

Ranajit K Talukdar

List of Publications by Year in descending order

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84
papers

4,153
citations

93792

39
h-index

139680

61
g-index

84
all docs

84
docs citations

84
times ranked

3635
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of gas-wall interactions on measurements of semivolatile compounds and small polar molecules. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3137-3149.	1.2	45
2	Measurements of delays of gas-phase compounds in a wide variety of tubing materials due to gas-wall interactions. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 3453-3461.	1.2	64
3	Model Evaluation of New Techniques for Maintaining High-NO Conditions in Oxidation Flow Reactors for the Study of OH-Initiated Atmospheric Chemistry. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 72-86.	1.2	26
4	Characterization of a catalyst-based conversion technique to measure total particulate nitrogen and organic carbon and comparison to a particle mass measurement instrument. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 2749-2768.	1.2	21
5	Nocturnal loss and daytime source of nitrous acid through reactive uptake and displacement. <i>Nature Geoscience</i> , 2015, 8, 55-60.	5.4	89
6	Deposition and rainwater concentrations of trifluoroacetic acid in the United States from the use of HFO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 14,059.	1.2	32
7	Uptake of HNO ₃ on Aviation Kerosene and Aircraft Engine Soot: Influences of H ₂ O or/and H ₂ SO ₄ . <i>Journal of Physical Chemistry A</i> , 2013, 117, 4928-4936.	1.1	3
8	Nitryl Chloride (ClNO ₂): UV/Vis Absorption Spectrum between 210 and 296 K and O(3P) Quantum Yield at 193 and 248 nm. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5796-5805.	1.1	39
9	Heterogeneous Interaction of N ₂ O ₅ with HCl Doped H ₂ SO ₄ under Stratospheric Conditions: ClNO ₂ and Cl ₂ Yields. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6003-6014.	1.1	12
10	Atmospheric Chemistry of CF ₃ CF ₂ CH ₂ and (Z)-CF ₃ CF ₂ CHF: Cl and NO ₃ Rate Coefficients, Cl Reaction Product Yields, and Thermochemical Calculations. <i>Journal of Physical Chemistry A</i> , 2011, 115, 167-181.	1.1	37
11	Rate coefficients for the reaction of methylglyoxal (CH ₃ C(=O)CHO) with OH and NO ₃ and glyoxal (HCOCHO) with NO ₃ . <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10837-10851.	1.9	15
12	Kinetics and Products of the Reaction O ₂ (¹ Δ _g) with N ₂ O. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010, 224, 989-1007.	1.4	6
13	Rate coefficients for the reactions of OH with n-propanol and iso-propanol between 237 and 376 K. <i>International Journal of Chemical Kinetics</i> , 2010, 42, 10-24.	1.0	15
14	Rate Coefficients for the Gas-Phase Reaction of the Hydroxyl Radical with CH ₂ CF ₂ and CH ₂ CF ₂ . <i>Journal of Physical Chemistry A</i> , 2010, 114, 4619-4633.	1.1	41
15	(CH ₃) ₃ COOH (tert-butyl hydroperoxide): OH reaction rate coefficients between 206 and 375 K and the OH photolysis quantum yield at 248 nm. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12101.	1.3	48
16	Rate coefficients for the OH + acetaldehyde (CH ₃ CHO) reaction between 204 and 373 K. <i>International Journal of Chemical Kinetics</i> , 2008, 40, 635-646.	1.0	18
17	High levels of nitryl chloride in the polluted subtropical marine boundary layer. <i>Nature Geoscience</i> , 2008, 1, 324-328.	5.4	403
18	CF ₃ CF ₂ CH ₂ and (Z)-CF ₃ CF ₂ CHF: temperature dependent OH rate coefficients and global warming potentials. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 808-820.	1.3	119

