

Yunguo Li

List of Publications by Year in descending order

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74
papers

4,886
citations

172457

29
h-index

106344

65
g-index

74
all docs

74
docs citations

74
times ranked

7529
citing authors

#	ARTICLE	IF	CITATIONS
1	Homogeneously dispersed multimetal oxygen-evolving catalysts. <i>Science</i> , 2016, 352, 333-337.	12.6	1,948
2	Review of two-dimensional materials for photocatalytic water splitting from a theoretical perspective. <i>Catalysis Science and Technology</i> , 2017, 7, 545-559.	4.1	345
3	Smoothing the energy transfer pathway in quasi-2D perovskite films using methanesulfonate leads to highly efficient light-emitting devices. <i>Nature Communications</i> , 2021, 12, 1246.	12.8	274
4	Single-layer MoS ₂ as an efficient photocatalyst. <i>Catalysis Science and Technology</i> , 2013, 3, 2214.	4.1	271
5	Homogeneous Nucleation Catastrophe as a Kinetic Stability Limit for Superheated Crystal. <i>Physical Review Letters</i> , 1998, 80, 4474-4477.	7.8	229
6	Quantitative comparison of three Ni-containing phases to the elevated-temperature properties of Al-Si piston alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 7132-7137.	5.6	168
7	Evolution of nickel-rich phases in Al-Si-Cu-Ni-Mg piston alloys with different Cu additions. <i>Materials & Design</i> , 2012, 33, 220-225.	5.1	138
8	Heterostructured WO ₃ @CoWO ₄ bilayer nanosheets for enhanced visible-light photo, electro and photoelectro-chemical oxidation of water. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6265-6272.	10.3	79
9	Distribution of TiB ₂ particles and its effect on the mechanical properties of A390 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 546, 146-152.	5.6	61
10	Supportive strengthening role of Cr-rich phase on Al-Si multicomponent piston alloy at elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 4427-4430.	5.6	59
11	The elastic properties of hcp-Fe alloys under the conditions of the Earth's inner core. <i>Earth and Planetary Science Letters</i> , 2018, 493, 118-127.	4.4	59
12	General Bottom-Up Colloidal Synthesis of Nano-Monolayer Transition-Metal Dichalcogenides with High 1T-Phase Purity. <i>Journal of the American Chemical Society</i> , 2022, 144, 4863-4873.	13.7	58
13	The Earth's core as a reservoir of water. <i>Nature Geoscience</i> , 2020, 13, 453-458.	12.9	56
14	Spontaneous Formation of Noble and Heavy Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis. <i>Advanced Materials</i> , 2018, 30, e1803351.	21.0	47
15	A new 2D monolayer BiXene, M ₂ C (M = Mo, Tc, Os). <i>Nanoscale</i> , 2016, 8, 15753-15762.	5.6	46
16	Ni ²⁺ /Co ²⁺ doped Au-Fe ₇ S ₈ nanoplatelets with exceptionally high oxygen evolution reaction activity. <i>Nano Energy</i> , 2021, 89, 106463.	16.0	45
17	Influence of Si and Ti contents on the microstructure, microhardness and performance of TiAlSi intermetallics in Al-Si-Ti alloys. <i>Journal of Alloys and Compounds</i> , 2011, 509, 8013-8017.	5.5	43
18	Melting properties from <i>ab initio</i> free energy calculations: Iron at the Earth's inner-core boundary. <i>Physical Review B</i> , 2018, 98, .	3.2	43

