

Dirk Dietzel

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

852
citations

567281

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h-index

477307

29
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all docs

30
docs citations

30
times ranked

696
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear-assisted contact aging of single-asperity nanojunctions. <i>Physical Review B</i> , 2022, 105, .	3.2	3
2	Thermal Activation of Nanoscale Wear. <i>Physical Review Letters</i> , 2021, 126, 196101.	7.8	7
3	Characterization of Vegard strain related to exceptionally fast Cu-chemical diffusion in Cu ₂ Mo ₆ S ₈ by an advanced electrochemical strain microscopy method. <i>Scientific Reports</i> , 2021, 11, 18133.	3.3	1
4	Conformable metal oxide platelets – A smart surface armor for green tribology. <i>Tribology International</i> , 2021, 162, 107138.	5.9	3
5	Tribological Analysis of Contacts Between Glass and Tungsten Carbide Near the Glass Transition Temperature. <i>Tribology Letters</i> , 2020, 68, 1.	2.6	5
6	Single-asperity sliding friction across the superconducting phase transition. <i>Science Advances</i> , 2020, 6, eaay0165.	10.3	18
7	Friction vs. Area Scaling of Superlubric NaCl-Particles on Graphite. <i>Lubricants</i> , 2019, 7, 66.	2.9	8
8	Lattice Discontinuities of 1T-TaS ₂ across First Order Charge Density Wave Phase Transitions. <i>Scientific Reports</i> , 2019, 9, 7066.	3.3	17
9	Tribological properties of a phyllosilicate based microparticle oil additive. <i>Wear</i> , 2019, 426-427, 835-844.	3.1	9
10	Temperature Activates Contact Aging in Silica Nanocontacts. <i>Physical Review X</i> , 2019, 9, .	8.9	7
11	Nanoscale Characterization of Ion Mobility by Temperature-Controlled Li-Nanoparticle Growth. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5476-5483.	8.0	13
12	Friction fluctuations of gold nanoparticles in the superlubric regime. <i>Nanotechnology</i> , 2018, 29, 155702.	2.6	28
13	Friction anomalies at first-order transition spinodals: 1T-TaS ₂ . <i>New Journal of Physics</i> , 2018, 20, 023033.	2.9	4
14	Recent highlights in nanoscale and mesoscale friction. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1995-2014.	2.8	27
15	Image contrast mechanisms in dynamic friction force microscopy: Antimony particles on graphite. <i>Journal of Applied Physics</i> , 2017, 121, 044307.	2.5	1
16	Nanotribological Properties of Hexadecanethiol Self-Assembled Monolayers on Au(111): Structure, Temperature, and Velocity. <i>Langmuir</i> , 2017, 33, 6005-6010.	3.5	5
17	Limitations of Structural Superlubricity: Chemical Bonds versus Contact Size. <i>ACS Nano</i> , 2017, 11, 7642-7647.	14.6	83
18	Time Strengthening of Crystal Nanocontacts. <i>Physical Review Letters</i> , 2017, 118, 246101.	7.8	26

#	ARTICLE	IF	CITATIONS
19	Universal Aging Mechanism for Static and Sliding Friction of Metallic Nanoparticles. <i>Physical Review Letters</i> , 2016, 117, 025502.	7.8	27
20	Tip radius quantification using feature-size mapping of field ion microscopy images. <i>Physical Review B</i> , 2014, 90, .	3.2	1
21	Influence of Contact Aging on Nanoparticle Friction Kinetics. <i>Physical Review Letters</i> , 2014, 112, 155503.	7.8	24
22	Nanotribological studies using nanoparticle manipulation: Principles and application to structural lubricity. <i>Friction</i> , 2014, 2, 114-139.	6.4	40
23	Scaling Laws of Structural Lubricity. <i>Physical Review Letters</i> , 2013, 111, 235502.	7.8	136
24	Spinning and translational motion of Sb nanoislands manipulated on MoS ₂ . <i>Nanotechnology</i> , 2013, 24, 325302.	2.6	16
25	Nanoscale electrochemical measurements on a lithium-ion conducting glass ceramic: In-situ monitoring of the lithium particle growth. <i>Electrochemistry Communications</i> , 2012, 18, 74-77.	4.7	15
26	Understanding frictional duality and bi-duality: Sb-nanoparticles on HOPG. <i>Nanotechnology</i> , 2011, 22, 085704.	2.6	24
27	Frictional duality of metallic nanoparticles: Influence of particle morphology, orientation, and air exposure. <i>Physical Review B</i> , 2010, 82, .	3.2	32
28	Transition from static to kinetic friction of metallic nanoparticles. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	38
29	Frictional Duality Observed during Nanoparticle Sliding. <i>Physical Review Letters</i> , 2008, 101, 125505.	7.8	160
30	Interfacial friction obtained by lateral manipulation of nanoparticles using atomic force microscopy techniques. <i>Journal of Applied Physics</i> , 2007, 102, 084306.	2.5	74