

Mingxin Huang

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.

137
papers

4,192
citations

36
h-index

61
g-index

140
ext. papers

5,388
ext. citations

5.5
avg, IF

6.3
L-index

#	Paper	IF	Citations
137	Revealing the tempering embrittlement in a medium entropy alloy containing carbon atoms. <i>AIP Advances</i> , 2022 , 12, 015304	1.5	0
136	Orientation-dependent superelasticity and fatigue of CuAlMn alloy under in situ micromechanical tensile characterization. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 160, 104787	5	0
135	Understanding Ceramic Particle-Stimulated Heterogeneous Recrystallization in a Medium Entropy Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022 , 53, 1156 ²⁻³	2.3	3
134	Understanding hydrogen embrittlement in press-hardened steel by coupling phase field and hydrogen diffusion modeling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 834, 142523	5.3	1
133	Strengthening contributions of dislocations and twins in warm-rolled TWIP steels. <i>International Journal of Plasticity</i> , 2022 , 150, 103198	7.6	5
132	Comparing hydrogen embrittlement behaviors of two press hardening steels: 2[GPa vs. 1.5[GPa grade. <i>Journal of Materials Science and Technology</i> , 2022 , 124, 109-115	9.1	1
131	Enhancing yield stress and uniform elongation in an ultrathin packaging steel via controlling dislocation density. <i>International Journal of Plasticity</i> , 2022 , 155, 103334	7.6	0
130	Anti-pathogen stainless steel combating COVID-19. <i>Chemical Engineering Journal</i> , 2021 , 433, 133783	14.7	0
129	Phase transformation and carbon profile at the interface between Al-Si coating and steel substrate in a press-hardened steel. <i>Materialia</i> , 2021 , 20, 101268	3.2	0
128	Revolutionizing car body manufacturing using a unified steel metallurgy concept. <i>Science Advances</i> , 2021 , 7, eabk0176	14.3	1
127	Influence of co-existing medium Mn and dual phase steel microstructures on ductility and Lüders band formation. <i>Acta Materialia</i> , 2021 , 221, 117418	8.4	1
126	TiB ₂ -TiC Reinforced Martensitic Steel Fabricated by Conventional Solidification. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 2144-2148	2.3	2
125	In-situ measurement of plastic strain in martensite matrix induced by austenite-to-martensite transformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 811, 141061	5.3	1
124	Ultrafine-grained dual-phase maraging steel with high strength and excellent cryogenic toughness. <i>Acta Materialia</i> , 2021 , 211, 116878	8.4	8
123	Making composite steel higher strength and higher ductility via introducing carbon diffusion strategy. <i>Materials Research Letters</i> , 2021 , 9, 391-397	7.4	6
122	Improving the bending toughness of Al-Si coated press-hardened steel by tailoring coating thickness. <i>Scripta Materialia</i> , 2021 , 192, 19-25	5.6	7
121	A dislocation-based flow rule with succinct power-law form suitable for crystal plasticity finite element simulations. <i>International Journal of Plasticity</i> , 2021 , 138, 102921	7.6	0

