

H K D H Bhadeshia

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253
papers

12,927
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102
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265
ext. papers

13,955
ext. citations

2.2
avg, IF

6.85
L-index

#	Paper	IF	Citations
253	Review: friction stir welding tools. <i>Science and Technology of Welding and Joining</i> , 2011 , 16, 325-342	3.7	484
252	Neural Networks in Materials Science.. <i>ISIJ International</i> , 1999 , 39, 966-979	1.7	450
251	The bainite transformation in a silicon steel. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1979 , 10, 895-907		445
250	Bainite in steels. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990 , 21, 767-797		416
249	Very strong low temperature bainite. <i>Materials Science and Technology</i> , 2002 , 18, 279-284	1.5	394
248	Acceleration of Low-temperature Bainite. <i>ISIJ International</i> , 2003 , 43, 1821-1825	1.7	357
247	Bainite in silicon steels: new composition-property approach Part 1. <i>Metal Science</i> , 1983 , 17, 411-419		354
246	Development of Hard Bainite. <i>ISIJ International</i> , 2003 , 43, 1238-1243	1.7	294
245	Review Type IV cracking in ferritic power plant steels. <i>Materials Science and Technology</i> , 2006 , 22, 1387-1395		244
244	Thermodynamic analysis of isothermal transformation diagrams. <i>Metal Science</i> , 1982 , 16, 159-166		236
243	Nanostructured bainite. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010 , 466, 3-18	2.4	222
242	Influence of silicon on cementite precipitation in steels. <i>Materials Science and Technology</i> , 2008 , 24, 343-347		205
241	Friction stir welding of dissimilar alloys -a perspective. <i>Science and Technology of Welding and Joining</i> , 2010 , 15, 266-270	3.7	202
240	Bainite in silicon steels: new composition-property approach Part 2. <i>Metal Science</i> , 1983 , 17, 420-425		201
239	In-situ observations of lattice parameter fluctuations in austenite and transformation to bainite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 3281-3289	2.3	180
238	Mechanical stabilisation of austenite. <i>Materials Science and Technology</i> , 2006 , 22, 641-644	1.5	169
237	Stress induced transformation to bainite in Fe-Cr-Mo pressure vessel steel. <i>Materials Science and Technology</i> , 1991 , 7, 686-698	1.5	163

236	Advances in Physical Metallurgy and Processing of Steels. Design of Ferritic Creep-resistant Steels.. <i>ISIJ International</i> , 2001 , 41, 626-640	1.7	162
235	Austenite films in bainitic microstructures. <i>Materials Science and Technology</i> , 1995 , 11, 874-882	1.5	158
234	TRIP-Assisted Steels?. <i>ISIJ International</i> , 2002 , 42, 1059-1060	1.7	150
233	Welding residual stresses in ferritic power plant steels. <i>Materials Science and Technology</i> , 2007 , 23, 1009-1020	1.5	149
232	Strength of mixtures of bainite and martensite. <i>Materials Science and Technology</i> , 1994 , 10, 209-214	1.5	146
231	Model for transition from upper to lower bainite. <i>Materials Science and Technology</i> , 1990 , 6, 592-603	1.5	141
230	Bainite transformation kinetics Part 1 Modified model. <i>Materials Science and Technology</i> , 1992 , 8, 985-995	1.5	132
229	Uncertainties in dilatometric determination of martensite start temperature. <i>Materials Science and Technology</i> , 2007 , 23, 556-560	1.5	118
228	Stability of retained austenite in TRIP-assisted steels. <i>Materials Science and Technology</i> , 2004 , 20, 319-325	1.5	117
227	52nd Hatfield Memorial Lecture Large chunks of very strong steel. <i>Materials Science and Technology</i> , 2005 , 21, 1293-1302	1.5	111
226	Medium-Alloy Manganese-Rich Transformation-Induced Plasticity Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 286-293	2.3	109
225	Critical assessment: friction stir welding of steels. <i>Science and Technology of Welding and Joining</i> , 2009 , 14, 193-196	3.7	108
224	Driving force for martensitic transformation in steels. <i>Metal Science</i> , 1981 , 15, 175-177		101
223	Mechanical stabilisation of bainite. <i>Materials Science and Technology</i> , 1995 , 11, 1116-1128	1.5	99
222	A Model for the Microstructure of Some Advanced Bainitic Steels. <i>Materials Transactions, JIM</i> , 1991 , 32, 689-696		94
221	The first bulk nanostructured metal. <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 014202	7.1	89
220	High resolution observations of displacements caused by bainitic transformation. <i>Materials Science and Technology</i> , 1996 , 12, 121-125	1.5	88
219	TRIP steel. <i>Materials Science and Technology</i> , 2007 , 23, 819-827	1.5	83

