

Jan ÅEechal

List of Publications by Year in descending order

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54
papers

840
citations

567144

15
h-index

552653

26
g-index

55
all docs

55
docs citations

55
times ranked

1523
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | Atomic-Scale Observation of Multiconformational Binding and Energy Level Alignment of Ruthenium-Based Photosensitizers on TiO ₂ Anatase. <i>Nano Letters</i> , 2014, 14, 563-569. | 4.5 | 67 |
| 3 | Optimization of Cyclopropylamine Plasma Polymerization toward Enhanced Layer Stability in Contact with Water. <i>Plasma Processes and Polymers</i> , 2014, 11, 532-544. | 1.6 | 56 |
| 4 | ZnO Rods with Exposed {100} Facets Grown via a Self-Catalyzed Vapor-Solid Mechanism and Their Photocatalytic and Gas Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33335-33342. | 4.0 | 42 |
| 5 | Ultrasoother metallic foils for growth of high quality graphene by chemical vapor deposition. <i>Nanotechnology</i> , 2014, 25, 185601. | 1.3 | 36 |
| 6 | Deposition of stable amine coating onto polycaprolactone nanofibers by low pressure cyclopropylamine plasma polymerization. <i>Thin Solid Films</i> , 2015, 581, 7-13. | 0.8 | 36 |
| 7 | Gas sensitive ZnO structures with reduced humidity-interference. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127054. | 4.0 | 35 |
| 8 | The robust bio-immobilization based on pulsed plasma polymerization of cyclopropylamine and glutaraldehyde coupling chemistry. <i>Applied Surface Science</i> , 2016, 360, 28-36. | 3.1 | 28 |
| 9 | Cyclopropylamine plasma polymers deposited onto quartz crystal microbalance for biosensing application. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2801-2808. | 0.8 | 27 |
| 10 | Convergent and divergent two-dimensional coordination networks formed through substrate-activated or quenched alkynyl ligation. <i>Chemical Communications</i> , 2014, 50, 9973-9976. | 2.2 | 26 |
| 11 | Decolorization of organic dyes by gold nanoflowers prepared on reduced graphene oxide by tea polyphenols. <i>Catalysis Science and Technology</i> , 2016, 6, 3008-3017. | 2.1 | 25 |
| 12 | A study of the formation and oxidation of PtSi by SRPES. <i>Surface Science</i> , 2006, 600, 4717-4722. | 0.8 | 19 |
| 13 | Collagen-grafted ultra-high molecular weight polyethylene for biomedical applications. <i>Chemical Papers</i> , 2008, 62, . | 1.0 | 17 |
| 14 | Stability of hydrogen-terminated vicinal Si(111) surface under ambient atmosphere. <i>Applied Surface Science</i> , 2010, 256, 3423-3426. | 3.1 | 17 |
| 15 | Preparation of CuO/ZnO nanocomposite and its application as a cysteine/homocysteine colorimetric and fluorescence detector. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 123, 951-958. | 2.5 | 16 |
| 16 | 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. <i>Applied Surface Science</i> , 2017, 414, 390-397. | 3.1 | 16 |
| 17 | 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 |
| 18 | Self-limiting cyclic growth of gallium droplets on Si(111). <i>Nanotechnology</i> , 2008, 19, 475606. | 1.3 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Formation of copper islands on a native SiO ₂ surface at elevated temperatures. Applied Surface Science, 2010, 256, 3636-3641. | 3.1 | 15 |
| 20 | 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 |
| 21 | Detachment Limited Kinetics of Gold Diffusion through Ultrathin Oxide Layers. Journal of Physical Chemistry C, 2014, 118, 17549-17555. | 1.5 | 14 |
| 22 | Real-time observation of self-limiting SiO ₂ /Si decomposition catalysed by gold silicide droplets. RSC Advances, 2015, 5, 101726-101731. | 1.7 | 14 |
| 23 | Complex k-uniform tilings by a simple bitopic precursor self-assembled on Ag(001) surface. Nature Communications, 2020, 11, 1856. | 5.8 | 14 |
| 24 | Morphology of cobalt layers on native SiO ₂ surfaces at elevated temperatures: Formation of Co islands. Surface Science, 2008, 602, 2693-2698. | 0.8 | 13 |
