Thomas Schmidt

List of Publications by Year
in descending order

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108 papers	3,143 citations	159585 30 h-index	168389 53 g-index
111 all docs	111 docs citations	111 times ranked	3214 citing authors

#	Article	IF	Citations
1	Growth and Atomicâ€Scale Characterization of Ultrathin Silica and Germania Films: The Crucial Role of the Metal Support. Chemistry - A European Journal, 2021, 27, 1870-1885.	3.3	13
2	Frontispiece: Growth and Atomicâ€Scale Characterization of Ultrathin Silica and Germania Films: The Crucial Role of the Metal Support. Chemistry - A European Journal, 2021, 27, .	3.3	0
3	Low-Temperature Growth of Graphene on a Semiconductor. Journal of Physical Chemistry C, 2021, 125, 4243-4252.	3.1	6
4	Coupling of morphological instability and kinetic instability: Chemical waves in hydrogen oxidation on a bimetallic Ni/Rh(111) surface. Physical Review Materials, 2021, 5, .	2.4	1
5	Insights into Reaction Kinetics in Confined Space: Real Time Observation of Water Formation under a Silica Cover. Journal of the American Chemical Society, 2021, 143, 8780-8790.	13.7	22
6	A Simplified Method for Patterning Graphene on Dielectric Layers. ACS Applied Materials & Interfaces, 2021, 13, 37510-37516.	8.0	0
7	Plasma-assisted oxidation of Cu(100) and Cu(111). Chemical Science, 2021, 12, 14241-14253.	7.4	13
8	A Silica Bilayer Supported on Ru(0001): Following the Crystallineâ€to Vitreous Transformation in Real Time with Spectroâ€microscopy. Angewandte Chemie, 2020, 132, 10674-10680.	2.0	4
9	Impact of Nanomorphology on Surface Doping of Organic Semiconductors: The Pentaceneâ€“C60F48 Interface. ACS Applied Materials & Interfaces, 2020, 12, 25444-25452.	8.0	4
10	A Silica Bilayer Supported on Ru(0001): Following the Crystallineâ€to Vitreous Transformation in Real Time with Spectroâ€microscopy. Angewandte Chemie - International Edition, 2020, 59, 10587-10593.	13.8	15
11	Chapter model systems in heterogeneous catalysis at the atomic level: a personal view. Science China Chemistry, 2020, 63, 426-447.	8.2	14
12	Formation of a 2D Meta-stable Oxide by Differential Oxidation of AgCu Alloys. ACS Applied Materials & Interfaces, 2020, 12, 23595-23605.	8.0	9
13	The morphology of VO2/TiO2(001): terraces, facets, and cracks. Scientific Reports, 2020, 10, 22374.	3.3	9
14	Thin Oxide Films as Model Systems for Heterogeneous Catalysts. Springer Handbooks, 2020, , 267-328.	0.6	1
15	Interaction of water with oxide thin film model systems. Journal of Materials Research, 2019, 34, 360-378.	2.6	12
16	Growth of Epitaxial 3,4,9,10-Perylene Tetracarboxylic Dianhydride on Bi-Terminated Silicon. Journal of Physical Chemistry C, 2019, 123, 7097-7109.	3.1	1
17	Complex Monolayer Growth Dynamics of a Highly Symmetric Molecule: NTCDA on Ag(111). Journal of Physical Chemistry C, 2019, 123, 8244-8255.	3.1	2
18	Formation and Evolution of Ultrathin Silica Polymorphs on Ru(0001) Studied with Combined in Situ, Real-Time Methods. Journal of Physical Chemistry C, 2019, 123, 8228-8243.	3.1	13

