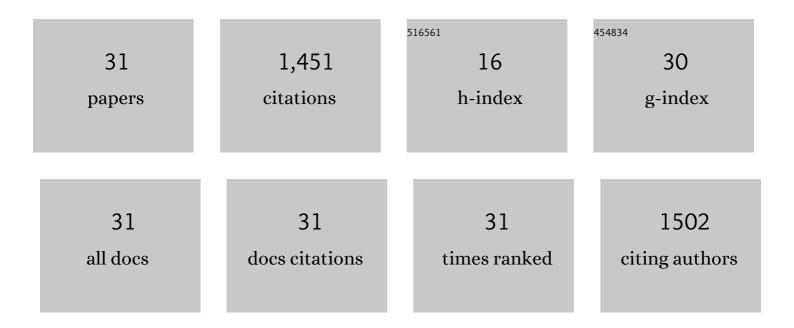
Ligang Sun

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Dual-phase nanostructuring as a route to high-strength magnesium alloys. Nature, 2017, 545, 80-83.	13.7	458
2	A Novel Multinary Intermetallic as an Active Electrocatalyst for Hydrogen Evolution. Advanced Materials, 2020, 32, e2000385.	11.1	169
3	Nanotwinned and hierarchical nanotwinned metals: a review of experimental, computational and theoretical efforts. Npj Computational Materials, 2018, 4, .	3.5	109
4	Hierarchical nanostructured aluminum alloy with ultrahigh strength and large plasticity. Nature Communications, 2019, 10, 5099.	5.8	97
5	A Selfâ€Supported Highâ€Entropy Metallic Glass with a Nanosponge Architecture for Efficient Hydrogen Evolution under Alkaline and Acidic Conditions. Advanced Functional Materials, 2021, 31, 2101586.	7.8	89
6	High-order hierarchical nanotwins with superior strength and ductility. Acta Materialia, 2018, 149, 397-406.	3.8	85
7	Attractive In Situ Selfâ€Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance. Advanced Functional Materials, 2019, 29, 1807857.	7.8	74
8	UiO-66-NO ₂ as an Oxygen "Pump―for Enhancing Oxygen Reduction Reaction Performance. Chemistry of Materials, 2019, 31, 1646-1654.	3.2	33
9	An ordinary state-based peridynamic model for the fracture of zigzag graphene sheets. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180019.	1.0	30
10	Scale law of complex deformation transitions of nanotwins in stainless steel. Nature Communications, 2019, 10, 1403.	5.8	29
11	Role of Boron in Enhancing Electron Delocalization to Improve Catalytic Activity of Fe-Based Metallic Glasses for Persulfate-Based Advanced Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 44789-44797.	4.0	25
12	Two softening stages in nanotwinned Cu. Philosophical Magazine, 2014, 94, 4037-4052.	0.7	21
13	Deformation and failure mechanisms of nanotwinned copper films with a pre-existing crack. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 606, 334-345.	2.6	21
14	Size-dependent formation and thermal stability of high-order twins in hierarchical nanotwinned metals. International Journal of Plasticity, 2020, 128, 102685.	4.1	21
15	Understanding the mechanical characteristics of nanotwinned diamond by atomistic simulations. Carbon, 2018, 127, 320-328.	5.4	20
16	Super square carbon nanotube network: a new promising water desalination membrane. Npj Computational Materials, 2016, 2, .	3.5	18
17	Nanoscale Heterogeneities of Non-Noble Iron-Based Metallic Glasses toward Efficient Water Oxidation at Industrial-Level Current Densities. ACS Applied Materials & Interfaces, 2022, 14, 10288-10297.	4.0	18
18	Inclusion of arbitrary polygon with graded eigenstrain in an anisotropic piezoelectric full plane. International Journal of Solids and Structures, 2012, 49, 1773-1785.	1.3	17

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#	Article	IF	CITATIONS
19	An Ultrafast and Stable High-Entropy Metallic Glass Electrode for Alkaline Hydrogen Evolution Reaction. , 2022, 4, 1389-1396.		17
20	Atomistic simulation study on twin orientation and spacing distribution effects on nanotwinned Cu films. Philosophical Magazine, 2015, 95, 3467-3485.	0.7	15
21	Investigation on fracture of pre-cracked single-layer graphene sheets. Computational Materials Science, 2019, 159, 365-375.	1.4	15
22	A chirality-dependent peridynamic model for the fracture analysis of graphene sheets. Mechanics of Materials, 2020, 149, 103535.	1.7	14
23	Near-ideal strength and large compressive deformability of a nano-dual-phase glass-crystal alloy in sub-micron. Scripta Materialia, 2020, 188, 290-295.	2.6	10
24	Constitutive modeling of size-dependent deformation behavior in nano-dual-phase glass-crystal alloys. International Journal of Plasticity, 2021, 137, 102918.	4.1	10
25	Tunable ultrathin dual-phase P-doped Bi2MoO6 nanosheets for advanced lithium and sodium storage. Nano Research, 2022, 15, 6128-6137.	5.8	8
26	Irregular Inhomogeneities in an Anisotropic Piezoelectric Plane. Journal of Applied Mechanics, Transactions ASME, 2012, 79, .	1.1	7
27	Hierarchical-structure induced adjustable deformation of super carbon nanotubes with radial shrinkage up to 66%. Carbon, 2017, 125, 289-298.	5.4	7
28	Water Splitting: A Novel Multinary Intermetallic as an Active Electrocatalyst for Hydrogen Evolution (Adv. Mater. 21/2020). Advanced Materials, 2020, 32, 2070166.	11.1	6
29	Investigation on crack propagation in single crystal Ag with temperature dependence. Journal of Materials Research, 2015, 30, 3553-3563.	1.2	4
30	Tailored tensile properties of CoCrNi medium entropy alloy by tuning the elemental distribution. Journal of Alloys and Compounds, 2022, 897, 163171.	2.8	3
31	Metallic Glass Catalysts: Attractive In Situ Selfâ€Reconstructed Hierarchical Gradient Structure of Metallic Glass for High Efficiency and Remarkable Stability in Catalytic Performance (Adv. Funct.) Tj ETQq1 1 0.78	4 3.1 84 rgB]	[/Dverlock]