120	Critical role of Lüders banding in hydrogen embrittlement susceptibility of medium Mn steels. <i>Scripta Materialia</i> , 2021 , 190, 32-37	5.6	7
119	Effect of Processing Parameters on Mechanical Properties of Deformed and Partitioned (D&P) Medium Mn Steels. <i>Metals</i> , 2021 , 11, 356	2.3	1
118	Strain rate sensitivity of a 1.5 GPa nanotwinned steel. <i>Journal of Iron and Steel Research International</i> , 2021 , 28, 1352	1.2	1
117	A novel stainless steel with intensive silver nanoparticles showing superior antibacterial property. <i>Materials Research Letters</i> , 2021 , 9, 270-277	7.4	2
116	Influences of particle fraction and characteristics on damage tolerance of TiB ₂ -reinforced steel matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141736	5.3	2
115	Machine learning assisted screening of non-rare-earth elements for Mg alloys with low stacking fault energy. <i>Computational Materials Science</i> , 2021 , 196, 110544	3.2	1
114	Dislocation Source and Pile-up in a Twinning-induced Plasticity Steel at High-Cycle Fatigue. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 169-173	2.5	3
113	Making ultrastrong steel tough by grain-boundary delamination. <i>Science</i> , 2020 , 368, 1347-1352	33.3	73
112	On the fatigue crack propagation mechanism of a TiB ₂ -reinforced high-modulus steel. <i>Composites Part B: Engineering</i> , 2020 , 190, 107960	10	7
111	Martensite Enables the Formation of Complex Nanotwins in a Medium Mn Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 1960-1966	2.3	1
110	Abnormal TRIP effect on the work hardening behavior of a quenching and partitioning steel at high strain rate. <i>Acta Materialia</i> , 2020 , 188, 551-559	8.4	37
109	The role of interstitial carbon atoms on the strain-hardening rate of twinning-induced plasticity steels. <i>Scripta Materialia</i> , 2020 , 178, 264-268	5.6	20
108	Optimising the strength-ductility-toughness combination in ultra-high strength quenching and partitioning steels by tailoring martensite matrix and retained austenite. <i>International Journal of Plasticity</i> , 2020 , 134, 102851	7.6	21
107	Evolution of dislocation and twin densities in a Mg alloy at quasi-static and high strain rates. <i>Acta Materialia</i> , 2020 , 201, 102-113	8.4	20
106	Extra work hardening in room-temperature quenching and partitioning medium Mn steel enabled by intercritical annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 797, 140106	5.3	6
105	Improving Hydrogen Embrittlement Resistance of Hot-Stamped 1500 MPa Steel Parts That Have Undergone a Q&P Treatment by the Design of Retained Austenite and Martensite Matrix. <i>Metals</i> , 2020 , 10, 1585	2.3	1
104	Machine learning recommends affordable new Ti alloy with bone-like modulus. <i>Materials Today</i> , 2020 , 34, 41-50	21.8	31
103	Revealing the fatigue crack initiation mechanism of a TiB ₂ -reinforced steel matrix composite. <i>International Journal of Fatigue</i> , 2020 , 130, 105276	5	12

102	The Role of Retained Austenite Stability on Low-Temperature Mechanical Behaviors of a Quenching and Partitioning Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 5650-5655	2.3	10
101	Rationalizing the Grain Size Dependence of Strength and Strain-Rate Sensitivity of Nanocrystalline fcc Metals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 1943-1948	2.3	2
100	The Role of Plastic Strain on the Delayed Fracture Behavior of Twinning-Induced Plasticity Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 1437-1447	2.3	5
99	Microscopic strain partitioning in Lüders band of an ultrafine-grained medium Mn steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 761, 138050	5.3	14
98	Super-high-strength and formable medium Mn steel manufactured by warm rolling process. <i>Acta Materialia</i> , 2019 , 174, 131-141	8.4	49
97	Revealing the role of dislocations on the stability of retained austenite in a tempered bainite. <i>Scripta Materialia</i> , 2019 , 168, 23-27	5.6	21
96	Carbon-Dislocation Interaction-Induced Abnormal Strain-Rate Sensitivity in Twinning-Induced Plasticity Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 2570-2575	2.3	3
95	Extraordinary Lüders-strain-rate in medium Mn steels. <i>Materialia</i> , 2019 , 6, 100288	3.2	12
94	Resetting the Austenite Stability in a Medium Mn Steel via Dislocation Engineering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 2971-2977	2.3	12
93	Processing-Microstructure Relation of Deformed and Partitioned (D&P) Steels. <i>Metals</i> , 2019 , 9, 695	2.3	3
92	Improving Tensile Properties of Room-Temperature Quenching and Partitioning Steel by Dislocation Engineering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 4021-4026	2.3	9
91	Revealing orientation-dependent martensitic transformation in a medium Mn steel by micropillar compression. <i>International Journal of Plasticity</i> , 2019 , 123, 165-177	7.6	9
90	Thermomechanical parametric studies on residual stresses in S355 and S690 welded H-sections. <i>Journal of Constructional Steel Research</i> , 2019 , 160, 387-401	3.8	11
89	Engineering Heterogeneous Multiphase Microstructure by Austenite Reverted Transformation Coupled with Ferrite Transformation. <i>Jom</i> , 2019 , 71, 1322-1328	2.1	3
88	High-strength medium Mn quenching and partitioning steel with low yield ratio. <i>Materials Science and Technology</i> , 2019 , 35, 2109-2114	1.5	10
87	Temperature dependence of strengthening mechanisms in a twinning-induced plasticity steel. <i>International Journal of Plasticity</i> , 2019 , 116, 192-202	7.6	14
86	Effect of carbon on strain-rate and temperature sensitivity of twinning-induced plasticity steels: Modeling and experiments. <i>Acta Materialia</i> , 2019 , 165, 278-293	8.4	16
85	Strong and ductile Mg alloys developed by dislocation engineering. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 394-395	9.1	20

