

Rajesh Kisni Khatirkar

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/680204/publications.pdf>

Version: 2024-02-01

63
papers

1,501
citations

331538

21
h-index

345118

36
g-index

63
all docs

63
docs citations

63
times ranked

1129
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of microstructure and texture evolution during plastic deformation and heat treatment of β -Ti alloys. Journal of Alloys and Compounds, 2022, 899, 163242.	2.8	60
2	Unidirectional cold rolling of Fe-21Cr-5Mn-1.5Ni alloy – Microstructure, texture and magnetic properties. Journal of Magnetism and Magnetic Materials, 2022, 549, 169040.	1.0	2
3	An investigation on the influence of cutting speed and thermal softening in micro-cutting of single crystal. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2022, 44, 1.	0.8	2
4	Microstructure evolution and corrosion behaviour of a high Mo containing β -Ti titanium alloy for biomedical applications. Journal of Alloys and Compounds, 2022, 912, 165240.	2.8	12
5	Texture development during multi-step cross rolling of a β -Ti titanium alloy: Experiments and simulations. Journal of Alloys and Compounds, 2021, 850, 156824.	2.8	21
6	Effect of heating temperature and cooling rate on the microstructure and mechanical properties of a Mo-rich two phase β -Ti titanium alloy. Journal of Materials Research, 2021, 36, 751-763.	1.2	5
7	Multistep Cross Rolling of UNS S32101 Steel: Microstructure, Texture, and Magnetic Properties. Journal of Materials Engineering and Performance, 2021, 30, 2916-2929.	1.2	15
8	Evolution of microstructure and texture during homogenization in a strip cast AA8011 aluminum alloy. Intermetallics, 2021, 130, 107064.	1.8	4
9	Evolution of Microstructure and Texture in UNS S32750 Super Duplex Stainless Steel Weldments. Transactions of the Indian Institute of Metals, 2021, 74, 2267-2283.	0.7	6
10	Strain rate sensitivity behaviour of Fe-21Cr-1.5Ni-5Mn alloy and its constitutive modelling. Materials Chemistry and Physics, 2021, 271, 124948.	2.0	10
11	Effect of isothermal aging at 750 $\text{ }^{\circ}\text{C}$ on microstructure and mechanical properties of UNS S32101 lean duplex stainless steel. Materials Today Communications, 2021, 29, 102753.	0.9	5
12	Cold compression behavior on the evolution of microstructure and texture in Beta C titanium alloy. Journal of Alloys and Compounds, 2021, 887, 161400.	2.8	4
13	Texture Development During Cold Rolling of a β -Ti Alloy: Experiments and Simulations. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1031-1043.	1.1	11
14	Cold rolling of an interstitial free (IF) steel – Experiments and simulations. Mechanics of Materials, 2020, 148, 103420.	1.7	13
15	Effect of Cooling Rate on the Precipitation Behavior of a Fe-Cr-Ni Alloy. Transactions of the Indian Institute of Metals, 2020, 73, 1961-1973.	0.7	4
16	Microstructure and texture development in AA3003 aluminium alloy. Materials Today Communications, 2020, 24, 100965.	0.9	9
17	Recrystallization behavior of a cold rolled Ti-15V-3Sn-3Al alloy. Journal of Materials Research, 2019, 34, 3082-3092.	1.2	22
18	Microstructure and texture development in Ti-15V-3Cr-3Sn-3Al alloy – Possible role of strain path. Materials Characterization, 2019, 156, 109884.	1.9	30