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19	A Two-Dimensional â€˜Zigzagâ€™ Silica Polymorph on a Metal Support. Journal of the American Chemical Society, 2018, 140, 6164-6168.	13.7	14
20	Influence of Substrate Bonding and Surface Morphology on Dynamic Organic Layer Growth: Perylenetetracarboxylic Dianhydride on Au(111). Langmuir, 2018, 34, 5444-5453.	3.5	3
21	Water Formation under Silica Thin Films: Realâ€Time Observation of a Chemical Reaction in a Physically Confined Space. Angewandte Chemie - International Edition, 2018, 57, 8749-8753.	13.8	42
22	Spatially Resolved Insight into the Chemical and Electronic Structure of Solutionâ€Processed Perovskitesâ€”Why to (Not) Worry about Pinholes. Advanced Materials Interfaces, 2018, 5, 1701420.	3.7	11
23	Symmetry-Induced Structuring of Ultrathin FeO and Fe3O4 Films on Pt(111) and Ru(0001). Nanomaterials, 2018, 8, 719.	4.1	4
24	Wasserbildung unter dÃ¼nnen Silikaâ€Filmen: Echtzeitbeobachtung einer chemischen Reaktion in einem physikalisch eingegrenzten Raum. Angewandte Chemie, 2018, 130, 8885-8889.	2.0	6
25	Mechanism and Kinetics of Hematite Crystallization in Air: Linking Bulk and Surface Models via Mesoporous Films with Defined Nanostructure. Chemistry of Materials, 2017, 29, 1724-1734.	6.7	11
26	Exceptional Dewetting of Organic Semiconductor Films: The Case of Dinaphthothienothiophene (DNTT) at Dielectric Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 8384-8392.	8.0	28
27	Nanoscale patterning, macroscopic reconstruction, and enhanced surface stress by organic adsorption on vicinal surfaces. New Journal of Physics, 2017, 19, 013019.	2.9	9
28	In Situ Patterning of Ultrasharp Dopant Profiles in Silicon. ACS Nano, 2017, 11, 1683-1688.	14.6	7
29	The EIGER detector for low-energy electron microscopy and photoemission electron microscopy. Journal of Synchrotron Radiation, 2017, 24, 963-974.	2.4	17
30	LEEM and PEEM as Probing Tools to Address Questions in Catalysis. Catalysis Letters, 2017, 147, 2487-2497.	2.6	13
31	Correlation Between Substrate Morphology and the Initial Stages of Epitaxial Organic Growth: PTCDA/Ag(111). Journal of Physical Chemistry C, 2016, 120, 19271-19279.	3.1	11
32	Preparation of silica films on Ru(0001): A LEEM/PEEM study. Surface Science, 2016, 643, 45-51.	1.9	19
33	Phase transformations in thin iron oxide films: Spectromicroscopic study of velocity and shape of the reaction fronts. Surface Science, 2016, 648, 177-187.	1.9	38
34	Unraveling the Dynamic Nanoscale Reducibility (Ce⁴⁺ â†' Ce³⁺) of CeO_xâ€“Ru in Hydrogen Activation. Advanced Materials Interfaces, 2015, 2, 1500314.	3.7	42
35	Hydrogen: Unraveling the Dynamic Nanoscale Reducibility (Ce4+â†' Ce3+) of CeOx-Ru in Hydrogen Activation (Adv. Mater. Interfaces 18/2015). Advanced Materials Interfaces, 2015, 2, n/a-n/a.	3.7	1
36	Direct observation of epitaxial organic film growth: temperature-dependent growth mechanisms and metastability. Physical Chemistry Chemical Physics, 2015, 17, 29150-29160.	2.8	21

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37	Epitaxial, well-ordered ceria/lanthana high-k gate dielectrics on silicon. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	1.2	2
38	Interconversion of Î±-Fe₂O₃ and Fe₃O₄ Thin Films: Mechanisms, Morphology, and Evidence for Unexpected Substrate Participation. Journal of Physical Chemistry C, 2014, 118, 29068-29076.	3.1	66
39	Ultrathin, epitaxial cerium dioxide on silicon. Applied Physics Letters, 2014, 104, .	3.3	22
40	First experimental proof for aberration correction in XPEEM: Resolution, transmission enhancement, and limitation by space charge effects. Ultramicroscopy, 2013, 126, 23-32.	1.9	59
41	PHOTON STIMULATED DESORPTION. Series on Synchrotron Radiation Techniques and Applications, 2013, , 405-415.	0.2	0
42	Island shapes and aggregation steered by the geometry of the substrate lattice. Chemical Communications, 2012, 48, 6957.	4.1	11
43	Microstructural and compositional analyses of GaNâ€based nanostructures. Physica Status Solidi (B): Basic Research, 2011, 248, 1822-1836.	1.5	4
44	Innovative Measurement Techniques in Surface Science. ChemPhysChem, 2011, 12, 79-87.	2.1	28
45	Silicate-free growth of high-quality ultrathin cerium oxide films on Si(111). Physical Review B, 2011, 84, .	3.2	25
46	Double aberration correction in a low-energy electron microscope. Ultramicroscopy, 2010, 110, 1358-1361.	1.9	78
47	Locally Resolved Coreâ€hole Screening, Molecular Orientation, and Morphology in Thin Films of Diindenoperylene Deposited on Au(111) Single Crystals. Advanced Materials, 2010, 22, 3740-3744.	21.0	40
48	Ultrathin silver films on Ni(111). Physical Review B, 2010, 82, .	3.2	20
49	Atomic structure of the nonâ€polar GaN($ ar 2 $110) surface by crossâ€sectional scanning tunneling microscopy. Physica Status Solidi - Rapid Research Letters, 2009, 3, 91-93.	2.4	14
50	Nucleation in Organic Thin Film Growth: Perylene on Al2O3/Ni3Al(111). Journal of Physical Chemistry C, 2009, 113, 10990-10996.	3.1	32
51	An energy-dispersive VUV beamline for NEXAFS and other CFS/CIS studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 575, 470-475.	1.6	14
52	Orientation of Differently Substituted Phthalocyanines: First Layers and Thin Films. Molecular Crystals and Liquid Crystals, 2006, 455, 241-249.	0.9	7
53	Initial stage of silicon nitride nucleation on Si(111) by rf plasma-assisted growth. E-Journal of Surface Science and Nanotechnology, 2006, 4, 84-89.	0.4	10
54	Growth and formation of InGaN and GaN nano-structures studied by STM. E-Journal of Surface Science and Nanotechnology, 2006, 4, 90-95.	0.4	1

