

Johan A Schmidt

List of Publications by Year in descending order

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36
papers

1,578
citations

394421

19
h-index

345221

36
g-index

49
all docs

49
docs citations

49
times ranked

2375
citing authors

#	ARTICLE	IF	CITATIONS
1	A three-dimensional model of the atmospheric chemistry of E and Z-CF ₃ CH=CHCl (HCFO-1233(zd) (E/Z)). Atmospheric Environment, 2018, 179, 250-259.	4.1	16
2	Exit-channel recoil resonances by imaging the photodissociation of single quantum-state-selected OCS molecules. Physical Review A, 2018, 98, .	2.5	5
3	Reviews and syntheses: Carbonyl sulfide as a multi-scale tracer for carbon and water cycles. Biogeosciences, 2018, 15, 3625-3657.	3.3	98
4	Enhanced ozone loss by active inorganic bromine chemistry in the tropical troposphere. Atmospheric Environment, 2017, 155, 21-28.	4.1	24
5	On adduct formation and reactivity in the OCS + OH reaction: A combined theoretical and experimental study. Chemical Physics Letters, 2017, 675, 111-117.	2.6	2
6	Sulfate production by reactive bromine: Implications for the global sulfur and reactive bromine budgets. Geophysical Research Letters, 2017, 44, 7069-7078.	4.0	60
7	Recoil Inversion in the Photodissociation of Carbonyl Sulfide near 234 nm. Physical Review Letters, 2017, 118, 253001.	7.8	11
8	Clumped isotope effects during OH and Cl oxidation of methane. Geochimica Et Cosmochimica Acta, 2017, 196, 307-325.	3.9	33
9	A new mechanism for atmospheric mercury redox chemistry: implications for the global mercury budget. Atmospheric Chemistry and Physics, 2017, 17, 6353-6371.	4.9	296
10	BrO and inferred Br profiles over the western Pacific: relevance of inorganic bromine sources and a minimum in the aged tropical tropopause layer. Atmospheric Chemistry and Physics, 2017, 17, 15245-15270.	4.9	33
11	Halogen chemistry reduces tropospheric O ₃ ; radiative forcing. Atmospheric Chemistry and Physics, 2017, 17, 1557-1569.	4.9	43
12	Global modeling of tropospheric iodine aerosol. Geophysical Research Letters, 2016, 43, 10012-10019.	4.0	17
13	Hydrogen shift reactions in four methyl-buten-ol (MBO) peroxy radicals and their impact on the atmosphere. Atmospheric Environment, 2016, 147, 79-87.	4.1	15
14	Modeling the observed tropospheric BrO background: Importance of multiphase chemistry and implications for ozone, OH, and mercury. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,819.	3.3	106
15	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem. Atmospheric Chemistry and Physics, 2016, 16, 12239-12271.	4.9	231
16	Isotopic constraints on the role of hypohalous acids in sulfate aerosol formation in the remote marine boundary layer. Atmospheric Chemistry and Physics, 2016, 16, 11433-11450.	4.9	41
17	Kinetic isotope effects of ¹² CH ₃ D and ¹³ CH ₃ D from 278 to 313 K. Atmospheric Chemistry and Physics, 2016, 16, 4439-4449.	4.9	7
18	Clumped isotope perturbation in tropospheric nitrous oxide from stratospheric photolysis. Geophysical Research Letters, 2015, 42, 3546-3552.	4.0	13

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19	Active and widespread halogen chemistry in the tropical and subtropical free troposphere. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9281-9286.	7.1	91
20	Photodissociation of OCS: Deviations between theory and experiment, and the importance of higher order correlation effects. Journal of Chemical Physics, 2014, 141, 184310.	3.0	13
21	Pressure dependent isotopic fractionation in the photolysis of formaldehyde-d<sup>2</sup>. Atmospheric Chemistry and Physics, 2014, 14, 551-558.	4.9	6
22	Ultraviolet photodissociation of OCS: Product energy and angular distributions. Journal of Chemical Physics, 2013, 138, 094314.	3.0	21
23	SO ₂ photoexcitation mechanism links mass-independent sulfur isotopic fractionation in cryospheric sulfate to climate impacting volcanism. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17656-17661.	7.1	50
24	On the structure of Si(100) surface: Importance of higher order correlations for buckled dimer. Journal of Chemical Physics, 2013, 138, 204709.	3.0	6
25	Carbon dioxide photolysis from 150 to 210 nm: Singlet and triplet channel dynamics, UV-spectrum, and isotope effects. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17691-17696.	7.1	73
26	OCS photolytic isotope effects from first principles: sulfur and carbon isotopes, temperature dependence and implications for the stratosphere. Atmospheric Chemistry and Physics, 2013, 13, 1511-1520.	4.9	25
27	The ultraviolet spectrum of OCS from first principles: Electronic transitions, vibrational structure and temperature dependence. Journal of Chemical Physics, 2012, 137, 054313.	3.0	26
28	Communication: Multi-state analysis of the OCS ultraviolet absorption including vibrational structure. Journal of Chemical Physics, 2012, 136, 131101.	3.0	29
29	Isotope Effect in the Carbonyl Sulfide Reaction with O(³ P). Journal of Physical Chemistry A, 2012, 116, 3521-3526.	2.5	20
30	Photodissociation of N ₂ O: Excitation of ¹ Σ ⁺ States. Journal of Physical Chemistry A, 2012, 116, 11083-11087.	2.5	6
31	Predictions of the sulfur and carbon kinetic isotope effects in the OH + OCS reaction. Chemical Physics Letters, 2012, 531, 64-69.	2.6	17
32	Ultraviolet absorption cross sections of carbonyl sulfide isotopologues OC ³² S, OC ³³ S, OC ³⁴ S and O ¹³ CS: isotopic fractionation in photolysis and atmospheric implications. Atmospheric Chemistry and Physics, 2011, 11, 10293-10303.	4.9	45
33	Isotope effects in N ₂ O photolysis from first principles. Atmospheric Chemistry and Physics, 2011, 11, 8965-8975.	4.9	36
34	Photodissociation of N ₂ O: Triplet states and triplet channel. Journal of Chemical Physics, 2011, 135, 194303.	3.0	16
35	Photodissociation of N ₂ O: Energy partitioning. Journal of Chemical Physics, 2011, 135, 024311.	3.0	24
36	On the origin of the asymmetric shape of the HCl photodissociation cross section. Chemical Physics Letters, 2009, 480, 168-172.	2.6	6