Beitallah Eghbali

List of Publications by Year
in descending order

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64 papers	1,690 citations	257357 24 h-index	315616 38 g-index
65 all docs	65 docs citations	65 times ranked	1318 citing authors

#	Article	IF	Citations
1	Intermetallic growth behavior during post deformation annealing in multilayer Ti/Al/Nb composite interfaces. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 1608-1617.	2.4	3
2	Study on the microstructural and texture evolution of Hot Rolled Al7075/ graphene/ carbon nanotubes reinforced composites. Materials Chemistry and Physics, 2021, 257, 123766.	2.0	20
3	Synthesis and Characterization of Aa2024-Sio2 Nanocomposites Through the Vortex Method. International Journal of Metalcasting, 2021, 15, 1427-1440.	1.5	12
4	Microstructural evolution and strengthening mechanisms in Al7075/ graphene nano-plates/ carbon nano-tubes composite processed through accumulative roll bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 807, 140877.	2.6	27
5	Processing and characterization of the microstructure and mechanical properties of Al6061-TiB2 composite. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1080-1089.	2.4	10
6	Strain hardening behavior, strain rate sensitivity and hot deformation maps of AISI 321 austenitic stainless steel. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1799-1810.	2.4	6
7	Corrosion Behavior of Stir Cast Al6061-B4C/TiB2 Composites Processed by Post-Accumulative Roll Bonding. Journal of Materials Engineering and Performance, 2021, 30, 7609-7621.	1.2	4
8	Fabrication and characterization of GNPs and CNTs reinforced Al7075 matrix composites through the stir casting process. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1204-1214.	2.4	12
9	Fabrication of AA2024â^'TiO2 nanocomposites through stir casting process. Transactions of Nonferrous Metals Society of China, 2020, 30, 2891-2903.	1.7	17
10	Microstructure and Mechanical Properties of 1050 Aluminum after the Combined Processes of Constrained Groove Pressing and Cold Rolling. Physics of Metals and Metallography, 2020, 121, 72-77.	0.3	6
11	The role of accumulative roll bonding after stir casting process to fabricate high-strength and nanostructured AA2024-(SiO2+TiO2) hybrid nanocomposite. Journal of Alloys and Compounds, 2020, 845, 156281.	2.8	11
12	Modeling the flow behavior of AISI 321 austenitic stainless steel using a simple combined phenomenological method. Mechanics of Materials, 2019, 137, 103108.	1.7	3
13	Characterization of Microstructure and Mechanical Properties of Multilayer Al/Cu/Mg/Ni Composite Produced through Accumulative Roll Bonding. Physics of Metals and Metallography, 2019, 120, 796-805.	0.3	6
14	Prediction of Post-deformation Recrystallization Kinetics in AISI 321 Austenitic Stainless Steel Using Double-Stage Hot Compression. Journal of Materials Engineering and Performance, 2019, 28, 3567-3575.	1.2	7
15	Microstructure and Kinetics of Intermetallic Phase Formation during Solid State Diffusion Bonding in Bimetal Ti/Al. Physics of Metals and Metallography, 2019, 120, 260-268.	0.3	12
16	Synthesis of AA2024-(SiO2np+TiO2np) hybrid nanocomposite via stir casting process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 756, 484-491.	2.6	45
17	Effect of Processing Parameters on Microstructure and Mechanical Properties of Al6061/B4C Metal Matrix Composite Fabricated by Using Stir Casting, Post-Accumulative Roll Bonding and Aging Treatment. Transactions of the Indian Institute of Metals, 2019, 72, 545-558.	0.7	2
18	Solid state diffusion bonding characteristics at the interfaces of Ti and Al layers. Journal of Alloys and Compounds, 2019, 773, 50-58.	2.8	69

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19	Influence of annealing on the microstructure and mechanical properties of Ti/Al and Ti/Al/Nb laminated composites. Materials Chemistry and Physics, 2018, 213, 313-323.	2.0	23
20	Study on the reaction mechanism and intermetallic compound formation in tri-metal Ti/Al/Nb composite. Journal of Alloys and Compounds, 2018, 741, 1030-1039.	2.8	11
21	A Ductile Damage Criterion for AISI 321 Austenitic Stainless Steel at Different Temperatures and Strain Rates. Arabian Journal for Science and Engineering, 2018, 43, 4855-4861.	1.7	4
22	Analysis of the formation conditions and characteristics of interphase and random vanadium precipitation in a low-carbon steel during isothermal heat treatment. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 339-349.	2.4	11
23	Microstructure and mechanical properties of SiC-particle-strengthening tri-metal Al/Cu/Ni composite produced by accumulative roll bonding process. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 357-364.	2.4	36
24	Microstructural characterization and mechanical properties of TiB2 reinforced Al6061 matrix composites produced using stir casting process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 710, 172-180.	2.6	176
25	Effect of post deformation annealing on the microstructure and mechanical properties of cold rolled AISI 321 austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 736, 364-374.	2.6	29
26	Influence of Nb and Cu Elements on the Intermetallic Particles Morphology in Ti/Al Multilayer Composite Processed Through Hot Pressing and Rolling. Transactions of the Indian Institute of Metals, 2018, 71, 2269-2274.	0.7	4
27	Characterization of the hot deformation microstructure of AISI 321 austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 730, 380-390.	2.6	49
28	Kinetics and critical conditions for initiation of dynamic recrystallization during hot compression deformation of AISI 321 austenitic stainless steel. Metals and Materials International, 2017, 23, 964-973.	1.8	26
29	Evolution of high strength and ductile ultrafine grained dual phase superferrite low carbon V-Nb-Mo steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 705, 32-41.	2.6	10
30	Microstructure and mechanical properties of laminated Alâ€“Cuâ€“Mg composite fabricated by accumulative roll bonding. Bulletin of Materials Science, 2017, 40, 1481-1488.	0.8	15
31	Microstructure, hardness homogeneity, and tensile properties of 1050 aluminum processed by constrained groove pressing. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	22
32	Evaluation of the Kinetics of Dynamic Recovery in AISI 321 Austenitic Stainless Steel Using Hot Flow Curves. Transactions of the Indian Institute of Metals, 2017, 70, 1755-1761.	0.7	8
33	Interfacial layers evolution during annealing in Ti-Al multi-laminated composite processed using hot press and roll bonding. Metals and Materials International, 2016, 22, 915-923.	1.8	24
34	Electrochemical behavior of equal channel angular pressed titanium for biomedical application. AIP Conference Proceedings, 2015, , .	0.3	15
35	Microstructure and mechanical properties of Tri-metal Al/Ti/Mg laminated composite processed by accumulative roll bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 135-142.	2.6	89
36	Ultra-fine grained bulk CP-Ti processed by multi-pass ECAP at warm deformation region. Materials Chemistry and Physics, 2014, 143, 1032-1038.	2.0	59

