

Indradev S Samajdar

List of Publications by Year in descending order

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93792

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#	ARTICLE	IF	CITATIONS
1	Dynamic Recrystallization and Phase-Specific Corrosion Performance in a Super Duplex Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 1478-1492.	1.2	3
2	Electropulsing-induced plastic deformation in an interstitial free steel. <i>Materials Science and Technology</i> , 2022, 38, 90-104.	0.8	0
3	The origin of graphite morphology in cast iron. <i>Acta Materialia</i> , 2022, 226, 117660.	3.8	14
4	Oxidation in Iron-Copper and Iron-Phosphorous Binary Alloys: Relating Alloying and Metal-Oxide Crystallography with Oxidation Resistance. <i>Oxidation of Metals</i> , 2022, 97, 417-440.	1.0	4
5	X-ray Diffraction for the Determination of Residual Stress of Crystalline Material: An Overview. <i>Transactions of the Indian Institute of Metals</i> , 2022, 75, 983-995.	0.7	13
6	Defining the Role of Hot Band Annealing in High-Permeability Grain-Oriented (GO) Electrical Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 1873-1888.	1.1	1
7	The Defining Role of Micro-fissures on the Mechanical Behavior of Laser-Welded Fully Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 2116.	1.1	2
8	Orientation dependent interface morphology and oxide stability in a commercial niobium alloy: Explaining experimental results with density functional theory. <i>Acta Materialia</i> , 2022, 229, 117793.	3.8	7
9	Mechanistic Origin of Orientation-Dependent Substructure Evolution in Aluminum and Aluminum-Magnesium Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 2689-2707.	1.1	4
10	Study of grain boundary orientation gradients through combined experiments and strain gradient crystal plasticity modeling. <i>International Journal of Plasticity</i> , 2022, 156, 103360.	4.1	23
11	The role of the metal-oxide interface's terminating layer on the selective cold cracking of a commercial Niobium-Hafnium-Titanium (C-103) alloy. <i>Journal of Alloys and Compounds</i> , 2021, 856, 157427.	2.8	3
12	Recovery of cold-worked Al _{0.3} CoCrFeNi complex concentrated alloy through twinning assisted B2 precipitation. <i>Acta Materialia</i> , 2021, 202, 448-462.	3.8	47
13	An Integrated Multi-scale Model for Graphite Growth Mechanism in Industrial Cast Iron. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 633-651.	1.0	1
14	The Role of Phase Hardness Differential on the Non-uniform Elongation of a Ferrite-Martensite Dual Phase Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 4018-4032.	1.1	10
15	The Defining Role of Plastic Deformation on Resistance to Aqueous Corrosion of Interstitial Free Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 4597-4608.	1.1	8
16	The oxidation behavior of iron-chromium alloys: The defining role of substrate chemistry on kinetics, microstructure and mechanical properties of the oxide scale. <i>Journal of Alloys and Compounds</i> , 2021, 871, 159583.	2.8	18
17	Slip band formation in low and high solute aluminum: a combined experimental and modeling study. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021, 29, 085016.	0.8	4
18	What causes Poole-Frenkel transport in VLS grown silicon nanowires?. <i>Materials Science in Semiconductor Processing</i> , 2020, 105, 104749.	1.9	2

