
4	Evidence for superplasticity in a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 685, 342-348.	2.6	91
5	Effect of Ti on phase stability and strengthening mechanisms of a nanocrystalline CoCrFeMnNi high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 725, 196-206.	2.6	66
6	Using heat treatments, high-pressure torsion and post-deformation annealing to optimize the properties of Ti-6Al-4V alloys. Acta Materialia, 2017, 141, 419-426.	3.8	60
7	Effect of a minor titanium addition on the superplastic properties of a CoCrFeNiMn high-entropy alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 718, 468-476.	2.6	60
8	Evidence of FCC to HCP and BCC-martensitic transformations in a CoCrFeNiMn high-entropy alloy by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 807, 140875.	2.6	48
9	Shape memory effect in nanocrystalline NiTi alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 203-206.	2.6	46
10	The processing of NiTi shape memory alloys by equal-channel angular pressing at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 576, 178-184.	2.6	45
11	Characteristics of the allotropic phase transformation in titanium processed by high-pressure torsion using different rotation speeds. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 293-299.	2.6	38
12	Fine-tuning of mechanical properties in V10Cr15Mn5Fe35Co10Ni25 high-entropy alloy through high-pressure torsion and annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 771, 138604.	2.6	38
13	CoCrFeNiMn high entropy alloy microstructure and mechanical properties after severe cold shape rolling and annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 793, 139884.	2.6	38
14	Evolution of microstructure and hardness in NiTi shape memory alloys processed by high-pressure torsion. Journal of Materials Science, 2014, 49, 2998-3009.	1.7	36
15	Superelastic behavior of aged and thermomechanical treated NiTi alloy at Af+10Â°C. Materials & Design, 2011, 32, 365-370.	5.1	35
16	Factors influencing superplasticity in the Ti-6Al-4V alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 718, 198-206.	2.6	32
17	Annealing behavior and shape memory effect in NiTi alloy processed by equal-channel angular pressing at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 629, 16-22.	2.6	31
18	An evaluation of the hexagonal close-packed to face-centered cubic phase transformation in a Ti-6Al-4V alloy during high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 212-217.	2.6	30

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19	Mechanical properties and microstructural evolution of nanocrystalline titanium at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 669, 358-366.	2.6	24
20	Effect of Initial Grain Size on Deformation Mechanism during Highâ€Pressure Torsion in V 10 Cr 15 Mn 5 Fe 35 Co 10 Ni 25 Highâ€Entropy Alloy. Advanced Engineering Materials, 2020, 22, 1900587.	1.6	21
21	Effect of carbon content and annealing on structure and hardness of CrFe2NiMnV0.25 high-entropy alloys processed by high-pressure torsion. Journal of Materials Science, 2018, 53, 11813-11822.	1.7	20
22	Significance of Ti addition on precipitation in CoCrFeNiMn high-entropy alloy. Journal of Alloys and Compounds, 2021, 888, 161530.	2.8	20
23	Shape memory characteristics of a nanocrystalline TiNi alloy processed by HPT followed by post-deformation annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 734, 445-452.	2.6	18
24	Microstructure and excess free volume of severely cold shape rolled CoCrFeNiMn high entropy alloy. Journal of Alloys and Compounds, 2020, 840, 155672.	2.8	17
25	Using dilatometry to study martensitic stabilization and recrystallization kinetics in a severely deformed NiTi alloy. Journal of Materials Science, 2015, 50, 4003-4011.	1.7	15
26	Precipitation kinetics in heavily deformed CoCrFeNiMn high entropy alloy. Materials Letters, 2021, 288, 129359.	1.3	14
27	Microstructure tailoring to enhance mechanical properties in CoCrFeNiMn high-entropy alloy by Ti addition and thermomechanical treatment. Materials Characterization, 2021, 182, 111513.	1.9	14
28	Effect of Cu on Amorphization of a TiNi Alloy during HPT and Shape Memory Effect after Postâ€Deformation Annealing. Advanced Engineering Materials, 2020, 22, 1900387.	1.6	12
29	Design principles of low-activation high entropy alloys. Journal of Alloys and Compounds, 2022, 907, 164526.	2.8	12
30	Study of thermomechanical treatment on mechanical-induced phase transformation of NiTi and TiNiCu wires. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 21, 32-36.	1.5	10
31	Shape memory effect of NiTi alloy processed by equal-channel angular pressing followed by post deformation annealing. IOP Conference Series: Materials Science and Engineering, 2014, 63, 012111.	0.3	10
32	Evaluating a New Coreâ€Sheath Procedure for Processing Hard Metals by Equalâ€Channel Angular Pressing. Advanced Engineering Materials, 2014, 16, 918-926.	1.6	10
33	Hardening and thermal stability of a nanocrystalline CoCrFeNiMnTi_{0.1} high-entropy alloy processed by high-pressure torsion. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012017.	0.3	10
34	Upgrading of superior strengthâ€“ductility trade-off of CoCrFeNiMn high-entropy alloy by microstructural engineering. Materialia, 2022, 22, 101394.	1.3	10
35	Evaluating the Room Temperature ECAP Processing of a NiTi Alloy via Simulation and Experiments. Advanced Engineering Materials, 2015, 17, 532-538.	1.6	9
36	Microstructural evolution and mechanical properties of CoCrFeNiMnTi_x highâ€entropy alloys. Materialwissenschaft Und Werkstofftechnik, 2021, 52, 441-451.	0.5	9

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37	Control of Superelastic Behavior of NiTi Wires Aided by Thermomechanical Treatment with Reference to Three-Point Bending. Journal of Materials Engineering and Performance, 2014, 23, 1386-1391.	1.2	7
38	The potential for achieving superplasticity in high-entropy alloys processed by severe plastic deformation. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012040.	0.3	7
39	An assessment of the high-entropy alloy system VCrMnFeAlx. Journal of Alloys and Compounds, 2021, 888, 161525.	2.8	6
40	Developing Superplasticity in High-Entropy Alloys Processed by Severe Plastic Deformation. Materials Science Forum, 0, 941, 1059-1064.	0.3	5
41	Microstructure and mechanical properties of ultrafine-grained titanium processed by multi-pass ECAP at room temperature using coreâ€“sheath method. Journal of Materials Research, 2018, 33, 3809-3817.	1.2	5
42	Room Temperature Flow Behavior of Ti Deformed by Equalâ€Channel Angular Pressing Using Coreâ€“Sheath Method. Advanced Engineering Materials, 2017, 19, 1600552.	1.6	4
43	Effect of Initial Grain Size on Deformation Mechanism during Highâ€Pressure Torsion in V₁₀Cr₁₅Mn₅Fe₃₅Co₁₀Ni₂₅ Highâ€Entropy Alloy. Advanced Engineering Materials, 2020, 22, 2070002.	1.6	1