Yongfeng Shen

List of Publications by Year in Descending Order

62 papers	5,346 citations	23 h-index	67 g-index
67 ext. papers	6,159 ext. citations	6.1 avg, IF	5.65 L-index

#	Paper	IF	Citations
62	Improving mechanical properties and retained-austenite stability of a medium carbon Q&P steel by adjusting phase ratio. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 833, 142580	5.3	2
61	Manganese controlled transformation and twinning of the nanoscale austenite in low-carbon-medium-Mn steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 829, 142162	5.3	3
60	Nanosized precipitates activating ultrahigh strength of an ultrafine-grained ferritic steel during dynamic deformation. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 841, 143040	5.3	1
59	Acicular martensite induced superior strength-ductility combination in a 20Cr2Ni2MoV steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2022**, 143400	5.3	0
58	Multi-heterostructure and mechanical properties of N-doped FeMnCoCr high entropy alloy. *International Journal of Plasticity*, **2021**, 139, 102965	7.6	19
57	The significant impact of introducing nanosize precipitates and decreased effective grain size on retention of high toughness of simulated heat affected zone (HAZ). *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 803, 140484	5.3	8
56	Improving strength and ductility of low activation martensitic (LAM) steel by alloying with titanium and tempering. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 799, 140152	5.3	12
55	Improved work hardening of a medium carbon-TRIP steel by partial decomposition of retained austenite. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 803, 140504	5.3	8
54	High strength-superplasticity combination of ultrafine-grained ferritic steel: The significant role of nanoscale carbides. *Journal of Materials Science and Technology*, **2021**, 83, 131-144	9.1	11
53	Synergy effect of multi-strengthening mechanisms in FeMnCoCrN HEA at cryogenic temperature. *Journal of Materials Science and Technology*, **2021**, 86, 158-170	9.1	10
52	Grain refinement mechanism of Mg-3Sn-1Mn-1La alloy during accumulative hot rolling. *Journal of Materials Science and Technology*, **2021**, 91, 251-261	9.1	18
51	C and N doping in high-entropy alloys: A pathway to achieve desired strength-ductility synergy. *Applied Materials Today*, **2021**, 25, 101162	6.6	4
50	Hot-deformation induced static recrystallization and nano-MX precipitation in a low activation martensitic steel. *Journal of Nuclear Materials*, **2021**, 556, 153190	3.3	2
49	Improved Toughness of a High-Strength Low-Alloy Steel for Arctic Ship by Ni and Mo Addition. *Advanced Engineering Materials*, **2020**, 22, 1901553	3.5	7
48	The effect of strain rate on mechanical properties and microstructure of a metastable FeMnCoCr high entropy alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 776, 138982	5.3	14
47	Strengthening a fine-grained low activation martensitic steel by nanosized carbides. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 769, 138471	5.3	21
46	Development of Low-Alloy Steels with High Strength and Good Ductility with the Aid of Nanoscale Troostite. *Journal of Materials Engineering and Performance*, **2019**, 28, 1639-1649	1.6	4

45	Carbon content-tuned martensite transformation in low-alloy TRIP steels. *Scientific Reports*, **2019**, 9, 7559	4.9	10
44	Strengthening a medium-carbon steel to 2800 MPa by tailoring nanosized precipitates and the phase ratio. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 759, 725-735	5.3	5
43	Suppression of Austenite Grain Coarsening by Using Nb□Ti Microalloying in High Temperature Carburizing of a Gear Steel. *Advanced Engineering Materials*, **2019**, 21, 1900132	3.5	15
42	Micromechanical behavior of a fine-grained China low activation martensitic (CLAM) steel. *Journal of Materials Science and Technology*, **2019**, 35, 1869-1876	9.1	13
41	The significant impact of grain structure on large strain-rate sensitivity of ultrafine-grained low alloy steel under nanoscale deformation: Experimental and theoretical analysis. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 755, 138-146	5.3	7
40	Microstructure and nanoindentation hardness of shot-peened ultrafine-grained low-alloy steel. *Journal of Iron and Steel Research International*, **2019**, 26, 472-482	1.2	1
39	Cumulative contribution of grain structure and twin boundaries on cyclic deformation behavior of a 20Mn-0.6C- TWIP steel: Experimental and theoretical analysis. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 767, 138415	5.3	4
38	Tailoring Strength and Ductility of a Cr-Containing High Carbon Steel by Cold-Working and Annealing. *Materials*, **2019**, 12,	3.5	2
37	Innovative processing of obtaining nanostructured bainite with high strength - high ductility combination in low-carbon-medium-Mn steel: Process-structure-property relationship. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 718, 267-276	5.3	29
36	In situ neutron diffraction in quantifying deformation behaviors of nano-sized carbide strengthened UFG ferritic steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 726, 298-308	5.3	6
35	On the origin and contribution of extended kinks and jogs and stacking fault ribbons to deformation behavior in an ultrahigh strength cobalt-free maraging steel with high density of low lattice misfit precipitates. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 728, 208-217	5.3	7
34	A high-strength, ductile Al-0.35Sc-0.2Zr alloy with good electrical conductivity strengthened by coherent nanosized-precipitates. *Journal of Materials Science and Technology*, **2017**, 33, 215-223	9.1	66
33	Nanoscale spheroidized cementite induced ultrahigh strength-ductility combination in innovatively processed ultrafine-grained low alloy medium-carbon steel. *Scientific Reports*, **2017**, 7, 2679	4.9	19
32	Softening behavior by excessive twinning and adiabatic heating at high strain rate in a Fe□0Mn□.6C TWIP steel. *Acta Materialia*, **2016**, 103, 229-242	8.4	84
31	Suppression of twinning and phase transformation in an ultrafine grained 2 GPa strong metastable austenitic steel: Experiment and simulation. *Acta Materialia*, **2015**, 97, 305-315	8.4	60
30	Effects of retained austenite volume fraction, morphology, and carbon content on strength and ductility of nanostructured TRIP-assisted steels. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 636, 551-564	5.3	136
29	Ultrafine-grained Al□.2Sc□.1Zr alloy: The mechanistic contribution of nano-sized precipitates on grain refinement during the novel process of accumulative continuous extrusion. *Acta Materialia*, **2015**, 100, 247-255	8.4	81
28	Interplay between grain structure, deformation mechanisms and austenite stability in phase-reversion-induced nanograined/ultrafine-grained austenitic ferrous alloy. *Acta Materialia*, **2015**, 84, 339-348	8.4	112

