

Kallol Mondal

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.

148 papers	1,717 citations	20 h-index	34 g-index
150 ext. papers	2,154 ext. citations	3.2 avg, IF	5.38 L-index

#	Paper	IF	Citations
148	Corrosion behavior of bent plain reinforcing bars used in concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022 , 55, 1	3.4	0
147	Effect of addition of strong oxidizer and temperature on the cavitation erosion resistance of different microstructures made from a high carbon steel. <i>Wear</i> , 2022 , 494-495, 204245	3.5	0
146	Electron Probe Micro-Analyzer: An Equipment for Accurate and Precise Micro-Composition Analysis. <i>IITK Directions</i> , 2022 , 71-93	0.5	
145	Effect of strip entry temperature on the interfacial layer and corrosion behavior of galvanized steel. <i>Surface and Coatings Technology</i> , 2022 , 433, 128071	4.4	2
144	Cold work induced stability of retained austenite at elevated temperature in a medium carbon high silicon steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 832, 142455	5.3	2
143	Effect of prior copper-coating on the microstructural development and corrosion behavior of hot-dip galvanized Mn containing high strength steel sheet. <i>Surface and Coatings Technology</i> , 2022 , 437, 128347	4.4	0
142	Effect of various phase fractions of bainite, retained austenite, intercritical ferrite and pearlite on the wear behaviour of multiphase steels. <i>Wear</i> , 2022 , 204355	3.5	0
141	Harmonic structure, a promising microstructure design. <i>Materials Research Letters</i> , 2022 , 10, 440-471	7.4	2
140	Cushioning effect of austenite in silicon stainless steels (SiSS) leading to improved wear resistance. <i>Tribology International</i> , 2022 , 107678	4.9	0
139	Manifestation of Hall-Petch breakdown in nanocrystalline electrodeposited Ni-MoS ₂ coating and its structure dependent wear resistance behavior. <i>Surface and Coatings Technology</i> , 2021 , 410, 126950	4.4	2
138	Effect of Cold Rolling and Heat Treatment on Corrosion and Wear Behavior of Titanium Ti-25Nb-25Zr Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 4174-4182	1.6	1
137	Effect of Surface Roughness Induced by Milling Operation on the Corrosion Behavior of Magnesium Alloys. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 7354-7364	1.6	4
136	Effect of various phase fraction of bainite, intercritical ferrite, retained austenite and pearlite on the corrosion behavior of multiphase steels. <i>Corrosion Science</i> , 2021 , 178, 109043	6.8	9
135	Effect of pearlitic morphology with varying fineness on the cavitation erosion behavior of eutectoid rail steel. <i>Ultrasonics Sonochemistry</i> , 2021 , 71, 105399	8.9	6
134	Novel hybrid sacrificial anodes based on high phosphorus pig iron and Zn. <i>Corrosion Science</i> , 2021 , 189, 109616	6.8	2
133	Corrosion behaviour of plasma sprayed Fe based metallic glass (Fe ₇₃ Cr ₂ Si ₁₁ B ₁₁ C ₃ (at%)) coatings in 3.5% NaCl solution. <i>Journal of Non-Crystalline Solids</i> , 2021 , 567, 120913	3.9	10
132	On the novel approach of sacrificial cathodic protection of mild steel in simulated concrete pore solution and concrete mortar by high phosphorus pig iron anodes. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 582-608	5.5	6

