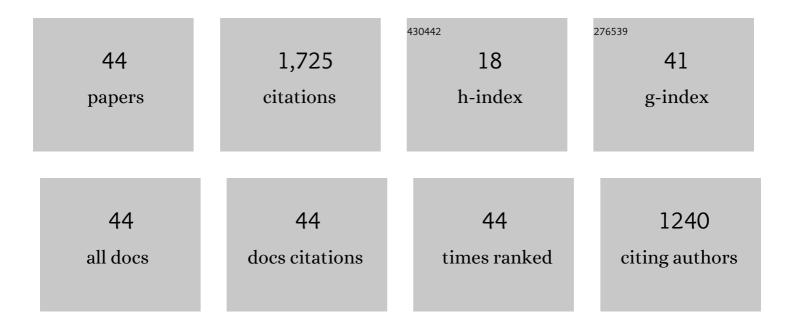
Shuai Wang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Enumeration of the hydrogen-enhanced localized plasticity mechanism for hydrogen embrittlement in structural materials. Acta Materialia, 2019, 165, 734-750.	3.8	295
2	Hydrogen-induced intergranular failure of iron. Acta Materialia, 2014, 69, 275-282.	3.8	204
3	Recent advances on hydrogen embrittlement of structural materials. International Journal of Fracture, 2015, 196, 223-243.	1.1	146
4	Mechanisms of radiation-induced segregation in CrFeCoNi-based single-phase concentrated solid solution alloys. Acta Materialia, 2017, 126, 182-193.	3.8	133
5	Effect of hydrogen environment on the separation of Fe grain boundaries. Acta Materialia, 2016, 107, 279-288.	3.8	106
6	Stable Sodium Metal Batteries via Manipulation of Electrolyte Solvation Structure. Small Methods, 2020, 4, 1900856.	4.6	73
7	Activation volume and density of mobile dislocations in hydrogen-charged iron. Acta Materialia, 2013, 61, 4734-4742.	3.8	66
8	Influence of hydrogen on dislocation self-organization in Ni. Acta Materialia, 2017, 135, 96-102.	3.8	65
9	Enhanced damage resistance and novel defect structure of CrFeCoNi under in situ electron irradiation. Scripta Materialia, 2016, 125, 5-9.	2.6	62
10	Hydrogen embrittlement of the equi-molar FeNiCoCr alloy. Acta Materialia, 2018, 157, 218-227.	3.8	52
11	Hydrogen-modified dislocation structures in a cyclically deformed ferritic-pearlitic low carbon steel. Acta Materialia, 2018, 144, 164-176.	3.8	48
12	Toward Phase and Catalysis Control: Tracking the Formation of Intermetallic Nanoparticles at Atomic Scale. CheM, 2019, 5, 1235-1247.	5.8	45
13	Effects of hydrogen on activation volume and density of mobile dislocations in iron-based alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 562, 101-108.	2.6	42
14	Nitrogen, Oxygen odoped Vertical Graphene Arrays Coated 3D Flexible Carbon Nanofibers with High Silicon Content as an Ultrastable Anode for Superior Lithium Storage. Advanced Science, 2022, 9, e2104685.	5.6	42
15	Composite Electrolytes Based on Poly(Ethylene Oxide) and Lithium Borohydrides for All-Solid-State Lithium–Sulfur Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 5396-5404.	3.2	33
16	Microstructure, corrosion behaviour and thermal stability of AA 7150 after ultrasonic shot peening. Surface and Coatings Technology, 2020, 398, 126127.	2.2	30
17	Hydrogen-induced change in core structures of {110}[111] edge and {110}[111] screw dislocations in iron. Scientific Reports, 2013, 3, 2760.	1.6	26
18	Strain field of interstitial hydrogen atom in body-centered cubic iron and its effect on hydrogen–dislocation interaction. Scripta Materialia, 2013, 68, 249-252.	2.6	21

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#	Article	IF	CITATIONS
19	Assessment of the impact of hydrogen on the stress developed ahead of a fatigue crack. Acta Materialia, 2019, 174, 181-188.	3.8	19
20	Effect of Mo doping on the gaseous hydrogen embrittlement of a CoCrNi medium-entropy alloy. Corrosion Science, 2021, 189, 109628.	3.0	19
21	Preparation of diamond-like carbon films by cathodic micro-arc discharge in aqueous solutions. Thin Solid Films, 2010, 518, 4211-4214.	0.8	18
22	The microstructure and mechanical properties of copper in electrically assisted tension. Materials and Design, 2020, 196, 109171.	3.3	18