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19	Effect of existing form of alloying elements on the microhardness of Al-Si-Cu-Ni-Mg piston alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5723-5728.	5.6	42
20	A Hydrogen-Initiated Chemical Epitaxial Growth Strategy for In-Plane Heterostructured Photocatalyst. <i>ACS Nano</i> , 2020, 14, 17505-17514.	14.6	41
21	Aligning potential differences within carbon nitride based photocatalysis for efficient solar energy harvesting. <i>Nano Energy</i> , 2021, 89, 106357.	16.0	41
22	Colloidal Single-Layer Photocatalysts for Methanol-Storable Solar H ₂ Fuel. <i>Advanced Materials</i> , 2019, 31, e1905540.	21.0	39
23	A comparative study of metal (Ni, Co, or Mn)-borate catalysts and their photodeposition on rGO/ZnO nanoarrays for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24149-24156.	10.3	38
24	Regulation of energetic hot carriers on Pt/TiO ₂ with thermal energy for photothermal catalysis. <i>Applied Catalysis B: Environmental</i> , 2022, 309, 121263.	20.2	38
25	Nonepitaxial Gold-Tipped ZnSe Hybrid Nanorods for Efficient Photocatalytic Hydrogen Production. <i>Small</i> , 2020, 16, e1902231.	10.0	37
26	Effects of trace C addition on the microstructure and refining efficiency of Al-Ti-B master alloy. <i>Journal of Alloys and Compounds</i> , 2010, 503, 286-290.	5.5	33
27	Lattice Distortion in Mixed-Anion Lead Halide Perovskite Nanorods Leads to their High Fluorescence Anisotropy. , 2020, 2, 814-820.		33
28	Quasi-Shell-Growth Strategy Achieves Stable and Efficient Green InP Quantum Dot Light-Emitting Diodes. <i>Advanced Science</i> , 2022, 9, .	11.2	33
29	Electronic, mechanical and optical properties of Y ₂ O ₃ with hybrid density functional (HSE06). <i>Computational Materials Science</i> , 2013, 71, 19-24.	3.0	32
30	Strain engineering and photocatalytic application of single-layer ReS ₂ . <i>International Journal of Hydrogen Energy</i> , 2017, 42, 161-167.	7.1	30
31	Hydrogen storage in polyolithiated BC ₃ monolayer sheet. <i>Solid State Communications</i> , 2013, 170, 39-43.	1.9	29
32	Strong shear softening induced by superionic hydrogen in Earth's inner core. <i>Earth and Planetary Science Letters</i> , 2021, 568, 117014.	4.4	29
33	Thermoelasticity of Fe ₇ C ₃ under inner core conditions. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5828-5837.	3.4	28
34	Effect of co-addition of RE, Fe and Mn on the microstructure and performance of A390 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 527, 146-149.	5.6	27
35	Ab Initio Molecular Dynamics Investigation of Molten Fe-Si-O in Earth's Core. <i>Geophysical Research Letters</i> , 2019, 46, 6397-6405.	4.0	27
36	Carbon Partitioning Between the Earth's Inner and Outer Core. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12812-12824.	3.4	23

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37	Light-emitting field-effect transistors with EQE over 20% enabled by a dielectric-quantum dots-dielectric sandwich structure. <i>Science Bulletin</i> , 2022, 67, 529-536.	9.0	23
38	Influence of forming process on three-dimensional morphology of TiB ₂ particles in Al-Ti-B alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 564-570.	4.2	22
39	The improvement of microstructures and mechanical properties of near eutectic Al ⁸ Zr ² P master alloy by an Al ⁸ Zr ² P master alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 531, 55-60.	5.6	21
40	Bond Network Topology and Antiferroelectric Order in Cupric CuOH. <i>Inorganic Chemistry</i> , 2015, 54, 8969-8977.	4.0	21
41	Tweaking the magnetism of MoS ₂ nanoribbon with hydrogen and carbon passivation. <i>Nanotechnology</i> , 2014, 25, 165703.	2.6	20
42	Dynamic stability of the single-layer transition metal dichalcogenides. <i>Computational Materials Science</i> , 2014, 92, 206-212.	3.0	19
43	Metal-decorated graphene oxide for ammonia adsorption. <i>Europhysics Letters</i> , 2013, 103, 28007.	2.0	17
44	The nature of hydrogen in γ -alumina. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	15
45	Communication: Origin of the difference between carbon nanotube armchair and zigzag ends. <i>Journal of Chemical Physics</i> , 2014, 140, 091102.	3.0	13
46	Impurity effects on the grain boundary cohesion in copper. <i>Physical Review Materials</i> , 2017, 1, .	2.4	13
47	Structural diversity and electronic properties in potassium silicides. <i>Journal of Chemical Physics</i> , 2018, 148, 204706.	3.0	11
48	Superconductivity in the van der Waals layered compound PS ₂ . <i>Physical Review B</i> , 2019, 99, .	3.2	11
49	Equation of State of hcp Fe-Ca-Si Alloys and the Effect of C Incorporation Mechanism on the Density of hcp Fe Alloys at 300 ÅK. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020159.	3.4	10
50	Electronic structure, mechanical and optical properties of In ₂ O ₃ with hybrid density functional (HSE06). <i>Solid State Communications</i> , 2013, 172, 37-40.	1.9	9
51	Interactions of point defects with stacking faults in oxygen-free phosphorus-containing copper. <i>Journal of Nuclear Materials</i> , 2015, 462, 160-164.	2.7	9
52	Gluing together metallic and covalent layers to form Ru ₂ C under ambient conditions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9730-9736.	2.8	9
53	Physical and chemical properties of Cu(<i>scp</i>) compounds with O and/or H. <i>Dalton Transactions</i> , 2017, 46, 529-538.	3.3	9
54	Mg partitioning between solid and liquid iron under the Earth's core conditions. <i>Physics of the Earth and Planetary Interiors</i> , 2018, 274, 218-221.	1.9	8