84	Evolution of dislocation density in bainitic steel: Modeling and experiments. <i>Acta Materialia</i> , 2018 , 149, 46-56	8.4	39
83	Benefits of Intercritical Annealing in Quenching and Partitioning Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 1460-1464	2.3	16
82	Strong and ductile medium Mn steel without transformation-induced plasticity effect. <i>Materials Research Letters</i> , 2018 , 6, 365-371	7.4	26
81	The Role of Transformation-Induced Plasticity in the Development of Advanced High Strength Steels. <i>Advanced Engineering Materials</i> , 2018 , 20, 1701083	3.5	42
80	Simultaneous Increase of Both Strength and Ductility of Medium Mn Transformation-Induced Plasticity Steel by Vanadium Alloying. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 1433-1438	2.3	14
79	Effect of pre-existed austenite on austenite reversion and mechanical behavior of an Fe-0.2C-8Mn-2Al medium Mn steel. <i>Acta Materialia</i> , 2018 , 147, 59-69	8.4	79
78	Revealing the Fracture Mechanism of Twinning-Induced Plasticity Steels. <i>Steel Research International</i> , 2018 , 89, 1700433	1.6	7
77	Recrystallisation-assisted creep of an austenitic Fe-Ni alloy under low stresses after hot deformation. <i>Acta Materialia</i> , 2018 , 153, 23-34	8.4	6
76	Optimum properties of quenching and partitioning steels achieved by balancing fraction and stability of retained austenite. <i>Scripta Materialia</i> , 2018 , 150, 1-6	5.6	60
75	Nanoindentation investigation on the initiation of yield point phenomenon in a medium Mn steel. <i>Scripta Materialia</i> , 2018 , 150, 134-138	5.6	48
74	Increasing yield strength of medium Mn steel by engineering multiple strengthening defects. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 11-16	5.3	41
73	Microstructural evolution of a nanotwinned steel under extremely high-strain-rate deformation. <i>Acta Materialia</i> , 2018 , 149, 407-415	8.4	8
72	The effect of deformation twins on the quasi-cleavage crack propagation in twinning-induced plasticity steels. <i>Acta Materialia</i> , 2018 , 150, 59-68	8.4	26
71	Effect of Aluminum and Grain Size on the Fracture Behavior of Twinning-Induced Plasticity Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 2145-2151	2.5	1
70	Revealing the interfacial plasticity and shear strength of a TiB ₂ -strengthened high-modulus low-density steel. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 121, 313-327	5	10
69	Room-Temperature Quenching and Partitioning Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 3167-3172	2.3	15
68	Alloy design by dislocation engineering. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 417-420	9.1	31
67	Revisit the role of deformation twins on the work-hardening behaviour of twinning-induced plasticity steels. <i>Scripta Materialia</i> , 2018 , 142, 28-31	5.6	59

66	Revealing hydrogen-induced delayed fracture in ferrite-containing quenching and partitioning steels. <i>Materialia</i> , 2018 , 4, 260-267	3.2	9
65	Growth Mechanism of Primary and Eutectic TiB ₂ Particles in a Hypereutectic Steel Matrix Composite. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 1981-1989	2.3	12
64	Size effect on deformation twinning in face-centred cubic single crystals: Experiments and modelling. <i>Acta Materialia</i> , 2017 , 129, 1-10	8.4	26
63	A unified dislocation-based model for ultrafine- and fine-grained face-centered cubic and body-centered cubic metals. <i>Computational Materials Science</i> , 2017 , 131, 1-10	3.2	9
62	Lattice Dislocations Enhancing Thermoelectric PbTe in Addition to Band Convergence. <i>Advanced Materials</i> , 2017 , 29, 1606768	24	272
61	Large strain burst induced by martensitic transformation in austenitic micropillars. <i>Scripta Materialia</i> , 2017 , 137, 64-68	5.6	7
60	Effect of boron on bainitic transformation kinetics after ausforming in low carbon steels. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 1494-1503	9.1	7
59	Abnormal relationship between Ms temperature and prior austenite grain size in Al-alloyed steels. <i>Scripta Materialia</i> , 2017 , 134, 11-14	5.6	7
58	High dislocation density-induced large ductility in deformed and partitioned steels. <i>Science</i> , 2017 , 357, 1029-1032	33.3	454
57	Effect of substitution of Si by Al on the microstructure and mechanical properties of bainitic transformation-induced plasticity steels. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 1475-1486	9.1	25
56	On the correlation among dislocation density, lath thickness and yield stress of bainite. <i>Acta Materialia</i> , 2017 , 135, 382-389	8.4	41
55	Kinematic and thermal characteristics of Lüders and Portevin-Le Châtelier bands in a medium Mn transformation-induced plasticity steel. <i>Acta Materialia</i> , 2017 , 124, 17-29	8.4	113
54	Revealing heterogeneous C partitioning in a medium Mn steel by nanoindentation. <i>Materials Science and Technology</i> , 2017 , 33, 552-558	1.5	4
53	Temperature dependence of Lüders strain and its correlation with martensitic transformation in a medium Mn transformation-induced plasticity steel. <i>Journal of Iron and Steel Research International</i> , 2017 , 24, 1073-1077	1.2	17
52	Interfacial Strength Characterization in a High-Modulus Low-Density Steel-Based Fe-TiB ₂ Composite. <i>Minerals, Metals and Materials Series</i> , 2017 , 453-460	0.3	1
51	The respective hardening contributions of dislocations and twins to the flow stress of a twinning-induced plasticity steel. <i>Scripta Materialia</i> , 2016 , 112, 28-31	5.6	102
50	Damage Mechanisms of a TiB ₂ -Reinforced Steel Matrix Composite for Lightweight Automotive Application. <i>Metallurgical and Materials Transactions E</i> , 2016 , 3, 203-208		2
49	Evolution of dislocations and twins in a strong and ductile nanotwinned steel. <i>Acta Materialia</i> , 2016 , 111, 96-107	8.4	77

