

Subhasis Sinha

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2548325/publications.pdf>

Version: 2024-02-01

39
papers

1,522
citations

361045

20
h-index

301761

39
g-index

39
all docs

39
docs citations

39
times ranked

1419
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial texture dependence of nanocrystalline omega phase formation during high pressure torsion of commercially pure titanium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140687.	2.6	8
2	Co-introduction of precipitate hardening and TRIP in a TWIP high-entropy alloy using friction stir alloying. <i>Scientific Reports</i> , 2021, 11, 1579.	1.6	8
3	Microstructure and surface texture driven improvement in in-vitro response of laser surface processed AZ31B magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 1406-1406.	5.5	20
4	Direct evidence of the stacking fault-mediated strain hardening phenomenon. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	18
5	Ultrasonic spot welding of dissimilar Al 6022 and Al 7075 alloys. <i>Journal of Materials Processing Technology</i> , 2020, 278, 116460.	3.1	15
6	Superplasticity in fine grained dual phase high entropy alloy. <i>Materialia</i> , 2020, 9, 100521.	1.3	20
7	Investigating the deformation mechanisms of a highly metastable high entropy alloy using in-situ neutron diffraction. <i>Materials Today Communications</i> , 2020, 23, 100858.	0.9	18
8	Friction stir gradient alloying: A novel solid-state high throughput screening technique for high entropy alloys. <i>Materials Today Communications</i> , 2020, 23, 100869.	0.9	14
9	Deformation mechanisms and ductile fracture characteristics of a friction stir processed transformative high entropy alloy. <i>Acta Materialia</i> , 2020, 184, 164-178.	3.8	30
10	Microstructurally flexible high entropy alloys: Linkages between alloy design and deformation behavior. <i>Materials and Design</i> , 2020, 194, 108968.	3.3	34
11	Metastability driven hierarchical microstructural engineering: Overview of mechanical properties of metastable complex concentrated alloys. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155625.	2.8	24
12	Porous zinc scaffolds for bone tissue engineering applications: A novel additive manufacturing and casting approach. <i>Materials Science and Engineering C</i> , 2020, 110, 110738.	3.8	75
13	Notch-tensile behavior of Al _{0.1} CrFeCoNi high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 774, 138918.	2.6	13
14	On the evolving nature of c/a ratio in a hexagonal close-packed epsilon martensite phase in transformative high entropy alloys. <i>Scientific Reports</i> , 2019, 9, 13185.	1.6	40
15	Immiscible nanostructured copper-aluminum-niobium alloy with excellent precipitation strengthening upon friction stir processing and aging. <i>Scripta Materialia</i> , 2019, 164, 42-47.	2.6	13
16	Nanoindentation behavior of high entropy alloys with transformation-induced plasticity. <i>Scientific Reports</i> , 2019, 9, 6639.	1.6	41
17	Extremely high fatigue resistance in an ultrafine grained high entropy alloy. <i>Applied Materials Today</i> , 2019, 15, 525-530.	2.3	61
18	Revealing the microstructural evolution in a high entropy alloy enabled with transformation, twinning and precipitation. <i>Materialia</i> , 2019, 6, 100310.	1.3	16

#	ARTICLE	IF	CITATIONS
19	Corrosion-resistant high entropy alloy with high strength and ductility. Scripta Materialia, 2019, 166, 168-172.	2.6	148
20	Achieving Forced Mixing in Cu-Based Immiscible Alloys via Friction Stir Processing. Minerals, Metals and Materials Series, 2019, , 199-208.	0.3	3
21	Microstructural Evolution and Deformation Behavior of Ni-Si- and Co-Si-Containing Metastable High Entropy Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 179-190.	1.1	10
22	A synchrotron X-ray and electron backscatter diffraction based investigation on deformation and failure micro-mechanisms of monotonic and cyclic loading in titanium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 726, 143-153.	2.6	3
23	Metastability-assisted fatigue behavior in a friction stir processed dual-phase high entropy alloy. Materials Research Letters, 2018, 6, 613-619.	4.1	54
24	Unexpected strength-ductility response in an annealed, metastable, high-entropy alloy. Applied Materials Today, 2018, 13, 198-206.	2.3	50
25	Reversed strength-ductility relationship in microstructurally flexible high entropy alloy. Scripta Materialia, 2018, 154, 163-167.	2.6	72
26	Effect of initial orientation on twinning in commercially pure titanium. Philosophical Magazine, 2017, 97, 775-797.	0.7	19
27	The role of crystallographic texture on load reversal and low cycle fatigue performance of commercially pure titanium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 691, 100-109.	2.6	23
28	Hot-rolled and continuously cooled bainitic steel with good strength-elongation combination. Materials Science and Technology, 2017, 33, 1026-1037.	0.8	20
29	In-Plane Anisotropy in Mechanical Behavior and Microstructural Evolution of Commercially Pure Titanium in Tensile and Cyclic Loading. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5813-5832.	1.1	9
30	In situ electron backscatter diffraction study of twinning in commercially pure titanium during tension-compression deformation and annealing. Materials and Design, 2017, 116, 686-693.	3.3	31
31	Effect of initial orientation on the tensile properties of commercially pure titanium. Philosophical Magazine, 2016, 96, 1485-1508.	0.7	31
32	Local deformation heterogeneity in cyclically deformed interstitial free steel. Fatigue and Fracture of Engineering Materials and Structures, 2016, 39, 110-119.	1.7	5
33	Tensile deformation of 316L austenitic stainless steel using in-situ electron backscatter diffraction and crystal plasticity simulations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 637, 48-55.	2.6	61
34	Effect of grain boundary engineering on the microstructure and mechanical properties of copper containing austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 175-185.	2.6	52
35	Interfacial orientation and misorientation relationships in nanolamellar Cu/Nb composites using transmission-electron-microscope-based orientation and phase mapping. Acta Materialia, 2014, 64, 333-344.	3.8	42
36	Design of Radiation Tolerant Materials Via Interface Engineering. Advanced Materials, 2013, 25, 6975-6979.	11.1	307

#	ARTICLE	IF	CITATIONS
37	Design and development of precipitate strengthened advanced high strength steel for automotive application. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 561, 394-402.	2.6	66
38	Development of microstructure and texture in Copper during warm accumulative roll bonding. Materials Characterization, 2012, 70, 74-82.	1.9	33
39	Characterization of cast stainless steel weld pools by using ball indentation technique. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 513-514, 389-393.	2.6	15