

John S Carpenter

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,241
citations

758635

12
h-index

713013

21
g-index

29
all docs

29
docs citations

29
times ranked

1092
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Radiation Tolerant Materials Via Interface Engineering. <i>Advanced Materials</i> , 2013, 25, 6975-6979.	11.1	307
2	High-strength and thermally stable bulk nanolayered composites due to twin-induced interfaces. <i>Nature Communications</i> , 2013, 4, 1696.	5.8	298
3	Interface-driven microstructure development and ultra high strength of bulk nanostructured Cu-Nb multilayers fabricated by severe plastic deformation. <i>Journal of Materials Research</i> , 2013, 28, 1799-1812.	1.2	142
4	Deformation behavior of the cobalt-based superalloy Haynes 25: Experimental characterization and crystal plasticity modeling. <i>Acta Materialia</i> , 2014, 63, 162-168.	3.8	86
5	Processing Parameter Influence on Texture and Microstructural Evolution in Cu-Nb Multilayer Composites Fabricated via Accumulative Roll Bonding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 2192-2208.	1.1	67
6	Engineering Interface Structures and Thermal Stabilities via SPD Processing in Bulk Nanostructured Metals. <i>Scientific Reports</i> , 2014, 4, 4226.	1.6	65
7	The critical role of grain orientation and applied stress in nanoscale twinning. <i>Nature Communications</i> , 2014, 5, 3806.	5.8	62
8	Achieving maximum hardness in semi-coherent multilayer thin films with unequal layer thickness. <i>Acta Materialia</i> , 2012, 60, 2625-2636.	3.8	53
9	An interface facet driven Rayleigh instability in high-aspect-ratio bimetallic nanolayered composites. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	25
10	Brief Introduction to Neutron Scattering and Global Neutron User Facilities. <i>Jom</i> , 2012, 64, 104-111.	0.9	19
11	Maintaining nano-lamellar microstructure in friction stir welding (FSW) of accumulative roll bonded (ARB) Cu-Nb nano-lamellar composites (NLC). <i>Journal of Materials Science and Technology</i> , 2018, 34, 92-101.	5.6	16
12	An indentation-based method to determine constituent strengths within nanolayered composites. <i>Acta Materialia</i> , 2015, 92, 255-264.	3.8	14
13	Interface-Driven Plasticity: The Presence of an Interface Affected Zone in Metallic Lamellar Composites. <i>Advanced Engineering Materials</i> , 2015, 17, 109-114.	1.6	13
14	Evolution of microstructures and properties leading to layer instabilities during accumulative roll bonding of Fe Cu, Fe Ag, and Fe Al. <i>Materials and Design</i> , 2021, 212, 110204.	3.3	12
15	Shear strain gradient in Cu/Nb nanolaminates: Strain accommodation and chemical mixing. <i>Acta Materialia</i> , 2022, 234, 117986.	3.8	12
16	X-Ray Diffraction Studies of Forward and Reverse Plastic Flow in Nanoscale Layers During Thermal Cycling. <i>Materials Research Letters</i> , 2013, 1, 233-243.	4.1	11
17	Processing of Dilute Mg-Zn-Mn-Ca Alloy/Nb Multilayers by Accumulative Roll Bonding. <i>Advanced Engineering Materials</i> , 2020, 22, 1900673.	1.6	11
18	Recrystallization and Grain Growth in Accumulative Roll-Bonded Metal Composites. <i>Jom</i> , 2015, 67, 2810-2819.	0.9	9

#	ARTICLE	IF	CITATIONS
19	The Impact of Rolling at Temperature on Conductivity and Texture in Nanolamellar Cu/Nb Bimetallic Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 2208-2213.	1.1	7
20	Mechanical Properties of Nanostructured Metals. , 2014, , 495-553.		6
21	Layer Stability and Material Properties of Friction-Stir Welded Cu-Nb Nanolamellar Composite Plates. Materials Research Letters, 2014, 2, 227-232.	4.1	2
22	The Influence of Rolling Schedule on the Dynamic Properties of Accumulatively Roll Bonded Nano-Layered Cu-Nb. Key Engineering Materials, 2014, 622-623, 1031-1040.	0.4	2
23	Perspective on Neutron Diffraction as a Tool for Characterizing Minerals, Metals, and Materials. Jom, 2012, 64, 102-103.	0.9	0
24	Perspective on the Use of Coherent Diffraction Imaging as a Tool for High Resolution Materials Characterization. Jom, 2013, 65, 1181-1182.	0.9	0
25	Probing Material Morphology and Deformation as a Response to in situ Loading using X-ray Tomography. Microscopy and Microanalysis, 2019, 25, 374-375.	0.2	0