

H K D H Bhadeshia

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.

253
papers

12,927
citations

55
h-index

102
g-index

265
ext. papers

13,955
ext. citations

2.2
avg, IF

6.85
L-index

#	Paper	IF	Citations
253	Stirring Solid Metals to Form Sound Welds 2021 , 21-34		0
252	First Bulk Nanostructured Metal 2021 , 85-94		
251	Cementite. <i>International Materials Reviews</i> , 2020 , 65, 1-27	16.1	41
250	Role of fracture toughness in impact-abrasion wear. <i>Wear</i> , 2019 , 428-429, 430-437	3.5	25
249	Modelling of size distribution of blocky retained austenite in Si-containing bainitic steels. <i>Materials Science and Technology</i> , 2018 , 34, 54-62	1.5	6
248	Designing steel to resist hydrogen embrittlement: Part 1 [Trapping capacity. <i>Materials Science and Technology</i> , 2018 , 34, 1737-1746	1.5	14
247	Designing steel to resist hydrogen embrittlement Part 2 [precipitate characterisation. <i>Materials Science and Technology</i> , 2018 , 34, 1747-1758	1.5	4
246	Solution to the Bagaryatskii and Isaichev ferrite-cementite orientation relationship problem. <i>Materials Science and Technology</i> , 2018 , 34, 1666-1668	1.5	7
245	Residual stress control of multipass welds using low transformation temperature fillers. <i>Materials Science and Technology</i> , 2018 , 34, 519-528	1.5	14
244	Elucidating white-etching matter through high-strain rate tensile testing. <i>Materials Science and Technology</i> , 2017 , 33, 307-310	1.5	11
243	Strength and toughness of clean nanostructured bainite. <i>Materials Science and Technology</i> , 2017 , 33, 1171-1179	1.5	8
242	Tempering of Low-Temperature Bainite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 3410-3418	2.3	19
241	Effect of manganese sulphide particle shape on the pinning of grain boundary. <i>Materials Science and Technology</i> , 2017 , 33, 1013-1018	1.5	5
240	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
239	Melt-spinning and semi-solid processing of bainitic steel. <i>Materials Science and Technology</i> , 2017 , 33, 870-878	1.5	2
238	Atomic Mechanism of the Bainite Transformation. <i>HTM - Journal of Heat Treatment and Materials</i> , 2017 , 72, 340-345	0.7	5
237	Niobium in Microalloyed Rail Steels 2016 , 33-39		

236	Is low phosphorus content in steel a product requirement?. <i>Ironmaking and Steelmaking</i> , 2015 , 42, 259-267	1.5	14
235	Ausforming of medium carbon steel. <i>Materials Science and Technology</i> , 2015 , 31, 436-442	1.5	16
234	Austenite-ferrite transformation in enhanced niobium, low carbon steel. <i>Materials Science and Technology</i> , 2015 , 31, 1066-1076	1.5	21
233	Pearlite growth rate in Fe-C and Fe-Mn-C steels. <i>Materials Science and Technology</i> , 2015 , 31, 487-493	1.5	19
232	Further evidence of tetragonality in bainitic ferrite. <i>Materials Science and Technology</i> , 2015 , 31, 254-256	1.5	30
231	Niobium in Microalloyed Rail Steels 2015 , 33-39		
230	Anomalies in carbon concentration determinations from nanostructured bainite. <i>Materials Science and Technology</i> , 2015 , 31, 758-763	1.5	21
229	Critical Assessment 13: Elimination of white etching matter in bearing steels. <i>Materials Science and Technology</i> , 2015 , 31, 1011-1015	1.5	51
228	Dry rolling/sliding wear of nanostructured pearlite. <i>Materials Science and Technology</i> , 2015 , 31, 1735-1745	1.5	27
227	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
226	Bearing steel microstructures after aircraft gas turbine engine service. <i>Materials Science and Technology</i> , 2014 , 30, 1911-1918	1.5	25
225	Friction stir welding of mild steel: tool durability and steel microstructure. <i>Materials Science and Technology</i> , 2014 , 30, 1050-1056	1.5	31
224	Second set of comments on Determination of Ms temperature: methods, meaning and influence of slow start phenomenon by T. Sourmail and V. Smanio. <i>Materials Science and Technology</i> , 2014 , 30, 510-510	1.5	2
223	Model for multiple stress affected martensitic transformations, microstructural entropy and consequences on scatter in properties. <i>Materials Science and Technology</i> , 2014 , 30, 160-165	1.5	3
222	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
221	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
220	Shear band structure in ballistically tested bainitic steels. <i>Materials Science and Technology</i> , 2014 , 30, 812-817	1.5	3
219	Spheroidisation of hypereutectoid state of nanostructured bainitic steel. <i>Materials Science and Technology</i> , 2014 , 30, 1282-1286	1.5	11