131	Corrosion of Strained Plain Rebar in Chloride-Contaminated Mortar and Novel Approach to Estimate the Corrosion Amount from Rust Characterization. <i>Journal of Materials in Civil Engineering</i> , 2021 , 33, 04021283	3	2
130	Generation of free fatty acid during lockdown and its effect on the corrosion in rolling emulsion tank. <i>Engineering Failure Analysis</i> , 2021 , 129, 105685	3.2	0
129	Cavitation behavior of various microstructures made from a CMn eutectoid steel. <i>Wear</i> , 2021 , 486-487, 204056	3.5	1
128	Effect of Pre-induced Plastic Strains on the Corrosion Behavior of Reinforcing Bar in 3.5 pct NaCl Solution. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 605-626	2.3	2
127	Comparative Wear Behavior of Semicrystalline HVOF and Plasma Sprayed Phosphorous-Rich Pig Iron Coatings. <i>Journal of Thermal Spray Technology</i> , 2020 , 29, 2048-2064	2.5	1
126	Corrosion Behavior of Newly Developed High-Strength Bainitic Railway Wheel Steels. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 3443-3459	1.6	3
125	Effect of Precipitate Characteristics on the Corrosion Behavior of a AZ80 Magnesium Alloy. <i>Metals and Materials International</i> , 2020 , 27, 3282	2.4	10
124	Investigation of nano- and micro-scale structural evolution and resulting corrosion resistance in plasma sprayed Fe-based (Fe-Cr-B-C-P) amorphous coatings. <i>Surface and Coatings Technology</i> , 2020 , 397, 126058	4.4	18
123	Fabrication of Al-Si controlled expansion alloys by unique combination of pressureless sintering and hot forging. <i>Advanced Powder Technology</i> , 2020 , 31, 2820-2832	4.6	4
122	Photodegradation of methylene blue dye by powders of Ni/ZnO floweret consisting of petals of ZnO nanorod around Ni-rich core. <i>Materials Chemistry and Physics</i> , 2020 , 253, 123394	4.4	8
121	Amorphous/Nanocrystalline Composite Coatings Using Blast Furnace Pig Iron Composition by Atmospheric Plasma Spray and Their Electrochemical Response. <i>Journal of Thermal Spray Technology</i> , 2020 , 29, 843-856	2.5	9
120	Corrosion Behavior of Strained Rebar in Simulated Concrete Pore Solution. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 1939-1954	1.6	6
119	Comparative study on the stress corrosion cracking susceptibility of AZ80 and AZ31 magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139793	5.3	6
118	Evolution of ZnO flowerets from dealloying of Cu-Zn alloy powder. <i>Advanced Powder Technology</i> , 2020 , 31, 3093-3101	4.6	
117	On the extent of transformation of austenite to bainitic ferrite and carbide during austempering of high Si steel for prolonged duration and its effect on mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 793, 139764	5.3	8
116	Experimental validation of glass forming ability of melt spun ribbons of pig iron and its derivative compositions and their corrosion behavior. <i>Journal of Non-Crystalline Solids</i> , 2020 , 532, 119883	3.9	2
115	Continuous and ordered surface microtexturing on Cu and Ni-based alloys by novel electrochemical dissolution. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 153263	5.7	3
114	Effect of Micro-alloying and Microstructure on the Corrosion Behavior of As-Cast Mg-6.2 wt.% Zn Alloy. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 6691-6700	1.6	2

113	Effect of HNO ₃ and FeCl ₃ Additives on the Pickling Ability of Fayalite-Containing Oxide Film from Si-Containing Steels. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 7648-7661	1.6	
112	Effect of Heat Treatment on the Microstructure Evolution and Sensitization Behavior of High-Silicon Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 6014-6024	1.6	3
111	Structure dependent super-hydrophobic and corrosion resistant behavior of electrodeposited Ni-MoSe ₂ -MWCNT coating. <i>Applied Surface Science</i> , 2019 , 478, 26-37	6.7	17
110	Effect of Microstructures on the Corrosion Behavior of Reinforcing Bars (Rebar) Embedded in Concrete. <i>Metals and Materials International</i> , 2019 , 25, 1209-1226	2.4	9
109	Surface micro-texturing of dual phase steel and copper by combining laser machining and electrochemical dissolution. <i>Journal of Materials Processing Technology</i> , 2019 , 273, 116260	5.3	6
108	Synthesis of hydrophobic Ni-VN alloy powder by ball milling. <i>Advanced Powder Technology</i> , 2019 , 30, 1600-1610	4.6	3
107	Composite (glass + crystalline) coatings from blast furnace pig iron by high velocity oxy-fuel (HVOF) process and their electrochemical behavior. <i>Surface and Coatings Technology</i> , 2019 , 372, 72-83	4.4	17
106	Corrosion Behavior of Laser-Brazed Surface Made by Joining of AA6082 and Galvanized Steel. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 2115-2127	1.6	2
105	Dissolution Kinetics of Mg ₁₇ Al ₁₂ Eutectic Phase and Its Effect on Corrosion Behavior of As-Cast AZ80 Magnesium Alloy. <i>Jom</i> , 2019 , 71, 2209-2218	2.1	16
104	Fretting wear mechanism for harmonic, non-harmonic and conventional 316L stainless steels. <i>Wear</i> , 2019 , 424-425, 23-32	3.5	10
103	Effect of CTAB on the architecture and hydrophobicity of electrodeposited Cu ₂ ZrO ₂ nano-cone arrays. <i>Surface and Coatings Technology</i> , 2019 , 375, 323-333	4.4	8
102	Corrosion Behavior of Annealed Steels with Different Carbon Contents (0.002, 0.17, 0.43 and 0.7% C) in Freely Aerated 3.5% NaCl Solution. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 4041-4052	1.6	18
101	Comparative Corrosion Behavior of Five Different Microstructures of Rebar Steels in Simulated Concrete Pore Solution with and Without Chloride Addition. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 6275-6286	1.6	15
100	Relook at the Mechanisms of Spheroidization of 0.7 wt.% C Steel by Potentiodynamic Polarization. <i>Metallography, Microstructure, and Analysis</i> , 2019 , 8, 840-847	1.1	1
99	Corrosion Behavior of Harmonic Structured 316L Stainless Steel in 3.5% NaCl and Simulated Body Fluid Solution. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 7554-7564	1.6	8
98	Comparative Corrosion Behavior of Five Microstructures (Pearlite, Bainite, Spheroidized, Martensite, and Tempered Martensite) Made from a High Carbon Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 1489-1501	2.3	33
97	A new approach for synthesis of ZnO nanorod flowerets and subsequent pure free-standing ZnO nanorods. <i>Advanced Powder Technology</i> , 2019 , 30, 30-41	4.6	19
96	The effect of grain boundary structure on sensitization behavior in a nickel-based superalloy. <i>Journal of Materials Science</i> , 2019 , 54, 1797-1818	4.3	14