| 25 | Selective growth of Co islands on ion beam induced nucleation centers in a native SiO ₂ film. Journal of Applied Physics, 2009, 105, . | 1.1 | 13 |
| 26 | 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 |
| 27 | 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 |
| 28 | X-ray induced electrostatic graphene doping via defect charging in gate dielectric. Scientific Reports, 2017, 7, 563. | 1.6 | 12 |
| 29 | 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 |
| 30 | Deposition and in-situ characterization of ultra-thin films. Thin Solid Films, 2004, 459, 17-22. | 0.8 | 10 |
| 31 | Single-layer graphene on epitaxial FeRh thin films. Applied Surface Science, 2020, 514, 145923. | 3.1 | 9 |
| 32 | 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 |
| 33 | Depth resolution enhancement by combined DSIMS and TOF-LEIS profiling. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 369-373. | 0.6 | 7 |
| 34 | Aerosol-assisted Chemical Vapor Deposition of Metal Oxide Structures: Zinc Oxide Rods. Journal of Visualized Experiments, 2017, , . | 0.2 | 7 |
| 35 | 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 |
| 36 | Characterization of oxidized gallium droplets on silicon surface: An ellipsoidal droplet shape model for angle resolved X-ray photoelectron spectroscopy analysis. Thin Solid Films, 2009, 517, 1928-1934. | 0.8 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Ambipolar remote graphene doping by low-energy electron beam irradiation. <i>Nanoscale</i> , 2018, 10, 17520-17524. | 2.8 | 6 |
| 38 | Phase transformations in a complete monolayer of 4,4-Ā²-biphenyl-dicarboxylic acid on Ag(0 0 1). <i>Applied Surface Science</i> , 2021, 547, 149115. | 3.1 | 6 |
| 39 | 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 |
| 40 | Magneto-optical investigations of molecular nanomagnet monolayers. <i>Dalton Transactions</i> , 2016, 45, 7555-7558. | 1.6 | 5 |
| 41 | Flexible foils formed by a prolonged electron beam irradiation in scanning electron microscope. <i>Applied Surface Science</i> , 2017, 423, 538-541. | 3.1 | 5 |
| 42 | Molecular Passivation of Substrate Step Edges as Origin of Unusual Growth Behavior of 4,4-Ā²-Biphenyl Dicarboxylic Acid on Cu(001). <i>Journal of Physical Chemistry C</i> , 2018, 122, 2815-2820. | 1.5 | 5 |
| 43 | Identification of Two-Dimensional FeO ₂ Termination of Bulk Hematite Ā±-Fe ₂ O ₃ (0001) Surface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14312-14318. | 1.5 | 5 |
| 44 | Kinetic control of self-assembly using a low-energy electron beam. <i>Applied Surface Science</i> , 2022, 600, 154106. | 3.1 | 5 |
| 45 | Simple device for the growth of micrometer-sized monocrystalline single-layer graphene on SiC(0001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, . | 0.9 | 4 |
| 46 | W 4f electron binding energies in amorphous W-B-C systems. <i>Applied Surface Science</i> , 2022, 586, 152824. | 3.1 | 4 |
| 47 | A study of Ga layers on Si(100)-(2Ā-1) by SR-PES: Influence of adsorbed water. <i>Surface Science</i> , 2007, 601, 2047-2053. | 0.8 | 3 |
| 48 | 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 |
| 49 | Detachment of epitaxial graphene from SiC substrate by XUV laser radiation. <i>Carbon</i> , 2020, 161, 36-43. | 5.4 | 3 |
| 50 | Role of Phase Stabilization and Surface Orientation in 4,4-Ā²-Biphenyl-Dicarboxylic Acid Self-Assembly and Transformation on Silver Substrates. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9989-9997. | 1.5 | 3 |
| 51 | Remarkably stable metal-organic frameworks on an inert substrate: M-TCNQ on graphene (M = Ni, Fe.) Tj ETQq1_1_0.7843_3 rgBT / DV | 2.8 | 3 |
| 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 | Atomic hydrogen induced gallium nanocluster formation on the Si(1 0 0) surface. <i>Surface Science</i> , 2008, 602, 1898-1902. | 0.8 | 2 |
| 54 | Study of thin oxide films by ellipsometry and ARXPS. <i>Surface and Interface Analysis</i> , 2002, 34, 531-534. | 0.8 | 0 |