

Qi Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

803
citations

567281

15
h-index

642732

23
g-index

24
all docs

24
docs citations

24
times ranked

1040
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth of environmentally stable transition metal selenide films. <i>Nature Materials</i> , 2019, 18, 602-607.	27.5	116
2	In situ atomistic observation of disconnection-mediated grain boundary migration. <i>Nature Communications</i> , 2019, 10, 156.	12.8	98
3	Sandwich structure stabilized atomic Fe catalyst for highly efficient Fenton-like reaction at all pH values. <i>Applied Catalysis B: Environmental</i> , 2021, 282, 119551.	20.2	93
4	Dual Additive Assisted Chemical Vapor Deposition for the Growth of Mn-Doped 2D MoS ₂ with Tunable Electronic Properties. <i>Small</i> , 2020, 16, e1903181.	10.0	54
5	Metallic nanocrystals with low angle grain boundary for controllable plastic reversibility. <i>Nature Communications</i> , 2020, 11, 3100.	12.8	53
6	Defect-driven selective metal oxidation at atomic scale. <i>Nature Communications</i> , 2021, 12, 558.	12.8	47
7	Revealing extreme twin-boundary shear deformability in metallic nanocrystals. <i>Science Advances</i> , 2021, 7, eabe4758.	10.3	46
8	In situ atomistic observation of grain boundary migration subjected to defect interaction. <i>Acta Materialia</i> , 2020, 199, 42-52.	7.9	46
9	Enhancing the Strength of Graphene by a Denser Grain Boundary. <i>ACS Nano</i> , 2018, 12, 4529-4535.	14.6	39
10	Hierarchical twinning governed by defective twin boundary in metallic materials. <i>Science Advances</i> , 2022, 8, .	10.3	33
11	Twinning-assisted dynamic adjustment of grain boundary mobility. <i>Nature Communications</i> , 2021, 12, 6695.	12.8	23
12	Improved Na-storage cycling of amorphous-carbon-sheathed Ni ₃ S ₂ arrays and investigation by in situ TEM characterization. <i>Materials Today Energy</i> , 2017, 5, 99-106.	4.7	22
13	Discrete twinning dynamics and size-dependent dislocation-to twin transition in body-centred cubic tungsten. <i>Journal of Materials Science and Technology</i> , 2022, 106, 33-40.	10.7	19
14	In situ atomistic observation of the deformation mechanism of Au nanowires with twin-twin intersection. <i>Journal of Materials Science and Technology</i> , 2020, 53, 118-125.	10.7	19
15	Role of intersecting grain boundary on the deformation of twin-twin intersection. <i>Scripta Materialia</i> , 2020, 188, 184-189.	5.2	15
16	Free-Standing Two-Dimensional Gold Membranes Produced by Extreme Mechanical Thinning. <i>ACS Nano</i> , 2020, 14, 17091-17099.	14.6	15
17	Coordinated grain boundary deformation governed nanograin annihilation in shear cycling. <i>Journal of Materials Science and Technology</i> , 2021, 86, 180-191.	10.7	14
18	Twin-coupled shear bands in an ultrafine-grained CoCrFeMnNi high-entropy alloy deformed at 77K. <i>Materials Research Letters</i> , 2022, 10, 385-391.	8.7	14

#	ARTICLE	IF	CITATIONS
19	Mechanical property of metallic nanowires: the shorter is stronger and ductile. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 733, 164-169.	5.6	13
20	A geometrical model for grain boundary migration mediated formation of multifold twins. <i>International Journal of Plasticity</i> , 2022, 148, 103128.	8.8	12
21	Atomistic dynamics of disconnection-mediated grain boundary plasticity: A case study of gold nanocrystals. <i>Journal of Materials Science and Technology</i> , 2022, 125, 182-191.	10.7	9
22	Inclination-governed deformation of dislocation-type grain boundaries. <i>Journal of Materials Research</i> , 2021, 36, 1306-1315.	2.6	2
23	Diffusive crack-grain interplay in freestanding nanocrystalline silver thin film. <i>Materialia</i> , 2021, 17, 101116.	2.7	1