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19	Orientation-dependent solid solution strengthening in zirconium: a nanoindentation study. <i>Journal of Materials Science</i> , 2020, 55, 4493-4503.	1.7	3
20	Sub-zero Temperature Dependence of Tensile Response of Friction Stir Welded Al-Cu-Li (AA2198) Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 1173-1182.	1.1	4
21	Microstructure and tensile response of friction stir welded Al-Cu-Li (AA2198-T8) alloy. <i>Materials Characterization</i> , 2020, 159, 110002.	1.9	24
22	Temperature-dependence of plasticity and fracture in an Al-Cu-Li alloy. <i>Philosophical Magazine</i> , 2020, 100, 2913-2937.	0.7	2
23	Origin of Goss (110) Grains in Hot-Worked Grain-Oriented Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5268-5284.	1.1	2
24	As-Built and Post-treated Microstructures of an Electron Beam Melting (EBM) Produced Nickel-Based Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 6546-6559.	1.1	17
25	Role of Recovery and Recrystallization on the Post Cold Work Corrosion Performance in a Super Duplex Stainless Steel. <i>Journal of the Electrochemical Society</i> , 2020, 167, 101501.	1.3	6
26	The role of crystallographic orientations on heterogeneous deformation in a zirconium alloy: A combined experimental and modeling study. <i>International Journal of Plasticity</i> , 2020, 133, 102785.	4.1	41
27	Oxidation behavior of interstitial free steel: The defining role of substrate crystallographic texture. <i>Acta Materialia</i> , 2020, 190, 43-57.	3.8	17
28	Solution Annealing of Super Duplex Stainless Steel: Correlating Corrosion Performance with Grain Size and Phase-Specific Chemistry. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 2480-2494.	1.1	7
29	Effect of Cu and Li Contents on the Serrated Flow Behavior of Al-Cu-Li Based Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 1457-1462.	1.1	6
30	The defining role of interface crystallography in corrosion of a two-phase pearlitic steel. <i>Philosophical Magazine</i> , 2020, 100, 1439-1453.	0.7	6
31	Imposed thermal gradients and resultant residual stresses: Physical and numerical simulations. <i>Materials Science and Technology</i> , 2020, 36, 1020-1036.	0.8	10
32	Relating Porosity With Ductility in a Commercial AA7075 Alloy: A Combined Experimental and Numerical Study. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2020, 142, .	0.8	3
33	Ductile-to-Brittle Transition in Low-Alloy Steel: A Combined Experimental and Numerical Investigation. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 4275-4288.	1.2	5
34	Effect of thermal aging on embrittlement of Mo-V pressure vessel steel. <i>Journal of Nuclear Materials</i> , 2019, 527, 151817.	1.3	9
35	Confirmation of Dynamically Recrystallized Grains in Hexagonal Zirconium through Local Internal Friction Measurements. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 5000-5014.	1.1	9
36	Microstructural Origin of Residual Stress Relief in Aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 5038-5055.	1.1	25

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37	Relating General and Phase Specific Corrosion in a Super Duplex Stainless Steel with Phase Specific Microstructure Evolution. <i>Corrosion</i> , 2019, 75, 1315-1326.	0.5	9
38	The Anisotropy of Serrated Flow Behavior of Al-Cu-Li (AA2198) Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 5066-5078.	1.1	13
39	High-temperature flow behaviour of grain-oriented and non-grain-oriented electrical steel. <i>Materials Science and Technology</i> , 2019, 35, 1095-1106.	0.8	3
40	On the comparison of graded microstructures developed through High Reduction (per pass) Cold Rolling (HRCR) and Ultrasonic Nanocrystal Surface Modification (UNSM) in nickel-base Alloy 602CA. <i>Materials Characterization</i> , 2019, 153, 328-338.	1.9	15
41	Detection of embrittlement in low alloy steels due to thermal aging by small punch test. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 759, 181-194.	2.6	8
42	Observation of enhanced magnetic anisotropy in PLD YIG thin film on GGG (1×10^4) substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 483, 191-195.	1.0	9
43	A phenomenological hardening model for an aluminium-lithium alloy. <i>International Journal of Plasticity</i> , 2019, 118, 215-232.	4.1	18
44	High Thermoelectric Performance in $Mg_{2.0}(Si_{0.3}Sn_{0.7})$ by Enhanced Phonon Scattering. <i>ACS Applied Energy Materials</i> , 2019, 2, 2129-2137.	2.5	44
45	Composition Gradient and Particle Deformed Zone: An Emerging Correlation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 1250-1260.	1.1	9
46	Room temperature and 600°C erosion behaviour of various chromium carbide composite coatings. <i>Wear</i> , 2019, 422-423, 44-53.	1.5	10
47	Effect of cross-rolling on microstructure and texture evolution and tensile behavior of aluminium-copper-lithium (AA2195) alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 740-741, 252-261.	2.6	50
48	Exploring the origin of variant selection through martensite-austenite reconstruction. <i>Philosophical Magazine</i> , 2019, 99, 699-717.	0.7	15
49	Origin of through-thickness serrated tensile flow behavior in Al-Cu-Li (AA2195) alloy: Effect of microstructure and texture. <i>Materialia</i> , 2019, 5, 100180.	1.3	9
50	Oxidation kinetics in pearlite: The defining role of interface crystallography. <i>Scripta Materialia</i> , 2018, 152, 44-48.	2.6	11
51	Detection of intergranular embrittlement of reactor pressure vessel steel by electrochemical method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 725, 88-97.	2.6	7
52	Defining the Post-Machined Sub-surface in Austenitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 2281-2292.	1.1	8
53	Microstructural Engineering in Eutectoid Steel: A Technological Possibility?. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 1520-1535.	1.1	7
54	Understanding self ion damage in FCC Ni-Cr-Fe based alloy using X-ray diffraction techniques. <i>Journal of Nuclear Materials</i> , 2018, 501, 82-93.	1.3	2