218	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
217	Austenite in Transformation-Induced Plasticity Steel Subjected to Multiple Isothermal Heat Treatments. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4201-4209	2.3	14
216	Adventures in the physical metallurgy of steels. <i>Materials Science and Technology</i> , 2014 , 30, 995-997	1.5	4
215	Toughness anisotropy in X70 and X80 linepipe steels. <i>Materials Science and Technology</i> , 2014 , 30, 439-446	6.5	10
214	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
213	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
212	The Consequences of Macroscopic Segregation on the Transformation Behavior of a Pressure-Vessel Steel. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2014 , 136,	1.2	6
211	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
210	An integrated hot rolling and microstructure model for dual-phase steels. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014 , 22, 045005	2	13
209	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
208	Mechanical Twinning in Aircraft Engine Bearing Steel 2014 , 1-13		
207	Mechanism and Kinetics of Solid-State Transformation in High-Temperature Processed Linepipe Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 5468-5477 ⁸	2.3	109
206	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
205	The first bulk nanostructured metal. <i>Science and Technology of Advanced Materials</i> , 2013 , 14, 014202	7.1	89
204	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
203	Interphase precipitation in TiNb and TiNbMo bearing steel. <i>Materials Science and Technology</i> , 2013 , 29, 309-313	1.5	71
202	Comments on Determination of Ms temperature: methods, meaning and influence of 'low start' phenomenon by T. Sourmail and V. Smanio. <i>Materials Science and Technology</i> , 2013 , 29, 889-889	1.5	4
201	Estimation of fracture toughness of tempered nanostructured bainite. <i>Materials Science and Technology</i> , 2012 , 28, 685-689	1.5	6

200	Mechanism of misorientation development within coalesced martensite. <i>Materials Science and Technology</i> , 2012 , 28, 918-923	1.5	15
199	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
198	Displacive Phase Transformation and Surface Effects Associated with Confocal Laser Scanning Microscopy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 4520-4524	2.3	16
197	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
196	Oxidation of silicon containing steel. <i>Ironmaking and Steelmaking</i> , 2012 , 39, 599-604	1.3	15
195	Retention of Ferrite in aluminium-alloyed TRIP-assisted steels. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 2904-2914	2.4	13
194	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
193	Divorced pearlite in steels. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012 , 468, 2767-2778	2.4	36
192	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
191	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
190	Heat transfer coefficients during quenching of steels. <i>Heat and Mass Transfer</i> , 2011 , 47, 315-321	2.2	35
189	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
188	Review: friction stir welding tools. <i>Science and Technology of Welding and Joining</i> , 2011 , 16, 325-342	3.7	484
187	Stabilisation of ferrite in hot rolled TRIP steel. <i>Materials Science and Technology</i> , 2011 , 27, 525-529	1.5	34
186	Fatigue of extremely fine bainite. <i>Materials Science and Technology</i> , 2011 , 27, 119-123	1.5	40
185	Analysis of deformation induced martensitic transformation in stainless steels. <i>Materials Science and Technology</i> , 2011 , 27, 366-370	1.5	77
184	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
183	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

182	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
181	Problems in the Calculation of Transformation Texture in Steels. <i>ISIJ International</i> , 2010 , 50, 1517-1522	1.7	17
180	Friction stir welding of dissimilar alloys – a perspective. <i>Science and Technology of Welding and Joining</i> , 2010 , 15, 266-270	3.7	202
179	Accumulation of stress in constrained assemblies: novel Satoh test configuration. <i>Science and Technology of Welding and Joining</i> , 2010 , 15, 497-499	3.7	9
178	Investigations Into the Microstructure–Toughness Relation in High Frequency Induction Welded Pipes 2010 ,		7
177	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
176	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
175	Temperature cycling and the rate of the bainite transformation. <i>Materials Science and Technology</i> , 2010 , 26, 453-456	1.5	11
174	Non-equilibrium solidification and ferrite in TRIP steel. <i>Materials Science and Technology</i> , 2010 , 26, 817-823	1.5	38
173	Very Short and Very Long Heat Treatments in the Processing of Steel. <i>Materials and Manufacturing Processes</i> , 2010 , 25, 1-6	4.1	16
172	Nanostructured bainite. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010 , 466, 3-18	2.4	222
171	Microstructure evolution in irons and steels: a tribute to David V. Edmonds. <i>International Heat Treatment and Surface Engineering</i> , 2010 , 4, 62-69		1
170	Dual orientation and variant selection during diffusional transformation of austenite to allotriomorphic ferrite. <i>Journal of Materials Science</i> , 2010 , 45, 4126-4132	4.3	14
169	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
168	Bainite orientation in plastically deformed austenite. <i>International Journal of Materials Research</i> , 2009 , 100, 40-45	0.5	30
167	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
166	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
165	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

