Shilei Li

List of Publications by Year
in descending order

73	1,270	393982	414034
papers	citations	19 h-index	32 g-index

74	74	74	906
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Unveiling the origins of work-hardening enhancement and mechanical instability in laser shock peened titanium. Acta Materialia, 2022, 229, 117810.	3.8	18
3	Strain states and unique properties in cold-rolled TiNi shape memory alloys. Acta Materialia, 2022, 231, 117890.	3.8	24
4	Ultra-wide-temperature-range superelasticity and intrinsic two-way shape memory effect in Coâ€“Niâ€“Ga microwires. Applied Physics Letters, 2022, 120, 151903.	1.5	2
5	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
6	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
7	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
8	The characterization of FIB-induced î¶-hydride in pure zirconium by HRTEM. Materials Letters, 2022, 320, 132338.	1.3	1
9	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
10	Multifunctional properties in both three and one-dimensional polycrystalline Cu-doped Coâ€“Ni-Ga shape memory alloys. Journal of Materials Research and Technology, 2022, 19, 617-627.	2.6	2
11	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
12	A novel medium-Mn steel with superior mechanical properties and marginal oxidization after press hardening. Acta Materialia, 2021, 205, 116567.	3.8	45
13	External-Field-Induced Phase Transformation and Associated Properties in a Ni50Mn34Fe3In13 Metamagnetic Shape Memory Wire. Metals, 2021, 11, 309.	1.0	4
14	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
15	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
16	Achieving excellent superelasticity and extraordinary elastocaloric effect in a directionally solidified Co-V-Ga alloy. Scripta Materialia, 2021, 204, 114123.	2.6	17
17	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
18	Phase-field simulation of multi-phase interactions in Fe-C peritectic solidification. Computational Materials Science, 2020, 171, 109220.	1.4	15

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19	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
20	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
21	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
22	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
23	Micromechanical behaviors related to confined deformation in pure titanium. MATEC Web of Conferences, 2020, 321, 12018.	0.1	0
24	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
25	Unprecedented non-hysteretic superelasticity of [001]-oriented NiCoFeGa single crystals. Nature Materials, 2020, 19, 712-718.	13.3	95
26	The Application of Chemical Polishing in TEM Sample Preparation of Zirconium Alloys. Materials, 2020, 13, 1036.	1.3	3
27	Surface Integrity and Oxidation of a Powder Metallurgy Ni-Based Superalloy Treated by Laser Shock Peening. Jom, 2020, 72, 1803-1810.	0.9	6
28	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
29	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
30	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
31	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
32	Effects of Tempering Temperature on the Microstructure and Mechanical Properties of T92 Heat-Resistant Steel. Metals, 2019, 9, 194.	1.0	5
33	Effects of Thermal Aging on the Low Cycle Fatigue Behaviors of Cast Duplex Stainless Steels. Metals, 2019, 9, 378.	1.0	3
34	Local lattice distortion mediated formation of stacking faults in Mg alloys. Acta Materialia, 2019, 170, 231-239.	3.8	45
35	Design and thermomechanical properties of a Î³Ê¹ precipitate-strengthened Ni-based superalloy with high entropy Î³ matrix. Journal of Alloys and Compounds, 2019, 792, 550-560.	2.8	32
36	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

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37	Formation and characterization of circular Î´-hydride in Zircaloy-4 under ion irradiation. Journal of Nuclear Materials, 2019, 513, 1-7.	1.3	4
38	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
39	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
40	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
41	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
42	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
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	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
45	Investigations of deformation-induced Î´ â†' Î¶ phase transformation in zirconium hydride by in situ high-energy X-ray diffraction. Acta Materialia, 2017, 140, 168-175.	3.8	30
46	Non-uniform phase separation in ferrite of a duplex stainless steel. Acta Materialia, 2017, 140, 388-397.	3.8	49
47	Evaluation of hardening behaviors in ion-irradiated Feâ€“9Cr and Feâ€“20Cr alloys by nanoindentation technique. Journal of Nuclear Materials, 2016, 478, 50-55.	1.3	34
48	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
49	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
50	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
51	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
52	Hot Tensile Deformation and Fracture Behavior of a Nitrogen Alloyed Ultralow Carbon Austenitic Stainless Steel. Materials Transactions, 2015, 56, 1984-1991.	0.4	0
53	Leak-before-break analysis of thermally aged nuclear pipe under different bending moments. Nuclear Engineering and Technology, 2015, 47, 712-718.	1.1	3
54	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

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55	Effects of Ni content on the microstructures, mechanical properties and thermal aging embrittlement behaviors of Feâ€“20Crâ€“xNi alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 640-646.	2.6	15
56	Influence of Initial Microstructures on Deformation Behavior of 316LN Austenitic Steels at 400-900ÂÂ°C. Journal of Materials Engineering and Performance, 2015, 24, 694-699.	1.2	7
57	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
58	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
59	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
60	Tensile behaviour of 316LN stainless steel at elevated temperatures. Materials at High Temperatures, 2014, 31, 198-203.	0.5	15
61	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
62	Study on LBB Behavior of Nuclear Primary Pipes After Long-Term Thermal Aging. , 2014, , 501-508.		0
63	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
64	Effects of prior solution treatment on thermal aging behavior of duplex stainless steels. Journal of Nuclear Materials, 2013, 441, 337-342.	1.3	15
65	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
66	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
67	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
68	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
69	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
70	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
71	Thermal Aging of Primary Circuit Piping Materials in PWR Nuclear Power Plant. Materials Research Society Symposia Proceedings, 2009, 1215, 1.	0.1	0
72	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

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73	Achieving Excellent Superelasticity and Extraordinary Elastocaloric Effect in a Directionally Solidified Co-V-Ga Alloy. SSRN Electronic Journal, 0, , .	0.4	0