

Mingxin Huang

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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	High dislocation density-induced large ductility in deformed and partitioned steels. <i>Science</i> , 2017 , 357, 1029-1032	33.3	454
136	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
135	Lattice Dislocations Enhancing Thermoelectric PbTe in Addition to Band Convergence. <i>Advanced Materials</i> , 2017 , 29, 1606768	24	272
134	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
133	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
132	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
131	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
130	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
129	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
128	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
127	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
126	Evolution of dislocations and twins in a strong and ductile nanotwinned steel. <i>Acta Materialia</i> , 2016 , 111, 96-107	8.4	77
125	Making ultrastrong steel tough by grain-boundary delamination. <i>Science</i> , 2020 , 368, 1347-1352	33.3	73
124	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
123	Interactions between deformation-induced defects and carbides in a vanadium-containing TWIP steel. <i>Scripta Materialia</i> , 2012 , 66, 1018-1023	5.6	68
122	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
121	Dislocation emission criterion from a blunt crack tip. <i>Journal of the Mechanics and Physics of Solids</i> , 2004 , 52, 1991-2003	5	59

120	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
119	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
118	Super-high-strength and formable medium Mn steel manufactured by warm rolling process. <i>Acta Materialia</i> , 2019 , 174, 131-141	8.4	49
117	Irreversible thermodynamics modelling of plastic deformation of metals. <i>Materials Science and Technology</i> , 2008 , 24, 495-500	1.5	49
116	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
115	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
114	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
113	A Novel Strong and Ductile TWIP/Martensite Steel Composite. <i>Advanced Engineering Materials</i> , 2016 , 18, 56-59	3.5	45
112	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
111	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
110	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
109	On the correlation among dislocation density, lath thickness and yield stress of bainite. <i>Acta Materialia</i> , 2017 , 135, 382-389	8.4	41
108	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
107	Evolution of dislocation density in bainitic steel: Modeling and experiments. <i>Acta Materialia</i> , 2018 , 149, 46-56	8.4	39
106	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
105	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
104	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
103	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

102	Deformation twinning in submicron and micron pillars of twinning-induced plasticity steel. <i>Scripta Materialia</i> , 2012 , 67, 641-644	5.6	36
101	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
100	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
99	Dislocation annihilation in plastic deformation: I. Multiscale irreversible thermodynamics. <i>Acta Materialia</i> , 2012 , 60, 2606-2614	8.4	31
98	Machine learning recommends affordable new Ti alloy with bone-like modulus. <i>Materials Today</i> , 2020 , 34, 41-50	21.8	31
97	Alloy design by dislocation engineering. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 417-420	9.1	31
96	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	3.3	27
95	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
94	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
93	Strong and ductile medium Mn steel without transformation-induced plasticity effect. <i>Materials Research Letters</i> , 2018 , 6, 365-371	7.4	26
92	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
91	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
90	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
89	On the nanoindentation behaviour of complex ferritic phases. <i>Philosophical Magazine Letters</i> , 2014 , 94, 439-446	1	23
88	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
87	Super strong nanostructured TWIP steels for automotive applications. <i>Progress in Natural Science: Materials International</i> , 2014 , 24, 50-55	3.6	21
86	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
85	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

84	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
83	Strong and ductile Mg alloys developed by dislocation engineering. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 394-395	9.1	20
82	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
81	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
80	Modelling steady state deformation of fcc metals by non-equilibrium thermodynamics. <i>Materials Science and Technology</i> , 2007 , 23, 1105-1108	1.5	19
79	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
78	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
77	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
76	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
75	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
74	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
73	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
72	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
71	Modelling the strength of ultrafine-grained and nanocrystalline fcc metals. <i>Scripta Materialia</i> , 2009 , 61, 1113-1116	5.6	15
70	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
69	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
68	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
67	Temperature dependence of strengthening mechanisms in a twinning-induced plasticity steel. <i>International Journal of Plasticity</i> , 2019 , 116, 192-202	7.6	14

