

Julia StÃ¶hler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3834777/publications.pdf>

Version: 2024-02-01

43
papers

1,666
citations

361413

20
h-index

289244

40
g-index

46
all docs

46
docs citations

46
times ranked

2314
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-fast dynamics of electron thermalization, cooling and transport effects in Ru(001). Applied Physics A: Materials Science and Processing, 2004, 78, 165-176.	2.3	218
2	Instantaneous Band Gap Collapse in Photoexcited Monoclinic VO_2 to Photocarrier Doping. Physical Review Letters, 2014, 113, 216401.	7.8	203
3	Ultrafast changes in lattice symmetry probed by coherent phonons. Nature Communications, 2012, 3, 721.	12.8	177
4	Ultrafast Electronic Band Gap Control in an Excitonic Insulator. Physical Review Letters, 2017, 119, 086401.	7.8	137
5	Ultrafast dynamics during the photoinduced phase transition in VO_2 . Progress in Surface Science, 2015, 90, 464-502.	8.3	90
6	Tracking the evolution of electronic and structural properties of VO_2 during the ultrafast photoinduced insulator-metal transition. Physical Review B, 2013, 87, .	3.2	69
7	Large work function reduction by adsorption of a molecule with a negative electron affinity: Pyridine on $\text{ZnO}(10\bar{1}0)$ ($101\bar{A}$). Journal of Chemical Physics, 2013, 139, 174701.	3.0	68
8	A Dynamic Landscape from Femtoseconds to Minutes for Excess Electrons at Ice \sim Metal Interfaces. Journal of Physical Chemistry C, 2009, 113, 979-988.	3.1	61
9	Pressure-Dependent Relaxation in the Photoexcited Mott Insulator VO_2 . Physical Review Letters, 2014, 113, 216401.	7.8	58
10	Ultrafast Exciton Formation at the $\text{ZnO}/\text{Cu}(111)$ Interface: Influence of Trapping and Correlations on Ultrafast Recombination Rates. Physical Review Letters, 2010, 105, 057601.	7.8	46
11	Impact of Ice Structure on Ultrafast Electron Dynamics in D_2O Clusters on $\text{Cu}(111)$. Physical Review Letters, 2007, 98, 206105.	7.8	45
12	A surface science approach to ultrafast electron transfer and solvation dynamics at interfaces. Chemical Society Reviews, 2008, 37, 2180.	38.1	45
13	Real-Time Measurement of the Vertical Binding Energy during the Birth of a Solvated Electron. Journal of the American Chemical Society, 2015, 137, 3520-3524.	13.7	41
14	Ultrafast Electron Dynamics at Ice \sim Metal Interfaces: A Competition between Heterogeneous Electron Transfer and Solvation. Journal of Physical Chemistry B, 2006, 110, 9637-9644.	2.6	35
15	Inhibition of the photoinduced structural phase transition in the excitonic insulator Ta_2NiO_7 . Physical Review B, 2018, 97, .	3.2	35
16	Ultrafast Electron Transfer Dynamics at $\text{NH}_3/\text{Cu}(111)$ Interfaces: Determination of the Transient Tunneling Barrier. Journal of the American Chemical Society, 2008, 130, 8797-8803.	13.7	28
17	Reactivity of water \sim electron complexes on crystalline ice surfaces. Faraday Discussions, 2009, 141, 293-307.	3.2	28
18	Dynamics and Reactivity of Trapped Electrons on Supported Ice Crystallites. Accounts of Chemical Research, 2012, 45, 131-138.	15.6	26