218	Thermodynamic extrapolation and martensite-start temperature of substitutionally alloyed steels. <i>Metal Science</i> , 1981 , 15, 178-180		79
217	Analysis of deformation induced martensitic transformation in stainless steels. <i>Materials Science and Technology</i> , 2011 , 27, 366-370	1.5	77
216	Performance of neural networks in materials science. <i>Materials Science and Technology</i> , 2009 , 25, 504-510	1.5	76
215	Modelling precipitation sequences in power plant steels Part 1 Kinetic theory. <i>Materials Science and Technology</i> , 1997 , 13, 631-639	1.5	76
214	Transformation induced plasticity assisted steels: stress or strain affected martensitic transformation?. <i>Materials Science and Technology</i> , 2007 , 23, 1101-1104	1.5	75
213	Interphase precipitation in TiNb and TiNbMo bearing steel. <i>Materials Science and Technology</i> , 2013 , 29, 309-313	1.5	71
212	Designing low carbon, low temperature bainite. <i>Materials Science and Technology</i> , 2008 , 24, 335-342	1.5	71
211	Thermal stability of retained austenite in bainitic steel: an in situ study. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 3141-3156	2.4	70
210	Finite element simulation of laser spot welding. <i>Science and Technology of Welding and Joining</i> , 2003 , 8, 377-384	3.7	68
209	The effect of niobium on the hardenability of microalloyed austenite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1995 , 26, 21-30	2.3	68
208	Bayesian Neural Network Analysis of Fatigue Crack Growth Rate in Nickel Base Superalloys.. <i>ISIJ International</i> , 1996 , 36, 1373-1382	1.7	66
207	TRIP-assisted steels: cracking of high-carbon martensite. <i>Materials Science and Technology</i> , 2006 , 22, 645-649	1.5	64
206	Impact toughness of CMn steel arc welds Bayesian neural network analysis. <i>Materials Science and Technology</i> , 1995 , 11, 1046-1051	1.5	63
205	Modeling of fundamental phenomena in welds. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1995 , 3, 265-288	2	61
204	Neural Networks and Information in Materials Science. <i>Statistical Analysis and Data Mining</i> , 2009 , 1, 296-305	1.5	60
203	Diffusion of carbon in austenite. <i>Metal Science</i> , 1981 , 15, 477-480		57
202	Carbide precipitation in 12Cr1MoV power plant steel. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1992 , 23, 1171-1179		56
201	The interpretation of dilatometric data for transformations in steels. <i>Journal of Materials Science Letters</i> , 1989 , 8, 477-478		56

