

Qiang Li

List of Publications by Year in Descending Order

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Version: 2024-04-19

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

61
papers

1,251
citations

20
h-index

33
g-index

63
ext. papers

1,595
ext. citations

7.1
avg, IF

4.67
L-index

#	Paper	IF	Citations
61	High-strength nanocrystalline intermetallics with room temperature deformability enabled by nanometer thick grain boundaries. <i>Science Advances</i> , 2021 , 7,	14.3	2
60	Tailoring the formation of twins in Al by introducing epitaxial layer interfaces. <i>Scripta Materialia</i> , 2021 , 192, 1-6	5.6	3
59	High-strength and tunable plasticity in sputtered Al ₇₀ Ti ₃₀ alloys with multistage phase transformations. <i>International Journal of Plasticity</i> , 2021 , 137, 102915	7.6	4
58	Ultra-high strength and plasticity mediated by partial dislocations and defect networks: Part II: Layer thickness effect. <i>Acta Materialia</i> , 2021 , 204, 116494	8.4	2
57	Microstructural evolution of nanotwinned Al-Zr alloy with significant 9R phase. <i>Materials Research Letters</i> , 2021 , 9, 91-98	7.4	5
56	First-principles calculations for understanding microstructures and mechanical properties of co-sputtered Al alloys. <i>Nanoscale</i> , 2021 , 13, 14987-15001	7.7	3
55	Strong and plastic metallic composites with nanolayered architectures. <i>Acta Materialia</i> , 2020 , 195, 240-284	11.4	13
54	Deformation behavior and phase transformation of nanotwinned Al/Ti multilayers. <i>Applied Surface Science</i> , 2020 , 527, 146776	6.7	9
53	Plastic anisotropy and tension-compression asymmetry in nanotwinned AlBe alloys: An in-situ micromechanical investigation. <i>International Journal of Plasticity</i> , 2020 , 132, 102760	7.6	12
52	Thermal stability and deformability of annealed nanotwinned Al/Ti multilayers. <i>Scripta Materialia</i> , 2020 , 186, 219-224	5.6	8
51	Extrinsic size dependent plastic deformability of ZnS micropillars. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139706	5.3	1
50	Realization of ODS-Cu/T91 Tube-to-tube Joining with Rotary Friction Welding. <i>Fusion Engineering and Design</i> , 2020 , 158, 111699	1.7	1
49	Role of Interlayer in 3D Vertically Aligned Nanocomposite Frameworks with Tunable Magnetotransport Properties. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901990	4.6	6
48	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	7.7	15
47	Ultra-high strength and plasticity mediated by partial dislocations and defect networks: Part I: Texture effect. <i>Acta Materialia</i> , 2020 , 185, 181-192	8.4	15
46	Coupled solute effects enable anomalous high-temperature strength and stability in nanotwinned Al alloys. <i>Acta Materialia</i> , 2020 , 200, 378-388	8.4	8
45	Design of super-strong and thermally stable nanotwinned Al alloys solute synergy. <i>Nanoscale</i> , 2020 , 12, 20491-20505	7.7	5

44	High strength, deformable nanotwinned Al ₉₀ Co alloys. <i>Materials Research Letters</i> , 2019 , 7, 33-39	7.4	22
43	Strain and property tuning of the 3D framed epitaxial nanocomposite thin films via interlayer thickness variation. <i>Journal of Applied Physics</i> , 2019 , 125, 082530	2.5	13
42	Strategies to tailor serrated flows in metallic glasses. <i>Journal of Materials Research</i> , 2019 , 34, 1595-1607	2.5	5
41	Strain-driven nanodumbbell structure and enhanced physical properties in hybrid vertically aligned nanocomposite thin films. <i>Applied Materials Today</i> , 2019 , 16, 204-212	6.6	17
40	Size dependent strengthening in high strength nanotwinned Al/Ti multilayers. <i>Acta Materialia</i> , 2019 , 175, 466-476	8.4	26
39	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. <i>Advanced Materials</i> , 2019 , 31, e1902492	24	48
38	Tailoring the strength and ductility of T91 steel by partial tempering treatment. <i>Acta Materialia</i> , 2019 , 169, 209-224	8.4	29
37	Study of deformation mechanisms in flash-sintered yttria-stabilized zirconia by in-situ micromechanical testing at elevated temperatures. <i>Materials Research Letters</i> , 2019 , 7, 194-202	7.4	12
36	Phase transformation induced plasticity in high-strength hexagonal close packed Co with stacking faults. <i>Scripta Materialia</i> , 2019 , 173, 32-36	5.6	15
35	Helium irradiation induced ultra-high strength nanotwinned Cu with nanovoids. <i>Acta Materialia</i> , 2019 , 177, 107-120	8.4	18
34	Thick grain boundary induced strengthening in nanocrystalline Ni alloy. <i>Nanoscale</i> , 2019 , 11, 23449-23458	7.7	10
33	High temperature thermal and mechanical stability of high-strength nanotwinned Al alloys. <i>Acta Materialia</i> , 2019 , 165, 142-152	8.4	25
32	Key microstructural characteristics in flash sintered 3YSZ critical for enhanced sintering process. <i>Ceramics International</i> , 2019 , 45, 1251-1257	5.1	20
31	Tailoring strength and plasticity of Ag/Nb nanolaminates via intrinsic microstructure and extrinsic dimension. <i>International Journal of Plasticity</i> , 2019 , 113, 145-157	7.6	23
30	In situ study on surface roughening in radiation-resistant Ag nanowires. <i>Nanotechnology</i> , 2018 , 29, 215708	7.4	13
29	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. <i>Materials Horizons</i> , 2018 , 5, 536-544	14.4	44
28	Mechanical behavior of structurally gradient nickel alloy. <i>Acta Materialia</i> , 2018 , 149, 57-67	8.4	44
27	Microstructure and mechanical behavior of nanotwinned AlTi alloys with 9R phase. <i>Scripta Materialia</i> , 2018 , 148, 5-9	5.6	31

