Jin Li

List of Publications by Year
in descending order

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Version: 2024-02-01

50	1,591	304743	315739
papers	citations	22 h-index	38 g-index

50	50	50	1177
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Radiation damage in nanostructured materials. Progress in Materials Science, 2018, 96, 217-321.	32.8	307
2	Ultrastrong nanocrystalline steel with exceptional thermal stability and radiation tolerance. Nature Communications, 2018, 9, 5389.	12.8	88
3	High temperature deformability of ductile flash-sintered ceramics via in-situ compression. Nature Communications, 2018, 9, 2063.	12.8	87
4	Nanoscale stacking faultâ€“assisted room temperature plasticity in flash-sintered TiO ₂. Science Advances, 2019, 5, eaaw5519.	10.3	82
5	Mechanical behavior of structurally gradient nickel alloy. Acta Materialia, 2018, 149, 57-67.	7.9	70
6	Tailoring the strength and ductility of T91 steel by partial tempering treatment. Acta Materialia, 2019, 169, 209-224.	7.9	59
7	Comparison of size dependent strengthening mechanisms in Ag/Fe and Ag/Ni multilayers. Acta Materialia, 2016, 114, 154-163.	7.9	56
8	Size dependent strengthening in high strength nanotwinned Al/Ti multilayers. Acta Materialia, 2019, 175, 466-476.	7.9	56
9	Helium irradiation induced ultra-high strength nanotwinned Cu with nanovoids. Acta Materialia, 2019, 177, 107-120.	7.9	38
10	The influence of stacking faults on mechanical behavior of advanced materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 803, 140696.	5.6	38
11	In situ heavy ion irradiation studies of nanopore shrinkage and enhanced radiation tolerance of nanoporous Au. Scientific Reports, 2017, 7, 39484.	3.3	37
12	Thick grain boundary induced strengthening in nanocrystalline Ni alloy. Nanoscale, 2019, 11, 23449-23458.	5.6	34
13	He ion irradiation response of a gradient T91 steel. Acta Materialia, 2020, 196, 175-190.	7.9	33
14	Ultra-strong nanotwinned Alâ€“Ni solid solution alloys with significant plasticity. Nanoscale, 2018, 10, 22025-22034.	5.6	30
15	Characterization of precipitation in gradient Inconel 718 superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140718.	5.6	30
16	Superior twin stability and radiation resistance of nanotwinned Ag solid solution alloy. Acta Materialia, 2018, 151, 395-405.	7.9	27
17	In situ studies on irradiation resistance of nanoporous Au through temperature-jump tests. Acta Materialia, 2018, 143, 30-42.	7.9	27
18	9R phase enabled superior radiation stability of nanotwinned Cu alloys via in situ radiation at elevated temperature. Acta Materialia, 2019, 167, 248-256.	7.9	27