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19	Rate Coefficients for the OH + HC(O)C(O)H (Glyoxal) Reaction between 210 and 390 K. Journal of Physical Chemistry A, 2008, 112, 73-82.	1.1	45
20	Rate Coefficients for the OH + Pinonaldehyde (C ₁₀ H ₁₆ O ₂) Reaction between 297 and 374 K. Environmental Science & Technology, 2007, 41, 3959-3965.	4.6	12
21	Uptake of HNO ₃ on Hexane and Aviation Kerosene Soots. Journal of Physical Chemistry A, 2006, 110, 9643-9653.	1.1	9
22	Kinetic Studies of the Reactions of O ₂ (¹ Δ _{g+) with Several Atmospheric Molecules. Journal of Physical Chemistry A, 2005, 109, 3912-3920.}	1.1	34
23	Kinetics of the Removal of OH(<i>v</i> = 1) and OD(<i>v</i> = 1) by HNO ₃ and DNO ₃ from 253 to 383 K. Journal of Physical Chemistry A, 2003, 107, 7762-7769.	1.1	21
24	Reaction of Hydroxyl Radical with Acetone. 2. Products and Reaction Mechanism. Journal of Physical Chemistry A, 2003, 107, 5021-5032.	1.1	58
25	Kinetics of O ₂ (¹ Δ _{g+) Reaction with H₂ and an Upper Limit for OH Production. Journal of Physical Chemistry A, 2002, 106, 8461-8470.}	1.1	8
26	Reactive uptake of NO ₃ by liquid and frozen organics. Journal of Geophysical Research, 2002, 107, AAC 6-1.	3.3	66
27	Reaction of Hydroxyl Radical with Nitric Acid: Insights into Its Mechanism. Journal of Physical Chemistry A, 2001, 105, 1605-1614.	1.1	47
28	Kinetics of the reaction OH + CO under atmospheric conditions. Geophysical Research Letters, 2001, 28, 3135-3138.	1.5	33
29	Kinetics of the reactions of OH with several alkyl halides. Electronic Supplementary Information available. See http://www.rsc.org/suppdata/cp/b1/b105188c/ . Physical Chemistry Chemical Physics, 2001, 3, 4529-4535.	1.3	23
30	Quantification of the Tropospheric Removal of Chloral (CCl ₃ CHO): Rate Coefficient for the Reaction with OH, UV Absorption Cross Sections, and Quantum Yields. Journal of Physical Chemistry A, 2001, 105, 5188-5196.	1.1	7
31	Rate Coefficients for the OH + CF ₃ I Reaction between 271 and 370 K. Journal of Physical Chemistry A, 2000, 104, 8945-8950.	1.1	17
32	Rate constants for the reaction OH+NO ₂ +M → HNO ₃ +M under atmospheric conditions. Chemical Physics Letters, 1999, 299, 277-284.	1.2	109
33	Role of nitrogen oxides in the stratosphere: A reevaluation based on laboratory studies. Geophysical Research Letters, 1999, 26, 2387-2390.	1.5	46
34	Reconsideration of the Rate Constant for the Reaction of Hydroxyl Radicals with Nitric Acid. Journal of Physical Chemistry A, 1999, 103, 3031-3037.	1.1	111
35	Rate Coefficients for the Reactions of OH and OD with HCl and DCl between 200 and 400 K. Journal of Physical Chemistry A, 1999, 103, 3237-3244.	1.1	46
36	Quantum yields of O(¹ D) in the photolysis of ozone between 289 and 329 nm as a function of temperature. Geophysical Research Letters, 1998, 25, 143-146.	1.5	91

