Andrea M Hodge

List of Publications by Year
in descending order

46 papers	2,523 citations	257450 24 h-index	233421 45 g-index
47 all docs	47 docs citations	47 times ranked	2438 citing authors

#	Article	IF	Citations
1	Coatings for Coreâ€“Shell Composite Microâ€Lattice Structures: Varying Sputtering Parameters. Advanced Engineering Materials, 2022, 24, 2101264.	3.5	4
2	Atomistic modeling of physical vapor deposition on complex topology substrates. Computational Materials Science, 2022, 203, 111111.	3.0	7
3	An Overview of Nano Multilayers as Model Systems for Developing Nanoscale Microstructures. Materials, 2022, 15, 382.	2.9	3
4	Unraveling Thermodynamic and Kinetic Contributions to the Stability of Doped Nanocrystalline Alloys using Nanometallic Multilayers. Advanced Materials, 2022, 34, e2200354.	21.0	2
5	Grain boundary evolution of highly nanotwinned alloys: Effect of initial twinned microstructure. Scripta Materialia, 2021, 190, 27-31.	5.2	7
6	Characterization of Grain Boundaryâ€Engineered Aluminumâ€“Magnesium Alloys. Advanced Engineering Materials, 2021, 23, 2000813.	3.5	0
7	A review of coated nano- and micro-lattice materials. Journal of Materials Research, 2021, 36, 3607-3627.	2.6	10
8	Phase transition zones in compositionally complex alloy films influenced by varying Al and Ti content. Surface and Coatings Technology, 2021, 424, 127651.	4.8	3
9	Development of a heterogeneous nanostructure through abnormal recrystallization of a nanotwinned Ni superalloy. Acta Materialia, 2020, 195, 132-140.	7.9	16
10	Synthesis and characterization of optically transparent ceramic crystalline/amorphous and amorphous/amorphous multilayers. Scripta Materialia, 2020, 187, 157-162.	5.2	5
11	Exploring microstructural variations in highly transparent AlN/SiO2 nano multilayers. Optical Materials Express, 2020, 10, 850.	3.0	2
12	Sliding wear behavior of fully nanotwinned Cu alloys. Friction, 2019, 7, 260-267.	6.4	19
13	Scalingâ€Up of Nanoâ€Architected Microstructures: A Mechanical Assessment. Advanced Engineering Materials, 2019, 21, 1900687.	3.5	4
14	Optical and Mechanical Characterization of Sputtered AlN/Ag Multilayer Films. Advanced Engineering Materials, 2019, 21, 1801268.	3.5	12
15	Exploring the thermal stability of a bimodal nanoscale multilayered system. Scripta Materialia, 2019, 166, 19-23.	5.2	14
16	Exploring the microstructural evolution of Hf-Ti: From nanometallic multilayers to nanostructures. Scripta Materialia, 2018, 142, 55-60.	5.2	15
17	Evaluating sputter deposited metal coatings on 3D printed polymer micro-truss structures. Materials and Design, 2018, 140, 442-450.	7.0	34
18	Microstructural deformation in fatigued nanotwinned copper alloys. Acta Materialia, 2018, 144, 138-144.	7.9	26

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19	Thermally activated microstructural evolution of sputtered nanostructured Moâ€“Au. Materialia, 2018, 4, 157-165.	2.7	8
20	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
21	Phase transformations in the Wâ€“Cr system at the nanoscale. Materialia, 2018, 2, 190-195.	2.7	4
22	Growth twins in high stacking fault energy metals: Microstructure, texture and twinning. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 687, 93-98.	5.6	27
23	Study of Î² precipitation and layer structure formation in Al 5083: The role of dispersoids and grain boundaries. Journal of Alloys and Compounds, 2017, 703, 242-250.	5.5	54
24	Tensile behavior of fully nanotwinned alloys with varying stacking fault energies. MRS Communications, 2017, 7, 253-258.	1.8	7
25	Nanoporous Metals with Structural Hierarchy: A Review. Advanced Engineering Materials, 2017, 19, 1700389.	3.5	103
26	Synthesis of Nanoporous Gold Tubes. Advanced Engineering Materials, 2016, 18, 65-69.	3.5	5
27	Shock Wave Response of Iron-based In Situ Metallic Glass Matrix Composites. Scientific Reports, 2016, 6, 22568.	3.3	27
28	Improve sensitization and corrosion resistance of an Al-Mg alloy by optimization of grain boundaries. Scientific Reports, 2016, 6, 26870.	3.3	44
29	Influence of Twin Thickness and Grain Size on the Tensile Behavior of Fully Nanotwinned CuAl Alloys. Advanced Engineering Materials, 2016, 18, 918-922.	3.5	19
30	Sputtered Hfâ€“Ti nanostructures: A segregation and high-temperature stability study. Acta Materialia, 2016, 108, 8-16.	7.9	35
31	Designing in situ and ex situ bulk metallic glass composites via spark plasma sintering in the super cooled liquid state. Materials and Design, 2016, 93, 26-38.	7.0	35
32	The mobility of growth twins synthesized by sputtering: Tailoring the twin thickness. Acta Materialia, 2016, 109, 142-150.	7.9	27
33	The role of grain boundary plane orientation in the Î² phase precipitation of an Alâ€“Mg alloy. Scripta Materialia, 2014, 89, 49-52.	5.2	44
34	Influence of stacking fault energy on twin spacing of Cu and Cuâ€“Al alloys. Scripta Materialia, 2014, 83, 33-36.	5.2	38
35	Strength scale behavior of nanoporous Ag, Pd and Cu foams. Scripta Materialia, 2013, 69, 295-298.	5.2	39
36	Morphology, Oxidation, and Mechanical Behavior of Nanoporous Cu Foams. Advanced Engineering Materials, 2012, 14, 219-226.	3.5	52

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37	Stress and microstructure evolution in thick sputtered films. Acta Materialia, 2009, 57, 2055-2065.	7.9	116
38	Nanoporous Metals by Alloy Corrosion: Formation and Mechanical Properties. MRS Bulletin, 2009, 34, 577-586.	3.5	264
39	On the Microstructure of Nanoporous Gold: An X-ray Diffraction Study. Nano Letters, 2009, 9, 1158-1163.	9.1	132
40	Nanoporous Plasmonic Metamaterials. Advanced Materials, 2008, 20, 1211-1217.	21.0	242
41	Mechanical response of freestanding Au nanopillars under compression. Applied Physics Letters, 2007, 91, .	3.3	41
42	Size Effects on the Mechanical Behavior of Nanoporous Au. Nano Letters, 2006, 6, 2379-2382.	9.1	423
43	Microscopic failure behavior of nanoporous gold. Applied Physics Letters, 2005, 87, 121908.	3.3	137
44	Nanoporous Au: A high yield strength material. Journal of Applied Physics, 2005, 97, 024301.	2.5	284
45	Incipient plasticity during nanoindentation at elevated temperatures. Applied Physics Letters, 2004, 85, 1362-1364.	3.3	74
46	Measurement and modeling of creep in open-cell NiAl foams. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 2353-2363.	2.2	50