48	Experimental investigation on a novel medium Mn steel combining transformation-induced plasticity and twinning-induced plasticity effects. <i>International Journal of Plasticity</i> , 2016 , 78, 173-186	7.6	94
47	On the Mechanical Stability of Austenite Matrix After Martensite Formation in a Medium Mn Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 3346-3353 ^{2,3}	2.3	27
46	Microstructural evolution and phase transformation in twinning-induced plasticity steel induced by high-pressure torsion. <i>Acta Materialia</i> , 2016 , 109, 300-313	8.4	48
45	In-situ evaluation of Lüders band associated with martensitic transformation in a medium Mn transformation-induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 59-63	5.3	41
44	A Novel Strong and Ductile TWIP/Martensite Steel Composite. <i>Advanced Engineering Materials</i> , 2016 , 18, 56-59	3.5	45
43	Revealing the Intrinsic Nanohardness of Lath Martensite in Low Carbon Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 688-694	2.3	36
42	Effect of intercritical annealing on the Lüders strains of medium Mn transformation-induced plasticity steels. <i>Materials and Design</i> , 2015 , 83, 42-48	8.1	94
41	Mechanism of saturated flow stress during hot tensile deformation of a TA15 Ti alloy. <i>Materials and Design</i> , 2015 , 86, 146-151	8.1	26
40	Effect of ausforming temperature and strain on the bainitic transformation kinetics of a low carbon boron steel. <i>Philosophical Magazine</i> , 2015 , 95, 1150-1163	1.6	19
39	On the Mechanisms of Different Work-Hardening Stages in Twinning-Induced Plasticity Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 5080-5090 ^{2,3}	2.3	17
38	Evolution of dislocations and twins in high cycle fatigue of a twinning-induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 647, 249-255	5.3	13
37	Analytical solution for Coble creep in polycrystalline materials under biaxial loading. <i>Mechanics of Materials</i> , 2015 , 91, 290-294	3.3	6
36	Deformation twinning in small-sized face-centred cubic single crystals: Experiments and modelling. <i>Journal of the Mechanics and Physics of Solids</i> , 2015 , 85, 128-142	5	23
35	Critical Assessment 15: Science of deformation and failure mechanisms in twinning induced plasticity steels. <i>Materials Science and Technology</i> , 2015 , 31, 1265-1270	1.5	16
34	Interfacial plasticity of a TiB ₂ -reinforced steel matrix composite fabricated by eutectic solidification. <i>Scripta Materialia</i> , 2015 , 99, 13-16	5.6	34
33	Suppression of dislocations at high strain rate deformation in a twinning-induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 628, 84-88	5.3	19
32	Strain rate sensitivity and evolution of dislocations and twins in a twinning-induced plasticity steel. <i>Acta Materialia</i> , 2015 , 88, 170-179	8.4	106
31	Martensitic Transformation in Micron-Sized Fcc Single Crystals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4731-4736	2.3	6

