

Mingxin Huang

List of Publications by Year in descending order

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140
papers

6,679
citations

71061

41
h-index

71651

76
g-index

140
all docs

140
docs citations

140
times ranked

3685
citing authors

#	ARTICLE	IF	CITATIONS
1	High dislocation density-induced large ductility in deformed and partitioned steels. <i>Science</i> , 2017, 357, 1029-1032.	6.0	729
2	The effect of morphology on the stability of retained austenite in a quenched and partitioned steel. <i>Scripta Materialia</i> , 2013, 68, 321-324.	2.6	533
3	Lattice Dislocations Enhancing Thermoelectric PbTe in Addition to Band Convergence. <i>Advanced Materials</i> , 2017, 29, 1606768.	11.1	365
4	Making ultrastrong steel tough by grain-boundary delamination. <i>Science</i> , 2020, 368, 1347-1352.	6.0	200
5	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.	3.8	169
6	Driving Force and Logic of Development of Advanced High Strength Steels for Automotive Applications. <i>Steel Research International</i> , 2013, 84, 937-947.	1.0	165
7	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.	2.6	161
8	Strain rate sensitivity and evolution of dislocations and twins in a twinning-induced plasticity steel. <i>Acta Materialia</i> , 2015, 88, 170-179.	3.8	145
9	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.	3.8	137
10	Effect of chemical composition on work hardening of Fe-Mn-C TWIP steels. <i>Materials Science and Technology</i> , 2011, 27, 707-709.	0.8	132
11	Effect of intercritical annealing on the Lüders strains of medium Mn transformation-induced plasticity steels. <i>Materials and Design</i> , 2015, 83, 42-48.	3.3	132
12	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.	4.1	125
13	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.	2.6	119
14	Evolution of dislocations and twins in a strong and ductile nanotwinned steel. <i>Acta Materialia</i> , 2016, 111, 96-107.	3.8	118
15	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.	3.8	108
16	Super-high-strength and formable medium Mn steel manufactured by warm rolling process. <i>Acta Materialia</i> , 2019, 174, 131-141.	3.8	103
17	Optimum properties of quenching and partitioning steels achieved by balancing fraction and stability of retained austenite. <i>Scripta Materialia</i> , 2018, 150, 1-6.	2.6	101
18	Modelling strength and ductility of ultrafine grained BCC and FCC alloys using irreversible thermodynamics. <i>Materials Science and Technology</i> , 2009, 25, 833-839.	0.8	97

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19	Revisit the role of deformation twins on the work-hardening behaviour of twinning-induced plasticity steels. <i>Scripta Materialia</i> , 2018, 142, 28-31.	2.6	94
20	Interactions between deformation-induced defects and carbides in a vanadium-containing TWIP steel. <i>Scripta Materialia</i> , 2012, 66, 1018-1023.	2.6	89
21	Nanoindentation investigation on the initiation of yield point phenomenon in a medium Mn steel. <i>Scripta Materialia</i> , 2018, 150, 134-138.	2.6	83
22	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.	2.6	80
23	The Role of Transformation-Induced Plasticity in the Development of Advanced High Strength Steels. <i>Advanced Engineering Materials</i> , 2018, 20, 1701083.	1.6	77
24	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.	3.8	74
25	Evolution of dislocation density in bainitic steel: Modeling and experiments. <i>Acta Materialia</i> , 2018, 149, 46-56.	3.8	70
26	Machine learning recommends affordable new Ti alloy with bone-like modulus. <i>Materials Today</i> , 2020, 34, 41-50.	8.3	67
27	Dislocation emission criterion from a blunt crack tip. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 1991-2003.	2.3	65
28	On the correlation among dislocation density, lath thickness and yield stress of bainite. <i>Acta Materialia</i> , 2017, 135, 382-389.	3.8	64
29	In-situ evaluation of $\frac{1}{4}$ ders 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.	2.6	59
30	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.	4.1	59
31	Microstructural evolution and phase transformation in twinning-induced plasticity steel induced by high-pressure torsion. <i>Acta Materialia</i> , 2016, 109, 300-313.	3.8	58
32	A constitutive model for high strain rate deformation in FCC metals based on irreversible thermodynamics. <i>Mechanics of Materials</i> , 2009, 41, 982-988.	1.7	57
33	Irreversible thermodynamics modelling of plastic deformation of metals. <i>Materials Science and Technology</i> , 2008, 24, 495-500.	0.8	56
34	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.	2.6	54
35	A Novel Strong and Ductile TWIP/Martensite Steel Composite. <i>Advanced Engineering Materials</i> , 2016, 18, 56-59.	1.6	52
36	The role of interstitial carbon atoms on the strain-hardening rate of twinning-induced plasticity steels. <i>Scripta Materialia</i> , 2020, 178, 264-268.	2.6	51

