Omur E Dagdeviren

List of Publications by Year
in descending order

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Version: 2024-02-01

24 papers	289 citations	933447 10 h-index	888059 17 g-index
24 all docs	24 docs citations	24 times ranked	413 citing authors

#	Article	IF	Citations
1	Atomic-scale homogeneous plastic flow beyond near-theoretical yield stress in a metallic glass. Communications Materials, 2021, 2, .	6.9	10
2	Confronting interatomic force measurements. Review of Scientific Instruments, 2021, 92, 063703.	1.3	1
3	The Effect of Photoinduced Surface Oxygen Vacancies on the Charge Carrier Dynamics in TiO₂ Films. Nano Letters, 2021, 21, 8348-8354.	9.1	29
4	Ergodic and Nonergodic Dynamics of Oxygen Vacancy Migration at the Nanoscale in Inorganic Perovskites. Nano Letters, 2020, 20, 7530-7535.	9.1	11
5	Direct imaging, three-dimensional interaction spectroscopy, and friction anisotropy of atomic-scale ripples on MoS2. Npj 2D Materials and Applications, 2020, 4, .	7.9	10
6	Review of time-resolved non-contact electrostatic force microscopy techniques with applications to ionic transport measurements. Beilstein Journal of Nanotechnology, 2019, 10, 617-633.	2.8	23
7	Amplitude Dependence of Resonance Frequency and its Consequences for Scanning Probe Microscopy. Sensors, 2019, 19, 4510.	3.8	5
8	Calibration of the oscillation amplitude of electrically excited scanning probe microscopy sensors. Review of Scientific Instruments, 2019, 90, 013703.	1.3	9
9	Limit of Temporal Resolution in Atomic Force Microscopy: Speed of Imaging with Atomically Engineered Tips While Preserving Picometer-Range Spatial Resolution. Physical Review Applied, 2019, 11, .	3.8	1
10	Accuracy of tip-sample interaction measurements using dynamic atomic force microscopy techniques: Dependence on oscillation amplitude, interaction strength, and tip-sample distance. Review of Scientific Instruments, 2019, 90, 033707.	1.3	6
11	Quantifying Tip-Sample Interactions in Vacuum Using Cantilever-Based Sensors: An Analysis. Physical Review Applied, 2018, 9, .	3.8	19
12	Atomic imprinting into metallic glasses. Communications Physics, 2018, 1, .	5.3	28
13	Eliminating the effect of acoustic noise on cantilever spring constant calibration. Applied Physics Letters, 2018, 113, .	3.3	7
14	Exploring load, velocity, and surface disorder dependence of friction with one-dimensional and two-dimensional models. Nanotechnology, 2018, 29, 315704.	2.6	11
15	Nanotribological properties of bulk metallic glasses. Applied Surface Science, 2018, 458, 344-349.	6.1	5
16	Experiments to investigate the acoustic properties of sound propagation. Physics Education, 2018, 53, 045007.	0.5	1
17	Length Scale and Dimensionality of Defects in Epitaxial SnTe Topological Crystalline Insulator Films. Advanced Materials Interfaces, 2017, 4, 1601011.	3.7	6
18	Crystalline Insulators: Length Scale and Dimensionality of Defects in Epitaxial SnTe Topological Crystalline Insulator Films (Adv. Mater. Interfaces 2/2017). Advanced Materials Interfaces, 2017, 4, .	3.7	1

#	Article	IF	Citations
19	Numerical performance analysis of quartz tuning fork-based force sensors. Measurement Science and Technology, 2017, 28, 015102.	2.6	9
20	Optimizing qPlus sensor assemblies for simultaneous scanning tunneling and noncontact atomic force microscopy operation based on finite element method analysis. Beilstein Journal of Nanotechnology, 2017, 8, 657-666.	2.8	12
21	Surface phase, morphology, and charge distribution transitions on vacuum and ambient annealed<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>(100). Physical Review B, 2016, 93, .	3.2	34
22	Exploring site-specific chemical interactions at surfaces: a case study on highly ordered pyrolytic graphite. Nanotechnology, 2016, 27, 485708.	2.6	5
23	Robust high-resolution imaging and quantitative force measurement with tuned-oscillator atomic force microscopy. Nanotechnology, 2016, 27, 065703.	2.6	21
24	Probing three-dimensional surface force fields with atomic resolution: Measurement strategies, limitations, and artifact reduction. Beilstein Journal of Nanotechnology, 2012, 3, 637-650.	2.8	25