30	Effect of Free Surface on the Stability of Individual Retained Austenite Grains in a Duplex Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4875-4881 ¹⁴	2.3	14
29	Increase of martensite start temperature after small deformation of austenite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 609, 141-146	5.3	31
28	Supper strong nanostructured TWIP steels for automotive applications. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 50-55	3.6	21
27	On the nanoindentation behaviour of complex ferritic phases. <i>Philosophical Magazine Letters</i> , 2014 , 94, 439-446	1	23
26	A novel eutectic Fe-15 wt.% Ti alloy with an ultrafine lamellar structure for high temperature applications. <i>Intermetallics</i> , 2013 , 35, 41-44	3.5	17
25	The effect of morphology on the stability of retained austenite in a quenched and partitioned steel. <i>Scripta Materialia</i> , 2013 , 68, 321-324	5.6	400
24	Nanoindentation investigation on the mechanical stability of individual austenite grains in a medium-Mn transformation-induced plasticity steel. <i>Scripta Materialia</i> , 2013 , 69, 215-218	5.6	97
23	Driving Force and Logic of Development of Advanced High Strength Steels for Automotive Applications. <i>Steel Research International</i> , 2013 , 84, n/a-n/a	1.6	37
22	Interactions between deformation-induced defects and carbides in a vanadium-containing TWIP steel. <i>Scripta Materialia</i> , 2012 , 66, 1018-1023	5.6	68
21	Recrystallization induced plasticity in austenite and ferrite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 541, 196-198	5.3	5
20	Deformation twinning in submicron and micron pillars of twinning-induced plasticity steel. <i>Scripta Materialia</i> , 2012 , 67, 641-644	5.6	36
19	Dislocation annihilation in plastic deformation: I. Multiscale irreversible thermodynamics. <i>Acta Materialia</i> , 2012 , 60, 2606-2614	8.4	31
18	New Constitutive Analysis of Microstructural Evolution: Hot Compression of Gamma Iron. <i>Materials Science Forum</i> , 2012 , 706-709, 2284-2289	0.4	
17	Modelling the strongest grain size in nanocrystalline FCC metals. <i>Materials Letters</i> , 2011 , 65, 3128-3130	3.3	2
16	Modelling the effect of carbon on deformation behaviour of twinning induced plasticity steels. <i>Journal of Materials Science</i> , 2011 , 46, 7410-7414	4.3	43
15	Predicting the evolution of dislocation density following hot deformation. <i>Philosophical Magazine Letters</i> , 2011 , 91, 387-393	1	3
14	Effect of chemical composition on work hardening of Fe-Mn TWIP steels. <i>Materials Science and Technology</i> , 2011 , 27, 707-709	1.5	104
13	A nanometre-sized porous phase in iron-carbon-boron system. <i>Materials Letters</i> , 2010 , 64, 2559-2561	3.3	

12	An approach to define the effective lath size controlling yield strength of bainite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 6614-6619	5.3	54
11	Predicting the stress-strain behaviour of carbon steels under hot working conditions: An irreversible thermodynamics model. <i>Scripta Materialia</i> , 2009 , 61, 648-651	5.6	15
10	Modelling the strength of ultrafine-grained and nanocrystalline fcc metals. <i>Scripta Materialia</i> , 2009 , 61, 1113-1116	5.6	15
9	A constitutive model for high strain rate deformation in FCC metals based on irreversible thermodynamics. <i>Mechanics of Materials</i> , 2009 , 41, 982-988	3.3	45
8	Modelling the steady state deformation stress under various deformation conditions using a single irreversible thermodynamics based formulation. <i>Acta Materialia</i> , 2009 , 57, 3431-3438	8.4	37
7	Modelling strength and ductility of ultrafine grained BCC and FCC alloys using irreversible thermodynamics. <i>Materials Science and Technology</i> , 2009 , 25, 833-839	1.5	69
6	Modelling plastic deformation of metals over a wide range of strain rates using irreversible thermodynamics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2009 , 3, 012006	0.4	4
5	Irreversible thermodynamics modelling of plastic deformation of metals. <i>Materials Science and Technology</i> , 2008 , 24, 495-500	1.5	49
4	Modelling steady state deformation of fcc metals by non-equilibrium thermodynamics. <i>Materials Science and Technology</i> , 2007 , 23, 1105-1108	1.5	19
3	Edge dislocation dipole emission from a blunt crack tip and its morphological effects. <i>Scripta Materialia</i> , 2006 , 54, 649-653	5.6	7
2	Dislocation emission criterion from a blunt crack tip. <i>Journal of the Mechanics and Physics of Solids</i> , 2004 , 52, 1991-2003	5	59
1	Effects of Crystal Orientation on Deformation Twinning and Dislocation Slip in Single Crystal Micro-pillars of a Twinning-Induced Plasticity Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1	2.3	2