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37	Ultrafine-grained dual-phase maraging steel with high strength and excellent cryogenic toughness. <i>Acta Materialia</i> , 2021, 211, 116878.	3.8	51
38	Alloy design by dislocation engineering. <i>Journal of Materials Science and Technology</i> , 2018, 34, 417-420.	5.6	49
39	Modelling the effect of carbon on deformation behaviour of twinning induced plasticity steels. <i>Journal of Materials Science</i> , 2011, 46, 7410-7414.	1.7	48
40	Dislocation annihilation in plastic deformation: I. Multiscale irreversible thermodynamics. <i>Acta Materialia</i> , 2012, 60, 2606-2614.	3.8	44
41	Interfacial plasticity of a TiB ₂ -reinforced steel matrix composite fabricated by eutectic solidification. <i>Scripta Materialia</i> , 2015, 99, 13-16.	2.6	42
42	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.	1.1	42
43	Deformation twinning in submicron and micron pillars of twinning-induced plasticity steel. <i>Scripta Materialia</i> , 2012, 67, 641-644.	2.6	41
44	Revealing the role of dislocations on the stability of retained austenite in a tempered bainite. <i>Scripta Materialia</i> , 2019, 168, 23-27.	2.6	41
45	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.	2.6	38
46	Mechanism of saturated flow stress during hot tensile deformation of a TA15 Ti alloy. <i>Materials and Design</i> , 2015, 86, 146-151.	3.3	38
47	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.	3.8	37
48	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.	5.6	36
49	Microscopic strain partitioning in LÃ¼ders band of an ultrafine-grained medium Mn steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 761, 138050.	2.6	35
50	Strengthening contributions of dislocations and twins in warm-rolled TWIP steels. <i>International Journal of Plasticity</i> , 2022, 150, 103198.	4.1	35
51	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.	1.1	34
52	Size effect on deformation twinning in face-centred cubic single crystals: Experiments and modelling. <i>Acta Materialia</i> , 2017, 129, 1-10.	3.8	34
53	The effect of deformation twins on the quasi-cleavage crack propagation in twinning-induced plasticity steels. <i>Acta Materialia</i> , 2018, 150, 59-68.	3.8	33
54	On the nanoindentation behaviour of complex ferritic phases. <i>Philosophical Magazine Letters</i> , 2014, 94, 439-446.	0.5	31

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55	Strong and ductile Mg alloys developed by dislocation engineering. <i>Journal of Materials Science and Technology</i> , 2019, 35, 394-395.	5.6	30
56	Strong and ductile medium Mn steel without transformation-induced plasticity effect. <i>Materials Research Letters</i> , 2018, 6, 365-371.	4.1	29
57	Supper strong nanostructured TWIP steels for automotive applications. <i>Progress in Natural Science: Materials International</i> , 2014, 24, 50-55.	1.8	28
58	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.	2.3	27
59	Room-Temperature Quenching and Partitioning Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 3167-3172.	1.1	27
60	Temperature dependence of strengthening mechanisms in a twinning-induced plasticity steel. <i>International Journal of Plasticity</i> , 2019, 116, 192-202.	4.1	27
61	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.	2.6	26
62	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.	1.1	26
63	Improving the bending toughness of Al-Si coated press-hardened steel by tailoring coating thickness. <i>Scripta Materialia</i> , 2021, 192, 19-25.	2.6	26
64	Critical role of L ^{1/2} bands in hydrogen embrittlement susceptibility of medium Mn steels. <i>Scripta Materialia</i> , 2021, 190, 32-37.	2.6	24
65	Revolutionizing car body manufacturing using a unified steel metallurgy concept. <i>Science Advances</i> , 2021, 7, eabk0176.	4.7	24
66	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.	1.1	23
67	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.	3.8	23
68	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.	0.7	22
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.	1.1	22
70	Revealing hydrogen-induced delayed fracture in ferrite-containing quenching and partitioning steels. <i>Materialia</i> , 2018, 4, 260-267.	1.3	22
71	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.	1.1	22
72	Extraordinary L ^{1/2} -strain-rate in medium Mn steels. <i>Materialia</i> , 2019, 6, 100288.	1.3	21