164	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
163	Neural Networks and Information in Materials Science. <i>Statistical Analysis and Data Mining</i> , 2009 , 1, 296-305	3.5	60
162	Performance of neural networks in materials science. <i>Materials Science and Technology</i> , 2009 , 25, 504-510	3.5	76
161	Transformation texture of allotriomorphic ferrite in steel. <i>Materials Science and Technology</i> , 2009 , 25, 892-895	1.5	15
160	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
159	Air cooled bainitic steels for strong, seamless pipes Part 2 Properties and microstructure of rolled material. <i>Materials Science and Technology</i> , 2009 , 25, 1508-1512	1.5	14
158	Contribution of Microalloying to the Strength of Hot-Rolled Steels. <i>Materials and Manufacturing Processes</i> , 2009 , 24, 138-144	4.1	9
157	Critical assessment: friction stir welding of steels. <i>Science and Technology of Welding and Joining</i> , 2009 , 14, 193-196	3.7	108
156	Elongation of Irradiated Steels. <i>Materials and Manufacturing Processes</i> , 2009 , 24, 130-137	4.1	3
155	Topology of the Deformation of a Non-uniform Grain Structure. <i>ISIJ International</i> , 2009 , 49, 115-118	1.7	11
154	Designing low carbon, low temperature bainite. <i>Materials Science and Technology</i> , 2008 , 24, 335-342	1.5	71
153	Strength of Ferritic Steels: Neural Networks and Genetic Programming. <i>Materials and Manufacturing Processes</i> , 2008 , 24, 10-15	4.1	26
152	Calculation of crystallographic texture due to displacive transformations. <i>International Journal of Materials Research</i> , 2008 , 99, 342-346	0.5	20
151	Domains of Steels with Identical Properties. <i>Materials and Manufacturing Processes</i> , 2008 , 24, 53-58	4.1	12
150	Mathematical models in materials science. <i>Materials Science and Technology</i> , 2008 , 24, 128-136	1.5	32
149	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
148	Influence of silicon on cementite precipitation in steels. <i>Materials Science and Technology</i> , 2008 , 24, 343-347	3.7	205
147	Understanding the complexities of bake hardening. <i>Materials Science and Technology</i> , 2008 , 24, 107-111	1.5	17

146	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
145	Optimization of Neural Network for Charpy Toughness of Steel Welds. <i>Materials and Manufacturing Processes</i> , 2008 , 24, 16-21	4.1	16
144	Uncertainties in dilatometric determination of martensite start temperature. <i>Materials Science and Technology</i> , 2007 , 23, 556-560	1.5	118
143	Welding residual stresses in ferritic power plant steels. <i>Materials Science and Technology</i> , 2007 , 23, 1009-1020	1.9	149
142	Bessemer Memorial Lecture: The dimensions of steel. <i>Ironmaking and Steelmaking</i> , 2007 , 34, 194-199	1.3	17
141	Transformation induced plasticity assisted steels: stress or strain affected martensitic transformation?. <i>Materials Science and Technology</i> , 2007 , 23, 1101-1104	1.5	75
140	Quantitative metallography of deformed grains. <i>Materials Science and Technology</i> , 2007 , 23, 757-766	1.5	26
139	Stretch-flangeability of strong multiphase steels. <i>Materials Science and Technology</i> , 2007 , 23, 606-609	1.5	28
138	Mechanical stabilisation of eutectoid steel. <i>Materials Science and Technology</i> , 2007 , 23, 610-612	1.5	46
137	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
136	TRIP steel. <i>Materials Science and Technology</i> , 2007 , 23, 819-827	1.5	83
135	Transformation Temperatures and Welding Residual Stresses in Ferritic Steels 2007 , 949		13
134	The Front Lines of Modeling of Welding Processes Frontiers in the Modelling of Steel Weld Deposits. <i>Yosetsu Gakkai Shi/Journal of the Japan Welding Society</i> , 2007 , 76, 102-108	0.1	1
133	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
132	Size distribution of oxides and toughness of steel weld metals. <i>Science and Technology of Welding and Joining</i> , 2006 , 11, 580-582	3.7	12
131	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
130	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
129	Roughness of bainite. <i>Materials Science and Technology</i> , 2006 , 22, 650-652	1.5	5