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55	Dominant Polar Surfaces of Colloidal II-VI Wurtzite Semiconductor Nanocrystals Enabled by Cation Exchange. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4990-4997.	4.6	8
56	Strain-induced stabilization of Al functionalization in graphene oxide nanosheet for enhanced NH ₃ storage. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	7
57	Spontaneous Formation of Heterodimer Au-Fe ₇ S ₈ Nanoplatelets by a Seeded Growth Approach. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10604-10613.	3.1	7
58	Tuning of electronic and optical properties of a predicted silicon allotrope: Hexagonal silicon h_{10}. <i>Physical Review B</i> , 2021, 104, .	3.2	7
59	Primitive noble gases sampled from ocean island basalts cannot be from the Earth's core. <i>Nature Communications</i> , 2022, 13, .	12.8	6
60	Zero-emission multivalORIZATION of light alcohols with self-separable pure H ₂ fuel. <i>Applied Catalysis B: Environmental</i> , 2021, 292, 120212.	20.2	5
61	Pressure-Induced Structural Phase Transition and Superconductivity in NaSn ₅ . <i>Inorganic Chemistry</i> , 2020, 59, 484-490.	4.0	4
62	Pressure-tuned one- to quasi-two-dimensional structural phase transition and superconductivity in LiP ₁₅ . <i>Physical Review B</i> , 2022, 105, .	3.2	4
63	ElaST: A toolkit for thermoelastic calculations. <i>Computer Physics Communications</i> , 2022, 273, 108280.	7.5	3
64	The effect of water on the outer core transport properties. <i>Physics of the Earth and Planetary Interiors</i> , 2022, 329-330, 106907.	1.9	3
65	Pressure-induced structural phase transition in Li ₄ Ge. <i>CrystEngComm</i> , 2018, 20, 5949-5954.	2.6	2
66	Electronic structures and optical properties of cuprous oxide and hydroxide. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1675, 185-190.	0.1	1
67	Exploring configurational degrees of freedom in disordered solids. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
68	Photocatalysis: Spontaneous Formation of Noble- and Heavy-Metal-Free Alloyed Semiconductor Quantum Rods for Efficient Photocatalysis (<i>Adv. Mater.</i> 39/2018). <i>Advanced Materials</i> , 2018, 30, 1870296.	21.0	0
69	Photocatalysts: Colloidal Single-Layer Photocatalysts for Methanol-Storable Solar H ₂ Fuel (<i>Adv. Mater.</i> 49/2019). <i>Advanced Materials</i> , 2019, 31, 1970348.	21.0	0
70	Photocatalytic Hydrogen Production: Non-epitaxial Gold-Tipped ZnSe Hybrid Nanorods for Efficient Photocatalytic Hydrogen Production (<i>Small</i> 12/2020). <i>Small</i> , 2020, 16, 2070066.	10.0	0
71	Equation of state for CO and CO ₂ fluids and their application on decarbonation reactions at high pressure and temperature. <i>Chemical Geology</i> , 2021, 559, 119918.	3.3	0
72	Water Partitioning between Liquid Iron and Silicate Melt. , 2020, , .		0

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73	Superionic iron-hydrogen alloys in Earth's inner core. , 2021, , .		0
74	Nitrogen Speciation in Silicate Melts at Mantle Conditions From Ab Initio Simulations. Geophysical Research Letters, 2022, 49, .	4.0	0