

# Benjamin Stadtmüller

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,049  
citations

218677

26  
h-index

243625

44  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2535  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of primary and secondary processes in the ultrafast spin dynamics of nickel. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	9
2	Atomic and mesoscopic structure of Dy-based surface alloys on noble metals. <i>New Journal of Physics</i> , 2022, 24, 033048.	2.9	1
3	Observation of optical coherence in a disordered metal-molecule interface by coherent optical two-dimensional photoelectron spectroscopy. <i>Physical Review B</i> , 2022, 105, .	3.2	3
4	Coherent response of the electronic system driven by non-interfering laser pulses. <i>Nature Communications</i> , 2022, 13, .	12.8	2
5	Vectorial Electron Spin Filtering by an All-Chiral Metal-Molecule Heterostructure. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6244-6249.	4.6	5
6	Mobilization upon Cooling. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19117-19122.	13.8	2
7	The 2021 ultrafast spectroscopic probes of condensed matter roadmap. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 353001.	1.8	55
8	Von geordneten zu mobilen Molekülen durch Kählen. <i>Angewandte Chemie</i> , 2021, 133, 19265-19270.	2.0	0
9	Growth, domain structure, and atomic adsorption sites of hBN on the Ni(111) surface. <i>Physical Review Materials</i> , 2021, 5, .	2.4	5
10	Momentum and energy dissipation of hot electrons in a Pb/Ag(111) quantum well system. <i>Physical Review B</i> , 2021, 104, .	3.2	2
11	Ultrafast charge carrier dynamics in potassium-doped endohedral metallofullerene Sc <sub>3</sub> N@C <sub>80</sub> thin films. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021, 252, 147110.	1.7	1
12	Spectroscopic Evidence for a New Type of Surface Resonance at Noble-Metal Surfaces. <i>Physical Review Letters</i> , 2021, 127, 196405.	7.8	3
13	Energy and Momentum Distribution of Surface Plasmon-Induced Hot Carriers Isolated via Spatiotemporal Separation. <i>ACS Nano</i> , 2021, 15, 19559-19569.	14.6	17
14	Ultrafast Charge-Transfer Exciton Dynamics in C <sub>60</sub> Thin Films. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23579-23587.	3.1	11
15	Vertical bonding distances and interfacial band structure of PTCDA on a Sn-Ag surface alloy. <i>Physical Review B</i> , 2020, 102, .	3.2	2
16	Creating a regular array of metal-complexing molecules on an insulator surface at room temperature. <i>Nature Communications</i> , 2020, 11, 6424.	12.8	3
17	Direct evidence for efficient ultrafast charge separation in epitaxial WS <sub>2</sub> /graphene heterostructures. <i>Science Advances</i> , 2020, 6, eaay0761.	10.3	64
18	Tailoring molecular island shapes: influence of microscopic interaction on mesostructure. <i>Nano Research</i> , 2020, 13, 843-852.	10.4	3

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19	Ultrafast optically induced spin transfer in ferromagnetic alloys. <i>Science Advances</i> , 2020, 6, eaay8717.	10.3	93
20	Ultrafast magnetization dynamics of Mn-doped L10 FePt with spatial inhomogeneity. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166477.	2.3	1
21	Signatures of an atomic crystal in the band structure of a $C_{60}$ thin film. <i>Physical Review B</i> , 2020, 101, .	3.2	13
22	Imaging the Dynamics of Charge Transfer and Frenkel Excitons in Molecular Thin Films. , 2020, , .		0
23	Aperiodically ordered nano-graphene on the quasicrystalline substrate. <i>New Journal of Physics</i> , 2020, 22, 093056.	2.9	2
24	Time-resolved two-photon momentum microscopy – A new approach to study hot carrier lifetimes in momentum space. <i>Review of Scientific Instruments</i> , 2019, 90, 103104.	1.3	17
25	Thermal-Driven Formation of 2D Nanoporous Networks on Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26263-26271.	3.1	1
26	A case study for the formation of stanene on a metal surface. <i>Communications Physics</i> , 2019, 2, .	5.3	30
27	Equivalence of RABBITT and Streaking Delays in Attosecond-Time-Resolved Photoemission Spectroscopy at Solid Surfaces. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 592.	2.5	6
28	Strong modification of the transport level alignment in organic materials after optical excitation. <i>Nature Communications</i> , 2019, 10, 1470.	12.8	27
29	Modification of Pb quantum well states by the adsorption of organic molecules. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 134005.	1.8	5
30	Spin- and Angle-Resolved Photoemission Study of the Alq <sub>3</sub> /Co Interface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6585-6592.	3.1	8
31	Role of the Central Metal Atom in Substrate-Mediated Molecular Interactions in Phthalocyanine-Based Heteromolecular Monolayers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8491-8504.	3.1	9
32	Control of Cooperativity through a Reversible Structural Phase Transition in MoMethyl/Cu(111). <i>Advanced Functional Materials</i> , 2018, 28, 1703544.	14.9	10
33	Structure and electronic properties of the $(3\sqrt{3}\times 3\sqrt{3})\text{-SnAu}_2/\text{Au}(111)$ surface alloy. <i>Physical Review B</i> , 2018, 98, .	3.2	14
34	Induced versus intrinsic magnetic moments in ultrafast magnetization dynamics. <i>Physical Review B</i> , 2018, 98, .	3.2	24
35	Adsorption-induced pyramidal distortion of the trimetallic nitride core inside the endohedral fullerene Sc <sub>3</sub> N@C <sub>80</sub> on the Ag(111) surface. <i>Physical Review B</i> , 2018, 98, .	3.2	2
36	Band structure evolution during the ultrafast ferromagnetic-paramagnetic phase transition in cobalt. <i>Science Advances</i> , 2017, 3, e1602094.	10.3	119

