Tillmann Buttersack

List of Publications by Year
in descending order

19	387	933447 10	839539 18
papers	citations	h-index	g-index

20	20	20	427
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coulomb explosion during the early stages of the reaction of alkali metals with water. Nature Chemistry, 2015, 7, 250-254.	13.6	89
2	Photoelectron spectra of alkali metalâ€“ammonia microjets: From blue electrolyte to bronze metal. Science, 2020, 368, 1086-1091.	12.6	47
3	High resolution analysis of 32S18O2 spectra: The Î½1 and Î½3 interacting bands. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 166, 13-22.	2.3	32
4	Valence and Core-Level X-ray Photoelectron Spectroscopy of a Liquid Ammonia Microjet. Journal of the American Chemical Society, 2019, 141, 1838-1841.	13.7	28
5	Critical Radius of Supercooled Water Droplets: On the Transition toward Dendritic Freezing. Journal of Physical Chemistry B, 2016, 120, 504-512.	2.6	27
6	High resolution FTIR study of 34S16O2: The bands 2Î½1, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0059.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow></… <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0060.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>Î½</mml:mi><. Journal of Quantitative Spectroscopy [illegible]	2.3	25
7	High resolution FTIR study of 34 S 16 O 2 : The bands [illegible] xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mn>2</mml:mn><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow>… xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" overflow="scroll"><mml:mrow><mml:mn>2</mml:mn><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow>… Journal of Molecular Spectroscopy, 2015, 318, 26-33.	1.2	24
8	Study of the high resolution spectrum of 32 S 16 O 18 O: The Î½ 1 and Î½ 3 bands. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 168, 29-39.	2.3	20
9	Spectroscopic evidence for a gold-coloured metallic water solution. Nature, 2021, 595, 673-676.	27.8	16
10	High resolution FTIR study of 34 S 16 O 2 : Re-analysis of the bands<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></… xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.gif" overflow="scroll"><mml:mrow><. Journal of Molecular Spectroscopy, 2016, 319, 17-25.	1.2	15
11	Hypercooling Temperature of Water is about 100 K Higher than Calculated before. Journal of Physical Chemistry Letters, 2018, 9, 471-475.	4.6	12
12	Photoelectron angular distributions as sensitive probes of surfactant layer structure at the liquidâ€“vapor interface. Physical Chemistry Chemical Physics, 2022, 24, 4796-4808.	2.8	11
13	Electric Effect during the Fast Dendritic Freezing of Supercooled Water Droplets. Journal of Physical Chemistry B, 2014, 118, 13629-13635.	2.6	10
14	Deeply cooled and temperature controlled microjets: Liquid ammonia solutions released into vacuum for analysis by photoelectron spectroscopy. Review of Scientific Instruments, 2020, 91, 043101.	1.3	9
15	A Nonâ€Exploding Alkali Metal Drop on Water: From Blue Solvated Electrons to Bursting Molten Hydroxide. Angewandte Chemie - International Edition, 2016, 55, 13019-13022.	13.8	7
16	Following in Emil Fischerâ€™s Footsteps: A Site-Selective Probe of Glucose Acidâ€“Base Chemistry. Journal of Physical Chemistry A, 2021, 125, 6881-6892.	2.5	7
17	Photoelectron Spectroscopy of Benzene in the Liquid Phase and Dissolved in Liquid Ammonia. Journal of Physical Chemistry B, 2022, 126, 229-238.	2.6	7
18	A Nonâ€Exploding Alkali Metal Drop on Water: From Blue Solvated Electrons to Bursting Molten Hydroxide. Angewandte Chemie, 2016, 128, 13213-13216.	2.0	0

#	Article	IF	Citations
19	Determination of the Ground Vibrational State Parameters of the C2D4 Molecule. Russian Physics Journal, 2016, 59, 387-391.	0.4	0