

Yongfeng Shen

List of Publications by Citations

Source: <https://exaly.com/author-pdf/175209/yongfeng-shen-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Ultrahigh strength and high electrical conductivity in copper. <i>Science</i> , 2004 , 304, 422-6	33.3	2179
61	Tensile properties of copper with nano-scale twins. <i>Scripta Materialia</i> , 2005 , 52, 989-994	5.6	417
60	Preparation and application of magnetic Fe ₃ O ₄ nanoparticles for wastewater purification. <i>Separation and Purification Technology</i> , 2009 , 68, 312-319	8.3	407
59	Strength, strain-rate sensitivity and ductility of copper with nanoscale twins. <i>Acta Materialia</i> , 2006 , 54, 5421-5432	8.4	403
58	Twinning and martensite in a 304 austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 552, 514-522	5.3	287
57	Effects of retained austenite volume fraction, morphology, and carbon content on strength and ductility of nanostructured TRIP-assisted steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 636, 551-564	5.3	136
56	Stress relaxation and the structure size-dependence of plastic deformation in nanotwinned copper. <i>Acta Materialia</i> , 2009 , 57, 5165-5173	8.4	127
55	Tailoring size and structural distortion of Fe ₃ O ₄ nanoparticles for the purification of contaminated water. <i>Bioresource Technology</i> , 2009 , 100, 4139-46	11	124
54	Interplay between grain structure, deformation mechanisms and austenite stability in phase-reversion-induced nanogained/ultrafine-grained austenitic ferrous alloy. <i>Acta Materialia</i> , 2015 , 84, 339-348	8.4	112
53	Strain rate sensitivity of Cu with nanoscale twins. <i>Scripta Materialia</i> , 2006 , 55, 319-322	5.6	111
52	Softening behavior by excessive twinning and adiabatic heating at high strain rate in a Fe _{0.8} Mn _{0.6} C TWIP steel. <i>Acta Materialia</i> , 2016 , 103, 229-242	8.4	84
51	Ultrafine-grained Al _{0.2} Sc _{0.1} Zr alloy: The mechanistic contribution of nano-sized precipitates on grain refinement during the novel process of accumulative continuous extrusion. <i>Acta Materialia</i> , 2015 , 100, 247-255	8.4	81
50	On deformation twinning in a 17.5% Mn TWIP steel: A physically based phenomenological model. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1402-1408	5.3	72
49	A high-strength, ductile Al-0.35Sc-0.2Zr alloy with good electrical conductivity strengthened by coherent nanosized-precipitates. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 215-223	9.1	66
48	Deformation mechanisms of a 20Mn TWIP steel investigated by in situ neutron diffraction and TEM. <i>Acta Materialia</i> , 2013 , 61, 6093-6106	8.4	62
47	Suppression of twinning and phase transformation in an ultrafine grained 2 GPa strong metastable austenitic steel: Experiment and simulation. <i>Acta Materialia</i> , 2015 , 97, 305-315	8.4	60
46	Recovery palladium, gold and platinum from hydrochloric acid solution using 2-hydroxy-4-sec-octanoyl diphenyl-ketoxime. <i>Separation and Purification Technology</i> , 2007 , 56, 278-283	8.3	60

45	A micro-alloyed ferritic steel strengthened by nanoscale precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 8150-8156	5.3	53
44	Mechanical properties of nanocrystalline nickel films deposited by pulse plating. <i>Surface and Coatings Technology</i> , 2008 , 202, 5140-5145	4.4	45
43	Effects of Intercritical Annealing Temperature on Mechanical Properties of Fe-7.9Mn-0.14Si-0.05Al-0.07C Steel. <i>Materials</i> , 2014 , 7, 7891-7906	3.5	44
42	Effects of cold rolling on microstructure and mechanical properties of Fe ₈₀ Mn ₁₀ BSi ₂ Al _{0.09} C TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 561, 329-337	5.3	38
41	Improved ductility of a transformation-induced-plasticity steel by nanoscale austenite lamellae. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 583, 1-10	5.3	36
40	Innovative processing of obtaining nanostructured bainite with high strength - high ductility combination in low-carbon-medium-Mn steel: Process-structure-property relationship. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 718, 267-271	5.3	29
39	Nanoscratching deformation and fracture toughness of electroless NiB coatings. <i>Surface and Coatings Technology</i> , 2010 , 205, 632-640	4.4	21
38	Strengthening a fine-grained low activation martensitic steel by nanosized carbides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 769, 138471	5.3	21
37	Nanoscale spheroidized cementite induced ultrahigh strength-ductility combination in innovatively processed ultrafine-grained low alloy medium-carbon steel. <i>Scientific Reports</i> , 2017 , 7, 2679	4.9	19
36	Multi-heterostructure and mechanical properties of N-doped FeMnCoCr high entropy alloy. <i>International Journal of Plasticity</i> , 2021 , 139, 102965	7.6	19
35	Grain refinement mechanism of Mg-3Sn-1Mn-1La alloy during accumulative hot rolling. <i>Journal of Materials Science and Technology</i> , 2021 , 91, 251-261	9.1	18
34	Tensile behaviors of IF steel with different cold-rolling reductions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 496, 383-388	5.3	16
33	Suppression of Austenite Grain Coarsening by Using NbTi Microalloying in High Temperature Carburizing of a Gear Steel. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900132	3.5	15
32	Plastic Deformation in an Amorphous Ni-P Coating. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 1610-1620	2.3	14
31	The effect of strain rate on mechanical properties and microstructure of a metastable FeMnCoCr high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 776, 138982	5.3	14
30	Micromechanical behavior of a fine-grained China low activation martensitic (CLAM) steel. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1869-1876	9.1	13
29	Improving strength and ductility of low activation martensitic (LAM) steel by alloying with titanium and tempering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 799, 140152	5.3	12
28	Simulations of texture evolution in heavily deformed bulk nanocrystalline nickel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 86-92	5.3	11

