

Kathrin MÃ¼ller

List of Publications by Year in descending order

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58
papers

2,234
citations

201385

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223531

46
g-index

58
all docs

58
docs citations

58
times ranked

3569
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlling spins in adsorbed molecules by a chemical switch. Nature Communications, 2010, 1, 61.	5.8	229
2	Ruthenium Oxide Nanosheets for Enhanced Oxygen Evolution Catalysis in Acidic Medium. Advanced Energy Materials, 2019, 9, 1803795.	10.2	147
3	Band Formation from Coupled Quantum Dots Formed by a Nanoporous Network on a Copper Surface. Science, 2009, 325, 300-303.	6.0	126
4	Easily Accessible, Textile Fiber-Based Sulfurized Poly(acrylonitrile) as Li/S Cathode Material: Correlating Electrochemical Performance with Morphology and Structure. ACS Energy Letters, 2017, 2, 595-604.	8.8	116
5	Comparing Graphene Growth on Cu(111) versus Oxidized Cu(111). Nano Letters, 2015, 15, 917-922.	4.5	107
6	Aggregation and Contingent Metal/Surface Reactivity of 1,3,8,10-tetraazaperopyrene (TAPP) on Cu(111). Chemistry - A European Journal, 2010, 16, 2079-2091.	1.7	89
7	Overdoping Graphene Beyond the van Hove Singularity. Physical Review Letters, 2020, 125, 176403.	2.9	83
8	IrOOH nanosheets as acid stable electrocatalysts for the oxygen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 21558-21566.	5.2	72
9	Interfacial Engineering for Improved Photocatalysis in a Charge Storing 2D Carbon Nitride: Melamine Functionalized Poly(heptazine imide). Advanced Energy Materials, 2021, 11, 2003016.	10.2	64
10	Morphology Control in 2D Carbon Nitrides: Impact of Particle Size on Optoelectronic Properties and Photocatalysis. Advanced Functional Materials, 2021, 31, 2102468.	7.8	63
11	Modification of the Cu(110) Shockley surface state by an adsorbed pentacene monolayer. Physical Review B, 2009, 79, .	1.1	59
12	Introducing strong correlation effects into graphene by gadolinium intercalation. Physical Review B, 2019, 100, .	1.1	55
13	Tuning the Limiting Thickness of a Thin Oxide Layer on Al(111) with Oxygen Gas Pressure. Physical Review Letters, 2011, 107, 035502.	2.9	53
14	Cyano-functionalized Triarylamines on Au(111): Competing Intermolecular versus Molecule/Substrate Interactions. Advanced Materials Interfaces, 2014, 1, 1300025.	1.9	52
15	Multimorphism in molecular monolayers: Pentacene on Cu(110). Physical Review B, 2009, 79, .	1.1	51
16	Effect of oxygen gas pressure on the kinetics of alumina film growth during the oxidation of Al(111) at room temperature. Physical Review B, 2011, 84, .	1.1	50
17	Electronic Structure of an Organic/Metal Interface: Pentacene/Cu(110). Journal of Physical Chemistry C, 2012, 116, 23465-23471.	1.5	49
18	Tuning the doping level of graphene in the vicinity of the Van Hove singularity via ytterbium intercalation. Physical Review B, 2019, 100, .	1.1	47

#	ARTICLE	IF	CITATIONS
19	Bi-alkali antimonide photocathodes for high brightness accelerators. <i>APL Materials</i> , 2013, 1, .	2.2	46
20	Indirect Magnetic Coupling of Manganese Porphyrin to a Ferromagnetic Cobalt Substrate. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1295-1301.	1.5	44
21	Self-Assembly and Superexchange Coupling of Magnetic Molecules on Oxygen-Reconstructed Ferromagnetic Thin Film. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1408-1413.	2.1	41
22	Electronic properties of single-layer tungsten disulfide on epitaxial graphene on silicon carbide. <i>Nanoscale</i> , 2017, 9, 16412-16419.	2.8	39
23	Hybrid Li/S Battery Based on Dimethyl Trisulfide and Sulfurized Poly(acrylonitrile). <i>Advanced Sustainable Systems</i> , 2018, 2, 1700144.	2.7	31
24	Solid Electrolyte Interphase Evolution on Lithium Metal in Contact with Glyme-Based Electrolytes. <i>Small</i> , 2020, 16, e2000756.	5.2	31
25	Temperature and pressure dependent Mott potentials and their influence on self-limiting oxide film growth. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	30
26	Cyano-Functionalized Triarylamines on Coinage Metal Surfaces: Interplay of Intermolecular and Molecule-Substrate Interactions. <i>Chemistry - A European Journal</i> , 2016, 22, 581-589.	1.7	30
27	Confinement properties of 2D porous molecular networks on metal surfaces. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 153003.	0.7	29
28	Hydroxylation of Ultrathin Al ₂ O ₃ /NiAl(110) Films at Environmental Humidity. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29340-29349.	1.5	28
29	Comparative Study of the Passivation of Al(111) by Molecular Oxygen and Water Vapor. <i>Journal of Physical Chemistry C</i> , 2013, 117, 172-178.	1.5	25
30	Assembling Metal Organic Layer Composites for High-Performance Electrocatalytic CO ₂ Reduction to Formate. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	25
31	Pulsed laser deposition for the synthesis of monolayer WSe ₂ . <i>Applied Physics Letters</i> , 2017, 111, .	1.5	23
32	High-Performance Magnesium-Sulfur Batteries Based on a Sulfurated Poly(acrylonitrile) Cathode, a Borohydride Electrolyte, and a High-Surface Area Magnesium Anode. <i>Batteries and Supercaps</i> , 2020, 3, 1239-1247.	2.4	23
33	Pore Morphology and Self-Organization Effects during Etching of n-Type GaP(100) in Bromide Solutions. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, B72.	2.2	21
34	Characteristics of magnesium-sulfur batteries based on a sulfurized poly(acrylonitrile) composite and a fluorinated electrolyte. <i>Electrochimica Acta</i> , 2020, 361, 137024.	2.6	21
35	From hydrogen bonding to metal coordination and back: Porphyrin-based networks on Ag(111). <i>Journal of Chemical Physics</i> , 2015, 142, 101926.	1.2	19
36	Spin splitting and strain in epitaxial monolayer WSe_2 on graphene. <i>Physical Review B</i> , 2020, 101, .		

