

Jan ÅEechal

List of Publications by Year in descending order

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all docs

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docs citations

55
times ranked

1523
citing authors

#	ARTICLE	IF	CITATIONS
1	W 4f electron binding energies in amorphous W-B-C systems. Applied Surface Science, 2022, 586, 152824.	3.1	4
2	Role of Phase Stabilization and Surface Orientation in 4,4'-Biphenyl-Dicarboxylic Acid Self-Assembly and Transformation on Silver Substrates. Journal of Physical Chemistry C, 2022, 126, 9989-9997.	1.5	3
3	Remarkably stable metal-organic frameworks on an inert substrate: M-TCNQ on graphene (M = Ni, Fe). Tj ETQq1, 1, 0.784314 rgBT / 2.8	2.8	3
4	Kinetic control of self-assembly using a low-energy electron beam. Applied Surface Science, 2022, 600, 154106.	3.1	5
5	Polymer pencil leads as a porous nanocomposite graphite material for electrochemical applications: The impact of chemical and thermal treatments. Electrochemistry Communications, 2021, 126, 107018.	2.3	11
6	Phase transformations in a complete monolayer of 4,4'-biphenyl-dicarboxylic acid on Ag(001). Applied Surface Science, 2021, 547, 149115.	3.1	6
7	Multiscale Analysis of Phase Transformations in Self-Assembled Layers of 4,4'-Biphenyl Dicarboxylic Acid on the Ag(001) Surface. ACS Nano, 2020, 14, 7269-7279.	7.3	13
8	Detachment of epitaxial graphene from SiC substrate by XUV laser radiation. Carbon, 2020, 161, 36-43.	5.4	3
9	Single-layer graphene on epitaxial FeRh thin films. Applied Surface Science, 2020, 514, 145923.	3.1	9
10	Complex k-uniform tilings by a simple bitopic precursor self-assembled on Ag(001) surface. Nature Communications, 2020, 11, 1856.	5.8	14
11	Step-edge assisted large scale FeSe monolayer growth on epitaxial Bi ₂ Se ₃ thin films. New Journal of Physics, 2020, 22, 073050.	1.2	8
12	Gas sensitive ZnO structures with reduced humidity-interference. Sensors and Actuators B: Chemical, 2019, 301, 127054.	4.0	35
13	Temperature effect on Al predeposition and AlN nucleation affecting the buffer layer performance for the GaN-on-Si based high-voltage devices. Japanese Journal of Applied Physics, 2019, 58, SC1018.	0.8	7
14	Identification of Two-Dimensional FeO ₂ Termination of Bulk Hematite (±-Fe ₂ O ₃) (001) Surface. Journal of Physical Chemistry C, 2019, 123, 14312-14318.	1.5	5
15	Molecular Passivation of Substrate Step Edges as Origin of Unusual Growth Behavior of 4,4'-Biphenyl Dicarboxylic Acid on Cu(001). Journal of Physical Chemistry C, 2018, 122, 2815-2820.	1.5	5
16	Simple device for the growth of micrometer-sized monocrystalline single-layer graphene on SiC(0001). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	4
17	Ambipolar remote graphene doping by low-energy electron beam irradiation. Nanoscale, 2018, 10, 17520-17524.	2.8	6
18	Determination of NH ₂ concentration on 3-aminopropyl tri-ethoxy silane layers and cyclopropylamine plasma polymers by liquid-phase derivatization with 5-iodo 2-furaldehyde. Applied Surface Science, 2017, 414, 390-397.	3.1	16