27	High strength-superplasticity combination of ultrafine-grained ferritic steel: The significant role of nanoscale carbides. <i>Journal of Materials Science and Technology</i> , 2021 , 83, 131-144	9.1	11
26	Carbon content-tuned martensite transformation in low-alloy TRIP steels. <i>Scientific Reports</i> , 2019 , 9, 7559	4.9	10
25	Synergy effect of multi-strengthening mechanisms in FeMnCoCrN HEA at cryogenic temperature. <i>Journal of Materials Science and Technology</i> , 2021 , 86, 158-170	9.1	10
24	The significant impact of introducing nanosize precipitates and decreased effective grain size on retention of high toughness of simulated heat affected zone (HAZ). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140484	5.3	8
23	Improved work hardening of a medium carbon-TRIP steel by partial decomposition of retained austenite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140504	5.3	8
22	The significant impact of grain structure on large strain-rate sensitivity of ultrafine-grained low alloy steel under nanoscale deformation: Experimental and theoretical analysis. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 755, 138-146	5.3	7
21	Improved Toughness of a High-Strength Low-Alloy Steel for Arctic Ship by Ni and Mo Addition. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901553	3.5	7
20	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. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 755, 138-146	5.3	7
19	In situ neutron diffraction in quantifying deformation behaviors of nano-sized carbide strengthened UFG ferritic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 726, 298-308	5.3	6
18	Strengthening a medium-carbon steel to 2800 MPa by tailoring nanosized precipitates and the phase ratio. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 759, 725-735	5.3	5
17	Activated dynamic strain aging of a TRIP590 Steel at 300 °C and low strain rate and relationship to structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 645, 333-338	5.3	5
16	Development of Low-Alloy Steels with High Strength and Good Ductility with the Aid of Nanoscale Troostite. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 1639-1649	1.6	4
15	In-Situ Neutron Diffraction Study of the Deformation Behaviour of Two High-Manganese Austenitic Steels. <i>Materials Science Forum</i> , 2011 , 681, 474-479	0.4	4
14	Cumulative contribution of grain structure and twin boundaries on cyclic deformation behavior of a 20Mn-0.6C- TWIP steel: Experimental and theoretical analysis. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 767, 138415	5.3	4
13	C and N doping in high-entropy alloys: A pathway to achieve desired strength-ductility synergy. <i>Applied Materials Today</i> , 2021 , 25, 101162	6.6	4
12	The Effect of Nano-precipitates on Strength in a Micro-alloyed Ferritic Steel. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1296, 1		3
11	Manganese controlled transformation and twinning of the nanoscale austenite in low-carbon-medium-Mn steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 829, 142162	5.3	3
10	Improving mechanical properties and retained-austenite stability of a medium carbon Q&P steel by adjusting phase ratio. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 833, 142580	5.3	2

9	Tailoring Strength and Ductility of a Cr-Containing High Carbon Steel by Cold-Working and Annealing. <i>Materials</i> , 2019 , 12,	3.5	2
8	Hot-deformation induced static recrystallization and nano-MX precipitation in a low activation martensitic steel. <i>Journal of Nuclear Materials</i> , 2021 , 556, 153190	3.3	2
7	Microstructure and nanoindentation hardness of shot-peened ultrafine-grained low-alloy steel. <i>Journal of Iron and Steel Research International</i> , 2019 , 26, 472-482	1.2	1
6	Nanosized precipitates activating ultrahigh strength of an ultrafine-grained ferritic steel during dynamic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 841, 143040	5.3	1
5	Strength and Ductility of Ultrafine Grained 304SS Prepared by Accumulative Rolling and Annealing45-52		0
4	Acicular martensite induced superior strength-ductility combination in a 20Cr2Ni2MoV steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143400	5.3	0
3	High-Strength Low-Alloy Steel Strengthened by Multiply Nanoscale Microstructures 2015 , 187-193		
2	Enhanced Mechanical Properties of a Low-Carbon Martensitic Steel by Thermally Stable Ni-Rich Austenite. <i>Steel Research International</i> ,2100562	1.6	
1	Effect of Heat Treatment on Microstructures and Tensile Properties of a Fe-1.7Mn-1.3Al-0.5C Steel1395-1408		