95	Effect of Different Cooling Rates on the Corrosion Behavior of High-Carbon Pearlitic Steel. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 1753-1762	1.6	20
94	Development of gradient microstructure in mild steel and grain size dependence of its electrochemical response. <i>Corrosion Science</i> , 2018 , 138, 85-95	6.8	33
93	Glassy blast furnace pig iron and design of other glassy compositions using thermodynamic calculations. <i>Journal of Non-Crystalline Solids</i> , 2018 , 484, 95-104	3.9	10
92	Effects of grain size gradients on the fretting wear of a specially-processed low carbon steel against AISI E52100 bearing steel. <i>Wear</i> , 2018 , 412-413, 1-13	3.5	13
91	Possibility of High Phosphorus Pig Iron as Sacrificial Anode. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 3335-3349	1.6	5
90	Dealloying kinetics and mechanism of porosity evolution in mechanically alloyed Ag ₂₅ Zn ₇₅ powder particles. <i>Corrosion Science</i> , 2018 , 139, 155-162	6.8	7
89	Comparative Atmospheric Corrosion Behavior of a Mild Steel and an Interstitial Free Steel. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 4497-4506	1.6	3
88	Structural and tribological correlation of electrodeposited solid lubricating Ni-WSe ₂ composite coating. <i>Surface and Coatings Technology</i> , 2018 , 349, 328-339	4.4	16
87	Effect of Scale Spallation During Coiling on the Electrochemical and Pickling Behavior of a Hot-Rolled Dual-Phase Steel. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6505-6515	1.6	0
86	Fabrication of controlled expansion Al-Si composites by pressureless and spark plasma sintering. <i>Advanced Powder Technology</i> , 2018 , 29, 3427-3439	4.6	10
85	Role of Precipitates in Recrystallization Mechanisms of Nb-Mo Microalloyed Steel. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 6748-6757	1.6	8
84	Effect of Exposure Face Orientation and Tilt Angle on Immersion Corrosion Behavior of Dual-Phase and Mild Steels. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 151-160	1.6	
83	Wear Behavior of Harmonic Structured 304L Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2608-2618	1.6	9
82	Effect of Dynamic Change in Strain Rate on Mechanical and Stress Corrosion Cracking Behavior of a Mild Steel. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2619-2631	1.6	0
81	Exceptional Work-Hardening Behavior of Medium-Carbon High-Silicon Low-Alloy Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 589-593	2.3	5
80	Effect of Microstructural Anisotropy on the Electrochemical Behavior of Rolled Mild Steel. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 185-194	1.6	11
79	Microstructural evidence of nano-carbides in medium carbon high silicon multiphase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 708, 237-247	5.3	8
78	Very Hard Corrosion-Resistant Roll-Bonded Cr Coating on Mild Steel in Presence of Graphite. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 5885-5896	1.6	