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73	High-strength medium Mn quenching and partitioning steel with low yield ratio. <i>Materials Science and Technology</i> , 2019, 35, 2109-2114.	0.8	21
74	Enhancing yield stress and uniform elongation in an ultrathin packaging steel via controlling dislocation density. <i>International Journal of Plasticity</i> , 2022, 155, 103334.	4.1	21
75	Modelling steady state deformation of fcc metals by non-equilibrium thermodynamics. <i>Materials Science and Technology</i> , 2007, 23, 1105-1108.	0.8	20
76	Influence of co-existing medium Mn and dual phase steel microstructures on ductility and Lüders band formation. <i>Acta Materialia</i> , 2021, 221, 117418.	3.8	20
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.	1.4	19
78	Microstructural evolution of a nanotwinned steel under extremely high-strain-rate deformation. <i>Acta Materialia</i> , 2018, 149, 407-415.	3.8	19
79	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.	2.6	19
80	Critical Assessment 15: Science of deformation and failure mechanisms in twinning induced plasticity steels. <i>Materials Science and Technology</i> , 2015, 31, 1265-1270.	0.8	18
81	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.	1.1	18
82	Revealing the fatigue crack initiation mechanism of a TiB ₂ -reinforced steel matrix composite. <i>International Journal of Fatigue</i> , 2020, 130, 105276.	2.8	18
83	A novel eutectic Fe-15wt.% Ti alloy with an ultrafine lamellar structure for high temperature applications. <i>Intermetallics</i> , 2013, 35, 41-44.	1.8	17
84	Predicting the stress-strain behaviour of carbon steels under hot working conditions: An irreversible thermodynamics model. <i>Scripta Materialia</i> , 2009, 61, 648-651.	2.6	16
85	Modelling the strength of ultrafine-grained and nanocrystalline fcc metals. <i>Scripta Materialia</i> , 2009, 61, 1113-1116.	2.6	16
86	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.	1.1	16
87	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.	2.3	16
88	Revealing orientation-dependent martensitic transformation in a medium Mn steel by micropillar compression. <i>International Journal of Plasticity</i> , 2019, 123, 165-177.	4.1	16
89	Thermomechanical parametric studies on residual stresses in S355 and S690 welded H-sections. <i>Journal of Constructional Steel Research</i> , 2019, 160, 387-401.	1.7	16
90	Making composite steel higher strength and higher ductility via introducing carbon diffusion strategy. <i>Materials Research Letters</i> , 2021, 9, 391-397.	4.1	16

