

Omur E Dagdeviren

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

289
citations

933447

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h-index

888059

17
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24
all docs

24
docs citations

24
times ranked

413
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface phase, morphology, and charge distribution transitions on vacuum and ambient annealed SrTiO_3 (100). <i>Physical Review B</i> , 2016, 93, .		34
2	The Effect of Photoinduced Surface Oxygen Vacancies on the Charge Carrier Dynamics in TiO_2 Films. <i>Nano Letters</i> , 2021, 21, 8348-8354.	9.1	29
3	Atomic imprinting into metallic glasses. <i>Communications Physics</i> , 2018, 1, .	5.3	28
4	Probing three-dimensional surface force fields with atomic resolution: Measurement strategies, limitations, and artifact reduction. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 637-650.	2.8	25
5	Review of time-resolved non-contact electrostatic force microscopy techniques with applications to ionic transport measurements. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 617-633.	2.8	23
6	Robust high-resolution imaging and quantitative force measurement with tuned-oscillator atomic force microscopy. <i>Nanotechnology</i> , 2016, 27, 065703.	2.6	21
7	Quantifying Tip-Sample Interactions in Vacuum Using Cantilever-Based Sensors: An Analysis. <i>Physical Review Applied</i> , 2018, 9, .	3.8	19
8	Optimizing qPlus sensor assemblies for simultaneous scanning tunneling and noncontact atomic force microscopy operation based on finite element method analysis. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 657-666.	2.8	12
9	Exploring load, velocity, and surface disorder dependence of friction with one-dimensional and two-dimensional models. <i>Nanotechnology</i> , 2018, 29, 315704.	2.6	11
10	Ergodic and Nonergodic Dynamics of Oxygen Vacancy Migration at the Nanoscale in Inorganic Perovskites. <i>Nano Letters</i> , 2020, 20, 7530-7535.	9.1	11
11	Direct imaging, three-dimensional interaction spectroscopy, and friction anisotropy of atomic-scale ripples on MoS_2 . <i>Npj 2D Materials and Applications</i> , 2020, 4, .	7.9	10
12	Atomic-scale homogeneous plastic flow beyond near-theoretical yield stress in a metallic glass. <i>Communications Materials</i> , 2021, 2, .	6.9	10
13	Numerical performance analysis of quartz tuning fork-based force sensors. <i>Measurement Science and Technology</i> , 2017, 28, 015102.	2.6	9
14	Calibration of the oscillation amplitude of electrically excited scanning probe microscopy sensors. <i>Review of Scientific Instruments</i> , 2019, 90, 013703.	1.3	9
15	Eliminating the effect of acoustic noise on cantilever spring constant calibration. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	7
16	Length Scale and Dimensionality of Defects in Epitaxial SnTe Topological Crystalline Insulator Films. <i>Advanced Materials Interfaces</i> , 2017, 4, 1601011.	3.7	6
17	Accuracy of tip-sample interaction measurements using dynamic atomic force microscopy techniques: Dependence on oscillation amplitude, interaction strength, and tip-sample distance. <i>Review of Scientific Instruments</i> , 2019, 90, 033707.	1.3	6
18	Exploring site-specific chemical interactions at surfaces: a case study on highly ordered pyrolytic graphite. <i>Nanotechnology</i> , 2016, 27, 485708.	2.6	5

#	ARTICLE	IF	CITATIONS
19	Nanotribological properties of bulk metallic glasses. Applied Surface Science, 2018, 458, 344-349.	6.1	5
20	Amplitude Dependence of Resonance Frequency and its Consequences for Scanning Probe Microscopy. Sensors, 2019, 19, 4510.	3.8	5
21	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
22	Experiments to investigate the acoustic properties of sound propagation. Physics Education, 2018, 53, 045007.	0.5	1
23	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
24	Confronting interatomic force measurements. Review of Scientific Instruments, 2021, 92, 063703.	1.3	1