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37	Multiphase chemistry of NO ₃ in the remote troposphere. Journal of Geophysical Research, 1998, 103, 16133-16143.	3.3	34
38	Oxidation of atmospheric reduced sulphur compounds: perspective from laboratory studies. Philosophical Transactions of the Royal Society B: Biological Sciences, 1997, 352, 171-182.	1.8	86
39	Atmospheric fate of several alkyl nitrates Part 2 UV absorption cross-sections and photodissociation quantum yields. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 2797-2805.	1.7	94
40	Atmospheric fate of several alkyl nitrates Part 1 Rate coefficients of the reactions of alkyl nitrates with isotopically labelled hydroxyl radicals. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 2787.	1.7	66
41	Uptake of NO ₃ on Water Solutions: Rate Coefficients for Reactions of NO ₃ with Cloud Water Constituents. Journal of Physical Chemistry A, 1997, 101, 2316-2322.	1.1	21
42	Rate Coefficients for the Reactions of Hydroxyl Radicals with Methane and Deuterated Methanes. Journal of Physical Chemistry A, 1997, 101, 3125-3134.	1.1	135
43	Photolysis of ozone at 308 and 248 nm: Quantum yield of O(¹ D) as a function of temperature. Geophysical Research Letters, 1997, 24, 1091-1094.	1.5	33
44	Atmospheric fate of methyl vinyl ketone and methacrolein. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 110, 1-10.	2.0	98
45	Atmospheric fate and greenhouse warming potentials of HFC 236fa and HFC 236ea. Journal of Geophysical Research, 1996, 101, 12905-12911.	3.3	8
46	Reactive uptake of NO ₃ on pure water and ionic solutions. Journal of Geophysical Research, 1996, 101, 21023-21031.	3.3	116
47	Kinetics of Hydroxyl Radical Reactions with Isotopically Labeled Hydrogen. The Journal of Physical Chemistry, 1996, 100, 3037-3043.	2.9	76
48	Uptake of NO ₃ on KI solutions: rate coefficient for the NO ₃ + I ⁻ reaction and gas-phase diffusion coefficients for NO ₃ . Chemical Physics Letters, 1996, 261, 467-473.	1.2	50
49	Rate coefficients for O(¹ D) + H ₂ , D ₂ , HD reactions and H atom yield in O(¹ D) + HD reaction. Chemical Physics Letters, 1996, 253, 177-183.	1.2	65
50	UV laser photodissociation of CF ₂ ClBr and CF ₂ Br ₂ at 298 K: quantum yields of Cl, Br, and CF ₂ . Chemical Physics Letters, 1996, 262, 669-674.	1.2	14
51	Reactions of O(³ P) with Alkyl Iodides: Rate Coefficients and Reaction Products. The Journal of Physical Chemistry, 1996, 100, 14005-14015.	2.9	90
52	Rate Coefficients for Reactions of NO ₃ with a Few Olefins and Oxygenated Olefins. The Journal of Physical Chemistry, 1996, 100, 5374-5381.	2.9	61
53	Reaction of Methylbutenol with the OH Radical: Mechanism and Atmospheric Implications. The Journal of Physical Chemistry, 1995, 99, 12188-12194.	2.9	67
54	Investigation of the loss processes for peroxyacetyl nitrate in the atmosphere: UV photolysis and reaction with OH. Journal of Geophysical Research, 1995, 100, 14163.	3.3	165