77	Electrochemical Behavior of HVOF-Sprayed Amorphous and Nanocrystalline Fe-Based Fe _{73.13} Si _{11.12} B _{10.79} Cr _{2.24} C _{2.72} Composite Coatings. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 5538-5552	1.6	12
76	A two-step method for synthesis of micron sized nanoporous silver powder and ZnO nanoparticles. <i>Advanced Powder Technology</i> , 2017 , 28, 2532-2541	4.6	7
75	Low temperature cross-rolling to modify grain boundary character distribution and its effect on sensitization of SS304. <i>Journal of Materials Processing Technology</i> , 2017 , 240, 324-331	5.3	14
74	Estimating Critical Corrosion for Initiation of Longitudinal Cracks in RC Structures Considering Phases and Composition of Corrosion Products. <i>Journal of Materials in Civil Engineering</i> , 2016 , 28, 04016158	4.3	13
73	The serrated flow and recrystallization in dispersion hardened Cu ₄₀ Ni ₆₀ alloy during hot deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 673, 135-140	5.3	8
72	Effect of Harmonic Microstructure on the Corrosion Behavior of SUS304L Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 6259-6269	5.3	13
71	Super strong and highly ductile low alloy multiphase steels consisting of bainite, ferrite and retained austenite. <i>Materials and Design</i> , 2016 , 95, 75-88	8.1	44
70	Superior work hardening behavior of moderately high carbon low alloy super strong and ductile multiphase steels with dispersed retained austenite. <i>Materials and Design</i> , 2016 , 99, 439-448	8.1	20
69	Strain Partitioning and Load Transfer in Constituent Phases in Dual-Phase Steels. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 3993-4003	1.6	4
68	Effect of Intercritical Temperature on the Structure Property Correlation of Multiphase High-C Spheroidized Steel. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 623-634	1.6	2
67	Relation Between Open Circuit Potential and Polarization Resistance with Rust and Corrosion Monitoring of Mild Steel. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 2969-2976	1.6	39
66	Wear behaviour of bainitic rail and wheel steels. <i>Materials Science and Technology</i> , 2016 , 32, 266-274	1.5	11
65	Critical evaluation of glass forming ability criteria. <i>Materials Science and Technology</i> , 2016 , 32, 380-400	1.5	35
64	Stress Corrosion Cracking Behavior of Interstitial Free Steel Via Slow Strain Rate Technique. <i>Journal of Materials Engineering and Performance</i> , 2016 , 25, 2878-2888	1.6	8
63	Effect of alternate corrosion and wear on the overall degradation of a dual phase and a mild steel. <i>Wear</i> , 2016 , 368-369, 368-378	3.5	12
62	Corrosion Behavior of IF Steel in Various Media and Its Comparison with Mild Steel. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 1961-1974	1.6	18
61	High Strength High Carbon Low Alloy Pearlite-Ferrite-Tempered Martensite Steels. <i>Transactions of the Indian Institute of Metals</i> , 2015 , 68, 117-128	1.2	6
60	Effect of Machining Configurations on the Electrochemical Response of Mild Steel in 3.5% NaCl Solution. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 3643-3650	1.6	10

