Kathrin MÃ¼ller

List of Publications by Year
in descending order

58	2,234	201385 27	223531 46
papers	citations	h-index	g-index

58	58	58	3569
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assembling Metal Organic Layer Composites for Highâ€Performance Electrocatalytic CO₂ Reduction to Formate. Angewandte Chemie, 2022, 134, .	1.6	3
2	Assembling Metal Organic Layer Composites for Highâ€Performance Electrocatalytic CO₂ Reduction to Formate. Angewandte Chemie - International Edition, 2022, 61, .	7.2	25
3	A design concept for halogen-free Mg2+/Li+-dual salt-containing gel-polymer-electrolytes for rechargeable magnesium batteries. Energy Storage Materials, 2022, 49, 509-517.	9.5	11
4	High-Performance Cathode Materials for Lithiumâ€“Sulfur Batteries Based on Sulfurated Poly(norbornadiene) and Sulfurated Poly(dicyclopentadiene). ACS Applied Energy Materials, 2022, 5, 7642-7650.	2.5	2
5	Momentum microscopy of Pb-intercalated graphene on SiC: Charge neutrality and electronic structure of interfacial Pb. Physical Review Research, 2022, 4, .	1.3	10
6	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
7	Interplay between Valence Band Tuning and Redox Stability in SnTiO₃: Implications for Directed Design of Photocatalysts. Chemistry of Materials, 2021, 33, 2824-2836.	3.2	16
8	Morphology Control in 2D Carbon Nitrides: Impact of Particle Size on Optoelectronic Properties and Photocatalysis. Advanced Functional Materials, 2021, 31, 2102468.	7.8	63
9	Electronic structure of the bond disproportionated bismuthate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ag</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review Materials, 2021, 5, .	3.1	11
10	Structural Transformation of Surfaceâ€Confined Porphyrin Networks by Addition of Co Atoms. Chemistry - A European Journal, 2021, 27, 12430-12436.	1.7	6
11	Ultraâ€Stable Cycling of High Capacity Room Temperature Sodiumâ€Sulfur Batteries Based on Sulfurated Poly(acrylonitrile). Batteries and Supercaps, 2021, 4, 1636-1646.	2.4	16
12	Growth of Graphene Nanoflakes/hâ€BN Heterostructures. Advanced Materials Interfaces, 2021, 8, 2100766.	1.9	5
13	Performance enhancement of rechargeable magnesiumâ€“sulfur batteries based on a sulfurized poly(acrylonitrile) composite and a lithium salt. Journal of Power Sources, 2021, 515, 230604.	4.0	12
14	Overdoping Graphene Beyond the van Hove Singularity. Physical Review Letters, 2020, 125, 176403.	2.9	83
15	Characteristics of magnesium-sulfur batteries based on a sulfurized poly(acrylonitrile) composite and a fluorinated electrolyte. Electrochimica Acta, 2020, 361, 137024.	2.6	21
16	High Cu content LaNi1-xCuxO3-Î´ perovskites as candidate air electrode materials for Reversible Solid Oxide Cells. International Journal of Hydrogen Energy, 2020, 45, 29449-29464.	3.8	7
17	High-Mobility Epitaxial Graphene on Ge/Si(100) Substrates. ACS Applied Materials & Interfaces, 2020, 12, 43065-43072.	4.0	16
18	Solid Electrolyte Interphase Evolution on Lithium Metal in Contact with Glymeâ€Based Electrolytes. Small, 2020, 16, e2000756.	5.2	31

