

# Yin Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6795015/publications.pdf>

Version: 2024-02-01

34  
papers

3,278  
citations

471509

17  
h-index

361022

35  
g-index

36  
all docs

36  
docs citations

36  
times ranked

2873  
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ Observation of Li Deposition-Induced Cracking in Garnet Solid Electrolytes. <i>Energy and Environmental Materials</i> , 2022, 5, 524-532.	12.8	36
2	Understanding and quantifying electron beam effects during in situ TEM nanomechanical tensile testing on metal thin films. <i>Acta Materialia</i> , 2022, 222, 117441.	7.9	11
3	Abnormal grain growth in ultrafine grained Ni under high-cycle loading. <i>Scripta Materialia</i> , 2022, 209, 114372.	5.2	9
4	Lodged Sugarcane/Crop Dividers Interaction: Analysis of Robotic Sugarcane Harvester in Agriculture via a Rigid-Flexible Coupled Simulation Method. <i>Actuators</i> , 2022, 11, 23.	2.3	7
5	Unraveling the origin of extra strengthening in gradient nanotwinned metals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	36
6	Learning constitutive relations of plasticity using neural networks and full-field data. <i>Extreme Mechanics Letters</i> , 2022, 52, 101645.	4.1	2
7	Tracking the sliding of grain boundaries at the atomic scale. <i>Science</i> , 2022, 375, 1261-1265.	12.6	115
8	Tuning the near room temperature oxidation behavior of high-entropy alloy nanoparticles. <i>Nano Research</i> , 2022, 15, 3569-3574.	10.4	6
9	The Development of an Electric-Driven Control System for a High-Speed Precision Planter Based on the Double Closed-Loop Fuzzy PID Algorithm. <i>Agronomy</i> , 2022, 12, 945.	3.0	10
10	Atomistic modeling of surface and grain boundary dislocation nucleation in FCC metals. <i>Acta Materialia</i> , 2022, 237, 118155.	7.9	13
11	Deformation-induced crystalline-to-amorphous phase transformation in a CrMnFeCoNi high-entropy alloy. <i>Science Advances</i> , 2021, 7, .	10.3	89
12	Grain growth of nanocrystalline aluminum under tensile deformation: A combined in situ TEM and atomistic study. <i>Materialia</i> , 2021, 16, 101068.	2.7	10
13	Effect of Grit Blasting and Polishing Pretreatments on the Microhardness, Adhesion and Corrosion Properties of Electrodeposited Ni-W/SiC Nanocomposite Coatings on 45 Steel Substrate. <i>Crystals</i> , 2021, 11, 729.	2.2	3
14	Unraveling dual phase transformations in a CrCoNi medium-entropy alloy. <i>Acta Materialia</i> , 2021, 215, 117112.	7.9	43
15	Degradation by Kinking in Layered Cathode Materials. <i>ACS Energy Letters</i> , 2021, 6, 3960-3969.	17.4	33
16	Strain gradient plasticity modeling of nanoindentation of additively manufactured stainless steel. <i>Extreme Mechanics Letters</i> , 2021, 49, 101503.	4.1	2
17	Wettability, Microhardness, Wear and Corrosion Resistance of Ni-Co-P-BN(h)-Al <sub>2</sub> O <sub>3</sub> Binary Nanocomposite Coatings Surface with Varying Long-Pulse Laser Parameters. <i>Coatings</i> , 2021, 11, 1467.	2.6	2
18	Study on the Wear and Seawater Corrosion Resistance of Ni-Co-P Alloy Coatings with Jet Electrodeposition in Different Jet Voltages and Temperatures of Plating Solution. <i>Coatings</i> , 2020, 10, 639.	2.6	9

#	ARTICLE	IF	CITATIONS
19	Electrochemical Deposition of Ni, NiCo Alloy and NiCo/Ceramic Composite Coatings—A Critical Review. <i>Materials</i> , 2020, 13, 3475.	2.9	41
20	Free-Standing Two-Dimensional Gold Membranes Produced by Extreme Mechanical Thinning. <i>ACS Nano</i> , 2020, 14, 17091-17099.	14.6	15
21	Fabrication of Ni-Co-P Alloy Coatings Using Jet Electrodeposition with Varying Reciprocating Sweep Speeds and Jet Gaps to Improve Wear and Seawater Corrosion Resistance. <i>Coatings</i> , 2020, 10, 924.	2.6	11
22	Anti-twinning in nanoscale tungsten. <i>Science Advances</i> , 2020, 6, eaay2792.	10.3	49
23	Lattice strains and diffraction elastic constants of cubic polycrystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 138, 103899.	4.8	16
24	Strain gradient plasticity in gradient structured metals. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 140, 103946.	4.8	41
25	The Influence of Co Concentration on the Properties of Conventionally Electrodeposited Ni-Co-Al <sub>2</sub> O <sub>3</sub> -SiC Nanocomposite Coatings. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020, 56, 94-102.	1.1	3
26	In Situ Nano-thermomechanical Experiment Reveals Brittle to Ductile Transition in Silicon Nanowires. <i>Nano Letters</i> , 2019, 19, 5327-5334.	9.1	34
27	Microscale residual stresses in additively manufactured stainless steel. <i>Nature Communications</i> , 2019, 10, 4338.	12.8	120
28	Fabrication of Ni-Co-BN (h) Nanocomposite Coatings with Jet Electrodeposition in Different Pulse Parameters. <i>Coatings</i> , 2019, 9, 50.	2.6	14
29	Synthesis and Characterization of Ni-W/Cr <sub>2</sub> O <sub>3</sub> Nanocomposite Coatings Using Electrochemical Deposition Technique. <i>Coatings</i> , 2019, 9, 815.	2.6	21
30	Tuning element distribution, structure and properties by composition in high-entropy alloys. <i>Nature</i> , 2019, 574, 223-227.	27.8	874
31	Additively manufactured hierarchical stainless steels with high strength and ductility. <i>Nature Materials</i> , 2018, 17, 63-71.	27.5	1,517
32	Molecular dynamics simulation of strong shock waves propagating in dense deuterium, taking into consideration effects of excited electrons. <i>Physical Review E</i> , 2017, 95, 023201.	2.1	29
33	Mechanically Driven Grain Boundary Formation in Nickel Nanowires. <i>ACS Nano</i> , 2017, 11, 12500-12508.	14.6	28
34	Molecular dynamics simulations of microscopic structure of ultra strong shock waves in dense helium. <i>Frontiers of Physics</i> , 2016, 11, 1.	5.0	28