128	TRIP-assisted steels: cracking of high-carbon martensite. <i>Materials Science and Technology</i> , 2006 , 22, 645-649	1.5	64
127	Review Type IV cracking in ferritic power plant steels. <i>Materials Science and Technology</i> , 2006 , 22, 1387-1395	2.3	244
126	Mechanical stabilisation of austenite. <i>Materials Science and Technology</i> , 2006 , 22, 641-644	1.5	169
125	52nd Hatfield Memorial Lecture Large chunks of very strong steel. <i>Materials Science and Technology</i> , 2005 , 21, 1293-1302	1.5	111
124	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
123	Characterisation of severely deformed austenitic stainless steel wire. <i>Materials Science and Technology</i> , 2005 , 21, 1323-1328	1.5	35
122	Bulk nanocrystalline steel. <i>Ironmaking and Steelmaking</i> , 2005 , 32, 405-410	1.3	25
121	Estimation of Type IV Cracking Tendency in Power Plant Steels. <i>ISIJ International</i> , 2004 , 44, 1966-1968	1.7	24
120	Stability of retained austenite in TRIP-assisted steels. <i>Materials Science and Technology</i> , 2004 , 20, 319-325	2.5	117
119	Precipitation sequence in niobium-alloyed ferritic stainless steel. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2004 , 12, 273-284	2	41
118	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
117	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
116	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
115	Avrami theory for transformations from non-uniform austenite grain structures. <i>Materials Science and Technology</i> , 2003 , 19, 1330-1334	1.5	4
114	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
113	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
112	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
111	Development of Hard Bainite. <i>ISIJ International</i> , 2003 , 43, 1238-1243	1.7	294

110	Acceleration of Low-temperature Bainite. <i>ISIJ International</i> , 2003 , 43, 1821-1825	1.7	357
109	Sensitisation and Evolution of Chromium-depleted Zones in Fe-Cr-Ni-C Systems. <i>ISIJ International</i> , 2003 , 43, 1814-1820	1.7	35
108	Finite element simulation of laser spot welding. <i>Science and Technology of Welding and Joining</i> , 2003 , 8, 377-384	3.7	68
107	Characteristics of high-power diode laser welds for industrial assembly. <i>Journal of Laser Applications</i> , 2003 , 15, 68-76	2.1	13
106	Theory for growth of needle-shaped particles in multicomponent systems. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 1075-1081	2.3	6
105	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
104	Neural network model of creep strength of austenitic stainless steels. <i>Materials Science and Technology</i> , 2002 , 18, 655-663	1.5	51
103	TRIP-Assisted Steels?. <i>ISIJ International</i> , 2002 , 42, 1059-1060	1.7	150
102	Modelling Simultaneous Alloy Carbide Sequence in Power Plant Steels.. <i>ISIJ International</i> , 2002 , 42, 760-769	1.7	40
101	Very strong low temperature bainite. <i>Materials Science and Technology</i> , 2002 , 18, 279-284	1.5	394
100	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
99	Coupled diffusional/displacive transformations: addition of substitutional alloying elements. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 2573-2580	3	1
98	Characteristics of high-power diode-laser welds for industrial assembly 2001 ,		2
97	An analysis of compositional data on plates in an Ag-44.9Cd at.% alloy. <i>Modelling and Simulation in Materials Science and Engineering</i> , 1999 , 7, 1-13	2	4
96	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
95	Neural Networks in Materials Science.. <i>ISIJ International</i> , 1999 , 39, 966-979	1.7	450
94	Ferritic power plant steels: remanent life assessment and approach to equilibrium. <i>International Materials Reviews</i> , 1998 , 43, 45-69	16.1	42
93	Quasichemical model for interstitial solutions. <i>Materials Science and Technology</i> , 1998 , 14, 273-276	1.5	5

92	Topology of grain deformation. <i>Materials Science and Technology</i> , 1998 , 14, 832-834	1.5	30
91	Tensile properties of mechanically alloyed oxide dispersion strengthened iron alloys Part 2 □ Physical interpretation of yield strength. <i>Materials Science and Technology</i> , 1998 , 14, 1221-1226	1.5	13
90	Tensile properties of mechanically alloyed oxide dispersion strengthened iron alloys Part 1 - Neural network models. <i>Materials Science and Technology</i> , 1998 , 14, 793-809	1.5	24
89	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
88	Modelling precipitation sequences in power plant steels Part 1 □Kinetic theory. <i>Materials Science and Technology</i> , 1997 , 13, 631-639	1.5	76
87	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
86	Carbide precipitation in some secondary hardened steels. <i>Journal of Materials Science</i> , 1997 , 32, 4815-4826	1.5	21
85	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
84	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
83	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
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