27	High-Strength Low-Alloy Steel Strengthened by Multiply Nanoscale Microstructures **2015**, 187-193		
26	Activated dynamic strain aging of a TRIP590 Steel at 300 °C and low strain rate and relationship to structure. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 645, 333-338	5.3	5
25	Effects of Intercritical Annealing Temperature on Mechanical Properties of Fe-7.9Mn-0.14Si-0.05Al-0.07C Steel. *Materials*, **2014**, 7, 7891-7906	3.5	44
24	Deformation mechanisms of a 20Mn TWIP steel investigated by in situ neutron diffraction and TEM. *Acta Materialia*, **2013**, 61, 6093-6106	8.4	62
23	Improved ductility of a transformation-induced-plasticity steel by nanoscale austenite lamellae. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2013**, 583, 1-10	5.3	36
22	Effects of cold rolling on microstructure and mechanical properties of Fe□0Mn□Si□Al□.093C TWIP steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 561, 329-337	5.3	38
21	Twinning and martensite in a 304 austenitic stainless steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 552, 514-522	5.3	287
20	Plastic Deformation in an Amorphous Ni-P Coating. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2012**, 43, 1610-1620	2.3	14
19	A micro-alloyed ferritic steel strengthened by nanoscale precipitates. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 528, 8150-8156	5.3	53
18	On deformation twinning in a 17.5% Mn□WIP steel: A physically based phenomenological model. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 1402-1408	5.3	72
17	The Effect of Nano-precipitates on Strength in a Micro-alloyed Ferritic Steel. *Materials Research Society Symposia Proceedings*, **2011**, 1296, 1		3
16	In-Situ Neutron Diffraction Study of the Deformation Behaviour of Two High-Manganese Austenitic Steels. *Materials Science Forum*, **2011**, 681, 474-479	0.4	4
15	Nanoscratching deformation and fracture toughness of electroless Ni□ coatings. *Surface and Coatings Technology*, **2010**, 205, 632-640	4.4	21
14	Stress relaxation and the structure size-dependence of plastic deformation in nanotwinned copper. *Acta Materialia*, **2009**, 57, 5165-5173	8.4	127
13	Preparation and application of magnetic Fe3O4 nanoparticles for wastewater purification. *Separation and Purification Technology*, **2009**, 68, 312-319	8.3	407
12	Tailoring size and structural distortion of Fe3O4 nanoparticles for the purification of contaminated water. *Bioresource Technology*, **2009**, 100, 4139-46	11	124
11	Simulations of texture evolution in heavily deformed bulk nanocrystalline nickel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 493, 86-92	5.3	11
10	Tensile behaviors of IF steel with different cold-rolling reductions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 496, 383-388	5.3	16

9	Mechanical properties of nanocrystalline nickel films deposited by pulse plating. *Surface and Coatings Technology*, **2008**, 202, 5140-5145	4.4	45
8	Recovery palladium, gold and platinum from hydrochloric acid solution using 2-hydroxy-4-sec-octanoyl diphenyl-ketoxime. *Separation and Purification Technology*, **2007**, 56, 278-283	8.3	60
7	Strain rate sensitivity of Cu with nanoscale twins. *Scripta Materialia*, **2006**, 55, 319-322	5.6	111
6	Strength, strain-rate sensitivity and ductility of copper with nanoscale twins. *Acta Materialia*, **2006**, 54, 5421-5432	8.4	403
5	Tensile properties of copper with nano-scale twins. *Scripta Materialia*, **2005**, 52, 989-994	5.6	417
4	Ultrahigh strength and high electrical conductivity in copper. *Science*, **2004**, 304, 422-6	33.3	2179
3	Enhanced Mechanical Properties of a Low-Carbon Martensitic Steel by Thermally Stable Ni-Rich Austenite. *Steel Research International*,2100562	1.6	
2	Effect of Heat Treatment on Microstructures and Tensile Properties of a Fe-1.7Mn-1.3Al-0.5C Steel1395-1408		
1	Strength and Ductility of Ultrafine Grained 304SS Prepared by Accumulative Rolling and Annealing45-52		0