

Qiang Li

List of Publications by Year in descending order

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62
papers

1,945
citations

218381

26
h-index

264894

42
g-index

63
all docs

63
docs citations

63
times ranked

2191
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving strong and stable nanocrystalline Al alloys through compositional design. <i>Journal of Materials Research</i> , 2022, 37, 183-207.	1.2	5
2	Tailoring the formation of twins in Al by introducing epitaxial layer interfaces. <i>Scripta Materialia</i> , 2021, 192, 1-6.	2.6	10
3	High-strength and tunable plasticity in sputtered Al-Cr alloys with multistage phase transformations. <i>International Journal of Plasticity</i> , 2021, 137, 102915.	4.1	9
4	Ultra-high strength and plasticity mediated by partial dislocations and defect networks: Part II: Layer thickness effect. <i>Acta Materialia</i> , 2021, 204, 116494.	3.8	7
5	Microstructural evolution of nanotwinned Al-Zr alloy with significant 9R phase. <i>Materials Research Letters</i> , 2021, 9, 91-98.	4.1	16
6	First-principles calculations for understanding microstructures and mechanical properties of co-sputtered Al alloys. <i>Nanoscale</i> , 2021, 13, 14987-15001.	2.8	11
7	High-strength nanocrystalline intermetallics with room temperature deformability enabled by nanometer thick grain boundaries. <i>Science Advances</i> , 2021, 7, .	4.7	13
8	Epitaxial nanotwinned metals and alloys: synthesis-twin structure-property relations. <i>CrystEngComm</i> , 2021, 23, 6637-6649.	1.3	5
9	Hierarchical nanotwins in single-crystal-like nickel with high strength and corrosion resistance produced via a hybrid technique. <i>Nanoscale</i> , 2020, 12, 1356-1365.	2.8	27
10	Ultra-high strength and plasticity mediated by partial dislocations and defect networks: Part I: Texture effect. <i>Acta Materialia</i> , 2020, 185, 181-192.	3.8	24
11	Coupled solute effects enable anomalous high-temperature strength and stability in nanotwinned Al alloys. <i>Acta Materialia</i> , 2020, 200, 378-388.	3.8	19
12	Design of super-strong and thermally stable nanotwinned Al alloys via solute synergy. <i>Nanoscale</i> , 2020, 12, 20491-20505.	2.8	12
13	Strong and plastic metallic composites with nanolayered architectures. <i>Acta Materialia</i> , 2020, 195, 240-251.	3.8	31
14	Deformation behavior and phase transformation of nanotwinned Al/Ti multilayers. <i>Applied Surface Science</i> , 2020, 527, 146776.	3.1	25
15	Plastic anisotropy and tension-compression asymmetry in nanotwinned Al-Fe alloys: An in-situ micromechanical investigation. <i>International Journal of Plasticity</i> , 2020, 132, 102760.	4.1	21
16	Thermal stability and deformability of annealed nanotwinned Al/Ti multilayers. <i>Scripta Materialia</i> , 2020, 186, 219-224.	2.6	24
17	Extrinsic size dependent plastic deformability of ZnS micropillars. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139706.	2.6	2
18	Realization of ODS-Cu/T91 Tube-to-tube Joining with Rotary Friction Welding. <i>Fusion Engineering and Design</i> , 2020, 158, 111699.	1.0	4

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19	Role of Interlayer in 3D Vertically Aligned Nanocomposite Frameworks with Tunable Magnetotransport Properties. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901990.	1.9	7
20	Phase transformation induced plasticity in high-strength hexagonal close packed Co with stacking faults. <i>Scripta Materialia</i> , 2019, 173, 32-36.	2.6	23
21	Helium irradiation induced ultra-high strength nanotwinned Cu with nanovoids. <i>Acta Materialia</i> , 2019, 177, 107-120.	3.8	38
22	High strength, deformable nanotwinned Al-Co alloys. <i>Materials Research Letters</i> , 2019, 7, 33-39.	4.1	32
23	Strain and property tuning of the 3D framed epitaxial nanocomposite thin films via interlayer thickness variation. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	16
24	Strategies to tailor serrated flows in metallic glasses. <i>Journal of Materials Research</i> , 2019, 34, 1595-1607.	1.2	7
25	Strain-driven nanodumbbell structure and enhanced physical properties in hybrid vertically aligned nanocomposite thin films. <i>Applied Materials Today</i> , 2019, 16, 204-212.	2.3	30
26	Size dependent strengthening in high strength nanotwinned Al/Ti multilayers. <i>Acta Materialia</i> , 2019, 175, 466-476.	3.8	56
27	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. <i>Advanced Materials</i> , 2019, 31, e1902492.	11.1	75
28	Tailoring the strength and ductility of T91 steel by partial tempering treatment. <i>Acta Materialia</i> , 2019, 169, 209-224.	3.8	59
29	Study of deformation mechanisms in flash-sintered yttria-stabilized zirconia by <i>in-situ</i> micromechanical testing at elevated temperatures. <i>Materials Research Letters</i> , 2019, 7, 194-202.	4.1	25
30	Thick grain boundary induced strengthening in nanocrystalline Ni alloy. <i>Nanoscale</i> , 2019, 11, 23449-23458.	2.8	34
31	High temperature thermal and mechanical stability of high-strength nanotwinned Al alloys. <i>Acta Materialia</i> , 2019, 165, 142-152.	3.8	45
32	Key microstructural characteristics in flash sintered 3YSZ critical for enhanced sintering process. <i>Ceramics International</i> , 2019, 45, 1251-1257.	2.3	24
33	Tailoring strength and plasticity of Ag/Nb nanolaminates via intrinsic microstructure and extrinsic dimension. <i>International Journal of Plasticity</i> , 2019, 113, 145-157.	4.1	32
34	<i>In situ</i> study on surface roughening in radiation-resistant Ag nanowires. <i>Nanotechnology</i> , 2018, 29, 215708.	1.3	14
35	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. <i>Materials Horizons</i> , 2018, 5, 536-544.	6.4	57
36	Mechanical behavior of structurally gradient nickel alloy. <i>Acta Materialia</i> , 2018, 149, 57-67.	3.8	70

