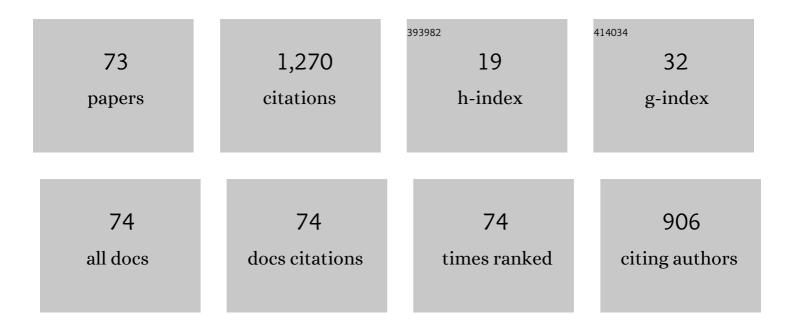
Shilei Li

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Unprecedented non-hysteretic superelasticity of [001]-oriented NiCoFeGa single crystals. Nature Materials, 2020, 19, 712-718.	13.3	95
2	Microstructure evolution and impact fracture behaviors of Z3CN20-09M stainless steels after long-term thermal aging. Journal of Nuclear Materials, 2013, 433, 41-49.	1.3	86
3	G-phase precipitation in duplex stainless steels after long-term thermal aging: A high-resolution transmission electron microscopy study. Journal of Nuclear Materials, 2014, 452, 382-388.	1.3	73
4	Annealing induced recovery of long-term thermal aging embrittlement in a duplex stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 564, 85-91.	2.6	68
5	Microstructures and mechanical properties of cast austenite stainless steels after long-term thermal aging at low temperature. Materials & Design, 2013, 50, 886-892.	5.1	66
6	Non-uniform phase separation in ferrite of a duplex stainless steel. Acta Materialia, 2017, 140, 388-397.	3.8	49
7	Local lattice distortion mediated formation of stacking faults in Mg alloys. Acta Materialia, 2019, 170, 231-239.	3.8	45
8	A novel medium-Mn steel with superior mechanical properties and marginal oxidization after press hardening. Acta Materialia, 2021, 205, 116567.	3.8	45
9	Deformation-induced martensitic transformation kinetics and correlative micromechanical behavior of medium-Mn transformation-induced plasticity steel. Journal of Materials Science and Technology, 2019, 35, 1779-1786.	5.6	41
10	Effects of ferrite content on the mechanical properties of thermal aged duplex stainless steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 625, 186-193.	2.6	37
11	Microstructural evolution in 316LN austenitic stainless steel during solidification process under different cooling rates. Journal of Materials Science, 2016, 51, 2529-2539.	1.7	36
12	Evaluation of hardening behaviors in ion-irradiated Fe–9Cr and Fe–20Cr alloys by nanoindentation technique. Journal of Nuclear Materials, 2016, 478, 50-55.	1.3	34
13	Evolution of cellular dislocation structures and defects in additively manufactured austenitic stainless steel under ion irradiation. Scripta Materialia, 2020, 178, 245-250.	2.6	33
14	Design and thermomechanical properties of a γʹ precipitate-strengthened Ni-based superalloy with high entropy γ matrix. Journal of Alloys and Compounds, 2019, 792, 550-560.	2.8	32
15	Mechanical behavior in boron-microalloyed CoCrNi medium-entropy alloy studied by in situ high-energy X-ray diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 788, 139600.	2.6	32
16	Investigations of deformation-induced δ→ ζ phase transformation in zirconium hydride by in situ high-energy X-ray diffraction. Acta Materialia, 2017, 140, 168-175.	3.8	30
17	Ensuring the strength and ductility synergy in an austenitic stainless steel: single- or multi-phase hetero-structures design. Scripta Materialia, 2021, 193, 81-85.	2.6	30
18	Enhanced creep resistance induced by minor Ti additions to a second generation nickel-based single crystal superalloy. Acta Materialia, 2022, 232, 117938.	3.8	26