200	White-Etching Matter in Bearing Steel. Part II: Distinguishing Cause and Effect in Bearing Steel Failure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4916-4931	2.3	55
199	Transition from bainite to acicular ferrite in reheated Fe-C-Mn weld deposits. <i>Materials Science and Technology</i> , 1990 , 6, 1005-1020	1.5	55
198	Diffusion of carbon in substitutionally alloyed austenite. <i>Journal of Materials Science Letters</i> , 1995 , 14, 314-316		53
197	Titanium-rich mineral phases and the nucleation of bainite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1994 , 25, 1603-1611	2.3	53
196	Critical Assessment 13: Elimination of white etching matter in bearing steels. <i>Materials Science and Technology</i> , 2015 , 31, 1011-1015	1.5	51
195	Neural network model of creep strength of austenitic stainless steels. <i>Materials Science and Technology</i> , 2002 , 18, 655-663	1.5	51
194	The Effects of Filler Metal Transformation Temperature on Residual Stresses in a High Strength Steel Weld. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2009 , 131,	1.2	48
193	Prediction of cooling rate and microstructure in laser spot welds. <i>Science and Technology of Welding and Joining</i> , 2003 , 8, 391-399	3.7	48
192	Analysis of mechanical properties and microstructure of high-silicon dual-phase steel. <i>Metal Science</i> , 1980 , 14, 41-49		48
191	Crystallography of Widmanstätten austenite in duplex stainless steel weld metal. <i>Science and Technology of Welding and Joining</i> , 2009 , 14, 4-10	3.7	47
190	Diffusion-controlled growth of ferrite plates in plain-carbon steels. <i>Materials Science and Technology</i> , 1985 , 1, 497-504	1.5	47
189	Mechanical stabilisation of eutectoid steel. <i>Materials Science and Technology</i> , 2007 , 23, 610-612	1.5	46
188	Design of a creep resistant nickel base superalloy for power plant applications: Part 1 - Mechanical properties modelling. <i>Materials Science and Technology</i> , 2003 , 19, 283-290	1.5	46
187	Quantitative evidence for mechanical stabilization of bainite. <i>Materials Science and Technology</i> , 1996 , 12, 610-612	1.5	46
186	Kinetics of reconstructive austenite to ferrite transformation in low alloy steels. <i>Materials Science and Technology</i> , 1992 , 8, 421-436	1.5	46
185	Modelling and characterisation of Mo ₂ C precipitation and cementite dissolution during tempering of Fe-C-Mo martensitic steel. <i>Materials Science and Technology</i> , 2003 , 19, 723-731	1.5	45
184	Modelling precipitation sequences in powerplant steels Part 2 [Application of kinetic theory. <i>Materials Science and Technology</i> , 1997 , 13, 640-644	1.5	44
183	Influence of carbon, manganese and nickel on microstructure and properties of strong steel weld metals: Part 3 [Increased strength resulting from carbon additions. <i>Science and Technology of Welding and Joining</i> , 2006 , 11, 19-24	3.7	44

182	The distribution of substitutional alloying elements during the bainite transformation. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990 , 21, 837-844		44
181	Effect of interpass temperature on residual stresses in multipass welds produced using low transformation temperature filler alloy. <i>Science and Technology of Welding and Joining</i> , 2014 , 19, 44-51	3.7	42
180	Ferritic power plant steels: remanent life assessment and approach to equilibrium. <i>International Materials Reviews</i> , 1998 , 43, 45-69	16.1	42
179	Orientation relationships between adjacent plates of acicular ferrite in steel weld deposits. <i>Materials Science and Technology</i> , 1989 , 5, 93-97	1.5	42
178	Nucleation of Widmanstätten ferrite. <i>Materials Science and Technology</i> , 1990 , 6, 781-784	1.5	42
177	Stainless steel weld metal designed to mitigate residual stresses. <i>Science and Technology of Welding and Joining</i> , 2009 , 14, 559-565	3.7	41
176	competitive formation of inter- and intragranularly nucleated ferrite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1997 , 28, 2005-2013	2.3	41
175	The evolution of solutions: A thermodynamic analysis of mechanical alloying. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1997 , 28, 2189-2194	2.3	41
174	Precipitation sequence in niobium-alloyed ferritic stainless steel. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2004 , 12, 273-284	2	41
173	Theoretical analysis of changes in cementite composition during tempering of bainite. <i>Materials Science and Technology</i> , 1989 , 5, 131-137	1.5	41
172	Cementite. <i>International Materials Reviews</i> , 2020 , 65, 1-27	16.1	41
171	Fatigue of extremely fine bainite. <i>Materials Science and Technology</i> , 2011 , 27, 119-123	1.5	40
170	Design of weld fillers for mitigation of residual stresses in ferritic and austenitic steel welds. <i>Science and Technology of Welding and Joining</i> , 2011 , 16, 279-284	3.7	40
169	Changes in toughness at low oxygen concentrations in steel weld metals. <i>Science and Technology of Welding and Joining</i> , 2006 , 11, 509-516	3.7	40
168	Modelling Simultaneous Alloy Carbide Sequence in Power Plant Steels.. <i>ISIJ International</i> , 2002 , 42, 760-769	16.1	40
167	Grain control in mechanically alloyed oxide dispersion strengthened MA 957 steel. <i>Materials Science and Technology</i> , 1993 , 9, 890-898	1.5	40
166	Changes in chemical composition of carbides in 225Cr1Mo power plant steel. <i>Materials Science and Technology</i> , 1994 , 10, 193-204	1.5	40
165	Influence of carbon, manganese and nickel on microstructure and properties of strong steel weld metals: Part 2 Impact toughness gain resulting from manganese reductions. <i>Science and Technology of Welding and Joining</i> , 2006 , 11, 9-18	3.7	39