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37	Speed and efficiency of femtosecond spin current injection into a nonmagnetic material. Physical Review B, 2017, 96, .	3.2	52
38	Fully Atomistic Understanding of the Electronic and Optical Properties of a Prototypical Doped Charge-Transfer Interface. ACS Nano, 2017, 11, 10495-10508.	14.6	20
39	Ultrafast magnetization dynamics in Nickel: impact of pump photon energy. Journal of Physics Condensed Matter, 2017, 29, 244002.	1.8	26
40	Epitaxial growth of thermally stable cobalt films on Au(111). New Journal of Physics, 2016, 18, 103054.	2.9	7
41	Submonolayer and multilayer growth of titaniumoxide-phthalocyanine on Ag(111). New Journal of Physics, 2016, 18, 113022.	2.9	42
42	Adsorption heights and bonding strength of organic molecules on a Pb-Ag surface alloy. Physical Review B, 2016, 94, .	3.2	9
43	Scanning Tunneling Microscopy Study of Ordered C <sub>60</sub> Submonolayer Films on Co/Au(111). Journal of Physical Chemistry C, 2016, 120, 7568-7574.	3.1	11
44	Impact of CoFe buffer layers on the structural and electronic properties of the Co <sub>2</sub> MnSi/MgO interface. Journal Physics D: Applied Physics, 2016, 49, 195002.	2.8	1
45	Modifying the Surface of a Rashba-Split Pb-Ag Alloy Using Tailored Metal-Organic Bonds. Physical Review Letters, 2016, 117, 096805.	7.8	23
46	Charge transfer and symmetry reduction at the CuPc/Ag(110) interface studied by photoemission tomography. Physical Review B, 2016, 94, .	3.2	25
47	Controlled manipulation of the Co/Alq <sub>3</sub> interface by rational design of Alq <sub>3</sub> derivatives. Dalton Transactions, 2016, 45, 18365-18376.	3.3	4
48	Dynamic spin filtering at the Co/Alq <sub>3</sub> interface mediated by weakly coupled second layer molecules. Nature Communications, 2016, 7, 12668.	12.8	55
49	Modification of the PTCDA-Ag bond by forming a heteromolecular bilayer film. Physical Review B, 2015, 91, .	3.2	24
50	Probing the electronic and spintronic properties of buried interfaces by extremely low energy photoemission spectroscopy. Scientific Reports, 2015, 5, 8537.	3.3	21
51	Approaching Truly Freestanding Graphene: The Structure of Hydrogen-Intercalated Graphene on $\frac{1}{\sqrt{3}} \left( \frac{1}{2} \mathbf{a}_1 + \frac{1}{2} \mathbf{a}_2 \right) + \mathbf{a}_3$	1.7	14
52	Heteromolecular metal-organic interfaces: Electronic and structural fingerprints of chemical bonding. Journal of Electron Spectroscopy and Related Phenomena, 2015, 204, 80-91.	1.7	28
53	Topological states on the gold surface. Nature Communications, 2015, 6, 10167.	12.8	148
54	Tailoring metal-organic hybrid interfaces: heteromolecular structures with varying stoichiometry on Ag(111). New Journal of Physics, 2015, 17, 023046.	2.9	15

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55	Controlling the Spin Texture of Topological Insulators by Rational Design of Organic Molecules. Nano Letters, 2015, 15, 6022-6029.	9.1	37
56	Coverage-driven dissociation of azobenzene on Cu(111): a route towards defined surface functionalization. Chemical Communications, 2015, 51, 15324-15327.	4.1	13
57	The interplay between interface structure, energy level alignment and chemical bonding strength at organic-metal interfaces. Physical Chemistry Chemical Physics, 2015, 17, 1530-1548.	2.8	100
58	Adsorption height alignment at heteromolecular hybrid interfaces. Physical Review B, 2014, 89, .	3.2	19
59	Molecular Exchange in a Heteromolecular PTCDA/CuPc Bilayer Film on Ag(111). Journal of Physical Chemistry C, 2014, 118, 28592-28602.	3.1	26
60	Electrostatic Interaction and Commensurate Registry at the Heteromolecular $F_{16}$ -CuPc-CuPc Interface. Journal of Physical Chemistry C, 2014, 118, 1652-1660.	3.1	26
61	Unexpected interplay of bonding height and energy level alignment at heteromolecular hybrid interfaces. Nature Communications, 2014, 5, 3685.	12.8	79
62	Energy offsets within a molecular monolayer: the influence of the molecular environment. New Journal of Physics, 2013, 15, 033017.	2.9	35
63	Commensurate Registry and Chemisorption at a Hetero-organic Interface. Physical Review Letters, 2012, 108, 106103.	7.8	43
64	Orbital tomography for highly symmetric adsorbate systems. Europhysics Letters, 2012, 100, 26008.	2.0	45
65	Submonolayer growth of $H_2$ -phthalocyanine on Ag(111). Physical Review B, 2012, 86, .	3.2	41
66	Submonolayer growth of CuPc on noble metal surfaces. Physical Review B, 2011, 83, .	3.2	110
67	Normal-incidence x-ray standing-wave study of copper phthalocyanine submonolayers on Cu(111) and Au(111). Physical Review B, 2011, 83, .	3.2	73
68	Modeling intermolecular interactions of physisorbed organic molecules using pair potential calculations. Journal of Chemical Physics, 2011, 135, 234703.	3.0	28
69	Structural influence on the Rashba-type spin splitting in surface alloys. Physical Review B, 2010, 81, .	3.2	64
70	Submonolayer growth of copper-phthalocyanine on Ag(111). New Journal of Physics, 2010, 12, 083038.	2.9	156