

Markus Kratzer

List of Publications by Year in descending order

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56
papers

798
citations

471371

17
h-index

580701

25
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59
all docs

59
docs citations

59
times ranked

1330
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of polymethylmethacrylate-transfer residues on the growth of organic semiconductor molecules on chemical vapor deposited graphene. Applied Physics Letters, 2015, 106, .	1.5	54
2	Atomic force microscopy based manipulation of graphene using dynamic plowing lithography. Nanotechnology, 2013, 24, 015303.	1.3	50
3	Electrical properties of ZnO nanorods studied by conductive atomic force microscopy. Journal of Applied Physics, 2011, 110, .	1.1	39
4	Adsorption/desorption of H ₂ and CO on Zn-modified Pd(111). Journal of Chemical Physics, 2008, 129, 224706.	1.2	36
5	Growth and Desorption Kinetics of Ultrathin Zn Layers on Pd(111). Journal of Physical Chemistry C, 2009, 113, 9788-9796.	1.5	36
6	Inkjet Printing of Soft, Stretchable Optical Waveguides through the Photopolymerization of High-Profile Linear Patterns. ACS Applied Materials & Interfaces, 2017, 9, 4941-4947.	4.0	34
7	UV-induced modulation of the conductivity of polyaniline: towards a photo-patternable charge injection layer for structured organic light emitting diodes. Journal of Materials Chemistry, 2012, 22, 2922-2928.	6.7	29
8	Photoresponse from single upright-standing ZnO nanorods explored by photoconductive AFM. Beilstein Journal of Nanotechnology, 2013, 4, 208-217.	1.5	29
9	Anti-adhesive layers on stainless steel using thermally stable dipodal perfluoroalkyl silanes. Applied Surface Science, 2017, 416, 824-833.	3.1	27
10	Epitaxy of highly ordered organic semiconductor crystallite networks supported by hexagonal boron nitride. Scientific Reports, 2016, 6, 38519.	1.6	26
11	Probing charge transfer between molecular semiconductors and graphene. Scientific Reports, 2017, 7, 9544.	1.6	25
12	Thin film growth of aromatic rod-like molecules on graphene. Nanotechnology, 2016, 27, 292001.	1.3	21
13	Surface analysis of epitaxially grown GeSn alloys with Sn contents between 15% and 18%. Surface and Interface Analysis, 2017, 49, 297-302.	0.8	21
14	Piezoelectric Properties of Zinc Oxide Thin Films Grown by Plasma-Enhanced Atomic Layer Deposition. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000319.	0.8	20
15	Preparation and calibration of ultrathin Zn layers on Pd(111). Applied Surface Science, 2009, 255, 5755-5759.	3.1	19
16	Reconstruction of the domain orientation distribution function of polycrystalline PZT ceramics using vector piezoresponse force microscopy. Scientific Reports, 2018, 8, 422.	1.6	18
17	Interfacial Band Engineering of MoS ₂ /Gold Interfaces Using Pyrimidine-Containing Self-Assembled Monolayers: Toward Contact-Resistance-Free Bottom-Contacts. Advanced Electronic Materials, 2020, 6, 2000110.	2.6	18
18	Atomic Force Microscopy as a Tool to Explore Triboelectrostatic Phenomena in Mineral Processing. Chemie-Ingenieur-Technik, 2014, 86, 857-864.	0.4	17

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19	Growth of <i>para</i> -Hexaphenyl Thin Films on Flat, Atomically Clean versus Air-Passivated TiO ₂ (110) Surfaces. Journal of Physical Chemistry C, 2015, 119, 17004-17015.	1.5	17
20	A theoretical study of Zn adsorption and desorption on a Pd(111) substrate. Surface Science, 2010, 604, 926-931.	0.8	16
21	Adsorption and epitaxial growth of small organic semiconductors on hexagonal boron nitride. Journal Physics D: Applied Physics, 2019, 52, 383001.	1.3	15
22	Two-dimensional talc as a van der Waals material for solid lubrication at the nanoscale. Nanotechnology, 2021, 32, 265701.	1.3	14
23	Principal Factors of Contact Charging of Minerals for a Successful Triboelectrostatic Separation Process – a Review. BHM-Zeitschrift Fuer Rohstoffe Geotechnik Metallurgie Werkstoffe Maschinen-Und Anlagentechnik, 2016, 161, 359-382.	0.4	13
24	Effects of hole-transport layer homogeneity in organic solar cells – A multi-length scale study. Surfaces and Interfaces, 2017, 6, 72-80.	1.5	13
25	Methanol adsorption on Cu(110) and the angular distribution of the reaction products. Journal of Chemical Physics, 2007, 126, 164710.	1.2	11
26	Electrical and photovoltaic properties of self-assembled Ge nanodomes on Si(001). Physical Review B, 2012, 86, .	1.1	11
27	Island shape anisotropy in organic thin film growth induced by ion-beam irradiated rippled surfaces. Physical Chemistry Chemical Physics, 2014, 16, 26112-26118.	1.3	11
28	Single-step fabrication and work function engineering of Langmuir-Blodgett assembled few-layer graphene films with Li and Au salts. Scientific Reports, 2020, 10, 8476.	1.6	11
29	Reaction and desorption kinetics of H ₂ and H ₂ O on activated and non-activated palladium surfaces. Vacuum, 2005, 80, 81-86.	1.6	10
30	Temperature dependent growth morphologies of parahexaphenyl on SiO ₂ supported exfoliated graphene. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 04D114.	0.6	10
31	Local charge trapping in Ge nanoclustersdetected by Kelvin probe force microscopy. Applied Surface Science, 2016, 389, 783-789.	3.1	10
32	Manipulating the activation barrier for H ₂ (D ₂) desorption from potassium-modified palladium surfaces. Journal of Chemical Physics, 2005, 123, 204702.	1.2	9
33	Molecules on rails: friction anisotropy and preferential sliding directions of organic nanocrystallites on two-dimensional materials. Nanoscale, 2018, 10, 18835-18845.	2.8	9
34	Direct determination of the area function for nanoindentation experiments. Journal of Materials Research, 2021, 36, 2154-2165.	1.2	9
35	Layer Dependent Wetting in Parahexaphenyl Thin Film Growth on Graphene. E-Journal of Surface Science and Nanotechnology, 2014, 12, 31-39.	0.1	8
36	Model reaction studies on vanadium oxide nanostructures on Pd(111). Journal of Chemical Physics, 2006, 125, 074703.	1.2	7

