

Tobias Brink

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

18
papers

320
citations

10
h-index

17
g-index

19
ext. papers

446
ext. citations

6.5
avg, IF

4.05
L-index

#	Paper	IF	Citations
18	Asperity-Level Origins of Transition from Mild to Severe Wear. <i>Physical Review Letters</i> , 2018 , 120, 186105	7.4	39
17	Influence of Crystalline Nanoprecipitates on Shear-Band Propagation in Cu-Zr-Based Metallic Glasses. <i>Physical Review Applied</i> , 2016 , 5,	4.3	38
16	Low temperature heat capacity of a severely deformed metallic glass. <i>Physical Review Letters</i> , 2014 , 112, 135501	7.4	37
15	Local segregation versus irradiation effects in high-entropy alloys: Steady-state conditions in a driven system. <i>Journal of Applied Physics</i> , 2017 , 122, 105106	2.5	36
14	Structural origins of the boson peak in metals: From high-entropy alloys to metallic glasses. <i>Physical Review B</i> , 2016 , 94,	3.3	31
13	Adhesive wear mechanisms uncovered by atomistic simulations. <i>Friction</i> , 2018 , 6, 245-259	5.6	26
12	Emergence of self-affine surfaces during adhesive wear. <i>Nature Communications</i> , 2019 , 10, 1116	17.4	24
11	From metallic glasses to nanocrystals: Molecular dynamics simulations on the crossover from glass-like to grain-boundary-mediated deformation behaviour. <i>Acta Materialia</i> , 2018 , 156, 205-214	8.4	22
10	Interface-controlled creep in metallic glass composites. <i>Acta Materialia</i> , 2017 , 141, 251-260	8.4	15
9	Adhesive wear and interaction of tangentially loaded micro-contacts. <i>International Journal of Solids and Structures</i> , 2020 , 188-189, 261-268	3.1	11
8	Adhesive wear mechanisms in the presence of weak interfaces: Insights from an amorphous model system. <i>Physical Review Materials</i> , 2019 , 3,	3.2	9
7	Solid-state amorphization of Cu nanolayers embedded in a Cu ₆₄ Zr ₃₆ glass. <i>Physical Review B</i> , 2015 , 91,	3.3	8
6	Understanding Grain Boundary Electrical Resistivity in Cu: The Effect of Boundary Structure. <i>ACS Nano</i> , 2021 , 15, 16607-16615	16.7	7
5	Role of interfacial adhesion on minimum wear particle size and roughness evolution. <i>Physical Review E</i> , 2020 , 102, 043001	2.4	6
4	Elastostatic loading of metallic glass-crystal nanocomposites: Relationship of creep rate and interface energy. <i>Physical Review Materials</i> , 2019 , 3,	3.2	5
3	A parameter-free mechanistic model of the adhesive wear process of rough surfaces in sliding contact. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 147, 104238	5	5
2	Dual phase patterning during a congruent grain boundary phase transition in elemental copper. <i>Nature Communications</i> , 2022 , 13,	17.4	1

- 1 A Simple Mechanistic Model for Friction of Rough Partially Lubricated Surfaces. *Tribology Letters*, **2021**, 69, 1 2.8