Jindrich Mach

List of Publications by Year
in descending order

20 papers	224 citations	1040056 9 h-index	996975 15 g-index
20 all docs	20 docs citations	20 times ranked	357 citing authors

#	Article	IF	Citations
1	Nanometer-Sized Water Bridge and Pull-Off Force in AFM at Different Relative Humidities: Reproducibility Measurement and Model Based on Surface Tension Change. Journal of Physical Chemistry B, 2017, 121, 610-619.	2.6	40
2	Ultrasmooth metallic foils for growth of high quality graphene by chemical vapor deposition. Nanotechnology, 2014, 25, 185601.	2.6	36
3	Analyzing the surface layer after WEDM depending on the parameters of a machine for the 16MnCr5 steel. Measurement: Journal of the International Measurement Confederation, 2016, 94, 771-779.	5.0	33
4	Kelvin Probe Force Microscopy and Calculation of Charge Transport in a Graphene/Silicon Dioxide System at Different Relative Humidity. ACS Applied Materials & Interfaces, 2018, 10, 11987-11994.	8.0	16
5	In-situ observation of ã€˜110ã€‰ oriented Ge nanowire growth and associated collector droplet behavior. Applied Physics Letters, 2011, 99, .	3.3	15
6	Electronic transport properties of graphene doped by gallium. Nanotechnology, 2017, 28, 415203.	2.6	14
7	Mechanism and Suppression of Physisorbed-Water-Caused Hysteresis in Graphene FET Sensors. ACS Sensors, 2020, 5, 2940-2949.	7.8	14
8	Selective growth of Co islands on ion beam induced nucleation centers in a native SiO2 film. Journal of Applied Physics, 2009, 105, .	2.5	13
9	Deposition and in-situ characterization of ultra-thin films. Thin Solid Films, 2004, 459, 17-22.	1.8	10
10	An ultra-low energy (30â€“200ÂeV) ion-atomic beam source for ion-beam-assisted deposition in ultrahigh vacuum. Review of Scientific Instruments, 2011, 82, 083302.	1.3	9
11	Low temperature selective growth of GaN single crystals on pre-patterned Si substrates. Applied Surface Science, 2019, 497, 143705.	6.1	4
12	Calcium and fluorine signals in HS-LEIS for CaF2(111) and powderâ€”Quantification of atomic surface concentrations using LiF(001), Ca, and Cu references. Surface Science Spectra, 2020, 27, .	1.3	4
13	A study of Ga layers on Si(100)-(2Ã—1) by SR-PES: Influence of adsorbed water. Surface Science, 2007, 601, 2047-2053.	1.9	3
14	Selective Growth of Metallic Nanostructures on Surfaces Patterned by AFM Local Anodic Oxidation. Journal of Nanoscience and Nanotechnology, 2009, 9, 5887-5890.	0.9	3
15	Optimization of ion-atomic beam source for deposition of GaN ultrathin films. Review of Scientific Instruments, 2014, 85, 083302.	1.3	3
16	Kinetics of Guided Growth of Horizontal GaN Nanowires on Flat and Faceted Sapphire Surfaces. Nanomaterials, 2021, 11, 624.	4.1	3
17	Atomic hydrogen induced gallium nanocluster formation on the Si(1 0 0) surface. Surface Science, 2008, 602, 1898-1902.	1.9	2
18	Correlative Raman Imaging and Scanning Electron Microscopy: The Role of Single Ga Islands in Surface-Enhanced Raman Spectroscopy of Graphene. Journal of Physical Chemistry C, 2022, 126, 4508-4514.	3.1	2

#	Article	IF	Citations
19	Analysis of Thin Films by Time-of-Flight Low Energy Ion Scattering. Acta Physica Polonica A, 2007, 111, 335-341.	0.5	0
20	Density functional study of gallium clusters on graphene: electronic doping and diffusion. Journal of Physics Condensed Matter, 2021, 33, 025002.	1.8	0