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37	High-Mobility Epitaxial Graphene on Ge/Si(100) Substrates. ACS Applied Materials & Interfaces, 2020, 12, 43065-43072.	4.0	16
38	Interplay between Valence Band Tuning and Redox Stability in SnTiO ₃ : Implications for Directed Design of Photocatalysts. Chemistry of Materials, 2021, 33, 2824-2836.	3.2	16
39	Ultra-Stable Cycling of High Capacity Room Temperature Sodium-Sulfur Batteries Based on Sulfurated Poly(acrylonitrile). Batteries and Supercaps, 2021, 4, 1636-1646.	2.4	16
40	Monoethanolamine Adsorption on TiO ₂ (110): Bonding, Structure, and Implications for Use as a Model Solid-Supported CO ₂ Capture Material. Journal of Physical Chemistry C, 2014, 118, 1576-1586.	1.5	15
41	Reactivity and Morphology of Oxygen-Modified Au Surfaces. Journal of Physical Chemistry C, 2012, 116, 18292-18299.	1.5	13
42	Unusual valence state in the antiperovskites Sr ₃ SnO and Sr ₃ PbO revealed by x-ray photoelectron spectroscopy. Physical Review Materials, 2019, 3, .	0.9	12
43	Performance enhancement of rechargeable magnesium-sulfur batteries based on a sulfurized poly(acrylonitrile) composite and a lithium salt. Journal of Power Sources, 2021, 515, 230604.	4.0	12
44	Novel pore shape and self-organization effects in n-GaP(111). Journal of Solid State Electrochemistry, 2009, 13, 807-812.	1.2	11
45	A design concept for halogen-free Mg ²⁺ /Li ⁺ -dual salt-containing gel-polymer-electrolytes for rechargeable magnesium batteries. Energy Storage Materials, 2022, 49, 509-517.	9.5	11
46	Triphenylene-Derived Electron Acceptors and Donors on Ag(111): Formation of Intermolecular Charge-Transfer Complexes with Common Unoccupied Molecular States. Small, 2019, 15, e1901741.	5.2	10
47	Momentum microscopy of Pb-intercalated graphene on SiC: Charge neutrality and electronic structure of interfacial Pb. Physical Review Research, 2022, 4, .	1.3	10
48	NiO-MgO and CoO-MgO Thin-Film Solid Oxide Solutions on a Mo(100) Support: Formation, Reduction, and Influence of the Support. Journal of Physical Chemistry C, 2013, 117, 280-287.	1.5	9
49	Key Structure-Property Relationships in CO ₂ Capture by Supported Alkanolamines. Journal of Physical Chemistry C, 2014, 118, 19252-19258.	1.5	8
50	6-Mercaptopurine Self-Assembled Monolayers on Gold (001)-Hex: Revealing the Fate of Gold Adatoms. Journal of Physical Chemistry C, 2017, 121, 8938-8943.	1.5	8
51	High Cu content LaNi _{1-x} Cu _x O _{3-δ} perovskites as candidate air electrode materials for Reversible Solid Oxide Cells. International Journal of Hydrogen Energy, 2020, 45, 29449-29464.	3.8	7
52	Structural Transformation of Surface-Confined Porphyrin Networks by Addition of Co Atoms. Chemistry - A European Journal, 2021, 27, 12430-12436.	1.7	6
53	Growth of Graphene Nanoflakes/hBN Heterostructures. Advanced Materials Interfaces, 2021, 8, 2100766.	1.9	5
54	In-Depth Atomic Structure of the Pentacene/Cu(110) Interface in the Monolayer Coverage Regime: Theory and X-ray Diffraction Results. Journal of Physical Chemistry C, 2014, 118, 27815-27822.	1.5	4

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55	Assembling Metal Organic Layer Composites for High-Performance Electrocatalytic CO ₂ Reduction to Formate. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	3
56	Adsorption and thermal decomposition of 2-octylthieno[3,4-b]thiophene on Au(1 1 1). <i>Journal of Colloid and Interface Science</i> , 2012, 384, 143-148.	5.0	2
57	High-Performance Cathode Materials for Lithium-Sulfur Batteries Based on Sulfurated Poly(norbornadiene) and Sulfurated Poly(dicyclopentadiene). <i>ACS Applied Energy Materials</i> , 2022, 5, 7642-7650.	2.5	2
58	Electronic structure of the bond disproportionated bismuthate $\text{Ag}_2\text{Bi}_2\text{O}_7$. <i>Physical Review Materials</i> , 2021, 5, .		