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37	Effect of two-step severe plastic deformation on the microstructure and mechanical properties of commercial purity titanium. Metals and Materials International, 2014, 20, 343-350.	1.8	28
38	Enhanced grain refinement of cast aluminum alloy by thermal and mechanical treatment of Al-5Ti-B master alloy. Transactions of Nonferrous Metals Society of China, 2013, 23, 1563-1569.	1.7	27
39	Warm Deformation of Low Carbon Steel Using Forward Extrusion-Equal Channel Angular Pressing Technique. Journal of Iron and Steel Research International, 2013, 20, 68-71.	1.4	28
40	Stored energy and recrystallization kinetics of ultrafine grained titanium processed by severe plastic deformation. Physica B: Condensed Matter, 2013, 417, 33-38.	1.3	35
41	Finite element simulation of cross equal channel angular pressing. Computational Materials Science, 2013, 74, 124-128.	1.4	14
42	Study on the microstructure and mechanical properties of multilayer Cu/Ni composite processed by accumulative roll bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 559, 759-764.	2.6	91
43	Effect of Hot Torsion Parameters on Development of Ultrafine Ferrite Grains in Microalloyed Steel. Journal of Iron and Steel Research International, 2012, 19, 47-52.	1.4	4
44	Processing of Al/304 stainless steel composite by roll bonding. Materials Science and Technology, 2012, 28, 1414-1419.	0.8	8
45	Grain Refinement in a Low Carbon Steel Through Multidirectional Forging. Journal of Iron and Steel Research International, 2012, 19, 74-78.	1.4	27
46	Pressure induced martensite transformation in plain carbon steel. Materials Science and Technology, 2011, 27, 1599-1601.	0.8	1
47	Effect of integrated extrusionâ€“equal channel angular pressing temperature on microstructural characteristics of low carbon steel. Materials Science and Technology, 2011, 27, 1802-1808.	0.8	7
48	Characterization of Austenite Dynamic Recrystallization under Different Z Parameters in a Microalloyed Steel. Journal of Materials Science and Technology, 2011, 27, 359-363.	5.6	50
49	Warm Deformation Microstructure of a Plain Carbon Steel. Journal of Iron and Steel Research International, 2011, 18, 41-46.	1.4	7
50	Dynamic Strain Induced Transformation of Austenite to Ferrite during High Temperature Extrusion of Low Carbon Steel. Materials Transactions, 2011, 52, 8-11.	0.4	10
51	Study on the ferrite grain refinement during intercritical deformation of a microalloyed steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3407-3410.	2.6	37
52	Effect of strain rate on the microstructural development through continuous dynamic recrystallization in a microalloyed steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3402-3406.	2.6	55
53	Determination of critical conditions for dynamic recrystallization of a microalloyed steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4320-4325.	2.6	92
54	Production of Bulk Ultrafine Grained Steel through Severe Plastic Deformation. Materials Science Forum, 2010, 667-669, 583-588.	0.3	0

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55	Microstructural development in a low carbon Ti-microalloyed steel during deformation within the ferrite region. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 480, 84-88.	2.6	6
56	Microstructural characterization of a warm-deformed microalloyed steel. Materials Characterization, 2008, 59, 473-478.	1.9	5
57	Dynamic softening of ferrite during large strain warm deformation of a plain-carbon steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 462, 259-263.	2.6	11
58	Mechanism of ferrite grain refinement during warm deformation of a low carbon Nb-microalloyed steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 457, 219-225.	2.6	24
59	EBSD study on the formation of fine ferrite grains in plain carbon steel during warm deformation. Materials Letters, 2007, 61, 4006-4010.	1.3	21
60	Characterization on ferrite microstructure evolution during large strain warm torsion testing of plain low carbon steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 435-436, 499-503.	2.6	27
61	Influence of deformation temperature on the ferrite grain refinement in a low carbon Nbâ€“Ti microalloyed steel. Journal of Materials Processing Technology, 2006, 180, 44-48.	3.1	48
62	Strain-induced transformation in a low carbon microalloyed steel during hot compression testing. Scripta Materialia, 2006, 54, 1205-1209.	2.6	38
63	The influence of thermomechanical parameters in ferrite grain refinement in a low carbon Nb-microalloyed steel. Scripta Materialia, 2005, 53, 41-45.	2.6	32
64	The influence of hot forging conditions on the microstructure and mechanical properties of two microalloyed steels. Journal of Materials Processing Technology, 2001, 113, 594-598.	3.1	74