26	High-Strength Nanotwinned Al Alloys with 9R Phase. <i>Advanced Materials</i> , 2018 , 30, 1704629	24	60
25	Enhanced Mechanical and Biological Performance of an Extremely Fine Nanograined 316L Stainless Steel Cell-Substrate Interface Fabricated by Ultrasonic Shot Peening. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1609-1621	5.5	11
24	In situ studies on irradiation resistance of nanoporous Au through temperature-jump tests. <i>Acta Materialia</i> , 2018 , 143, 30-42	8.4	20
23	Deformation mechanisms in FCC Co dominated by high-density stacking faults. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 736, 12-21	5.3	17
22	In-situ high temperature micromechanical testing of ultrafine grained yttria-stabilized zirconia processed by spark plasma sintering. <i>Acta Materialia</i> , 2018 , 155, 128-137	8.4	11
21	Ultrastrong nanocrystalline stainless steel and its Hall-Petch relationship in the nanoscale. <i>Scripta Materialia</i> , 2018 , 155, 26-31	5.6	33
20	Texture-directed twin formation propensity in Al with high stacking fault energy. <i>Acta Materialia</i> , 2018 , 144, 226-234	8.4	22
19	Ultra-strong nanotwinned Al-Ni solid solution alloys with significant plasticity. <i>Nanoscale</i> , 2018 , 10, 22025-22034	7.7	39
18	Strengthening mechanisms and deformability of nanotwinned AlMg alloys. <i>Journal of Materials Research</i> , 2018 , 33, 3739-3749	2.5	11
17	High temperature deformability of ductile flash-sintered ceramics via in-situ compression. <i>Nature Communications</i> , 2018 , 9, 2063	17.4	56
16	Tailoring plasticity of metallic glasses via interfaces in Cu/amorphous CuNb laminates. <i>Journal of Materials Research</i> , 2017 , 32, 2680-2689	2.5	13
15	Ductile Fracture of Metallic Glass Nanolaminates. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700510	4.6	16
14	High-velocity projectile impact induced 9R phase in ultrafine-grained aluminium. <i>Nature Communications</i> , 2017 , 8, 1653	17.4	28
13	In situ heavy ion irradiation studies of nanopore shrinkage and enhanced radiation tolerance of nanoporous Au. <i>Scientific Reports</i> , 2017 , 7, 39484	4.9	27
12	Synchronous exfoliation and assembly of graphene on 3D Ni(OH) for supercapacitors. <i>Chemical Communications</i> , 2016 , 52, 13373-13376	5.8	22
11	Dependence of Photoelectrochemical Properties on Geometry Factors of Interconnected Caterpillar-like ZnO Networks. <i>Electrochimica Acta</i> , 2016 , 222, 232-245	6.7	13
10	Understanding the Influence of Polypyrrole Coating over V2O5 Nanofibers on Electrochemical Properties. <i>Electrochimica Acta</i> , 2015 , 174, 563-573	6.7	30
9	TiO2 Fibers: Tunable Polymorphic Phase Transformation and Electrochemical Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 3750-6	1.3	3

8	Mixed-valent VOx/polymer nanohybrid fibers for flexible energy storage materials. <i>Ceramics International</i> , 2014 , 40, 5073-5077	5.1	10
7	Morphology-tunable synthesis of ZnO nanoforest and its photoelectrochemical performance. <i>Nanoscale</i> , 2014 , 6, 8769-80	7.7	120
6	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	3.8	52
5	Asymmetric supercapacitors with dominant pseudocapacitance based on manganese oxide nanoflowers in a neutral aqueous electrolyte. <i>RSC Advances</i> , 2013 , 3, 24886	3.7	7
4	Hierarchical nitrogen and cobalt co-doped TiO2 prepared by an interface-controlled self-aggregation process. <i>Journal of Alloys and Compounds</i> , 2013 , 575, 128-136	5.7	14
3	Three-dimensional ZnO@MnO2 core@shell nanostructures for electrochemical energy storage. <i>Chemical Communications</i> , 2013 , 49, 4456-8	5.8	106
2	Heterogeneous Manganese Oxide-Encased Carbon Nanocomposite Fibers for High Performance Pseudocapacitors. <i>Ceramic Engineering and Science Proceedings</i> , 2013 , 41-55	0.1	2
1	Achieving strong and stable nanocrystalline Al alloys through compositional design. <i>Journal of Materials Research</i> , 1	2.5	0