#	ARTICLE	IF	CITATIONS
19	Revealing the competing contributions of charge carriers, excitons, and defects to the non-equilibrium optical properties of ZnO. Structural Dynamics, 2019, 6, 034501.	2.3	26
20	Local aspects of hydrogen-induced metallization of the ZnO . Physical Review B, 2015, 91, .	3.2	25
21	Global and local aspects of the surface potential landscape for energy level alignment at organic-ZnO interfaces. Chemical Physics, 2017, 485-486, 149-165.	1.9	20
22	Type-II Energy Level Alignment at the PTCDA/Monolayer MoS ₂ Interface Promotes Resonance Energy Transfer and Luminescence Enhancement. Advanced Science, 2021, 8, 2100215.	11.2	19
23	Phase retrieval and compression of low-power white-light pulses. Applied Physics Letters, 2011, 99, .	3.3	17
24	Determination of the electron's solvation site on D ₂ O/Cu(111) using Xe overlayers and femtosecond photoelectron spectroscopy. Physical Chemistry Chemical Physics, 2008, 10, 4932.	2.8	16
25	Solvation dynamics of surface-trapped electrons at NH ₃ and D ₂ O crystallites adsorbed on metals: from femtosecond to minute timescales. Chemical Science, 2011, 2, 907.	7.4	16
26	Ultrafast dynamics in solids probed by femtosecond time-resolved broadband electronic sum frequency generation. Applied Physics Letters, 2016, 109, .	3.3	14
27	Ultrafast electron dynamics in amorphous and crystalline D ₂ O layers on Ru(001). Surface Science, 2005, 584, 90-97.	1.9	13
28	Trapped Electrons at the Amorphous Solid Water/Vacuum Interface as Possible Reactants in a Water Splitting Reaction. Journal of Physical Chemistry C, 2017, 121, 7379-7386.	3.1	10
29	Multistep and multiscale electron transfer and localization dynamics at a model electrolyte/metal interface. Journal of Chemical Physics, 2019, 150, 041702.	3.0	10
30	Ultrafast generation and decay of a surface metal. Nature Communications, 2021, 12, 978.	12.8	9
31	Dynamics of electron transfer at polar molecule/metal interfaces: the role of thermally activated tunnelling. New Journal of Physics, 2007, 9, 394-394.	2.9	8
32	Ultrafast evolution of the complex dielectric function of monolayer WS ₂ after photoexcitation. Physical Chemistry Chemical Physics, 2021, 23, 22640-22646.	2.8	8
33	Femtosecond dynamics of electron transfer, localization, and solvation processes at the ice-metal interface. Israel Journal of Chemistry, 2005, 45, 171-180.	2.3	7
34	Photoinduced work function modifications and their effect on photoelectron spectroscopy. Applied Physics Letters, 2013, 103, .	3.3	7
35	Localization-dependent charge separation efficiency at an organic/inorganic hybrid interface. Chemical Physics Letters, 2016, 646, 25-30.	2.6	6
36	Impact of Electron Solvation on Ice Structures at the Molecular Scale. Journal of Physical Chemistry Letters, 2020, 11, 1310-1316.	4.6	6

#	ARTICLE	IF	CITATIONS
37	Uncovering the (un-)occupied electronic structure of a buried hybrid interface. Journal of Physics Condensed Matter, 2019, 31, 094001.	1.8	5
38	Raman study of 2,7-bis(biphenyl-4-yl)-2,7-ditertbutyl-9,9-spirobifluorene adsorbed on oxide surfaces. Chemical Physics Letters, 2013, 584, 74-78.	2.6	4
39	Ultrashort and metastable doping of the ZnO surface by photoexcited defects. Faraday Discussions, 0, 237, 58-79.	3.2	4
40	Photoexcited organic molecules en route to highly efficient autoionization. Journal of Chemical Physics, 2020, 152, 074715.	3.0	3
41	Pseudoheterodyne near-field imaging at kHz repetition rates via quadrature-assisted discrete demodulation. Applied Physics Letters, 2022, 120, 131601.	3.3	1
42	van der Waals Heterostructures: Type-II Energy Level Alignment at the PTCDA/Monolayer MoS ₂ Interface Promotes Resonance Energy Transfer and Luminescence Enhancement (Adv. Sci. 12/2021). Advanced Science, 2021, 8, 2170071.	11.2	0
43	Ultrafast changes in lattice symmetry probed by coherent phonons at the onset of the photoinduced phase transition in VO ₂ . , 2012, , .		0