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19	Highâ€Performance Magnesiumâ€Sulfur Batteries Based on a Sulfurated Poly(acrylonitrile) Cathode, a Borohydride Electrolyte, and a Highâ€Surface Area Magnesium Anode. Batteries and Supercaps, 2020, 3, 1239-1247.	2.4	23
20	Spin splitting and strain in epitaxial monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> on graphene. Physical Review B, 2020, 101, .	1.1	19
21	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
22	Triphyleneâ€Derived Electron Acceptors and Donors on Ag(111): Formation of Intermolecular Chargeâ€Transfer Complexes with Common Unoccupied Molecular States. Small, 2019, 15, e1901741.	5.2	10
23	Introducing strong correlation effects into graphene by gadolinium intercalation. Physical Review B, 2019, 100, .	1.1	55
24	Ruthenium Oxide Nanosheets for Enhanced Oxygen Evolution Catalysis in Acidic Medium. Advanced Energy Materials, 2019, 9, 1803795.	10.2	147
25	Unusual valence state in the antiperovskites Sr3SnO and Sr3PbO revealed by x-ray photoelectron spectroscopy. Physical Review Materials, 2019, 3, .	0.9	12
26	Hybrid Li/S Battery Based on Dimethyl Trisulfide and Sulfurized Poly(acrylonitrile). Advanced Sustainable Systems, 2018, 2, 1700144.	2.7	31
27	IrOOH nanosheets as acid stable electrocatalysts for the oxygen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 21558-21566.	5.2	72
28	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
29	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
30	Electronic properties of single-layer tungsten disulfide on epitaxial graphene on silicon carbide. Nanoscale, 2017, 9, 16412-16419.	2.8	39
31	Pulsed laser deposition for the synthesis of monolayer WSe2. Applied Physics Letters, 2017, 111, .	1.5	23
32	Cyanoâ€Functionalized Triarylamines on Coinage Metal Surfaces: Interplay of Intermolecular and Moleculeâ€“Substrate Interactions. Chemistry - A European Journal, 2016, 22, 581-589.	1.7	30
33	Confinement properties of 2D porous molecular networks on metal surfaces. Journal of Physics Condensed Matter, 2016, 28, 153003.	0.7	29
34	Comparing Graphene Growth on Cu(111) versus Oxidized Cu(111). Nano Letters, 2015, 15, 917-922.	4.5	107
35	From hydrogen bonding to metal coordination and back: Porphyrin-based networks on Ag(111). Journal of Chemical Physics, 2015, 142, 101926.	1.2	19
36	Hydroxylation of Ultrathin Al₂O₃/NiAl(110) Films at Environmental Humidity. Journal of Physical Chemistry C, 2014, 118, 29340-29349.	1.5	28

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37	Cyanoâ€Functionalized Triarylamines on Au(111): Competing Intermolecular versus Molecule/Substrate Interactions. Advanced Materials Interfaces, 2014, 1, 1300025.	1.9	52
38	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
39	Monoethanolamine Adsorption on TiO2(110): Bonding, Structure, and Implications for Use as a Model Solid-Supported CO2 Capture Material. Journal of Physical Chemistry C, 2014, 118, 1576-1586.	1.5	15
40	Key Structureâ€"Property Relationships in CO₂ Capture by Supported Alkanolamines. Journal of Physical Chemistry C, 2014, 118, 19252-19258.	1.5	8
41	Bi-alkali antimonide photocathodes for high brightness accelerators. APL Materials, 2013, 1, .	2.2	46
42	Comparative Study of the Passivation of Al(111) by Molecular Oxygen and Water Vapor. Journal of Physical Chemistry C, 2013, 117, 172-178.	1.5	25
43	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
44	Temperature and pressure dependent Mott potentials and their influence on self-limiting oxide film growth. Applied Physics Letters, 2012, 101, .	1.5	30
45	Electronic Structure of an Organic/Metal Interface: Pentacene/Cu(110). Journal of Physical Chemistry C, 2012, 116, 23465-23471.	1.5	49
46	Reactivity and Morphology of Oxygen-Modified Au Surfaces. Journal of Physical Chemistry C, 2012, 116, 18292-18299.	1.5	13
47	Adsorption and thermal decomposition of 2-octylthieno[3,4-b]thiophene on Au(1 1 1). Journal of Colloid and Interface Science, 2012, 384, 143-148.	5.0	2
48	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
49	Indirect Magnetic Coupling of Manganese Porphyrin to a Ferromagnetic Cobalt Substrate. Journal of Physical Chemistry C, 2011, 115, 1295-1301.	1.5	44
50	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
51	Aggregation and Contingent Metal/Surface Reactivity of 1,3,8,10â€Tetraazaperopyrene (TAPP) on Cu(111). Chemistry - A European Journal, 2010, 16, 2079-2091.	1.7	89
52	Controlling spins in adsorbed molecules by a chemical switch. Nature Communications, 2010, 1, 61.	5.8	229
53	Self-Assembly and Superexchange Coupling of Magnetic Molecules on Oxygen-Reconstructed Ferromagnetic Thin Film. Journal of Physical Chemistry Letters, 2010, 1, 1408-1413.	2.1	41
54	Modification of the Cu(110) Shockley surface state by an adsorbed pentacene monolayer. Physical Review B, 2009, 79, .	1.1	59

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55	Multimorphism in molecular monolayers: Pentacene on Cu(110). Physical Review B, 2009, 79, .	1.1	51
56	Novel pore shape and self-organization effects in n-GaP(111). Journal of Solid State Electrochemistry, 2009, 13, 807-812.	1.2	11
57	Band Formation from Coupled Quantum Dots Formed by a Nanoporous Network on a Copper Surface. Science, 2009, 325, 300-303.	6.0	126
58	Pore Morphology and Self-Organization Effects during Etching of n-Type GaP(100) in Bromide Solutions. Electrochemical and Solid-State Letters, 2005, 8, B72.	2.2	21