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37	Microstructure and mechanical behavior of nanotwinned AlTi alloys with 9R phase. Scripta Materialia, 2018, 148, 5-9.	2.6	48
38	High-strength Nanotwinned Al Alloys with 9R Phase. Advanced Materials, 2018, 30, 1704629.	11.1	93
39	Enhanced Mechanical and Biological Performance of an Extremely Fine Nanograined 316L Stainless Steel Cell-Substrate Interface Fabricated by Ultrasonic Shot Peening. ACS Biomaterials Science and Engineering, 2018, 4, 1609-1621.	2.6	12
40	In situ studies on irradiation resistance of nanoporous Au through temperature-jump tests. Acta Materialia, 2018, 143, 30-42.	3.8	27
41	Texture-directed twin formation propensity in Al with high stacking fault energy. Acta Materialia, 2018, 144, 226-234.	3.8	36
42	Ultra-strong nanotwinned Al-Ni solid solution alloys with significant plasticity. Nanoscale, 2018, 10, 22025-22034.	2.8	30
43	Strengthening mechanisms and deformability of nanotwinned AlMg alloys. Journal of Materials Research, 2018, 33, 3739-3749.	1.2	15
44	High temperature deformability of ductile flash-sintered ceramics via in-situ compression. Nature Communications, 2018, 9, 2063.	5.8	87
45	Deformation mechanisms in FCC Co dominated by high-density stacking faults. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 736, 12-21.	2.6	27
46	In-situ high temperature micromechanical testing of ultrafine grained yttria-stabilized zirconia processed by spark plasma sintering. Acta Materialia, 2018, 155, 128-137.	3.8	14
47	Ultrastrong nanocrystalline stainless steel and its Hall-Petch relationship in the nanoscale. Scripta Materialia, 2018, 155, 26-31.	2.6	72
48	Tailoring plasticity of metallic glasses via interfaces in Cu/amorphous CuNb laminates. Journal of Materials Research, 2017, 32, 2680-2689.	1.2	17
49	“Ductile” Fracture of Metallic Glass Nanolaminates. Advanced Materials Interfaces, 2017, 4, 1700510.	1.9	24
50	High-velocity projectile impact induced 9R phase in ultrafine-grained aluminium. Nature Communications, 2017, 8, 1653.	5.8	66
51	In situ heavy ion irradiation studies of nanopore shrinkage and enhanced radiation tolerance of nanoporous Au. Scientific Reports, 2017, 7, 39484.	1.6	37
52	Synchronous exfoliation and assembly of graphene on 3D Ni(OH) ₂ for supercapacitors. Chemical Communications, 2016, 52, 13373-13376.	2.2	25
53	Dependence of Photoelectrochemical Properties on Geometry Factors of Interconnected “Caterpillar-like” ZnO Networks. Electrochimica Acta, 2016, 222, 232-245.	2.6	15
54	TiO ₂ Fibers: Tunable Polymorphic Phase Transformation and Electrochemical Properties. Journal of Nanoscience and Nanotechnology, 2015, 15, 3750-3756.	0.9	3

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55	Understanding the Influence of Polypyrrole Coating over V ₂ O ₅ Nanofibers on Electrochemical Properties. <i>Electrochimica Acta</i> , 2015, 174, 563-573.	2.6	40
56	Mixed-valent VO _x /polymer nanohybrid fibers for flexible energy storage materials. <i>Ceramics International</i> , 2014, 40, 5073-5077.	2.3	13
57	Morphology-tunable synthesis of ZnO nanoforest and its photoelectrochemical performance. <i>Nanoscale</i> , 2014, 6, 8769-8780.	2.8	141
58	Facile and Scalable Synthesis of "Caterpillar-like" ZnO Nanostructures with Enhanced Photoelectrochemical Water-Splitting Effect. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13467-13475.	1.5	54
59	Asymmetric supercapacitors with dominant pseudocapacitance based on manganese oxide nanoflowers in a neutral aqueous electrolyte. <i>RSC Advances</i> , 2013, 3, 24886.	1.7	9
60	Hierarchical nitrogen and cobalt co-doped TiO ₂ prepared by an interface-controlled self-aggregation process. <i>Journal of Alloys and Compounds</i> , 2013, 575, 128-136.	2.8	16
61	Three-dimensional ZnO@MnO ₂ core@shell nanostructures for electrochemical energy storage. <i>Chemical Communications</i> , 2013, 49, 4456.	2.2	113
62	Anisotropic Mechanical Properties of 2-D Materials. , 0, , .		0