164	Bayesian neural network model for austenite formation in steels. <i>Materials Science and Technology</i> , 1996 , 12, 453-463	1.5	39
163	Acicular ferrite transformation in alloy-steel weld metals. <i>Journal of Materials Science</i> , 1991 , 26, 839-845	4.3	39
162	Coupled diffusional/displacive transformations: Part II. Solute trapping. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990 , 21, 805-809		39
161	Influence of Silicon in Low Density Fe-C-Mn-Al Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 1731-1735	2.3	38
160	Non-equilibrium solidification and ferrite in TRIP steel. <i>Materials Science and Technology</i> , 2010 , 26, 817-823	1.5	38
159	Microstructure of lower bainite formed at large undercoolings below bainite start temperature. <i>Materials Science and Technology</i> , 1996 , 12, 233-236	1.5	37
158	Divorced pearlite in steels. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 2767-2778	2.4	36
157	Heat transfer coefficients during quenching of steels. <i>Heat and Mass Transfer</i> , 2011 , 47, 315-321	2.2	35
156	Sensitisation and Evolution of Chromium-depleted Zones in Fe-Cr-Ni-C Systems. <i>ISIJ International</i> , 2003 , 43, 1814-1820	1.7	35
155	Characterisation of severely deformed austenitic stainless steel wire. <i>Materials Science and Technology</i> , 2005 , 21, 1323-1328	1.5	35
154	Thermodynamics of acicular ferrite nucleation. <i>Materials Science and Technology</i> , 1994 , 10, 353-358	1.5	35
153	Extraordinary ductility in Al-bearing TRIP steel. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 234-243	2.4	34
152	Stabilisation of ferrite in hot rolled TRIP steel. <i>Materials Science and Technology</i> , 2011 , 27, 525-529	1.5	34
151	Modelling and characterisation of V ₄ C ₃ precipitation and cementite dissolution during tempering of Fe-C-V martensitic steel. <i>Materials Science and Technology</i> , 2003 , 19, 1335-1343	1.5	34
150	Metallographic observations of bainite transformation mechanism. <i>Materials Science and Technology</i> , 1995 , 11, 105-108	1.5	34
149	Hydrogen diffusion and the percolation of austenite in nanostructured bainitic steel. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20140108	2.4	33
148	Solidification sequences in stainless steel dissimilar alloy welds. <i>Materials Science and Technology</i> , 1991 , 7, 50-61	1.5	33
147	Mathematical models in materials science. <i>Materials Science and Technology</i> , 2008 , 24, 128-136	1.5	32