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91	Anti-pathogen stainless steel combating COVID-19. <i>Chemical Engineering Journal</i> , 2022, 433, 133783.	6.6	16
92	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.	2.6	15
93	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.	1.1	15
94	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.	5.6	15
95	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.	1.1	15
96	On the fatigue crack propagation mechanism of a TiB ₂ -reinforced high-modulus steel. <i>Composites Part B: Engineering</i> , 2020, 190, 107960.	5.9	14
97	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.	4.1	14
98	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.	1.4	13
99	Revealing the Fracture Mechanism of Twinning-Induced Plasticity Steels. <i>Steel Research International</i> , 2018, 89, 1700433.	1.0	13
100	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.	2.6	12
101	Abnormal relationship between Ms temperature and prior austenite grain size in Al-alloyed steels. <i>Scripta Materialia</i> , 2017, 134, 11-14.	2.6	11
102	Engineering Heterogeneous Multiphase Microstructure by Austenite Reverted Transformation Coupled with Ferrite Transformation. <i>Jom</i> , 2019, 71, 1322-1328.	0.9	11
103	A novel stainless steel with intensive silver nanoparticles showing superior antibacterial property. <i>Materials Research Letters</i> , 2021, 9, 270-277.	4.1	11
104	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.	1.4	9
105	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.	5.6	9
106	Edge dislocation dipole emission from a blunt crack tip and its morphological effects. <i>Scripta Materialia</i> , 2006, 54, 649-653.	2.6	8
107	Recrystallisation-assisted creep of an austenitic Fe-Ni alloy under low stresses after hot deformation. <i>Acta Materialia</i> , 2018, 153, 23-34.	3.8	8
108	Effect of Processing Parameters on Mechanical Properties of Deformed and Partitioned (D&P) Medium Mn Steels. <i>Metals</i> , 2021, 11, 356.	1.0	8

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109	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.	1.5	8
110	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.	2.6	8
111	Large strain burst induced by martensitic transformation in austenitic micropillars. <i>Scripta Materialia</i> , 2017, 137, 64-68.	2.6	7
112	Revealing heterogeneous C partitioning in a medium Mn steel by nanoindentation. <i>Materials Science and Technology</i> , 2017, 33, 552-558.	0.8	7
113	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.	1.1	7
114	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.	1.1	7
115	Review on Hydrogen Embrittlement of Press-hardened Steels for Automotive Applications. <i>Acta Metallurgica Sinica (English Letters)</i> , 2023, 36, 1123-1143.	1.5	7
116	Thermal instability of nanocrystalline Cu enables Cu-Cu direct bonding in interconnects at low temperature. <i>Scripta Materialia</i> , 2022, 220, 114900.	2.6	7
117	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.	0.3	6
118	Recrystallization induced plasticity in austenite and ferrite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 541, 196-198.	2.6	6
119	Martensitic Transformation in Micron-Sized Fcc Single Crystals. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 4731-4736.	1.1	6
120	Analytical solution for Coble creep in polycrystalline materials under biaxial loading. <i>Mechanics of Materials</i> , 2015, 91, 290-294.	1.7	6
121	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> , 2021, 52, 5235-5242.	1.1	6
122	Recent developments and perspectives of advanced high-strength medium Mn steel: from material design to failure mechanisms. <i>Materials Futures</i> , 2022, 1, 032001.	3.1	6
123	Processing-µMicrostructure Relation of Deformed and Partitioned (D&P) Steels. <i>Metals</i> , 2019, 9, 695.	1.0	5
124	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.	2.6	5
125	Predicting the evolution of dislocation density following hot deformation. <i>Philosophical Magazine Letters</i> , 2011, 91, 387-393.	0.5	4
126	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.	0.5	3

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127	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.	1.0	3
128	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.	1.1	3
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.	1.3	3
130	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.	2.3	3
131	Modelling the strongest grain size in nanocrystalline FCC metals. <i>Materials Letters</i> , 2011, 65, 3128-3130.	1.3	2
132	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.	1.0	2
133	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.	1.1	2
134	Strain rate sensitivity of a 1.5 ÅGPa nanotwinned steel. <i>Journal of Iron and Steel Research International</i> , 2021, 28, 1352-1356.	1.4	2
135	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.	1.1	1
136	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
137	Revealing the tempering embrittlement in a medium entropy alloy containing carbon atoms. <i>AIP Advances</i> , 2022, 12, 015304.	0.6	1
138	A nanometre-sized porous phase in iron-carbon-boron system. <i>Materials Letters</i> , 2010, 64, 2559-2561.	1.3	0
139	New Constitutive Analysis of Microstructural Evolution: Hot Compression of Gamma Iron. <i>Materials Science Forum</i> , 0, 706-709, 2284-2289.	0.3	0
140	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.	1.1	0