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19	Aerosol-assisted Chemical Vapor Deposition of Metal Oxide Structures: Zinc Oxide Rods. Journal of Visualized Experiments, 2017, , .	0.2	7
20	X-ray induced electrostatic graphene doping via defect charging in gate dielectric. Scientific Reports, 2017, 7, 563.	1.6	12
21	Flexible foils formed by a prolonged electron beam irradiation in scanning electron microscope. Applied Surface Science, 2017, 423, 538-541.	3.1	5
22	Magneto-optical investigations of molecular nanomagnet monolayers. Dalton Transactions, 2016, 45, 7555-7558.	1.6	5
23	CO ₂ Binding and Induced Structural Collapse of a Surface-Supported Metal-Organic Network. Journal of Physical Chemistry C, 2016, 120, 18622-18630.	1.5	12
24	ZnO Rods with Exposed {100} Facets Grown via a Self-Catalyzed Vapor-Solid Mechanism and Their Photocatalytic and Gas Sensing Properties. ACS Applied Materials & Interfaces, 2016, 8, 33335-33342.	4.0	42
25	The robust bio-immobilization based on pulsed plasma polymerization of cyclopropylamine and glutaraldehyde coupling chemistry. Applied Surface Science, 2016, 360, 28-36.	3.1	28
26	Decolorization of organic dyes by gold nanoflowers prepared on reduced graphene oxide by tea polyphenols. Catalysis Science and Technology, 2016, 6, 3008-3017.	2.1	25
27	Real-time observation of self-limiting SiO ₂ /Si decomposition catalysed by gold silicide droplets. RSC Advances, 2015, 5, 101726-101731.	1.7	14
28	Deposition of stable amine coating onto polycaprolactone nanofibers by low pressure cyclopropylamine plasma polymerization. Thin Solid Films, 2015, 581, 7-13.	0.8	36
29	Cyclopropylamine plasma polymers deposited onto quartz crystal microbalance for biosensing application. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2801-2808.	0.8	27
30	Optimization of Cyclopropylamine Plasma Polymerization toward Enhanced Layer Stability in Contact with Water. Plasma Processes and Polymers, 2014, 11, 532-544.	1.6	56
31	Preparation of CuO/ZnO nanocomposite and its application as a cysteine/homocysteine colorimetric and fluorescence detector. Colloids and Surfaces B: Biointerfaces, 2014, 123, 951-958.	2.5	16
32	Convergent and divergent two-dimensional coordination networks formed through substrate-activated or quenched alkynyl ligation. Chemical Communications, 2014, 50, 9973-9976.	2.2	26
33	Atomic-Scale Observation of Multiconformational Binding and Energy Level Alignment of Ruthenium-Based Photosensitizers on TiO ₂ Anatase. Nano Letters, 2014, 14, 563-569.	4.5	67
34	Detachment Limited Kinetics of Gold Diffusion through Ultrathin Oxide Layers. Journal of Physical Chemistry C, 2014, 118, 17549-17555.	1.5	14
35	Ultrasoother metallic foils for growth of high quality graphene by chemical vapor deposition. Nanotechnology, 2014, 25, 185601.	1.3	36
36	Functionalization of Open Two-Dimensional Metal-Organic Templates through the Selective Incorporation of Metal Atoms. Journal of Physical Chemistry C, 2013, 117, 8871-8877.	1.5	15

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37	Highly Adaptable Two-Dimensional Metal-Organic Coordination Networks on Metal Surfaces. <i>Journal of the American Chemical Society</i> , 2012, 134, 6072-6075.	6.6	77
38	Depth resolution enhancement by combined DSIMS and TOF-LEIS profiling. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 369-373.	0.6	7
39	Stability of hydrogen-terminated vicinal Si(111) surface under ambient atmosphere. <i>Applied Surface Science</i> , 2010, 256, 3423-3426.	3.1	17
40	Formation of copper islands on a native SiO ₂ surface at elevated temperatures. <i>Applied Surface Science</i> , 2010, 256, 3636-3641.	3.1	15
41	Angle-resolved XPS depth profiling of modeled structures: testing and improvement of the method. <i>Surface and Interface Analysis</i> , 2010, 42, 649-652.	0.8	5
42	Selective growth of Co islands on ion beam induced nucleation centers in a native SiO ₂ film. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	13
43	Characterization of oxidized gallium droplets on silicon surface: An ellipsoidal droplet shape model for angle resolved X-ray photoelectron spectroscopy analysis. <i>Thin Solid Films</i> , 2009, 517, 1928-1934.	0.8	6
44	Selective Growth of Metallic Nanostructures on Surfaces Patterned by AFM Local Anodic Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5887-5890.	0.9	3
45	Atomic hydrogen induced gallium nanocluster formation on the Si(1 0 0) surface. <i>Surface Science</i> , 2008, 602, 1898-1902.	0.8	2
46	Morphology of cobalt layers on native SiO ₂ surfaces at elevated temperatures: Formation of Co islands. <i>Surface Science</i> , 2008, 602, 2693-2698.	0.8	13
47	Collagen-grafted ultra-high molecular weight polyethylene for biomedical applications. <i>Chemical Papers</i> , 2008, 62, .	1.0	17
48	Self-limiting cyclic growth of gallium droplets on Si(111). <i>Nanotechnology</i> , 2008, 19, 475606.	1.3	15
49	Gallium structure on the Si(111)-(7 Å ⁻¹ × 7) surface: influence of Ga coverage and temperature. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 016011.	0.7	15
50	A study of Ga layers on Si(100)-(2Å ⁻¹ × 1) by SR-PES: Influence of adsorbed water. <i>Surface Science</i> , 2007, 601, 2047-2053.	0.8	3
51	A study of the formation and oxidation of PtSi by SR-PES. <i>Surface Science</i> , 2006, 600, 4717-4722.	0.8	19
52	In situ analysis of PMPSi by spectroscopic ellipsometry and XPS. <i>Surface and Interface Analysis</i> , 2004, 36, 1218-1221.	0.8	2
53	Deposition and in-situ characterization of ultra-thin films. <i>Thin Solid Films</i> , 2004, 459, 17-22.	0.8	10
54	Study of thin oxide films by ellipsometry and ARXPS. <i>Surface and Interface Analysis</i> , 2002, 34, 531-534.	0.8	0