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	Morphology-tunable synthesis of ZnO nanoforest and its photoelectrochemical performance. Nanoscale, 2014, 6, 8769-8780.	2.8	141
2	Three-dimensional ZnO@MnO2 core@shell nanostructures for electrochemical energy storage. Chemical Communications, 2013, 49, 4456.	2.2	113
3	Highâ€Strength Nanotwinned Al Alloys with 9R Phase. Advanced Materials, 2018, 30, 1704629.	11.1	93
4	High temperature deformability of ductile flash-sintered ceramics via in-situ compression. Nature Communications, 2018, 9, 2063.	5.8	87
5	Extrinsic Green Photoluminescence from the Edges of 2D Cesium Lead Halides. Advanced Materials, 2019, 31, e1902492.	11.1	75
6	Ultrastrong nanocrystalline stainless steel and its Hall-Petch relationship in the nanoscale. Scripta Materialia, 2018, 155, 26-31.	2.6	72
7	Mechanical behavior of structurally gradient nickel alloy. Acta Materialia, 2018, 149, 57-67.	3.8	70
8	High-velocity projectile impact induced 9R phase in ultrafine-grained aluminium. Nature Communications, 2017, 8, 1653.	5.8	66
9	Tailoring the strength and ductility of T91 steel by partial tempering treatment. Acta Materialia, 2019, 169, 209-224.	3.8	59
10	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. Materials Horizons, 2018, 5, 536-544.	6.4	57
11	Size dependent strengthening in high strength nanotwinned Al/Ti multilayers. Acta Materialia, 2019, 175, 466-476.	3.8	56
12	Facile and Scalable Synthesis of â€œCaterpillar-likeâ€•ZnO Nanostructures with Enhanced Photoelectrochemical Water-Splitting Effect. Journal of Physical Chemistry C, 2014, 118, 13467-13475.	1.5	54
13	Microstructure and mechanical behavior of nanotwinned AlTi alloys with 9R phase. Scripta Materialia, 2018, 148, 5-9.	2.6	48
14	High temperature thermal and mechanical stability of high-strength nanotwinned Al alloys. Acta Materialia, 2019, 165, 142-152.	3.8	45
15	Understanding the Influence of Polypyrrole Coating over V2O5 Nanofibers on Electrochemical Properties. Electrochimica Acta, 2015, 174, 563-573.	2.6	40
16	Helium irradiation induced ultra-high strength nanotwinned Cu with nanovoids. Acta Materialia, 2019, 177, 107-120.	3.8	38
17	In situ heavy ion irradiation studies of nanopore shrinkage and enhanced radiation tolerance of nanoporous Au. Scientific Reports, 2017, 7, 39484.	1.6	37
18	Texture-directed twin formation propensity in Al with high stacking fault energy. Acta Materialia, 2018, 144, 226-234.	3.8	36

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19	Thick grain boundary induced strengthening in nanocrystalline Ni alloy. Nanoscale, 2019, 11, 23449-23458.	2.8	34
20	High strength, deformable nanotwinned Alâ€“Co alloys. Materials Research Letters, 2019, 7, 33-39.	4.1	32
21	Tailoring strength and plasticity of Ag/Nb nanolaminates via intrinsic microstructure and extrinsic dimension. International Journal of Plasticity, 2019, 113, 145-157.	4.1	32
22	Strong and plastic metallic composites with nanolayered architectures. Acta Materialia, 2020, 195, 240-251.	3.8	31
23	Ultra-strong nanotwinned Alâ€“Ni solid solution alloys with significant plasticity. Nanoscale, 2018, 10, 22025-22034.	2.8	30
24	Strain-driven nanodumbbell structure and enhanced physical properties in hybrid vertically aligned nanocomposite thin films. Applied Materials Today, 2019, 16, 204-212.	2.3	30
25	In situ studies on irradiation resistance of nanoporous Au through temperature-jump tests. Acta Materialia, 2018, 143, 30-42.	3.8	27
26	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
27	Hierarchical nanotwins in single-crystal-like nickel with high strength and corrosion resistance producedviaa hybrid technique. Nanoscale, 2020, 12, 1356-1365.	2.8	27
28	Synchronous exfoliation and assembly of graphene on 3D Ni(OH)₂ for supercapacitors. Chemical Communications, 2016, 52, 13373-13376.	2.2	25
29	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.	4.1	25
30	Deformation behavior and phase transformation of nanotwinned Al/Ti multilayers. Applied Surface Science, 2020, 527, 146776.	3.1	25
31	â€œDuctileâ€•Fracture of Metallic Glass Nanolaminates. Advanced Materials Interfaces, 2017, 4, 1700510.	1.9	24
32	Key microstructural characteristics in flash sintered 3YSZ critical for enhanced sintering process. Ceramics International, 2019, 45, 1251-1257.	2.3	24
33	Ultra-high strength and plasticity mediated by partial dislocations and defect networks: Part I: Texture effect. Acta Materialia, 2020, 185, 181-192.	3.8	24
34	Thermal stability and deformability of annealed nanotwinned Al/Ti multilayers. Scripta Materialia, 2020, 186, 219-224.	2.6	24
35	Phase transformation induced plasticity in high-strength hexagonal close packed Co with stacking faults. Scripta Materialia, 2019, 173, 32-36.	2.6	23
36	Plastic anisotropy and tension-compression asymmetry in nanotwinned Alâ€“Fe alloys: An in-situ micromechanical investigation. International Journal of Plasticity, 2020, 132, 102760.	4.1	21

