

Pinaki Bhattacharjee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

2,647
citations

28
h-index

49
g-index

97
ext. papers

3,295
ext. citations

3.5
avg, IF

5.71
L-index

#	Paper	IF	Citations
97	Microstructure and texture of severely warm-rolled and annealed coarse-grained CoCrNi medium entropy alloy (MEA): A perspective on the initial grain size effect. <i>Journal of Alloys and Compounds</i> , 2022 , 904, 163954	5.7	1
96	Microstructure and texture development in CoCrNi medium entropy alloy processed by severe warm cross-rolling and annealing. <i>Intermetallics</i> , 2022 , 143, 107463	3.5	0
95	Development of ultrafine grained cobalt-free AlCrFe2Ni2 high entropy alloy with superior mechanical properties by thermo-mechanical processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142190	5.3	4
94	Microstructure and unusually strong recrystallization texture of the FCC phase of a cost-effective high-strength dual-phase AlCrFe2Ni2 high entropy alloy. <i>Intermetallics</i> , 2022 , 145, 107559	3.5	1
93	Germanium Antimony Bonding in BaGeSbTe with Low Thermal Conductivity.. <i>Inorganic Chemistry</i> , 2021 ,	5.1	2
92	Reactive molten-flux assisted syntheses of single crystals of Cs19Ln19Mn10Te48 (Ln = Pr and Gd) crystallizing in a new structure type. <i>CrystEngComm</i> , 2021 , 23, 8418-8429	3.3	1
91	Effects of Cr alloying on the evolution of solidification microstructure and phase transformations of high-Nb containing β TiAl based alloys. <i>Intermetallics</i> , 2021 , 131, 107117	3.5	6
90	Cross-rolling mediated microstructure and texture evolution in severely cold-rolled and annealed ultrafine pearlite. <i>Materials Characterization</i> , 2021 , 171, 110751	3.9	6
89	Severe warm-rolling mediated microstructure and texture of equiatomic CoCrFeMnNi high entropy alloy: A comparison with cold-rolling. <i>Intermetallics</i> , 2021 , 129, 107029	3.5	5
88	Hot Deformation Behavior of β TiAl-Based Ti ₅ Al ₁₈ Nb ₂ Cr _{0.2} B Alloy in the β - β' Phase Field. <i>Springer Proceedings in Materials</i> , 2021 , 135-144	0.2	
87	Microstructure and texture of CoCrNi medium entropy alloy (MEA) processed by severe cryo-rolling: A study vis-a-vis cold-rolling. <i>Intermetallics</i> , 2021 , 138, 107345	3.5	4
86	Effect of niobium alloying on the microstructure, phase stability and mechanical properties of CoCrFeNi _{2.1} Nb _x high entropy alloys: Experimentation and thermodynamic modeling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 793, 139897	5.3	11
85	Dynamic recrystallization of a (β 2)-Stabilized β TiAl based Ti ₅ Al ₁₈ Nb ₂ Cr-0.2B alloy: The contributions of constituent phases and Zener-Hollomon parameter modulated recrystallization mechanisms. <i>Journal of Alloys and Compounds</i> , 2020 , 828, 154386	5.7	16
84	Heterogeneous precipitation mediated heterogeneous nanostructure enhances strength-ductility synergy in severely cryo-rolled and annealed CoCrFeNiNb high entropy alloy. <i>Scientific Reports</i> , 2020 , 10, 6056	4.9	19
83	Compressive creep behavior of a β TiAl based Ti ₅ Al ₁₈ Nb ₂ Cr-0.2B alloy: The role of (β 2)-phase and concurrent phase transformations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 774, 138891	5.3	13
82	Influence of Process Parameters on Microstructure Evolution During Hot Deformation of a Eutectic High-Entropy Alloy (EHEA). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 6406-6420	2.3	7
81	High entropy alloys: Key issues under passionate debate. <i>Scripta Materialia</i> , 2020 , 188, 54-58	5.6	75