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19	Strain states and unique properties in cold-rolled TiNi shape memory alloys. Acta Materialia, 2022, 231, 117890.	3.8	24
20	Effects of long-term thermal aging on the stress corrosion cracking behavior of cast austenitic stainless steels in simulated PWR primary water. Journal of Nuclear Materials, 2016, 469, 262-268.	1.3	20
21	Unveiling the origins of work-hardening enhancement and mechanical instability in laser shock peened titanium. Acta Materialia, 2022, 229, 117810.	3.8	18
22	Achieving excellent superelasticity and extraordinary elastocaloric effect in a directionally solidified Co-V-Ga alloy. Scripta Materialia, 2021, 204, 114123.	2.6	17
23	Probabilistic fracture mechanics analysis of thermally aged nuclear piping in a pressurized water reactor. Nuclear Engineering and Design, 2013, 265, 611-618.	0.8	16
24	Effects of prior solution treatment on thermal aging behavior of duplex stainless steels. Journal of Nuclear Materials, 2013, 441, 337-342.	1.3	15
25	Tensile behaviour of 316LN stainless steel at elevated temperatures. Materials at High Temperatures, 2014, 31, 198-203.	0.5	15
26	Effects of Ni content on the microstructures, mechanical properties and thermal aging embrittlement behaviors of Fe–20Cr–xNi alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 640-646.	2.6	15
27	Phase-field simulation of multi-phase interactions in Fe-C peritectic solidification. Computational Materials Science, 2020, 171, 109220.	1.4	15
28	In situ neutron diffraction study of a new type of stress-induced confined martensitic transformation in Fe22Co20Ni19Cr20Mn12Al7 high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 771, 138555.	2.6	15
29	Pitting behavior of thermally aged Z3CN20.09M cast stainless steel for primary coolant pipe of nuclear power plant. Engineering Failure Analysis, 2018, 83, 1-8.	1.8	13
30	Hydrogen embrittlement behaviors of additive manufactured maraging steel investigated by in situ high-energy X-ray diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138341.	2.6	13
31	A brittle fracture mechanism in thermally aged duplex stainless steels revealed by in situ high-energy X-ray diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 739, 264-271.	2.6	13
32	Study of Static Recrystallization Behavior of a Nitrogen-Alloyed Ultralow Carbon Austenitic Stainless Steel by Experiment and Simulation. Journal of Materials Engineering and Performance, 2015, 24, 4346-4357.	1.2	12
33	Deformation behavior of thermal aged duplex stainless steels studied by nanoindentation, EBSD and TEM. Materials at High Temperatures, 2016, 33, 15-23.	0.5	11
34	In Situ Observation of the Deformation and Fracture Behaviors of Long-Term Thermally Aged Cast Duplex Stainless Steels. Metals, 2019, 9, 258.	1.0	11
35	Enhanced cyclability of superelasticity and elastocaloric effect in Cu and B co-doped Co-Ni-Ga shape memory alloys. Journal of Alloys and Compounds, 2022, 918, 165633.	2.8	11
36	Effects of long term thermal aging on high temperature tensile deformation behaviours of duplex stainless steels. Materials at High Temperatures, 2015, 32, 524-529.	0.5	10

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37	Effect of thermal aging on the fatigue crack growth behavior of cast duplex stainless steels. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 1163-1170.	2.4	9
38	Investigation of ion irradiation hardening behaviors of tempered and long-term thermal aged T92 steel. Journal of Nuclear Materials, 2018, 511, 191-199.	1.3	9
39	Development of Intergranular Residual Stress and Its Implication to Mechanical Behaviors at Elevated Temperatures in AL6XN Austenitic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3237-3246.	1.1	8
40	In situ investigation of the deformation behaviors of Fe20Co30Cr25Ni25 and Fe20Co30Cr30Ni20 high entropy alloys by high-energy X-ray diffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 795, 139936.	2.6	8
41	Effect of thermal aging on the leak-before-break analysis of nuclear primary pipes. Nuclear Engineering and Design, 2014, 280, 493-500.	0.8	7
42	Influence of Initial Microstructures on Deformation Behavior of 316LN Austenitic Steels at 400-900°C. Journal of Materials Engineering and Performance, 2015, 24, 694-699.	1.2	7
43	Nano-Deformation Behavior of a Thermally Aged Duplex Stainless Steel Investigated by Nanoindentation, FIB and TEM. Journal of Materials Engineering and Performance, 2018, 27, 4714-4721.	1.2	7
44	Effects of thermal aging temperature and Cr content on phase separation kinetics in Fe-Cr alloys simulated by the phase field method. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 1067-1075.	2.4	6
45	Characterization of Impact Deformation Behavior of a Thermally Aged Duplex Stainless Steel by EBSD. Acta Metallurgica Sinica (English Letters), 2018, 31, 798-806.	1.5	6
46	Surface Integrity and Oxidation of a Powder Metallurgy Ni-Based Superalloy Treated by Laser Shock Peening. Jom, 2020, 72, 1803-1810.	0.9	6
47	EFFECT OF LONG TERM AGING ON THE MICROSTRUC-TURE AND MECHANICAL PROPERTIES OF CAST AUSTENITIC STAINLESS STEELS. Jinshu Xuebao/Acta Metallurgica Sinica, 2011, 46, 1186-1191.	0.3	6
48	Effects of Tempering Temperature on the Microstructure and Mechanical Properties of T92 Heat-Resistant Steel. Metals, 2019, 9, 194.	1.0	5
49	Proton irradiation induced defects in T92 steels: An investigation by TEM and positron annihilation spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2019, 442, 59-66.	0.6	5
50	Microscopic stress and crystallographic orientation of hydrides precipitated in Zr-1Nb-0.01Cu cladding tube investigated by high-energy X-ray diffraction and EBSD. Journal of Nuclear Materials, 2020, 542, 152534.	1.3	5
51	Effect of Al addition on the microstructures and deformation behaviors of non-equiatomic FeMnCoCr metastable high entropy alloys. Applied Physics Letters, 2021, 119, .	1.5	5
52	Influence of warm rolling temperature on multi-scale lamellar structure and mechanical properties of medium carbon steel. Journal of Materials Research and Technology, 2022, 18, 3739-3750.	2.6	5
53	Influence of Mo Additions on the Mechanical Properties of Cast Duplex Stainless Steels before and after Thermal Aging. Metals, 2019, 9, 295.	1.0	4
54	Formation and characterization of circular δ-hydride in Zircaloy-4 under ion irradiation. Journal of Nuclear Materials, 2019, 513, 1-7.	1.3	4