59	Factors Influencing Oxidation Behavior of Metallic Glasses. <i>Transactions of the Indian Institute of Metals</i> , 2015 , 68, 1151-1154	1.2	
58	Wear Behavior of Newly Developed Bainitic Wheel Steels. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 999-1010	1.6	11
57	Passivation and Corrosion Behavior of Modified Ferritic-Pearlitic Railway Axle Steels. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 85-97	1.6	9
56	Degradation of Spark Plasma Sintered Yttria Stabilized Zirconia (YSZ) and CeO ₂ -YSZ Ceramics in Supercritical Water. <i>International Journal of Applied Ceramic Technology</i> , 2015 , 12, 1103-1111	2	1
55	Porous Alumina Template by Selective Dissolution of Ni from Sintered Al ₂ O ₃ -Ni Composite. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 2816-2825	1.6	0
54	Constitutive modeling of hot deformation behavior of vacuum hot pressed Cu ₈ Cr ₄ Nb alloy. <i>Materials & Design</i> , 2015 , 75, 57-64		32
53	Development of Highly Ductile Spheroidized Steel from High C (0.61 wt.% C) Low-Alloy Steel. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 4527-4542	1.6	2
52	Effect of machining configuration on the corrosion of mild steel. <i>Journal of Materials Processing Technology</i> , 2015 , 219, 70-83	5.3	26
51	Effect of Machining Parameters on Oxidation Behavior of Mild Steel. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 484-498	1.6	2
50	Corrosion Behavior of High-Strength Bainitic Rail Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 1500-1518	2.3	21
49	Porous copper template from partially spark plasma-sintered Cu-Zn aggregate via dezincification. <i>Bulletin of Materials Science</i> , 2014 , 37, 743-752	1.7	9
48	Relook on fitting of viscosity with undercooling of glassy liquids. <i>Bulletin of Materials Science</i> , 2014 , 37, 83-93	1.7	5
47	On the Unavailability of Universal Glass Forming Ability Criterion. <i>Transactions of the Indian Institute of Metals</i> , 2014 , 67, 451-458	1.2	0
46	Simulated Isothermal Crystallization Kinetics from Non-Isothermal Experimental Data. <i>Transactions of the Indian Institute of Metals</i> , 2014 , 67, 945-958	1.2	4
45	Corrosion behavior of Mg _{0.4} Zn alloy micro-alloyed with Ag and Ca. <i>Corrosion Science</i> , 2014 , 78, 172-182	6.8	70
44	Densification behavior of mechanically milled Cu ₈ at% Cr alloy and its mechanical and electrical properties. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 608-622	3.6	15
43	Nanoporous Ag template from partially sintered Ag-Zn compact by dezincification. <i>Bulletin of Materials Science</i> , 2014 , 37, 1353-1367	1.7	5
42	Reciprocating Sliding Wear Behavior of Newly Developed Bainitic Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 5451-5468	2.3	12

41	Influence of Subsurface Structure on the Linear Reciprocating Sliding Wear Behavior of Steels with Different Microstructures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 6088-6102	2.3	15
40	Aging behavior and microstructural stability of a Cu ₈ Cr ₂ Nb alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 590, 514-525	5.7	19
39	Oxidation and Crystallization Behavior of Quinary Zr-Based Bulk Metallic Glasses. <i>Transactions of the Indian Institute of Metals</i> , 2014 , 67, 417-427	1.2	
38	Revisiting Thermodynamic Understanding of Cathodic and Anodic Polarization. <i>Transactions of the Indian Institute of Metals</i> , 2014 , 67, 197-201	1.2	
37	Electrochemical passivation behaviour of nanocrystalline Fe ₈₀ Si ₂₀ coating in borate buffer solution. <i>Bulletin of Materials Science</i> , 2013 , 36, 51-58	1.7	4
36	Corrosion Behaviour of New Railway Axle Steels. <i>Transactions of the Indian Institute of Metals</i> , 2013 , 66, 33-41	1.2	15
35	Effect of powder milling on mechanical properties of hot-pressed and hot-rolled Cu ₈ Cr ₂ Nb alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 427-434	5.7	15
34	Spark plasma sintering of dispersion hardened Cu ₈ Cr ₂ Nb alloy powders. <i>Journal of Alloys and Compounds</i> , 2013 , 577, 70-78	5.7	10
33	On the optical microscopic method for the determination of ball-on-flat surface linearly reciprocating sliding wear volume. <i>Wear</i> , 2013 , 300, 82-89	3.5	41
32	Effect of powder oxidation on densification and properties of vacuum hot pressed Cu ₈ Cr ₂ Nb alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 561, 452-459	5.3	15
31	Enhancement of high temperature ductility of hot-pressed Cu ₈ Cr ₂ Nb alloy by hot rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 577, 36-42	5.3	16
30	Effect of hot rolling on the enhancement of mechanical properties of low density Cu ₈ Cr ₂ Nb sintered alloy. <i>Materials & Design</i> , 2013 , 43, 125-133		8
29	Comparative Studies of Different Methods for Determining Crystallization Kinetics of Metallic Glass. <i>Transactions of the Indian Institute of Metals</i> , 2012 , 65, 565-570	1.2	1
28	Densification behavior and mechanical properties of Cu ₈ Cr ₂ Nb alloy powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 551, 241-248	5.3	15
27	Critical isothermal temperature and optimum mechanical behaviour of high Si-containing bainitic steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 558, 725-729	5.3	21
26	Corrosion and Oxidation Behavior of Zr ₅₈ Cu ₂₂ Fe ₄ Co ₄ Al ₁₂ Metallic Glass. <i>Transactions of the Indian Institute of Metals</i> , 2011 , 64, 401-408	1.2	
25	Development of New High-Strength Carbide-Free Bainitic Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 3921-3933	2.3	44
24	On the estimation of the solid liquid interfacial energy of glassy alloys as a function of temperature and structure. <i>Transactions of the Indian Institute of Metals</i> , 2010 , 63, 787-791	1.2	0