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55	Optimization of hot workability and microstructure control in a 12Cr-10Ni precipitation hardenable stainless steel: An approach using processing maps. <i>Materials Characterization</i> , 2018, 141, 97-107.	1.9	31
56	Delamination of Pearlitic Steel Wires: The Defining Role of Prior-Drawing Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 2037-2047.	1.1	9
57	Microstructural Characterization of Thermal Damage on Silicon Wafers Sliced Using Wire-Electrical Discharge Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	1.3	17
58	Origin of low temperature toughness in a 12Cr-10Ni martensitic precipitation hardenable stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 709, 1-8.	2.6	16
59	Orientation-Dependent Developments in Misorientation and Residual Stress in Rolled Aluminum: The Defining Role of Dislocation Interactions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5946-5952.	1.1	9
60	Correlation between microstructure and electrical properties of A-site substituted YAlO ₃ ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2018, 231, 66-73.	1.7	1
61	Critical deposition height for sustainable restoration via laser additive manufacturing. <i>Scientific Reports</i> , 2018, 8, 14726.	1.6	18
62	Effect of Zener-Holloman Parameter on the Prior Austenite Grain size in a 12Cr-10Ni Precipitation-Hardenable Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 3559-3565.	1.2	1
63	Effect of Solution Treatment Temperature on Impact Toughness (Room Temperature and 77K) of a 12Cr-10Ni Martensitic Precipitation Hardenable Stainless Steel. <i>Metallography, Microstructure, and Analysis</i> , 2018, 7, 379-386.	0.5	1
64	Defining a relationship between pearlite morphology and ferrite crystallographic orientation. <i>Acta Materialia</i> , 2017, 129, 278-289.	3.8	44
65	Morphology-Dependent Hardness of Cr ₇ C ₃ -Ni-Rich Alloy Composite vs Orientation Independent Hardness of Cr ₇ C ₃ Primary Phase in a Laser Clad Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 1534-1539.	1.1	6
66	Effect of temperature and strain rate on hot deformation behavior and microstructure of Al-Cu-Li alloy. <i>Journal of Alloys and Compounds</i> , 2017, 723, 548-558.	2.8	62
67	Microstructural response of various chromium carbide based coatings to erosion and nano impact testing. <i>Wear</i> , 2017, 386-387, 72-79.	1.5	31
68	Through-Thickness Deformation Gradient in a Part-Pilgered Zirconium Tube: Experimental Measurements and Numerical Validation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 2844-2857.	1.1	10
69	Experimental characterization and finite element modeling of through thickness deformation gradient in a cold rolled zirconium sheet. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2017, 19, 176-190.	2.3	11
70	Defining the Role of Silicon Substrate Orientation on the Polycrystalline Diamond Film: A Novel Approach for Characterizing Faceted Microstructures. <i>Crystal Growth and Design</i> , 2017, 17, 5366-5376.	1.4	0
71	Experimental Characterization of Clad Microstructure and its Correlation with Residual Stresses. <i>Procedia Manufacturing</i> , 2017, 10, 804-818.	1.9	15
72	An investigation of electron beam welding of Nb-1Zr-0.1C alloy: Process parameters and microstructural analysis. <i>Journal of Manufacturing Processes</i> , 2017, 28, 326-335.	2.8	16

