

# Xie Xie

## List of Publications by Year in descending order

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23  
papers

1,704  
citations

430874

18  
h-index

642732

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1355  
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion of Al CoCrFeNi high-entropy alloys: Al-content and potential scan-rate dependent pitting behavior. <i>Corrosion Science</i> , 2017, 119, 33-45.	6.6	535
2	Serration and noise behaviors in materials. <i>Progress in Materials Science</i> , 2017, 90, 358-460.	32.8	203
3	Tuned Critical Avalanche Scaling in Bulk Metallic Glasses. <i>Scientific Reports</i> , 2014, 4, 4382.	3.3	121
4	Experiments and Model for Serration Statistics in Low-Entropy, Medium-Entropy and High-Entropy Alloys. <i>Scientific Reports</i> , 2015, 5, 16997.	3.3	103
5	Enhancing fatigue life by ductile-transformable multicomponent B2 precipitates in a high-entropy alloy. <i>Nature Communications</i> , 2021, 12, 3588.	12.8	102
6	Fatigue behavior of high-entropy alloys: A review. <i>Science China Technological Sciences</i> , 2018, 61, 168-178.	4.0	71
7	Nanoscale serration and creep characteristics of Al <sub>0.5</sub> CoCrCuFeNi high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2018, 752, 464-475.	5.5	69
8	A Review of the Serrated-Flow Phenomenon and Its Role in the Deformation Behavior of High-Entropy Alloys. <i>Metals</i> , 2020, 10, 1101.	2.3	65
9	Atomic and electronic basis for the serrations of refractory high-entropy alloys. <i>Npj Computational Materials</i> , 2017, 3, .	8.7	64
10	Laser Shock Peening on Zr-based Bulk Metallic Glass and Its Effect on Plasticity: Experiment and Modeling. <i>Scientific Reports</i> , 2015, 5, 10789.	3.3	54
11	Temperature effects on the serrated behavior of an Al <sub>0.5</sub> CoCrCuFeNi high-entropy alloy. <i>Materials Chemistry and Physics</i> , 2018, 210, 20-28.	4.0	52
12	Portevin-Le Chatelier mechanism in face-centered-cubic metallic alloys from low to high entropy. <i>International Journal of Plasticity</i> , 2019, 122, 212-224.	8.8	51
13	Effects of Temperature on Serrated Flows of Al <sub>0.5</sub> CoCrCuFeNi High-Entropy Alloy. <i>Jom</i> , 2015, 67, 2314-2320.	1.9	47
14	Origin of serrated flow in bulk metallic glasses. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 124, 634-642.	4.8	33
15	Complexity analysis of serrated flows in a bulk metallic glass under constrained and unconstrained conditions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138585.	5.6	26
16	Plastic dynamics of the Al <sub>0.5</sub> CoCrCuFeNi high entropy alloy at cryogenic temperatures: Jerky flow, stair-like fluctuation, scaling behavior, and non-chaotic state. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	23
17	Self-Similar Random Process and Chaotic Behavior In Serrated Flow of High Entropy Alloys. <i>Scientific Reports</i> , 2016, 6, 29798.	3.3	21
18	Entropy modeling on serrated flows in carburized steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 753, 135-145.	5.6	20

#	ARTICLE	IF	CITATIONS
19	Complexity modeling and analysis of chaos and other fluctuating phenomena. <i>Chaos, Solitons and Fractals</i> , 2018, 116, 166-175.	5.1	18
20	Effects of similar-element-substitution on the glass-forming ability and mechanical behaviors of Ti-Cu-Zr-Pd bulk metallic glasses. <i>Journal of Materials Research and Technology</i> , 2018, 7, 261-269.	5.8	8
21	Relation Between the Defect Interactions and the Serration Dynamics in a Zr-Based Bulk Metallic Glass. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3892.	2.5	8
22	Investigation of chaos and memory effects in the Bonhoeffer-van der Pol oscillator with a non-ideal capacitor. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 73, 195-216.	3.3	7
23	Effect of strain rate and temperature on the serration behavior of SA508-III RPV steel in the dynamic strain aging process. <i>Journal of Iron and Steel Research International</i> , 2018, 25, 767-775.	2.8	3