23	Effect of Zn concentration on diffusion induced grain boundary migration in Cu-Zn system. <i>Transactions of the Indian Institute of Metals</i> , 2009 , 62, 233-239	1.2	
22	Temperature and structure dependency of solid-liquid interfacial energy. <i>Acta Materialia</i> , 2009 , 57, 3422-3430	3.4	15
21	In situ nanocrystalline Fe-Bi coating by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2009 , 482, 118-122	5.7	37
20	Geometry Constrained Plasticity of Bulk Metallic Glass. <i>Materials Transactions</i> , 2009 , 50, 152-157	1.3	32
19	Oxidation behavior of amorphous and nanoquasicrystalline Zr-Pd and Zr-Pt alloys. <i>Journal of Alloys and Compounds</i> , 2008 , 460, 172-181	5.7	9
18	The effect of nanocrystallization and free volume on the room temperature plasticity of Zr-based bulk metallic glasses. <i>Acta Materialia</i> , 2008 , 56, 5329-5339	8.4	93
17	On the prediction of solid-liquid interfacial energy of glass forming liquids from homogeneous nucleation theory. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 454-455, 654-661	5.3	14
16	Glass Forming Ability and Mechanical Properties of Quinary Zr-Based Bulk Metallic Glasses. <i>Materials Transactions</i> , 2007 , 48, 1322-1326	1.3	25
15	Oxidation behavior of multicomponent Zr-based amorphous alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 433, 162-170	5.7	18
14	Large apparent compressive strain of metallic glasses. <i>Philosophical Magazine Letters</i> , 2007 , 87, 625-635	1	23
13	Surface oxides and their effect on the oxidation behavior of amorphous and nanoquasicrystalline Zr-Pd and Zr-Pt alloys. <i>Journal of Materials Research</i> , 2006 , 21, 639-646	2.5	7
12	Electrochemical behavior of multicomponent amorphous and nanocrystalline Zr-based alloys in different environments. <i>Corrosion Science</i> , 2006 , 48, 2212-2225	6.8	39
11	Prediction of maximum homogeneous nucleation temperature for crystallization of metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5257-5264	3.9	15
10	On the parameters to assess the glass forming ability of liquids. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 1366-1371	3.9	125
9	Corrosion and oxidation behavior of amorphous and nanoquasicrystalline phases in Zr ₇₀ Pd ₃₀ and Zr ₈₀ Pt ₂₀ alloys. <i>Journal of Non-Crystalline Solids</i> , 2004 , 334-335, 544-547	3.9	8
8	Gibbs free energy for the crystallization of glass forming liquids. <i>Applied Physics Letters</i> , 2003 , 83, 671-673	3.4	25
7	Effect of Vibratory Tip Amplitude on the Erosion Rate of Various Microstructures of High Carbon Steel. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	
6	Effect of Salinity, Total Dissolved Solids, Conductivity, and pH on Corrosion Behavior of Different Microstructures Made from High-Carbon Rail Steel. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	0

5	Influence of Deaeration, Cl ⁻ Ion and Strong Oxidizer on the Active Behavior of the High Phosphorus Containing Pig Iron and Subsequent Effect on the Sacrificial Anode Behavior. <i>Metals and Materials International</i> , ¹	2.4	1
4	Electroless Amorphous NiP Coatings Over API X70 Steel: Resistance to Wear and Hydrogen Embrittlement. <i>Metals and Materials International</i> , ¹	2.4	0
3	High Phosphorus Pig Iron as Sacrificial Anode in Seawater. <i>Journal of Materials Engineering and Performance</i> , ¹	1.6	0
2	Electrochemical and microstructural analysis of azomethine polyamides as inhibitor for rebar corrosion under chloride contaminated pore solution ¹ , 1004		4
1	Cavitation Resistance of a Cr-Mn Stainless Steel, A Mild Steel, and A High-Carbon Steel Based on Rust Protectivity and Corrosion Behavior. <i>Journal of Materials Engineering and Performance</i> , ¹	1.6	0