Julia StÃ¤hler

List of Publications by Year
in descending order

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43	1,666	361413	289244
papers	citations	20 h-index	40 g-index

46	46	46	2314
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pseudoheterodyne near-field imaging at kHz repetition rates via quadrature-assisted discrete demodulation. Applied Physics Letters, 2022, 120, 131601.	3.3	1
2	Ultrafast evolution of the complex dielectric function of monolayer WS₂ after photoexcitation. Physical Chemistry Chemical Physics, 2021, 23, 22640-22646.	2.8	8
3	Ultrafast generation and decay of a surface metal. Nature Communications, 2021, 12, 978.	12.8	9
4	Typeâ€Ⅰ Energy Level Alignment at the PTCDAâ€”Monolayer MoS₂ Interface Promotes Resonance Energy Transfer and Luminescence Enhancement. Advanced Science, 2021, 8, 2100215.	11.2	19
5	van der Waals Heterostructures: Typeâ€Ⅰ Energy Level Alignment at the PTCDAâ€”Monolayer MoS₂ Interface Promotes Resonance Energy Transfer and Luminescence Enhancement (Adv. Sci. 12/2021). Advanced Science, 2021, 8, 2170071.	11.2	0
6	Photoexcited organic molecules en route to highly efficient autoionization. Journal of Chemical Physics, 2020, 152, 074715.	3.0	3
7	Impact of Electron Solvation on Ice Structures at the Molecular Scale. Journal of Physical Chemistry Letters, 2020, 11, 1310-1316.	4.6	6
8	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
9	Uncovering the (un-)occupied electronic structure of a buried hybrid interface. Journal of Physics Condensed Matter, 2019, 31, 094001.	1.8	5
10	Multistep and multiscale electron transfer and localization dynamics at a model electrolyte/metal interface. Journal of Chemical Physics, 2019, 150, 041702.	3.0	10
11	Inhibition of the photoinduced structural phase transition in the excitonic insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ta</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mr Physical Review B, 2018, 97, .	3.2	35
12	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
13	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
14	Ultrafast Electronic Band Gap Control in an Excitonic Insulator. Physical Review Letters, 2017, 119, 086401.	7.8	137
15	Ultrafast dynamics in solids probed by femtosecond time-resolved broadband electronic sum frequency generation. Applied Physics Letters, 2016, 109, .	3.3	14
16	Localization-dependent charge separation efficiency at an organic/inorganic hybrid interface. Chemical Physics Letters, 2016, 646, 25-30.	2.6	6
17	Ultrafast dynamics during the photoinduced phase transition in VO2. Progress in Surface Science, 2015, 90, 464-502.	8.3	90
18	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

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19	Local aspects of hydrogen-induced metallization of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">ZnO</mml:mi><mml:mo>(</mml:mo><mml:mrow><mml:mn>10</mml:mn></mml:mrow><mml:mover><mml:mn>1</mml:mn> Physical Review B, 2015, 91, .	3.2	25
20	Ultrafast Exciton Formation at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>ZnO</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>10</mml:mn><mml:mover) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (accent="true"><mml	7.8	46
21	Pressure-Dependent Relaxation in the Photoexcited Mott Insulator<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>ET</mml:mi><mml:mo>â€“</mml:mo><mml:msub><mml:mrow><mml:mi mathvariant="normal">F</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mi>TCNQ</mml:mi> Influence of Hopping and Correlations on Quasiparticle Recombination Rates. Physical Review Letters, 0976	7.8	58
22	Instantaneous Band Gap Collapse in Photoexcited Monoclinic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>VO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> to Photocarrier Doping. Physical Review Letters, 2014, 113, 216401.	7.8	203
23	Raman study of 2,7-bis(biphenyl-4-yl-)2â€²,7â€²-ditertbutyl-9,9â€²-spirobifluorene adsorbed on oxide surfaces. Chemical Physics Letters, 2013, 584, 74-78.	2.6	4
24	Photoinduced work function modifications and their effect on photoelectron spectroscopy. Applied Physics Letters, 2013, 103, .	3.3	7
25	Large work function reduction by adsorption of a molecule with a negative electron affinity: Pyridine on ZnO$(10ar{1}0)$(101Â¯). Journal of Chemical Physics, 2013, 139, 174701.	3.0	68
26	Tracking the evolution of electronic and structural properties of VO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>during the ultrafast photoinduced insulator-metal transition. Physical Review B, 2013, 87, .	3.2	69
27	Dynamics and Reactivity of Trapped Electrons on Supported Ice Crystallites. Accounts of Chemical Research, 2012, 45, 131-138.	15.6	26
28	Ultrafast changes in lattice symmetry probed by coherent phonons. Nature Communications, 2012, 3, 721.	12.8	177
29	Ultrafast changes in lattice symmetry probed by coherent phonons at the onset of the photoinduced phase transition in VO2. , 2012, , .		0
30	Solvation dynamics of surface-trapped electrons at NH3 and D2O crystallites adsorbed on metals: from femtosecond to minute timescales. Chemical Science, 2011, 2, 907.	7.4	16
31	Phase retrieval and compression of low-power white-light pulses. Applied Physics Letters, 2011, 99, .	3.3	17
32	A Dynamic Landscape from Femtoseconds to Minutes for Excess Electrons at Iceâ˜Metal Interfaces. Journal of Physical Chemistry C, 2009, 113, 979-988.	3.1	61
33	Reactivity of waterâ€“electron complexes on crystalline ice surfaces. Faraday Discussions, 2009, 141, 293-307.	3.2	28
34	Determination of the electronâ€™s solvation site on D2O/Cu(111) using Xe overlayers and femtosecond photoelectron spectroscopy. Physical Chemistry Chemical Physics, 2008, 10, 4932.	2.8	16
35	A surface science approach to ultrafast electron transfer and solvation dynamics at interfaces. Chemical Society Reviews, 2008, 37, 2180.	38.1	45
36	Ultrafast Electron Transfer Dynamics at NH₃/Cu(111) Interfaces: Determination of the Transient Tunneling Barrier. Journal of the American Chemical Society, 2008, 130, 8797-8803.	13.7	28

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37	Dynamics of electron transfer at polar moleculeâ€“metal interfaces: the role of thermally activated tunnelling. New Journal of Physics, 2007, 9, 394-394.	2.9	8
38	Impact of Ice Structure on Ultrafast Electron Dynamics inD2OClusters on Cu(111). Physical Review Letters, 2007, 98, 206105.	7.8	45
39	Ultrafast Electron Dynamics at Iceâ^'Metal Interfaces:Â Competition between Heterogeneous Electron Transfer and Solvation. Journal of Physical Chemistry B, 2006, 110, 9637-9644.	2.6	35
40	Ultrafast electron dynamics in amorphous and crystalline D2O layers on Ru(001). Surface Science, 2005, 584, 90-97.	1.9	13
41	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
42	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
43	Ultrashort and metastable doping of the ZnO surface by photoexcited defects. Faraday Discussions, 0, 237, 58-79.	3.2	4