66	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
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	Extraordinary Lüders-strain-rate in medium Mn steels. <i>Materialia</i> , 2019 , 6, 100288	3.2	12
63	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
62	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
61	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
60	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
59	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
58	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
57	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
56	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
55	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
54	Revealing hydrogen-induced delayed fracture in ferrite-containing quenching and partitioning steels. <i>Materialia</i> , 2018 , 4, 260-267	3.2	9
53	Microstructural evolution of a nanotwinned steel under extremely high-strain-rate deformation. <i>Acta Materialia</i> , 2018 , 149, 407-415	8.4	8
52	Ultrafine-grained dual-phase maraging steel with high strength and excellent cryogenic toughness. <i>Acta Materialia</i> , 2021 , 211, 116878	8.4	8
51	Large strain burst induced by martensitic transformation in austenitic micropillars. <i>Scripta Materialia</i> , 2017 , 137, 64-68	5.6	7
50	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
49	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

48	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
47	Revealing the Fracture Mechanism of Twinning-Induced Plasticity Steels. <i>Steel Research International</i> , 2018 , 89, 1700433	1.6	7
46	Edge dislocation dipole emission from a blunt crack tip and its morphological effects. <i>Scripta Materialia</i> , 2006 , 54, 649-653	5.6	7
45	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
44	Critical role of Lüders banding in hydrogen embrittlement susceptibility of medium Mn steels. <i>Scripta Materialia</i> , 2021 , 190, 32-37	5.6	7
43	Analytical solution for Coble creep in polycrystalline materials under biaxial loading. <i>Mechanics of Materials</i> , 2015 , 91, 290-294	3.3	6
42	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
41	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
40	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
39	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
38	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	7.3	5
37	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
36	Strengthening contributions of dislocations and twins in warm-rolled TWIP steels. <i>International Journal of Plasticity</i> , 2022 , 150, 103198	7.6	5
35	Revealing heterogeneous C partitioning in a medium Mn steel by nanoindentation. <i>Materials Science and Technology</i> , 2017 , 33, 552-558	1.5	4
34	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
33	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
32	Processing-Microstructure Relation of Deformed and Partitioned (D&P) Steels. <i>Metals</i> , 2019 , 9, 695	2.3	3
31	Predicting the evolution of dislocation density following hot deformation. <i>Philosophical Magazine Letters</i> , 2011 , 91, 387-393	1	3

30	Engineering Heterogeneous Multiphase Microstructure by Austenite Reverted Transformation Coupled with Ferrite Transformation. <i>Jom</i> , 2019 , 71, 1322-1328	2.1	3
29	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
28	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
27	Modelling the strongest grain size in nanocrystalline FCC metals. <i>Materials Letters</i> , 2011 , 65, 3128-3130	3.3	2
26	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
25	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
24	A novel stainless steel with intensive silver nanoparticles showing superior antibacterial property. <i>Materials Research Letters</i> , 2021 , 9, 270-277	7.4	2
23	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
22	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
21	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
20	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
19	Revolutionizing car body manufacturing using a unified steel metallurgy concept. <i>Science Advances</i> , 2021 , 7, eabk0176	14.3	1
18	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
17	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
16	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
15	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
14	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
13	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

12	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
11	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
10	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
9	Revealing the tempering embrittlement in a medium entropy alloy containing carbon atoms. <i>AIP Advances</i> , 2022 , 12, 015304	1.5	0
8	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
7	Anti-pathogen stainless steel combating COVID-19. <i>Chemical Engineering Journal</i> , 2021 , 433, 133783	14.7	0
6	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
5	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
4	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
3	New Constitutive Analysis of Microstructural Evolution: Hot Compression of Gamma Iron. <i>Materials Science Forum</i> , 2012 , 706-709, 2284-2289	0.4	
2	A nanometre-sized porous phase in iron-carbon-boron system. <i>Materials Letters</i> , 2010 , 64, 2559-2561	3.3	
1	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}		