80	Strain dependent evolution of microstructure and texture in severely cold-rolled and annealed ultrafine pearlite. <i>Materials Characterization</i> , 2020 , 169, 110583	3.9	4
79	Tuning nanostructure using thermo-mechanical processing for enhancing mechanical properties of complex intermetallic containing CoCrFeNi _{2.1} Nbx high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 769, 138489	5.3	19
78	Microstructure and texture of a severely warm-rolled and annealed AlCoCrFeNi _{2.1} eutectic high entropy alloy. <i>Journal of Physics: Conference Series</i> , 2019 , 1270, 012054	0.3	1
77	Microstructural design by severe warm-rolling for tuning mechanical properties of AlCoCrFeNi _{2.1} eutectic high entropy alloy. <i>Intermetallics</i> , 2019 , 114, 106601	3.5	13
76	Texture homogeneity and stability in severely warm-rolled and annealed ultrafine pearlite. <i>Materials Science and Technology</i> , 2019 , 35, 437-447	1.5	5
75	Development and homogeneity of microstructure and texture in a lamellar AlCoCrFeNi _{2.1} eutectic high-entropy alloy severely strained in the warm-deformation regime. <i>Journal of Materials Research</i> , 2019 , 34, 687-699	2.5	11
74	Intrinsic extremely low thermal conductivity in BaIn ₂ Te ₄ : Synthesis, crystal structure, Raman spectroscopy, optical, and thermoelectric properties. <i>Journal of Alloys and Compounds</i> , 2019 , 802, 385-393	5.7	6
73	Microstructural Characterization by Automated Crystal Orientation and Phase Mapping by Precession Electron Diffraction in TEM: Application to Hot Deformation of a -TiAl-based Alloy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1457-1465	0.5	1
72	Physical metallurgy of high-entropy alloys 2019 , 31-50		1
71	Solid solution phases and their microstructures in HEAs 2019 , 119-144		
70	Special subgroups of high-entropy alloys 2019 , 145-163		2
69	High-entropy ceramics 2019 , 165-176		24
68	High-entropy alloy coatings 2019 , 177-193		46
67	Structural properties 2019 , 195-232		
66	Applications and future directions 2019 , 247-257		
65	Hot deformation of high-Nb-containing TiAl alloy in the temperature range of 1000–200 °C: microstructural attributes to hot workability. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	4
64	Effect of prolonged aging on phase evolution and mechanical properties of intermetallic strengthened CoCrFeNi _{2.1} Nbx high entropy alloys. <i>Materials Letters</i> , 2019 , 248, 119-122	3.3	11
63	Nanostructuring with Structural-Compositional Dual Heterogeneities Enhances Strength-Ductility Synergy in Eutectic High Entropy Alloy. <i>Scientific Reports</i> , 2019 , 9, 11505	4.9	38

62	Engineering heterogeneous microstructure by severe warm-rolling for enhancing strength-ductility synergy in eutectic high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 764, 138226	5.3	32
61	High temperature compressive flow behavior and associated microstructural development in a Stabilized high Nb-containing β -TiAl based alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 573-585	5.7	26
60	Simultaneous Strength-Ductility Enhancement of a Nano-Lamellar AlCoCrFeNi Eutectic High Entropy Alloy by Cryo-Rolling and Annealing. <i>Scientific Reports</i> , 2018 , 8, 3276	4.9	126
59	Influence of strain on the formation of cold-rolling and grain growth textures of an equiatomic HfZrTiTaNb refractory high entropy alloy. <i>Materials Characterization</i> , 2018 , 136, 286-292	3.9	20
58	Strain-path controlled microstructure, texture and hardness evolution in cryo-deformed AlCoCrFeNi _{2.1} eutectic high entropy alloy. <i>Intermetallics</i> , 2018 , 97, 12-21	3.5	20
57	Effect of low temperature on tensile properties of AlCoCrFeNi _{2.1} eutectic high entropy alloy. <i>Materials Chemistry and Physics</i> , 2018 , 210, 207-212	4.4	56
56	Hot deformation behavior of CoCrFeMnNi FCC high entropy alloy. <i>Materials Chemistry and Physics</i> , 2018 , 210, 176-186	4.4	73
55	Uniaxial compression behaviour of porous copper: Experiments and modelling. <i>Materials Today Communications</i> , 2018 , 16, 320-329	2.5	4
54	Evolution of microstructure and microtexture during hot deformation in an advanced P/M nickel base superalloy. <i>Materials Characterization</i> , 2018 , 146, 217-236	3.9	24
53	On the Constraint Factor and Tabor Coefficient Pertinent to Spherical Indentation. <i>Transactions of the Indian Institute of Metals</i> , 2018 , 71, 2893-2901	1.2	2
52	Cold-rolling and recrystallization textures of a nano-lamellar AlCoCrFeNi _{2.1} eutectic high entropy alloy. <i>Intermetallics</i> , 2017 , 84, 42-51	3.5	68
51	Effect of strain path on microstructure and texture formation in cold-rolled and annealed FCC equiatomic CoCrFeMnNi high entropy alloy. <i>Intermetallics</i> , 2017 , 87, 94-103	3.5	17
50	Superplastic-like flow in a fine-grained equiatomic CoCrFeMnNi high-entropy alloy. <i>Materials Research Letters</i> , 2017 , 5, 408-414	7.4	44
49	Work hardening characteristics and microstructural evolution during hot deformation of a nickel superalloy at moderate strain rates. <i>Journal of Alloys and Compounds</i> , 2017 , 709, 394-409	5.7	63
48	Severe plastic deformation driven nanostructure and phase evolution in a Al 0.5 CoCrFeMnNi dual phase high entropy alloy. <i>Intermetallics</i> , 2017 , 91, 150-157	3.5	44
47	Deformation and Recrystallization Behavior of the Cast Structure in Large Size, High Strength Steel Ingots: Experimentation and Modeling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 4297-4313	2.3	13
46	Effect of severe cold-rolling and annealing on microstructure and mechanical properties of AlCoCrFeNi _{2.1} eutectic high entropy alloy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 194, 012018	0.4	17
45	The effect of heating rate on microstructure and texture formation during annealing of heavily cold-rolled equiatomic CoCrFeMnNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 752-761	5.7	28