146	Lower acicular ferrite. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1989 , 20, 1811-1818		32
145	Application of first-order quasicheical theory to transformations in steels. <i>Metal Science</i> , 1982 , 16, 167-170		32
144	Diffusional Transformations: A Theory for the Formation of Superledges. <i>Physica Status Solidi A</i> , 1982 , 69, 745-750		32
143	Friction stir welding of mild steel: tool durability and steel microstructure. <i>Materials Science and Technology</i> , 2014 , 30, 1050-1056	1.5	31
142	Directional recrystallisation in Inconel MA 6000 nickel base oxide dispersion strengthened superalloy. <i>Materials Science and Technology</i> , 1990 , 6, 1236-1246	1.5	31
141	Further evidence of tetragonality in bainitic ferrite. <i>Materials Science and Technology</i> , 2015 , 31, 254-256	1.5	30
140	Bainite orientation in plastically deformed austenite. <i>International Journal of Materials Research</i> , 2009 , 100, 40-45	0.5	30
139	Electron backscattering diffraction study of coalesced bainite in high strength steel weld metals. <i>Materials Science and Technology</i> , 2008 , 24, 1183-1188	1.5	30
138	Coalesced bainite by isothermal transformation of reheated weld metal. <i>Science and Technology of Welding and Joining</i> , 2008 , 13, 593-597	3.7	30
137	Design of a creep resistant nickel base superalloy for power plant applications: Part 3 - Experimental results. <i>Materials Science and Technology</i> , 2003 , 19, 296-302	1.5	30
136	Topology of grain deformation. <i>Materials Science and Technology</i> , 1998 , 14, 832-834	1.5	30
135	Tool durability maps for friction stir welding of an aluminium alloy. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 3552-3570	2.4	29
134	Stretch-flangeability of strong multiphase steels. <i>Materials Science and Technology</i> , 2007 , 23, 606-609	1.5	28
133	Crystallographic texture in mechanically alloyed oxide dispersion-strengthened MA956 and MA957 steels. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1993 , 24, 773-779		28
132	Dry rolling/sliding wear of nanostructured pearlite. <i>Materials Science and Technology</i> , 2015 , 31, 1735-1744	4.5	27
131	Cementite precipitation during tempering of martensite under the influence of an externally applied stress. <i>Journal of Materials Science</i> , 1994 , 29, 6079-6084	4.3	27
130	The bainite transformation in chemically heterogeneous 300M high-strength steel. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990 , 21, 859-875		27
129	Mixed diffusion-controlled growth of pearlite in binary steel. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 508-521	2.4	26

128	Spot weldability of TRIP assisted steels with high carbon and aluminium contents. <i>Science and Technology of Welding and Joining</i> , 2012 , 17, 92-98	3.7	26
127	Strength of Ferritic Steels: Neural Networks and Genetic Programming. <i>Materials and Manufacturing Processes</i> , 2008 , 24, 10-15	4.1	26
126	Quantitative metallography of deformed grains. <i>Materials Science and Technology</i> , 2007 , 23, 757-766	1.5	26
125	Role of fracture toughness in impact-abrasion wear. <i>Wear</i> , 2019 , 428-429, 430-437	3.5	25
124	Bearing steel microstructures after aircraft gas turbine engine service. <i>Materials Science and Technology</i> , 2014 , 30, 1911-1918	1.5	25
123	Effects of dilution and baseplate strength on stress distributions in multipass welds deposited using low transformation temperature filler alloys. <i>Science and Technology of Welding and Joining</i> , 2014 , 19, 461-467	3.7	25
122	Surface Relief Due to Bainite Transformation at 473 K (200 °C). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 3344-3348	2.3	25
121	Bulk nanocrystalline steel. <i>Ironmaking and Steelmaking</i> , 2005 , 32, 405-410	1.3	25
120	Estimation of the .GAMMA. and .GAMMA.' Lattice Parameters in Nickel-base Superalloys Using Neural Network Analysis.. <i>ISIJ International</i> , 1998 , 38, 495-502	1.7	25
119	A model for the strength of the As-deposited regions of steel weld metals. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1988 , 19, 1597-1602		25
118	Estimation of Type IV Cracking Tendency in Power Plant Steels. <i>ISIJ International</i> , 2004 , 44, 1966-1968	1.7	24
117	Tensile properties of mechanically alloyed oxide dispersion strengthened iron alloys Part 1 - Neural networkmodels. <i>Materials Science and Technology</i> , 1998 , 14, 793-809	1.5	24
116	Growth rate data on bainite in alloy steels. <i>Materials Science and Technology</i> , 1989 , 5, 398-402	1.5	24
115	White-Etching Matter in Bearing Steel. Part I: Controlled Cracking of 52100 Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4907-4915	2.3	23
114	Optimizing the Morphology and Stability of Retained Austenite in a TRIP Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 3512-3518	2.3	23
113	Relative effects of Mo and B on ferrite and bainite kinetics in strong steels. <i>International Journal of Materials Research</i> , 2009 , 100, 1513-1520	0.5	23
112	Air cooled bainitic steels for strong, seamless pipes Part 1 Alloy design, kinetics and microstructure. <i>Materials Science and Technology</i> , 2009 , 25, 1501-1507	1.5	23
111	Design of a creep resistant nickel base superalloy for power plant applications: Part 2 - Phase diagram and segregation simulation. <i>Materials Science and Technology</i> , 2003 , 19, 291-295	1.5	23