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37	Investigating inhomogeneous electronic properties of radial junction solar cells using correlative microscopy. Japanese Journal of Applied Physics, 2015, 54, 08KA08.	0.8	7
38	Iron-rich talc as air-stable platform for magnetic two-dimensional materials. Npj 2D Materials and Applications, 2021, 5, .	3.9	7
39	Angular distribution of desorbing/permeating deuterium from modified Pd(111) surfaces. Surface Science, 2007, 601, 3456-3463.	0.8	6
40	Nanoscale electrical characterization of arrowhead defects in GaInP thin films grown on Ge. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, C5G5-C5G10.	0.6	6
41	Influence of TiO ₂ (110) surface roughness on growth and stability of thin organic films. Journal of Chemical Physics, 2016, 145, 144703.	1.2	6
42	Growth morphologies of dihydro-tetraaza-acenes on c-plane sapphire. Surface Science, 2018, 678, 128-135.	0.8	6
43	Light-Assisted Charge Propagation in Networks of Organic Semiconductor Crystallites on Hexagonal Boron Nitride. Advanced Functional Materials, 2019, 29, 1903816.	7.8	6
44	The role of the probe tip material in distinguishing p- and n-type domains in bulk heterojunction solar cells by atomic force microscopy based methods. Journal of Applied Physics, 2019, 125, 185305.	1.1	5
45	A modelling approach to describe the DC current-voltage behaviour of low-voltage zinc oxide varistors. Open Ceramics, 2021, 6, 100113.	1.0	5
46	Time-of-flight studies on catalytic model reactions. Topics in Catalysis, 2007, 46, 189-199.	1.3	4
47	Template-assisted synthesis of CdS nanocrystal arrays in chemically inhomogeneous pores using a vapor-solid mechanism. RSC Advances, 2015, 5, 27496-27501.	1.7	3
48	Fabrication of ion bombardment induced rippled TiO ₂ surfaces to influence subsequent organic thin film growth. Journal of Physics Condensed Matter, 2018, 30, 283001.	0.7	3
49	Molecular Structure and Electronic Properties of <i>para</i> -Hexaphenyl Monolayer on Atomically Flat Rutile TiO ₂ (110). Journal of Physical Chemistry C, 2020, 124, 5681-5689.	1.5	3
50	Probing the charge transfer and electron-hole asymmetry in graphene-graphene quantum dot heterostructure. Nanotechnology, 2022, 33, 325704.	1.3	2
51	Water Formation on Clean and Vanadium Oxide Covered Pd(111) by Permeating Deuterium. Journal of Physical Chemistry C, 2007, 111, 12723-12729.	1.5	1
52	Initial Stage of <i>para</i> -Hexaphenyl Thin-Film Growth Controlled by the Step Structure of the Ion-Beam-Modified TiO ₂ (110) Surface. Journal of Physical Chemistry C, 2019, 123, 20257-20269.	1.5	1
53	Synthesis and Assembly of Zinc Oxide Microcrystals by a Low-Temperature Dissolution-Recipitation Process: Lessons Learned About Twin Formation in Heterogeneous Reactions. Chemistry - A European Journal, 2020, 26, 9319-9329.	1.7	1
54	2D Semiconductors: Interfacial Band Engineering of MoS ₂ /Gold Interfaces Using Pyrimidine-Containing Self-Assembled Monolayers: Toward Contact-Resistance-Free Bottom-Contacts (Adv. Electron. Mater. 5/2020). Advanced Electronic Materials, 2020, 6, 2070026.	2.6	1

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55	Organic Nanostructures: Light-Assisted Charge Propagation in Networks of Organic Semiconductor Crystallites on Hexagonal Boron Nitride (<i>Adv. Funct. Mater.</i> 43/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970300.	7.8	0
56	Local-probe based electrical characterization of a multiphase intermetallic β -TiAl based alloy. <i>Journal of Applied Physics</i> , 2021, 129, 205107.	1.1	0