#	ARTICLE	IF	CITATIONS
19	Effect of TiB ₂ addition on the microstructure and wear resistance of Ti-6Al-4V alloy fabricated through direct metal laser sintering (DMLS). <i>Journal of Alloys and Compounds</i> , 2019, 777, 165-173.	2.8	69
20	Effect of Heat Input on Microstructure and Corrosion Behavior of Duplex Stainless Steel Shielded Metal Arc Welds. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 1595-1606.	0.7	27
21	Investigations on the effect of heating temperature and cooling rate on evolution of microstructure in an $\alpha + \beta$ titanium alloy. <i>Journal of Materials Research</i> , 2018, 33, 946-957.	1.2	25
22	Texture development during cross rolling of a dual-phase Fe-Cr-Ni alloy: experiments and simulations. <i>Philosophical Magazine Letters</i> , 2018, 98, 17-26.	0.5	2
23	Microstructure and texture development during deformation and recrystallisation in strip cast AA8011 aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2018, 742, 369-382.	2.8	40
24	Friction and abrasive wear behaviour of Al ₂ O ₃ -13TiO ₂ and Al ₂ O ₃ -13TiO ₂ +Ni Graphite coatings. <i>Tribology International</i> , 2018, 121, 353-372.	3.0	63
25	Effect of friction stir welding process parameters on Mg-AZ31B/Al-AA6061 joints. <i>Materials and Manufacturing Processes</i> , 2018, 33, 308-314.	2.7	64
26	Gas Tungsten Arc Welding of 316L Austenitic Stainless Steel with UNS S32205 Duplex Stainless Steel. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 361-372.	0.7	16
27	Strain Rate Sensitivity Behaviour of a Chrome-Nickel Austenitic-Ferritic Stainless Steel and its Constitutive Modelling. <i>ISIJ International</i> , 2018, 58, 1840-1849.	0.6	14
28	Deciphering the Possible Role of Strain Path on the Evolution of Microstructure, Texture, and Magnetic Properties in a Fe-Cr-Ni Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 3402-3418.	1.1	13
29	Shielded metal arc welding of UNS S32750 steel: microstructure, mechanical properties and corrosion behaviour. <i>Materials Research Express</i> , 2018, 5, 106506.	0.8	16
30	Microstructure, Mechanical and Intergranular Corrosion Behavior of Dissimilar DSS 2205 and ASS 316L Shielded Metal Arc Welds. <i>Transactions of the Indian Institute of Metals</i> , 2017, 70, 225-237.	0.7	50
31	Texture development during cold rolling of Fe-Cr-Ni alloy-experiments and simulations. <i>Philosophical Magazine</i> , 2017, 97, 1939-1962.	0.7	15
32	Microstructure and Texture Development during Cold Rolling in UNS S32205 and UNS S32760 Duplex Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 2349-2362.	1.1	24
33	Tribological behaviour of HVOF sprayed WC-12Co, WC-10Co-4Cr and Cr ₃ C ₂ -25NiCr coatings. <i>Tribology International</i> , 2017, 105, 55-68.	3.0	125
34	A Comparative Study on the Effect of Electrode on Microstructure and Mechanical Properties of Dissimilar Welds of 2205 Austeno-Ferritic and 316L Austenitic Stainless Steel. <i>Materials Transactions</i> , 2016, 57, 494-500.	0.4	34
35	Effect of austenitic fillers on microstructural and mechanical properties of ultra-low nickel austenitic stainless steel. <i>Science and Technology of Welding and Joining</i> , 2016, 21, 331-337.	1.5	28
36	Structural developments in un-stabilized ultra low carbon steel during warm deformation and annealing. <i>Materials Chemistry and Physics</i> , 2016, 183, 339-348.	2.0	13