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55	External-Field-Induced Phase Transformation and Associated Properties in a Ni50Mn34Fe3In13 Metamagnetic Shape Memory Wire. Metals, 2021, 11, 309.	1.0	4
56	Micromechanical Behaviors of Fe20Co30Cr25Ni25 High Entropy Alloys with Partially and Completely Recrystallized Microstructures Investigated by In-Situ High-Energy X-ray Diffraction. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 3674-3683.	1.1	4
57	Morphology and microstructure evolution of surface hydride in zirconium alloys during hydrogen desorption process. International Journal of Hydrogen Energy, 2021, 46, 24247-24255.	3.8	4
58	Effects of long-term thermal aging on the microstructure and mechanical behaviors of 16MND5/Alloy 152 dissimilar metal weld. Journal of Materials Research and Technology, 2022, , .	2.6	4
59	Leak-before-break analysis of thermally aged nuclear pipe under different bending moments. Nuclear Engineering and Technology, 2015, 47, 712-718.	1.1	3
60	Characterization of Plastic Deformation Behavior of a Thermally Aged Duplex Stainless Steel. Journal of Materials Engineering and Performance, 2017, 26, 2814-2825.	1.2	3
61	Effects of Thermal Aging on the Low Cycle Fatigue Behaviors of Cast Duplex Stainless Steels. Metals, 2019, 9, 378.	1.0	3
62	The Application of Chemical Polishing in TEM Sample Preparation of Zirconium Alloys. Materials, 2020, 13, 1036.	1.3	3
63	Stress-induced reorientation of hydrides in Zr-1Nb-0.01Cu cladding tube studied by synchrotron X-ray diffraction and EBSD. Journal of Nuclear Materials, 2022, 558, 153374.	1.3	3
64	Ultra-wide-temperature-range superelasticity and intrinsic two-way shape memory effect in Co–Ni–Ga microwires. Applied Physics Letters, 2022, 120, 151903.	1.5	2
65	Multifunctional properties in both three and one-dimensional polycrystalline Cu-doped Co–Ni-Ga shape memory alloys. Journal of Materials Research and Technology, 2022, 19, 617-627.	2.6	2
66	The characterization of FIB-induced ζ-hydride in pure zirconium by HRTEM. Materials Letters, 2022, 320, 132338.	1.3	1
67	Thermal Aging of Primary Circuit Piping Materials in PWR Nuclear Power Plant. Materials Research Society Symposia Proceedings, 2009, 1215, 1.	0.1	0
68	Hot Tensile Deformation and Fracture Behavior of a Nitrogen Alloyed Ultralow Carbon Austenitic Stainless Steel. Materials Transactions, 2015, 56, 1984-1991.	0.4	0
69	Effect of Thermal Aging on Microstructural Evolution in Ferrite of Duplex Stainless Steel in Nuclear Power Plant Applications. Materials Science Forum, 0, 898, 818-825.	0.3	0
70	Micromechanical behaviors related to confined deformation in pure titanium. MATEC Web of Conferences, 2020, 321, 12018.	0.1	0
71	Achieving Excellent Superelasticity and Extraordinary Elastocaloric Effect in a Directionally Solidified Co-V-Ga Alloy. SSRN Electronic Journal, 0, , .	0.4	0
72	THE MICROSTRUCTURE AND TENSILE FRACTURE BEHAVIOR OF LONG TERM THERMAL AGED Z3CN20-09M STAINLESS STEEL. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 49, 175.	0.3	0

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73	Study on LBB Behavior of Nuclear Primary Pipes After Long-Term Thermal Aging. , 2014, , 501-508.		Ο