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55	Kinetics of the reactions of OH with alkanes. International Journal of Chemical Kinetics, 1994, 26, 973-990.	1.0	44
56	Temperature dependence of the ClONO ₂ UV absorption spectrum. Geophysical Research Letters, 1994, 21, 585-588.	1.5	37
57	Kinetics of the reactions of HBr with O ₃ and HO ₂ : The yield of HBr from HO ₂ + BrO. Journal of Geophysical Research, 1994, 99, 22949.	3.3	36
58	Temperature Dependence of the NO ₃ Absorption Spectrum. The Journal of Physical Chemistry, 1994, 98, 13144-13150.	2.9	132
59	Temperature dependence of the ozone absorption spectrum over the wavelength range 410 to 760 nm. Geophysical Research Letters, 1994, 21, 581-584.	1.5	91
60	Study of the kinetics of the reactions of NO ₃ with HO ₂ and OH. International Journal of Chemical Kinetics, 1993, 25, 25-39.	1.0	16
61	Temperature dependence of the HNO ₃ UV absorption cross sections. Journal of Geophysical Research, 1993, 98, 22937-22948.	3.3	86
62	Condensation of SF ₆ in seeded supersonic jets. Molecular Physics, 1993, 80, 127-134.	0.8	3
63	Rate coefficients for reactions of several hydrofluorocarbons with hydroxyl and oxygen atom(1D) and their atmospheric lifetimes. The Journal of Physical Chemistry, 1993, 97, 8976-8982.	2.9	66
64	Response to the comment on "Reported errors in the rate constant for the reaction hydroxyl pentafluoroethane". The Journal of Physical Chemistry, 1992, 96, 3561-3562.	2.9	2
65	Photodissociation of bromocarbons at 193, 222, and 248 nm: Quantum yields of Br atom at 298 K. Journal of Chemical Physics, 1992, 96, 8194-8201.	1.2	42
66	Kinetics of the OH Reaction with Methyl Chloroform and Its Atmospheric Implications. Science, 1992, 257, 227-230.	6.0	38
67	Atmospheric lifetimes and ozone depletion potentials of methyl bromide (CH ₃ Br) and dibromomethane (CH ₂ Br ₂). Geophysical Research Letters, 1992, 19, 2059-2062.	1.5	103
68	Correction to "Atmospheric lifetimes and ozone depletion potentials of methyl bromide (CH ₃ Br) and dibromomethane (CH ₂ Br ₂) by A. Mellouki, Ranajit K. Talukdar, Anne-Marie Schmoltner, Tomasz Gierczak, Michael J. Mills, Susan Solomon, and A. R. Ravishankara. Geophysical Research Letters, 1992, 19, 2279-2280.	1.5	1
69	Rate coefficients for the reaction of OH with HONO between 298 and 373 K. International Journal of Chemical Kinetics, 1992, 24, 711-725.	1.0	35
70	Kinetics of the reaction of H(2S) with HBr. International Journal of Chemical Kinetics, 1992, 24, 973-982.	1.0	26
71	Atmospheric fate of CF ₃ Br, CF ₂ Br ₂ , CF ₂ ClBr, and CF ₂ BrCF ₂ Br. Journal of Geophysical Research, 1991, 96, 5025-5043.	3.3	53
72	Atmospheric fate of hydrofluoroethanes and hydrofluorochloroethanes: 1. Rate coefficients for reactions with OH. Journal of Geophysical Research, 1991, 96, 5001-5011.	3.3	52

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73	Atmospheric Lifetime of CHF ₂ Br, a Proposed Substitute for Halons. <i>Science</i> , 1991, 252, 693-695.	6.0	18
74	Atmospheric fate of difluoromethane, 1,1,1-trifluoroethane, pentafluoroethane, and 1,1-dichloro-1-fluoroethane: rate coefficients for reactions with hydroxyl and UV absorption cross sections of 1,1-dichloro-1-fluoroethane. <i>The Journal of Physical Chemistry</i> , 1991, 95, 5815-5821.	2.9	72
75	Infrared diode laser absorption study of free jets of NH ₃ . <i>Journal of Molecular Structure</i> , 1989, 194, 117-133.	1.8	8
76	Observation of autoionization resonances in uranium by step-wise laser photoionization. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1989, 48, 525-530.	1.5	18
77	Associative ionisation of laser-excited uranium with molecular oxygen. <i>Chemical Physics Letters</i> , 1988, 144, 407-411.	1.2	2
78	Two colour multiphoton ionization spectroscopy of uranium from a metastable state. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1988, 47, 55-59.	1.5	15
79	Understanding single-color multiphoton ionization spectra by pump-probe technique. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1988, 5, 1257.	0.9	10
80	Observation of new high-lying odd levels of U I in a two-color multiphoton ionization spectrum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1987, 4, 1835.	0.9	19
81	Thermal stability and IR-laser-driven selective photochemistry of a volatile uranyl compound at natural abundance. <i>Chemical Physics</i> , 1987, 113, 159-165.	0.9	3
82	Relaxation in pure and seeded supersonic jets of SF ₆ . <i>Chemical Physics</i> , 1985, 95, 145-155.	0.9	13
83	Infrared diode laser diagnostic of supersonic free jets. <i>Chemical Physics Letters</i> , 1983, 101, 397-400.	1.2	14
84	Molecular beam study of photoionization of uranium and uranium oxide. <i>Optics Communications</i> , 1983, 45, 179-182.	1.0	3