#	ARTICLE	IF	CITATIONS
37	A new method for automated reconstruction of pre-transformation microstructures. Philosophical Magazine Letters, 2016, 96, 175-182.	0.5	2
38	Effect of composition and microstructure on slurry abrasion response of hardfaced martensitic stainless steel. Tribology - Materials, Surfaces and Interfaces, 2016, 10, 45-52.	0.6	3
39	Development of Cube Recrystallization Texture in Strip Cast AA3004 Aluminium Alloy. Transactions of the Indian Institute of Metals, 2016, 69, 1833-1841.	0.7	7
40	Microstructure evolution and abrasive wear behavior of D2 steel. Wear, 2015, 328-329, 206-216.	1.5	69
41	Microstructure Evolution and Abrasive Wear Behavior of Ti-6Al-4V Alloy. Journal of Materials Engineering and Performance, 2015, 24, 3969-3981.	1.2	19
42	Welding Behaviour of Low Nickel Chrome-Manganese Stainless Steel. ISIJ International, 2014, 54, 1361-1367.	0.6	44
43	Assessment of Inter-granular Corrosion Susceptibility of 304L Stainless Steel Using Non-destructive Electrochemical Techniques. ISIJ International, 2014, 54, 1898-1905.	0.6	4
44	Effect of heat input on the microstructure, residual stresses and corrosion resistance of 304L austenitic stainless steel weldments. Materials Characterization, 2014, 93, 10-23.	1.9	108
45	Abrasive Wear Behaviour of Heat Treated En31 Steel. ISIJ International, 2013, 53, 1471-1478.	0.6	16
46	Effect of Mode of Rolling on Recrystallization Kinetics and Microstructure Evolution in Interstitial Free High Strength Steel Sheet. ISIJ International, 2013, 53, 356-364.	0.6	10
47	Structural and Wear Characterization of Heat Treated En24 Steel. ISIJ International, 2012, 52, 1370-1376.	0.6	16
48	Effect of solution annealing temperature on precipitation in 2205 duplex stainless steel. Materials Characterization, 2012, 74, 55-63.	1.9	70
49	ND//<111> Recrystallization in Interstitial Free Steel: The Defining Role of Growth Inhibition. ISIJ International, 2012, 52, 894-901.	0.6	17
50	Orientation Dependent Recovery in Interstitial Free Steel. ISIJ International, 2012, 52, 884-893.	0.6	15
51	Strain Localizations in Ultra Low Carbon Steel: Exploring the Role of Dislocations. ISIJ International, 2011, 51, 849-856.	0.6	24
52	Comparison of recrystallization textures in interstitial free and interstitial free high strength steels. Materials Chemistry and Physics, 2011, 127, 128-136.	2.0	17
53	Development of recrystallization textures in 0.08%C steel. Transactions of the Indian Institute of Metals, 2010, 63, 55-62.	0.7	6
54	Structural changes in iron powder during ball milling. Materials Chemistry and Physics, 2010, 123, 247-253.	2.0	40

#	ARTICLE	IF	CITATIONS
55	Effect of cooling rate on transformation texture and variant selection during β to α transformation in Ti-5Ta-1.8Nb alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 549-558.	2.6	56
56	Controlled Warm Working: Possible Tool for Optimizing Stored Energy Advantage in Deformed γ -fiber (ND//&saquo;111&saquo;). ISIJ International, 2009, 49, 78-85.	0.6	16
57	Study of texture and microtexture during β to α transformation in a Ti-5Ta-1.8Nb alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 485, 581-588.	2.6	8
58	High perpendicular anisotropy in copper ferrite thin films. Journal of Applied Physics, 2008, 103, 013903.	1.1	7
59	Strontium barium niobate-relating structural developments and dielectric constant. Journal of the European Ceramic Society, 2007, 27, 2255-2263.	2.8	11
60	Low silicon non-grain-oriented electrical steel: Linking magnetic properties with metallurgical factors. Journal of Magnetism and Magnetic Materials, 2007, 313, 21-28.	1.0	39
61	Strain Localizations in Ultra Low Carbon Steel. Materials Science Forum, 0, 702-703, 782-785.	0.3	2
62	Scaling Laws of Wear by Slurry Abrasion of Mild Steel. Applied Mechanics and Materials, 0, 446-447, 126-130.	0.2	1
63	Role of Texture and Microstructural Developments in the Forming Limit Diagrams of Family of Interstitial Free Steels. Journal of Materials Engineering and Performance, 0, , 1.	1.2	1