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55	Structural investigations of GaN films with X-ray standing waves. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 1729-1732.	0.8	1
56	N-plasma assisted MBE grown GaN films on Si(111). Physica Status Solidi (B): Basic Research, 2006, 243, 1416-1420.	1.5	10
57	Growth mode and molecular orientation of phthalocyanine molecules on metal single crystal substrates: A NEXAFS and XPS study. Surface Science, 2006, 600, 1077-1084.	1.9	79
58	Chemical bonding of PTCDA on Ag surfaces and the formation of interface states. Surface Science, 2006, 600, 1240-1251.	1.9	257
59	Influence of substrate morphology on organic layer growth: PTCDA on Ag(111). Chemical Physics, 2006, 325, 178-184.	1.9	70
60	High-resolution inner-shell excitation spectroscopy of H2-phthalocyanine. Journal of Chemical Physics, 2006, 125, 014705.	3.0	24
61	Orientation of substituted phthalocyanines on polycrystalline gold: distinguishing between the first layers and thin films. Chemical Physics Letters, 2005, 403, 1-6.	2.6	38
62	Tetra-t-butyl magnesium phthalocyanine on gold: Electronic structure and molecular orientation. Journal of Chemical Physics, 2005, 122, 064710.	3.0	29
63	A comparison of fine structures in high-resolution x-ray-absorption spectra of various condensed organic molecules. Journal of Chemical Physics, 2005, 123, 044509.	3.0	46
64	Surface Morphology and Island Shape of MOVPE Grown InGaN Nano-Island Ensembles Studied by STM. Materials Research Society Symposia Proceedings, 2005, 892, 759.	0.1	0
65	Orientation and electronic properties of pentacene molecules on SiO2 and GeS(0001) studied using x-ray absorption spectroscopy. Journal of Applied Physics, 2004, 96, 5596-5600.	2.5	22
66	Electron-Vibron Coupling in High-Resolution X-Ray Absorption Spectra of Organic Materials: NTCDA on Ag(111). Physical Review Letters, 2004, 93, 146406.	7.8	44
67	Highly ordered phthalocyanine thin films on a technically relevant polymer substrate. Journal of Applied Physics, 2004, 96, 4009-4011.	2.5	26
68	CoPt3 nanoparticles adsorbed on SiO2: a GISAXS and SEM study. Materials Research Society Symposia Proceedings, 2004, 840, Q6.10.1.	0.1	0
69	Local Structure of Amorphous Ice as Revealed by O K-Edge EXAFS. ChemPhysChem, 2004, 5, 509-514.	2.1	12
70	Anharmonicity of the core-excited state potential of an organic molecule from NEXAFS vibronic fine structure. Chemical Physics Letters, 2004, 392, 297-302.	2.6	13
71	High-Resolution Photoemission Study of Different NTCDA Monolayers on Ag(111):Â Bonding and Screening Influences on the Line Shapesâ€. Journal of Physical Chemistry B, 2004, 108, 14741-14748.	2.6	57
72	Line shapes and satellites in high-resolution x-ray photoelectron spectra of large Ï€-conjugated organic molecules. Journal of Chemical Physics, 2004, 121, 10260-10267.	3.0	117