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37	Coupled solute effects enable anomalous high-temperature strength and stability in nanotwinned Al alloys. Acta Materialia, 2020, 200, 378-388.	3.8	19
38	Tailoring plasticity of metallic glasses via interfaces in Cu/amorphous CuNb laminates. Journal of Materials Research, 2017, 32, 2680-2689.	1.2	17
39	Hierarchical nitrogen and cobalt co-doped TiO2 prepared by an interface-controlled self-aggregation process. Journal of Alloys and Compounds, 2013, 575, 128-136.	2.8	16
40	Strain and property tuning of the 3D framed epitaxial nanocomposite thin films via interlayer thickness variation. Journal of Applied Physics, 2019, 125, .	1.1	16
41	Microstructural evolution of nanotwinned Al-Zr alloy with significant 9R phase. Materials Research Letters, 2021, 9, 91-98.	4.1	16
42	Dependence of Photoelectrochemical Properties on Geometry Factors of Interconnected â€œCaterpillar-likeâ€•ZnO Networks. Electrochimica Acta, 2016, 222, 232-245.	2.6	15
43	Strengthening mechanisms and deformability of nanotwinned AlMg alloys. Journal of Materials Research, 2018, 33, 3739-3749.	1.2	15
44	In situ study on surface roughening in radiation-resistant Ag nanowires. Nanotechnology, 2018, 29, 215708.	1.3	14
45	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
46	Mixed-valent VOx/polymer nanohybrid fibers for flexible energy storage materials. Ceramics International, 2014, 40, 5073-5077.	2.3	13
47	High-strength nanocrystalline intermetallics with room temperature deformability enabled by nanometer thick grain boundaries. Science Advances, 2021, 7, .	4.7	13
48	Enhanced Mechanical and Biological Performance of an Extremely Fine Nanograined 316L Stainless Steel Cellâ€“Substrate Interface Fabricated by Ultrasonic Shot Peening. ACS Biomaterials Science and Engineering, 2018, 4, 1609-1621.	2.6	12
49	Design of super-strong and thermally stable nanotwinned Al alloys via solute synergy. Nanoscale, 2020, 12, 20491-20505.	2.8	12
50	First-principles calculations for understanding microstructures and mechanical properties of co-sputtered Al alloys. Nanoscale, 2021, 13, 14987-15001.	2.8	11
51	Tailoring the formation of twins in Al by introducing epitaxial layer interfaces. Scripta Materialia, 2021, 192, 1-6.	2.6	10
52	Asymmetric supercapacitors with dominant pseudocapacitance based on manganese oxide nanoflowers in a neutral aqueous electrolyte. RSC Advances, 2013, 3, 24886.	1.7	9
53	High-strength and tunable plasticity in sputtered Alâ€“Cr alloys with multistage phase transformations. International Journal of Plasticity, 2021, 137, 102915.	4.1	9
54	Strategies to tailor serrated flows in metallic glasses. Journal of Materials Research, 2019, 34, 1595-1607.	1.2	7

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55	Role of Interlayer in 3D Vertically Aligned Nanocomposite Frameworks with Tunable Magnetotransport Properties. Advanced Materials Interfaces, 2020, 7, 1901990.	1.9	7
56	Ultra-high strength and plasticity mediated by partial dislocations and defect networks: Part II: Layer thickness effect. Acta Materialia, 2021, 204, 116494.	3.8	7
57	Epitaxial nanotwinned metals and alloys: synthesis-twin structureâ€“property relations. CrystEngComm, 2021, 23, 6637-6649.	1.3	5
58	Achieving strong and stable nanocrystalline Al alloys through compositional design. Journal of Materials Research, 2022, 37, 183-207.	1.2	5
59	Realization of ODS-Cu/T91 Tube-to-tube Joining with Rotary Friction Welding. Fusion Engineering and Design, 2020, 158, 111699.	1.0	4
60	TiO₂ Fibers: Tunable Polymorphic Phase Transformation and Electrochemical Properties. Journal of Nanoscience and Nanotechnology, 2015, 15, 3750-3756.	0.9	3
61	Extrinsic size dependent plastic deformability of ZnS micropillars. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 792, 139706.	2.6	2
62	Anisotropic Mechanical Properties of 2-D Materials. , 0, , .		0