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73	Relating Residual Stress and Substructural Evolution During Tensile Deformation of an Aluminum-Manganese Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5317-5331.	1.1	20
74	Microstructures and Mechanical Properties of as-Drawn and Laboratory Annealed Pearlitic Steel Wires. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4583-4597.	1.1	19
75	Effect of Interplay Between Isotropic Gases on Microstructural Evolution of Single Crystal Diamond. Crystal Research and Technology, 2017, 52, 1700016.	0.6	1
76	Temperature dependence of work hardening in sparsely twinning zirconium. Acta Materialia, 2017, 123, 337-349.	3.8	24
77	Plane strain compression testing of Sanicro 28 by channel-die compression test: A direct microstructural observation. Materials Today: Proceedings, 2017, 4, 9888-9892.	0.9	5
78	Delamination/Rupture of Polycrystalline Diamond Film: Defining Role of Shear Anisotropy. Crystal Growth and Design, 2017, 17, 1514-1523.	1.4	7
79	Plastic deformation and corrosion in austenitic stainless steel: A novel approach through microtexture and infrared spectroscopy. Corrosion Science, 2016, 111, 404-413.	3.0	20
80	Forming limit curves in low-carbon steels: improved prediction by incorporating microstructural evolution. International Journal of Advanced Manufacturing Technology, 2016, 86, 1027-1036.	1.5	8
81	A miniature physical simulator for pilgering. Journal of Materials Processing Technology, 2016, 237, 126-138.	3.1	12
82	Burst Ductility of Zirconium Clads: The Defining Role of Residual Stress. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 3882-3896.	1.1	8
83	Study of grain structure evolution during annealing of a twin-roll-cast Mg alloy. Materials Characterization, 2016, 114, 157-165.	1.9	17
84	Microstructural Evolution During Multi-Pass Friction Stir Processing of a Magnesium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2201-2216.	1.1	13
85	Microstructural Origin of Friction Stir Processed Zone in a Magnesium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3333-3336.	1.1	6
86	High-purity Zirconium under Niobium ion implantation: possibility of a dynamic precipitation?. Philosophical Magazine, 2015, 95, 3727-3744.	0.7	8
87	Microstructure and phase evolution in laser clad chromium carbide-NiCrMoNb. Applied Surface Science, 2015, 357, 2391-2401.	3.1	25
88	Influence of non-covalent modification of multiwalled carbon nanotubes on the crystallization behaviour of binary blends of polypropylene and polyamide 6. Physical Chemistry Chemical Physics, 2015, 17, 4293-4310.	1.3	14
89	Texture Development and Plastic Deformation in a Pilgered Zircaloy-4 Tube. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1927-1947.	1.1	24
90	Near boundary gradient zone and sensitization control in austenitic stainless steel. Corrosion Science, 2015, 100, 544-555.	3.0	41