23	On the failure of surface damage to assess the hydrogen-enhanced deformation ahead of crack tip in a cyclically loaded austenitic stainless steel. Scripta Materialia, 2019, 166, 102-106.	2.6	16
24	Regulating Li ₂ S Deposition by Ostwald Ripening in Lithium–Sulfur Batteries. ACS Applied Materials & Interfaces, 2022, 14, 4204-4210.	4.0	16
25	Orientation dependence of dislocation structure in surface grain of pure copper deformed in tension. Acta Materialia, 2021, 203, 116474.	3.8	15
26	Fast Lithium Ionic Conductivity in Complex Hydrideâ€Sulfide Electrolytes by Double Anions Substitution. Small Methods, 2021, 5, e2100609.	4.6	14
27	Nanoscale corrosion investigation of surface nanocrystallized 7150 Al alloy in 3.5Âwt% NaCl solution by using FIB-TEM techniques. Corrosion Science, 2022, 195, 110021.	3.0	14
28	Embrittlement of 316L stainless steel in electropulsing treatment. Journal of Materials Research and Technology, 2020, 9, 10669-10678.	2.6	13
29	Flexible Metal Electrodes by Femtosecond Laser-Activated Deposition for Human–Machine Interfaces. ACS Applied Materials & Interfaces, 2022, 14, 11971-11980.	4.0	12
30	Physical properties of α-Fe upon the introduction of H, He, C, and N. Solid State Communications, 2014, 195, 70-73.	0.9	8
31	Microstructure, corrosion behavior and hydrogen evolution of USSP processed AZ31 magnesium alloy with a surface layer containing amorphous Fe-rich composite. International Journal of Hydrogen Energy, 2021, 46, 10172-10182.	3.8	8
32	A comparison of dislocation cellular patterns generated in Inconel 718 alloy and pure Ni fabricated by laser powder bed fusion. Vacuum, 2022, 199, 110974.	1.6	8
33	On the microstructure and tensile properties of Inconel 718 alloy fabricated by selective laser melting and conventional casting. Journal of Micromechanics and Molecular Physics, 2021, 06, .	0.7	7
34	A comparative characterization of defect structure in NiCo and NiFe equimolar solid solution alloys under in situ electron irradiation. Scripta Materialia, 2019, 166, 96-101.	2.6	5
35	Tailoring hydrogen embrittlement resistance of pure Ni by grain boundary engineering. Corrosion Communications, 2022, 6, 48-51.	2.7	5
36	Regulating surface chemistry of separator with LiF for advanced Li-S batteries. Frontiers in Energy, 2022, 16, 601-606.	1.2	4

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37	On the fracture process of intermediate temperature embrittlement of pure copper in electrical-assisted tension. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 141979.	2.6	4
38	Nano-Treating Promoted Natural Aging Al-Zn-Mg-Cu Alloys. Journal of Composites Science, 2022, 6, 114.	1.4	4
39	Using real-time UV–visible spectrophotometer to assess an Al–Zn–Mg–Cu alloy's dissolution in acidic solution. Royal Society Open Science, 2020, 7, 200461.	1.1	3
40	Phase Transition of Mg during Hydrogenation of Mg–Nb ₂ O ₅ Evaporated Composites. Journal of Physical Chemistry C, 2012, 116, 17089-17093.	1.5	2
41	Effect of Hydrogen on Fatigue-Crack Growth of a Ferritic-Pearlitic Low Carbon Steel. , 2017, , .		1
42	Lattice rotation effect on the dislocation pattern of Cu deformed in tension. Philosophical Magazine, 2022, 102, 875-886.	0.7	1
43	Dislocation evolution in copper in the absence and presence of hydrogen. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 842, 143082.	2.6	1
44	Evolution of dislocation cellular pattern in Inconel 718 alloy fabricated by laser powder-bed fusion. Additive Manufacturing, 2022, 55, 102839.	1.7	1