44	Evolution of microstructure and texture during thermo-mechanical processing of a two phase Al _{0.5} CoCrFeMnNi high entropy alloy. <i>Materials Characterization</i> , 2016 , 118, 417-424	3.9	46
43	Ultrafine-Grained AlCoCrFeNi _{2.1} Eutectic High-Entropy Alloy. <i>Materials Research Letters</i> , 2016 , 4, 174-179.	4	205
42	Microstructure and texture of heavily cold-rolled and annealed fcc equiatomic medium to high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 109-119	5.7	62
41	Effect of heavy cryo-rolling on the evolution of microstructure and texture during annealing of equiatomic CoCrFeMnNi high entropy alloy. <i>Intermetallics</i> , 2016 , 69, 1-9	3.5	82
40	Microstructure, Texture, and Tensile Properties of a Severely Warm-Rolled and Annealed Duplex Stainless Steel. <i>Steel Research International</i> , 2016 , 87, 472-483	1.6	14
39	Strain rate dependent microstructural evolution during hot deformation of a hot isostatically processed nickel base superalloy. <i>Journal of Alloys and Compounds</i> , 2016 , 681, 28-42	5.7	89
38	Tailoring nanostructures and mechanical properties of AlCoCrFeNi _{2.1} eutectic high entropy alloy using thermo-mechanical processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 675, 99-109	5.3	146
37	Constitutive modeling for predicting peak stress characteristics during hot deformation of hot isostatically processed nickel-base superalloy. <i>Journal of Materials Science</i> , 2015 , 50, 6444-6456	4.3	61
36	Nucleation behavior and formation of recrystallization texture in pre-recovery treated heavily cold and warm-rolled Al _{2.5} wt.%Mg alloy. <i>Materials Characterization</i> , 2015 , 106, 141-151	3.9	11
35	Analysis of microstructure and microtexture during grain growth in low stacking fault energy equiatomic CoCrFeMnNi high entropy and Ni ₃₀ wt.%Co alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 637, 267-276	5.7	54
34	The Effect of Strain Reversal during High Pressure Torsion on the Micro structure Evolution and Texture of Aluminum Alloys 2015 , 107-114		1
33	Effect of cold-rolling strain on the evolution of annealing texture of equiatomic CoCrFeMnNi high entropy alloy. <i>Materials Characterization</i> , 2015 , 109, 189-197	3.9	39
32	Effect of Prior Recovery Treatment on the Evolution of Cube Texture During Annealing of Severely Warm-Rolled Al-2.5 wt pctMg Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 4966-4977	2.3	7
31	Microtexture of constituent phases in a heavily warm- rolled and annealed duplex stainless steel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 82, 012046	0.4	1
30	Evolution of microstructure and texture during annealing of Al-2.5%Mg-0.2%Sc severely deformed by a combination of accumulative roll bonding (ARB) and conventional rolling. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 82, 012045	0.4	2
29	Effect of starting grain size on the evolution of microstructure and texture during thermo-mechanical processing of CoCrFeMnNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 82-96	5.7	55
28	Evolution of microstructure and crystallographic texture in severely cold rolled high entropy equiatomic CoCrFeMnNi alloy during annealing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 82, 012068	0.4	11
27	The Effect of Strain Reversal during High Pressure Torsion on the Microstructure Evolution and Texture of Aluminum Alloys 2015 , 107-114		

