

# Evan

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

2,176  
citations

567144

15  
h-index

794469

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

1636  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct observation of chemical short-range order in a medium-entropy alloy. <i>Nature</i> , 2021, 592, 712-716.	13.7	334
2	Strengthening in multi-principal element alloys with local-chemical-order roughened dislocation pathways. <i>Nature Communications</i> , 2019, 10, 3563.	5.8	330
3	Tailoring heterogeneities in high-entropy alloys to promote strength-ductility synergy. <i>Nature Communications</i> , 2019, 10, 5623.	5.8	289
4	Large plasticity in magnesium mediated by pyramidal dislocations. <i>Science</i> , 2019, 365, 73-75.	6.0	264
5	Phase-change heterostructure enables ultralow noise and drift for memory operation. <i>Science</i> , 2019, 366, 210-215.	6.0	261
6	Unusual dislocation behavior in high-entropy alloys. <i>Scripta Materialia</i> , 2020, 181, 127-133.	2.6	154
7	Unusual activated processes controlling dislocation motion in body-centered-cubic high-entropy alloys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 16199-16206.	3.3	117
8	Tracking the sliding of grain boundaries at the atomic scale. <i>Science</i> , 2022, 375, 1261-1265.	6.0	115
9	Uniting tensile ductility with ultrahigh strength via composition undulation. <i>Nature</i> , 2022, 604, 273-279.	13.7	80
10	Spinodal-modulated solid solution delivers a strong and ductile refractory high-entropy alloy. <i>Materials Horizons</i> , 2021, 8, 948-955.	6.4	52
11	Atomic-scale observation of non-classical nucleation-mediated phase transformation in a titanium alloy. <i>Nature Materials</i> , 2022, 21, 290-296.	13.3	38
12	Tension-compression asymmetry in amorphous silicon. <i>Nature Materials</i> , 2021, 20, 1371-1377.	13.3	36
13	Rafting-Enabled Recovery Avoids Recrystallization in 3D-Printing-Repaired Single-Crystal Superalloys. <i>Advanced Materials</i> , 2020, 32, e1907164.	11.1	28
14	Rejuvenation of plasticity via deformation graining in magnesium. <i>Nature Communications</i> , 2022, 13, 1060.	5.8	26
15	Controlled growth of single-crystalline metal nanowires via thermomigration across a nanoscale junction. <i>Nature Communications</i> , 2019, 10, 4478.	5.8	16
16	Chemical short-range order in body-centered-cubic TiZrHfNb high-entropy alloys. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	15
17	Atomistic mechanism of phase transformation between topologically close-packed complex intermetallics. <i>Nature Communications</i> , 2022, 13, 2487.	5.8	15
18	Predicting the location of shear band initiation in a metallic glass. <i>Physical Review Materials</i> , 2022, 6, .	0.9	5

#	ARTICLE	IF	CITATIONS
19	Peristalsis-like migration of carbon-metabolizing catalytic nanoparticles. <i>Extreme Mechanics Letters</i> , 2021, 49, 101463.	2.0	1