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73	Fluorination of copper phthalocyanines: Electronic structure and interface properties. Journal of Applied Physics, 2003, 93, 9683-9692.	2.5	156
74	Growth of H2O layers on an ultra-thin Al2O3 film: from monomeric species to ice. Surface Science, 2003, 543, 131-140.	1.9	40
75	Energy calibration and intensity normalization in high-resolution NEXAFS spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2003, 129, 1-8.	1.7	70
76	Influence of As passivation on the electronic level alignment at BeTe/Si(111) interfaces. Physical Review B, 2003, 67, .	3.2	8
77	Multi-Method High-Resolution Surface Analysis with Slow Electrons. Springer Series in Materials Science, 2003, , 363-390.	0.6	4
78	XPEEM WITH ENERGY-FILTERING: ADVANTAGES AND FIRST RESULTS FROM THE SMART PROJECT. Surface Review and Letters, 2002, 09, 223-232.	1.1	94
79	Dissociation and oxidation of methanol on Cu(). Surface Science, 2002, 507-510, 845-850.	1.9	67
80	Energy level alignment at zinc blende Cd(Mn)Se/ZnTe/InAs(100) interfaces. Applied Physics Letters, 2002, 81, 3813-3815.	3.3	12
81	X-ray absorption spectra at the Ru and MnL2,3edges and long-range ferromagnetism inSrRu1â^'xMnxO3solid solutions(0<~x<~0.5). Physical Review B, 2002, 66, .	3.2	75
82	Valence band alignment and work function of heteroepitaxial nanocrystals on GaAs(001). Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 2057.	1.6	6
83	Local Au coverage as driving force for Au induced faceting of vicinal Si(001): a LEEM and XPEEM study. Surface Science, 2001, 480, 103-108.	1.9	9
84	Influence of interfactants on thin metal film growth. Surface Science, 2001, 480, 137-144.	1.9	9
85	Core-level photoelectron spectroscopy from individual heteroepitaxial nanocrystals on GaAs(001). Physical Review B, 2001, 63, .	3.2	29
86	Spatial Variation of Au Coverage as the Driving Force for Nanoscopic Pattern Formation. Physical Review Letters, 2001, 86, 5088-5091.	7.8	31
87	In situ imaging of structural changes in a chemical wave with low-energy electron microscopy: the system Rh(110)/NO+H2. Chemical Physics Letters, 2000, 318, 549-554.	2.6	23
88	Interfactant-mediated quasi-Frankâ€"van der Merwe growth of Pb on Si(111). Physical Review B, 2000, 62, 15815-15825.	3.2	44
89	XPEEM Study of Liquid Au-Si Droplets on Si(111) near to the Eutectic Point. Defect and Diffusion Forum, 2000, 183-185, 181-188.	0.4	6
90	Determination of diffusion energies on face-centred cubic (111) surfaces from diffraction experiments: a Monte Carlo study. Surface Science, 2000, 454-456, 566-570.	1.9	6

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91	Surface diffusion of Au on Si(111): A microscopic study. Physical Review B, 2000, 61, 16121-16128.	3.2	45
92	<title>Microfocusing VLS-grating-based beamline for advanced microscopy</title>. , 1999, 3767, 271.		14
93	Nanospectroscopy at Elettra. Synchrotron Radiation News, 1999, 12, 25-29.	0.8	12
94	Optical layout of a beamline for photoemission microscopy. Journal of Synchrotron Radiation, 1999, 6, 957-963.	2.4	13
95	Lateral inhomogeneities in engineered Schottky barriers. Journal of Crystal Growth, 1999, 201-202, 795-799.	1.5	6
96	Au-induced giant faceting of vicinal Si(001). Surface Science, 1999, 433-435, 475-480.	1.9	24
97	Preliminary Spectromicroscopic Measurements of Self-Organized InAs Nanocrystals by SPELEEM. Japanese Journal of Applied Physics, 1999, 38, 556.	1.5	6
98	Adsorption induced giant faceting of vicinal Si(001). Thin Solid Films, 1998, 336, 16-21.	1.8	22
99	SPELEEM: Combining LEEM and Spectroscopic Imaging. Surface Review and Letters, 1998, 05, 1287-1296.	1.1	242
100	Giant Faceting of Vicinal Si(001) Induced by Au Adsorption. Surface Review and Letters, 1998, 05, 1167-1178.	1.1	24
101	SMART: An Aberration-Corrected XPEEM/LEEM with Energy Filter. Surface Review and Letters, 1998, 05, 1249-1256.	1.1	88
102	Concept and Design of the SMART Spectromicroscope at BESSY II. , 1998, , 271-282.		0
103	Cathode Lens Spectromicroscopy with a Low-Energy Electron Microscope. , 1998, , 241-250.		0
104	Growth and melting of a Pb monolayer on Cu(111). Surface Science, 1997, 376, 123-132.	1.9	35
105	Spectromicroscopy in a low energy electron microscope. Journal of Electron Spectroscopy and Related Phenomena, 1997, 84, 201-209.	1.7	50
106	SMART: a planned ultrahigh-resolution spectromicroscope for BESSY II. Journal of Electron Spectroscopy and Related Phenomena, 1997, 84, 231-250.	1.7	149
107	Recent Advances in LEEM/PEEM for Structural and Chemical Analysis. , 1997, , 75-91.		5
108	Ostwald Ripening in an Oxideâ€onâ€Metal System. Advanced Materials Interfaces, 0, , 2200222.	3.7	3