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19	Response of solidification cellular structures in additively manufactured 316 stainless steel to heavy ion irradiation: anin situstudy. Materials Research Letters, 2019, 7, 290-297.	8.7	26
20	Study of deformation mechanisms in flash-sintered yttria-stabilized zirconia by in-situ micromechanical testing at elevated temperatures. Materials Research Letters, 2019, 7, 194-202.	8.7	25
21	Deformation behavior and phase transformation of nanotwinned Al/Ti multilayers. Applied Surface Science, 2020, 527, 146776.	6.1	25
22	â€œDuctileâ€•Fracture of Metallic Glass Nanolaminates. Advanced Materials Interfaces, 2017, 4, 1700510.	3.7	24
23	Ultra-high strength and plasticity mediated by partial dislocations and defect networks: Part I: Texture effect. Acta Materialia, 2020, 185, 181-192.	7.9	24
24	In Situ Studies on the Irradiation-Induced Twin Boundary-Defect Interactions in Cu. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5172-5180.	2.2	21
25	Temperature effect on mechanical response of flash-sintered ZnO by in-situ compression tests. Acta Materialia, 2020, 200, 699-709.	7.9	21
26	Tailoring the thermal stability of nanocrystalline Ni alloy by thick grain boundaries. Scripta Materialia, 2020, 182, 21-26.	5.2	20
27	Comparison of temperature dependent deformation mechanisms of 8YSZ thermal barrier coatings prepared by air-plasma-spray and D-gun thermal spray: An in situ study. Journal of the European Ceramic Society, 2019, 39, 3120-3128.	5.7	18
28	Tailoring plasticity of metallic glasses via interfaces in Cu/amorphous CuNb laminates. Journal of Materials Research, 2017, 32, 2680-2689.	2.6	17
29	In Situ Studies on Twin-Thickness-Dependent Distribution of Defect Clusters in Heavy Ion-Irradiated Nanotwinned Ag. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 1466-1473.	2.2	17
30	In situ study on enhanced heavy ion irradiation tolerance of porous Mg. Scripta Materialia, 2018, 144, 13-17.	5.2	17
31	Microstructure and tensile behavior of nanostructured gradient TWIP steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 785, 139346.	5.6	17
32	Frequency and Time Dependent Microwave Assisted Switching Behaviors of Co/Pt Nanodots. Applied Physics Express, 2012, 5, 043001.	2.4	15
33	In situ study on surface roughening in radiation-resistant Ag nanowires. Nanotechnology, 2018, 29, 215708.	2.6	14
34	A Review on the Radiation Response of Nanoporous Metallic Materials. Jom, 2018, 70, 2753-2764.	1.9	14
35	In-situ high temperature micromechanical testing of ultrafine grained yttria-stabilized zirconia processed by spark plasma sintering. Acta Materialia, 2018, 155, 128-137.	7.9	14
36	An in situ study on Kr ionâ€“irradiated crystalline Cu/amorphous-CuNb nanolaminates. Journal of Materials Research, 2019, 34, 2218-2228.	2.6	14

#	Article	IF	Citations
37	In-situ studies on the mechanical properties of He ion irradiated nanotwinned Ag. Journal of Nuclear Materials, 2020, 540, 152392.	2.7	14
38	Enhanced defect annihilation capability of the graphene/copper interface: An in situ study. Scripta Materialia, 2021, 203, 114001.	5.2	14
39	Effects of electric field on microstructure evolution and defect formation in flash-sintered TiO2. Journal of the European Ceramic Society, 2022, 42, 6040-6047.	5.7	14
40	Dual Beam In Situ Radiation Studies of Nanocrystalline Cu. Materials, 2019, 12, 2721.	2.9	13
41	Defect evolution in heavy ion irradiated nanotwinned Cu with nanovoids. Journal of Nuclear Materials, 2017, 496, 293-300.	2.7	12
42	Radiation induced nanovoid shrinkage in Cu at room temperature: An in situ study. Scripta Materialia, 2019, 166, 112-116.	5.2	11
43	Title is missing!. Journal of Materials Science, 1997, 32, 3463-3468.	3.7	10
44	Recent Studies on Void Shrinkage in Metallic Materials Subjected to In Situ Heavy Ion Irradiations. Jom, 2020, 72, 4008-4016.	1.9	8
45	Ultra-high strength and plasticity mediated by partial dislocations and defect networks: Part II: Layer thickness effect. Acta Materialia, 2021, 204, 116494.	7.9	7
46	Poly(N-phenyl-2-hydroxytrimethylene amine): Its blends with poly(?-caprolactone) and water-soluble polyethers. Journal of Polymer Science Part A, 1997, 35, 211-218.	2.3	6
47	Thermal Stability of Nanocrystalline Gradient Inconel 718 Alloy. Crystals, 2021, 11, 53.	2.2	5
48	Recent Studies on the Fabrication of Multilayer Films by Magnetron Sputtering and Their Irradiation Behaviors. Coatings, 2021, 11, 1468.	2.6	5
49	Extrinsic size dependent plastic deformability of ZnS micropillars. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 792, 139706.	5.6	2
50	Nanostructured Materials under Extreme Environments. Jom, 2020, 72, 3993-3994.	1.9	1