

# Oliver BÃ¼rnermann

## List of Publications by Year in descending order

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Version: 2024-02-01

13  
papers

382  
citations

1163117

8  
h-index

1058476

14  
g-index

14  
all docs

14  
docs citations

14  
times ranked

338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-hole pair excitation determines the mechanism of hydrogen atom adsorption. <i>Science</i> , 2015, 350, 1346-1349.	12.6	136
2	Imaging covalent bond formation by H atom scattering from graphene. <i>Science</i> , 2019, 364, 379-382.	12.6	76
3	Unified description of H-atom-induced chemi-currents and inelastic scattering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 680-684.	7.1	39
4	Hydrogen collisions with transition metal surfaces: Universal electronically nonadiabatic adsorption. <i>Journal of Chemical Physics</i> , 2018, 148, 034706.	3.0	31
5	An ultrahigh vacuum apparatus for H atom scattering from surfaces. <i>Review of Scientific Instruments</i> , 2018, 89, 094101.	1.3	18
6	Small Nuclear Quantum Effects in Scattering of H and D from Graphene. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1991-1996.	4.6	17
7	An experimentally validated neural-network potential energy surface for H-atom on free-standing graphene in full dimensionality. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26113-26120.	2.8	14
8	Inelastic Scattering of H Atoms from Surfaces. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3059-3076.	2.5	14
9	Inelastic H and D atom scattering from Au(111) as benchmark for theory. <i>Journal of Chemical Physics</i> , 2019, 150, 184704.	3.0	8
10	Multibounce and Subsurface Scattering of H Atoms Colliding with a van der Waals Solid. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5745-5752.	2.5	8
11	Generation of ultra-short hydrogen atom pulses by bunch-compression photolysis. <i>Nature Communications</i> , 2014, 5, 5373.	12.8	7
12	Inelastic H Atom Scattering from Ultrathin Aluminum Oxide Films Grown by Atomic Layer Deposition on Pt(111). <i>Journal of Physical Chemistry C</i> , 2018, 122, 10096-10102.	3.1	6
13	Adsorbate modification of electronic nonadiabaticity: H atom scattering from $(2 \times 2)$ O on Pt(111). <i>Journal of Chemical Physics</i> , 2021, 155, 034702.	3.0	6