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91	Deformation Twinning in Zirconium: Direct Experimental Observations and Polycrystal Plasticity Predictions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 5058-5071.	1.1	17
92	Effect of Gallium ion damage on poly-crystalline Zirconium: Direct experimental observations and molecular dynamics simulations. Journal of Nuclear Materials, 2015, 467, 155-164.	1.3	5
93	Defining the stages of annealing in a moderately deformed commercial Zirconium alloy. Journal of Nuclear Materials, 2015, 466, 243-252.	1.3	13
94	Orientation-dependent plastic deformation in transformer steel: Experiments and dislocation dynamics simulations. Acta Materialia, 2015, 84, 256-264.	3.8	9
95	Improved prediction of strain distribution during mechanical and hydro-mechanical deep drawing processes using microstructure-based dynamic strain hardening and anisotropy. Journal of Strain Analysis for Engineering Design, 2015, 50, 51-60.	1.0	2
96	Effect of Pre-straining on the Shape Recovery of Fe-Mn-Si-Cr-Ni Shape Memory Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 639-655.	1.1	8
97	Photoluminescence study on irradiated yttria stabilized zirconia. Journal of Nuclear Materials, 2015, 456, 359-368.	1.3	10
98	Constrained tensile stretching of steel strips under different lubrication: predicting macroscopic strain distributions with microstructural inputs. International Journal of Material Forming, 2015, 8, 327-339.	0.9	4
99	Degradation of Magnetic Properties in Transformer Steel: Role of Prior Elastic Deformation. IEEE Transactions on Magnetics, 2014, 50, 1-12.	1.2	4
100	Microstructural studies on Alloy 693. Journal of Nuclear Materials, 2014, 453, 91-97.	1.3	10
101	Orientation sensitivity of focused ion beam damage in pure zirconium: direct experimental observations and molecular dynamics simulations. Philosophical Magazine, 2014, 94, 1601-1621.	0.7	8
102	Grain boundary energy and relative ion damage: experimental observation and molecular dynamics simulation. Philosophical Magazine Letters, 2014, 94, 601-608.	0.5	3
103	Fabrication of simulated plate fuel elements: Defining role of out-of-plane residual shear stress. Journal of Nuclear Materials, 2014, 445, 200-208.	1.3	2
104	Modeling of dynamic hysteresis for grain-oriented laminations using a viscosity-based modified dynamic Jiles-Atherton model. Physica B: Condensed Matter, 2014, 448, 349-353.	1.3	14
105	Fabrication of simulated plate fuel elements: Defining role of stress relief annealing. Journal of Nuclear Materials, 2014, 447, 150-159.	1.3	18
106	Effect of strain rate on twinning in a Zr alloy. Scripta Materialia, 2014, 74, 72-75.	2.6	42
107	Direct Experimental Observations on Concurrent Microstructure and Magnetic Property Developments in Non-Grain Oriented Electrical Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 3695-3698.	1.1	6
108	Quantifying the mesoscopic shear strains in plane strain compressed polycrystalline zirconium. Acta Materialia, 2014, 69, 265-274.	3.8	25

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109	Flow localization in an Al–2.5Mg alloy after severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 611, 114-122.	2.6	4
110	Microstructural Developments Through Marforming in a Ni-Ti-Fe Shape Memory Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 4310-4322.	1.1	3
111	Micromechanics of emergent patterns in plastic flows. <i>Scientific Reports</i> , 2013, 3, 2728.	1.6	15
112	Softening of Al during multi-axial forging in a channel die. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 560, 404-412.	2.6	89
113	Role of grain boundary nature and residual strain in controlling sensitisation of type 304 stainless steel. <i>Corrosion Science</i> , 2013, 66, 242-255.	3.0	28
114	On the role of residual strain in controlling sensitisation of twin-boundary engineered type 304 stainless steel. <i>Journal of Nuclear Materials</i> , 2013, 432, 243-251.	1.3	12
115	Development of Multiphase Microstructure with Bainite, Martensite, and Retained Austenite in a Co-Containing Steel Through Quenching and Partitioning (Q&P) Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 5653-5664.	1.1	37
116	Microstructure and compression behavior of chip consolidated magnesium. <i>Journal of Materials Research</i> , 2012, 27, 709-719.	1.2	5
117	Surface working of 304L stainless steel: Impact on microstructure, electrochemical behavior and SCC resistance. <i>Materials Characterization</i> , 2012, 72, 68-76.	1.9	76
118	Effect of prior cold-work on radiation-induced segregation in proton-irradiated austenitic stainless steel. <i>Corrosion Science</i> , 2012, 60, 153-164.	3.0	1
119	Electrochemical Evaluation of Radiation-Induced Segregation in Austenitic Stainless Steels with Oversize Solute Addition. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 2472-2479.	1.2	0
120	Magnetic Properties in Deformed Grain Oriented Electrical Steel: On the Role of Strain Hardening Exponent and Microstructural Developments. <i>ISIJ International</i> , 2012, 52, 2100-2108.	0.6	5
121	ND//<111> Recrystallization in Interstitial Free Steel: The Defining Role of Growth Inhibition. <i>ISIJ International</i> , 2012, 52, 894-901.	0.6	17
122	Development of Nb–1%Zr–0.1%C alloy as structural components for high temperature reactors. <i>Journal of Nuclear Materials</i> , 2012, 427, 350-358.	1.3	25
123	Defect profiling in organic semiconductor multilayers. <i>Organic Electronics</i> , 2012, 13, 1409-1419.	1.4	16
124	Origin of Microstructural Irreversibility in Ni-Ti Based Shape Memory Alloys during Thermal Cycling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 1277-1287.	1.1	8
125	Orientation Dependent Recovery in Interstitial Free Steel. <i>ISIJ International</i> , 2012, 52, 884-893.	0.6	15
126	Changes in Microstructure during High Strain Rate Superplastic Deformation of an Al-Zn-Mg-Cu-Zr Alloy Containing Sc. , 2012, , 819-824.		0

