Puspendu Sahu

List of Publications by Year
in descending order

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30	802	516561 16	501076 28
papers	citations	h-index	g-index

30	30	30	969
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vibration mitigation by the reversible fcc/hcp martensitic transformation during cyclic tensionâ€“compression loading of an Feâ€“Mnâ€“Si-based shape memory alloy. Scripta Materialia, 2006, 54, 1885-1890.	2.6	91
2	An effective stacking fault energy viewpoint on the formation of extended defects and their contribution to strain hardening in a Feâ€“Mnâ€“Siâ€“Al twinning-induced plasticity steel. Acta Materialia, 2015, 86, 69-79.	3.8	87
3	Microstructure characterization of polymorphic transformed ball-milled anatase TiO2 by Rietveld method. Materials Chemistry and Physics, 2003, 77, 153-164.	2.0	67
4	Shape- and field-dependent Morin transitions in structured Î±-Fe2O3. Journal of Magnetism and Magnetic Materials, 2009, 321, 2925-2931.	1.0	62
5	Microstructure characterization of mechanosynthesized nanocrystalline NiFe2O4 by Rietveld's analysis. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 39, 175-184.	1.3	55
6	Enhancement of mechanical properties of a TRIP-aided austenitic stainless steel by controlled reversion annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 154-159.	2.6	49
7	X-ray diffraction studies of the decomposition and microstructural characterization of cold-worked powders of Cuâ€“15Niâ€“Sn alloys by Rietveld analysis. Journal of Alloys and Compounds, 2004, 377, 103-116.	2.8	40
8	Microstructural characterization of stress-induced martensites evolved at low temperature in deformed powders of Feâ€“Mnâ€“C alloys by the Rietveld method. Journal of Alloys and Compounds, 2002, 346, 158-169.	2.8	38
9	Indentation property and corrosion resistance of electroless nickelâ€“phosphorus coatings deposited on austenitic high-Mn TWIP steel. Applied Surface Science, 2015, 356, 1-8.	3.1	34
10	Microstructural characterization of Feâ€“Mnâ€“C martensites athermally transformed at low temperature by Rietveld method. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 333, 10-23.	2.6	33
11	Stability of austenite and quasi-adiabatic heating during high-strain-rate deformation of twinning-induced plasticity steels. Scripta Materialia, 2010, 62, 5-8.	2.6	28
12	Simultaneous twinning nucleation mechanisms in an Feâ€“Mnâ€“Siâ€“Al twinning induced plasticity steel. Acta Materialia, 2017, 132, 264-275.	3.8	28
13	Lattice imperfections in intermetallic Tiâ€“Al alloys: an X-ray diffraction study of the microstructure by the Rietveld method. Intermetallics, 2006, 14, 180-188.	1.8	21
14	Structure and microstructure evolution during martensitic transformation in wrought Feâ€“26Mnâ€“0.14C austenitic steel: an effect of cooling rate. Journal of Applied Crystallography, 2007, 40, 354-361.	1.9	19
15	Microstructural characterization of the evoluted phases of ball-milled Î±-Fe2O3 powder in air and oxygen atmosphere by Rietveld analysis. Materials Chemistry and Physics, 2003, 82, 864-876.	2.0	18
16	Bainite and stress-induced martensite in an AISI type 300 steel: an X-ray diffraction study of the microstructure by the Rietveld method. Journal of Applied Crystallography, 2005, 38, 112-120.	1.9	16
17	Structural and microstructural evolution due to increasing Co substitution in Ni1â^'xCoxFe2O4: An X-ray diffraction study using the Rietveld method. Materials Chemistry and Physics, 2011, 128, 365-370.	2.0	16
18	Effects of Carbon Content and Cooling Path on the Microstructure and Properties of TRIP-aided Ultra-High Strength Steels. ISIJ International, 2013, 53, 337-346.	0.6	15

#	Article	IF	Citations
19	On the mechanism of cross-slip induced dislocation substructure formation in an high-Mn steel. Materialia, 2021, 15, 101042.	1.3	12
20	Phase changing stearate ions as active fillers in multifunctional carboxylated acrylonitrileâ€“butadiene composite: Exploring the role of zinc stearate. Journal of Applied Polymer Science, 2020, 137, 48271.	1.3	11
21	Internal friction study on fcc/hcp martensitic transformations in thermomechanically treated Feâ€“28Mnâ€“6Siâ€“5Crâ€“0.53Nbâ€“0.06C (mass%) alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 442, 404-408.	2.6	10
22	Micro-structure, optical properties and ac conductivity of rare earth double perovskite oxides: Sr2ErNbO6. Physica B: Condensed Matter, 2013, 422, 78-82.	1.3	10
23	X-ray line profile analysis of the deformation microstructure in a medium-grained Fe-Mn-Al-C austenitic steel. Materials Characterization, 2021, 172, 110833.	1.9	9
24	Electron microscopy study on grain boundary characterizations of Feâ€“Coâ€“V alloy during annealing. Vacuum, 2015, 114, 1-5.	1.6	8
25	Correlation of Microstructure and Texture in a Two-Phase High-Mn Twinning-Induced Plasticity Steel During Cold Rolling. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4842-4856.	1.1	8
26	The effect of the order-disorder transition on the electrical, magnetic and mechanical properties of Vicalloy I. Intermetallics, 2017, 81, 73-79.	1.8	6
27	Dislocation substructures in tensile deformed Feâ€“Mnâ€“Alâ€“C steel. Materials Letters, 2021, 282, 128691.	1.3	4
28	Studies on Martensite Transformation in a Metastable Austenitic Cr-Mn Stainless Steel. Materials Science Forum, 2013, 762, 424-430.	0.3	3
29	Newer insights into the discrimination of pole mechanisms of twinning in a face-centered cubic high-Mn steel. Materialia, 2022, 21, 101349.	1.3	3
30	A quantitative assessment on the contribution of various dislocation substructures to flow stress in a fine-grain high-Mn steel. Materials Letters, 2021, 300, 130216.	1.3	1