110	Modeling M ₆ C precipitation in niobium-alloyed ferritic stainless steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 3339-3347	2.3	23
109	Comparison of Artificial Neural Networks with Gaussian Processes to Model the Yield Strength of Nickel-base Superalloys.. <i>ISIJ International</i> , 1999 , 39, 1020-1026	1.7	22
108	Precipitation sequences during carburisation of CrMo steel. <i>Materials Science and Technology</i> , 1992 , 8, 875-882	1.5	22
107	Austenite-ferrite transformation in enhanced niobium, low carbon steel. <i>Materials Science and Technology</i> , 2015 , 31, 1066-1076	1.5	21
106	Macrosegregation and Microstructural Evolution in a Pressure-Vessel Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2983-2997	2.3	21
105	Anomalies in carbon concentration determinations from nanostructured bainite. <i>Materials Science and Technology</i> , 2015 , 31, 758-763	1.5	21
104	Surface residual stresses in multipass welds produced using low transformation temperature filler alloys. <i>Science and Technology of Welding and Joining</i> , 2014 , 19, 623-630	3.7	21
103	Induction welding and heat treatment of steel pipes: evolution of crystallographic texture detrimental to toughness. <i>Science and Technology of Welding and Joining</i> , 2010 , 15, 137-141	3.7	21
102	Carbide precipitation in some secondary hardened steels. <i>Journal of Materials Science</i> , 1997 , 32, 4815-4829	4.9	21
101	Prediction of martensite start temperature of power plant steels. <i>Materials Science and Technology</i> , 1996 , 12, 40-44	1.5	21
100	Stress-affected transformation to lower bainite. <i>Journal of Materials Science</i> , 1996 , 31, 2145-2148	4.3	21
99	Diffusion-controlled growth of pearlite in ternary steels. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 2948-2961	2.4	20
98	Calculation of crystallographic texture due to displacive transformations. <i>International Journal of Materials Research</i> , 2008 , 99, 342-346	0.5	20
97	Directional recrystallization in mechanically alloyed oxide dispersion-strengthened metals by annealing in a moving temperature gradient. <i>Journal of Materials Science</i> , 1995 , 30, 1439-1444	4.3	20
96	Tempering of Low-Temperature Bainite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 3410-3418	2.3	19
95	Pearlite growth rate in Fe-C and Fe-Mn-C steels. <i>Materials Science and Technology</i> , 2015 , 31, 487-493	1.5	19
94	Modelling coarsening behaviour of TiC precipitates in high strength, low alloy steels. <i>Materials Science and Technology</i> , 2013 , 29, 1074-1079	1.5	19
93	Spot weldability of TRIP steel containing 0.4 wt-%C. <i>Science and Technology of Welding and Joining</i> , 2010 , 15, 619-624	3.7	19

92	Effects of weld preheat temperature and heat input on type IV failure. <i>Science and Technology of Welding and Joining</i> , 2009 , 14, 436-442	3.7	19
91	Hot strength of creep resistant ferritic steels and relationship to creep rupture data. <i>Materials Science and Technology</i> , 2007 , 23, 1127-1131	1.5	19
90	Microstructures in hot wire laser beam welding of HY 80 steel. <i>Materials Science and Technology</i> , 1994 , 10, 56-59	1.5	19
89	Nonuniform recrystallization in a mechanically alloyed nickel-base superalloy. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1993 , 24, 1049-1055		19
88	The austenite grain structure of low-alloy steel weld deposits. <i>Journal of Materials Science</i> , 1986 , 21, 3947-3951	4.3	19
87	Stress induced transformation to bainite in FeCrMo pressure vessel steel		19
86	In situ synchrotron X-ray study of bainite transformation kinetics in a low-carbon Si-containing steel. <i>Materials Science and Technology</i> , 2017 , 33, 2147-2156	1.5	18
85	Model for solidification cracking in low alloy steel weld metals. <i>Science and Technology of Welding and Joining</i> , 1996 , 1, 43-50	3.7	18
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