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127	Effect of residual strain on radiation induced segregation in SS 304. Corrosion Science, 2011, 53, 1465-1475.	3.0	7
128	Strain Localizations in Ultra Low Carbon Steel: Exploring the Role of Dislocations. ISIJ International, 2011, 51, 849-856.	0.6	24
129	Coarsening in polycrystalline material using quaternions. Journal of Physics Condensed Matter, 2011, 23, 072202.	0.7	2
130	Radiation-induced segregation in desensitized type 304 austenitic stainless steel. Journal of Nuclear Materials, 2011, 416, 335-344.	1.3	9
131	Development of grain structure during superplastic deformation of an Al-Zn-Mg-Cu-Zr alloy containing Sc. Scripta Materialia, 2011, 64, 386-389.	2.6	48
132	Microstructural and Textural Evolution in Heat Treated Zr-2.5% Nb Pressure Tube Material Subjected to Dilatometric Studies. Transactions of the Indian Institute of Metals, 2011, 64, 395-399.	0.7	3
133	Radiation-induced segregation in austenitic stainless steel type 304: Effect of high fraction of twin boundaries. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 7541-7551.	2.6	12
134	Strain Mode Dependence of Deformation Texture Developments: Microstructural Origin. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2113-2124.	1.1	38
135	Development of Crystallographic Texture and Grain Misorientation in CVD-Produced Single and Polycrystalline Diamond. Chemical Vapor Deposition, 2011, 17, 107-113.	1.4	6
136	Defining recrystallization in pilgered Zircaloy-4: From preferred nucleation to growth inhibition. Journal of Nuclear Materials, 2011, 412, 287-293.	1.3	22
137	Role of grain/phase boundary nature on the formation of hydrides in Zr-2.5%Nb alloy. Journal of Nuclear Materials, 2011, 414, 270-275.	1.3	10
138	Comparative study of methods of the determination of Kearns parameter in zirconium. Journal of Nuclear Materials, 2011, 414, 492-497.	1.3	11
139	The role of niobium carbide in radiation induced segregation behaviour of type 347 austenitic stainless steel. Journal of Nuclear Materials, 2011, 415, 123-131.	1.3	12
140	Microstructure and microtextural studies of friction stir welded aluminium alloy 5052. Materials & Design, 2011, 32, 1657-1666.	5.1	78
141	Microstructure Evolution and Mechanical Behaviour of Severe Plastically Deformed Cu. Materials Science Forum, 2011, 702-703, 93-96.	0.3	2
142	Plastic Deformation of Textured Zircaloy 2. Materials Science Forum, 2011, 702-703, 838-841.	0.3	1
143	Deformed microstructures of two-phase Zr-2.5Nb alloy: Effects of the second phase hardness. Journal of Nuclear Materials, 2010, 404, 222-230.	1.3	14
144	Grain fragmentation and twinning in deformed Zircaloy 2: Response to positron lifetime measurements. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1427-1435.	2.6	12

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145	The Avrami Kinetics of Dynamic Recrystallization in Cadmium. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2466-2470.	1.1	8
146	Automated reconstruction of pre-transformation microstructures in zirconium. Scripta Materialia, 2010, 62, 391-394.	2.6	20
147	Direct correlation of deformation microstructures and cube recrystallization nucleation in aluminium. Scripta Materialia, 2010, 62, 469-472.	2.6	30
148	Effect of cooling rate on transformation texture and variant selection during $\beta \rightarrow \alpha$ transformation in Ti-5Ta-1.8Nb alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 549-558.	2.6	56
149	Preparation of Mo-Ti-Zr-C alloy tube by P/M route. Nuclear Engineering and Design, 2010, 240, 975-979.	0.8	3
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