26	Effect of Change in Strain Path During Cold Rolling on the Evolution of Microstructure and Texture in Al and Al-2.5%Mg. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 458-468	1.6	15
25	Microstructure and texture evolution during annealing of equiatomic CoCrFeMnNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 544-552	5.7	321
24	Electron backscatter diffraction study of deformation and recrystallization textures of individual phases in a cross-rolled duplex steel. <i>Materials Characterization</i> , 2014 , 96, 263-272	3.9	21
23	Annealing textures of severely cold and warm-rolled Al2.5 wt.%Mg alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 615, 950-961	5.7	16
22	Evolution of Microstructure and Texture during Isothermal Annealing of a Heavily Warm-rolled Duplex Steel. <i>ISIJ International</i> , 2014 , 54, 2844-2853	1.7	17
21	Evolution of Microstructure and Texture during Severe Cold Rolling and Annealing of Al-2.5% Mg and Al-2.5%Mg-0.2%Sc Alloys 2014 , 397-404		
20	Microstructure and Texture of Al-2.5wt.%Mg Processed by Combining Accumulative Roll Bonding and Conventional Rolling. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 4453-4462	1.6	6
19	Evolution of Microstructure and Texture During Warm Rolling of a Duplex Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2180-2191	2.3	29
18	Texture Evolution During Cross Rolling and Annealing of High-Purity Nickel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2707-2716	2.3	25
17	The effect of starting grain size on the evolution of microstructure and texture in nickel during processing by cross-rolling. <i>Materials Characterization</i> , 2013 , 76, 21-27	3.9	34
16	Recrystallization Texture of Heavily Cold Rolled Polycrystalline Nickel Sheets with and without Strong Starting Cube Texture. <i>Materials Science Forum</i> , 2013 , 753, 293-296	0.4	1
15	Evolution of Microstructure and Texture During Cold Rolling and Annealing of a Highly Cube-Textured ($\{001\}$ (leftangle $\{100\}$ rightrightangle)) Polycrystalline Nickel Sheet. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 2442-2452	2.3	5
14	Development of highly cube textured nickel superconductor substrate tapes by Accumulative Roll Bonding (ARB). <i>International Journal of Materials Research</i> , 2011 , 102, 173-182	0.5	11
13	Effect of Initial Grain Size on the Evolution of $\{001\}\langle 100 \rangle$ Texture in Severely Deformed and Annealed High-Purity Nickel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 2769-2780	2.3	14
12	Evolution of Deformation and Recrystallization Textures in High-Purity Ni and the Ni-5 at. pct W Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 2856-2870 ⁶	2.3	6
11	Cold rolling and recrystallization textures of a Ni5 at.% W alloy. <i>Acta Materialia</i> , 2009 , 57, 2166-2179	8.4	67
10	Processing and Characterization of Ni Base Coated Superconductor Substrate Tapes With Layered Architecture. <i>IEEE Transactions on Applied Superconductivity</i> , 2008 , 18, 1704-1710	1.8	0
9	Texture and mechanical properties of cold deformed and annealed multilayer Ni base substrate tapes prepared by a powder metallurgy route. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 488, 84-91	5.3	9

8	Effect of processing variables on cube texture formation in powder metallurgically prepared Ni and NiW alloy tapes for use as substrates for coated conductor applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 459, 309-323	5.3	23
7	Effect of sintering temperature on grain boundary character distribution in pure nickel. <i>Scripta Materialia</i> , 2007 , 56, 13-16	5.6	30
6	Nickel base substrate tapes for coated superconductor applications. <i>Journal of Materials Science</i> , 2007 , 42, 1984-2001	4.3	29
5	Enhancement of cube texture in Ni by the addition of W or Mo. <i>Philosophical Magazine</i> , 2007 , 87, 2417-2426	4.6	7
4	Recrystallization textures of powder metallurgically prepared pure Ni, NiW and NiMo alloy tapes for use as substrates for coated superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2006 , 449, 116-121	1.3	11
3	Development of cube texture in pure Ni, NiW and NiMo alloys prepared by the powder metallurgy route. <i>Scripta Materialia</i> , 2005 , 53, 1477-1481	5.6	27
2	Development of Cube Texture in Cold-Rolled and Annealed Multilayer Tapes for Coated Superconductor Applications. <i>Ceramic Transactions</i> , 381-390	0.1	
1	Influences of Thermomechanical Processing by Severe Cold and Warm Rolling on the Microstructure, Texture, and Mechanical Properties of an Equiatomic CoCrNi Medium-Entropy Alloy. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	3