Michel J Rossi

List of Publications by Year
in descending order

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159	11,543	66343	30922
papers	citations	42 h-index	102 g-index

184	184	184	7595
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume I - gas phase reactions of O_x, HO_x, NO_x and SO_x species. Atmospheric Chemistry and Physics, 2004, 4, 1461-1738.	4.9	1,597
2	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume II â€“ gas phase reactions of organic species. Atmospheric Chemistry and Physics, 2006, 6, 3625-4055.	4.9	1,508
3	Evaluated Kinetic, Photochemical and Heterogeneous Data for Atmospheric Chemistry: Supplement V. â€‰ IUPAC Subcommittee on Gas Kinetic Data Evaluation for Atmospheric Chemistry. Journal of Physical and Chemical Reference Data, 1997, 26, 521-1011.	4.2	903
4	Evaluated Kinetic and Photochemical Data for Atmospheric Chemistry: Supplement VI. IUPAC Subcommittee on Gas Kinetic Data Evaluation for Atmospheric Chemistry. Journal of Physical and Chemical Reference Data, 1997, 26, 1329-1499.	4.2	661
5	An overview of current issues in the uptake of atmospheric trace gases by aerosols and clouds. Atmospheric Chemistry and Physics, 2010, 10, 10561-10605.	4.9	352
6	Evaluated Kinetic and Photochemical Data for Atmospheric Chemistry, Organic Species: Supplement VII. Journal of Physical and Chemical Reference Data, 1999, 28, 191-393.	4.2	338
7	Reaction of Chlorine Nitrate with Hydrogen Chloride and Water at Antarctic Stratospheric Temperatures. Science, 1987, 238, 1258-1260.	12.6	315
8	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume V â€“ heterogeneous reactions on solid substrates. Atmospheric Chemistry and Physics, 2010, 10, 9059-9223.	4.9	312
9	IUPAC Critical Evaluation of Thermochemical Properties of Selected Radicals. Part I. Journal of Physical and Chemical Reference Data, 2005, 34, 573-656.	4.2	283
10	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume IV â€“ gas phase reactions of organic halogen species. Atmospheric Chemistry and Physics, 2008, 8, 4141-4496.	4.9	221
11	Heterogeneous Reactions on Salts. Chemical Reviews, 2003, 103, 4823-4882.	47.7	194
12	Evaluated Kinetic and Photochemical Data for Atmospheric Chemistry: Supplement VIII, Halogen Species Evaluation for Atmospheric Chemistry. Journal of Physical and Chemical Reference Data, 2000, 29, 167-266.	4.2	183
13	Evaluated kinetic and photochemical data for atmospheric chemistry: Volume VI â€“ heterogeneous reactions with liquid substrates. Atmospheric Chemistry and Physics, 2013, 13, 8045-8228.	4.9	167
14	Heterogeneous interactions of chlorine nitrate, hydrogen chloride, and nitric acid with sulfuric acid surfaces at stratospheric temperatures. Geophysical Research Letters, 1988, 15, 847-850.	4.0	161
15	Energyâ€dependent energy transfer: Deactivation of azulene (S0,â€‰Evib) by 17 collider gases. Journal of Chemical Physics, 1983, 78, 6695-6708.	3.0	159
16	Antarctic Ozone Depletion Chemistry: Reactions of N2O5 with H2O and HCl on Ice Surfaces. Science, 1988, 240, 1018-1021.	12.6	143
17	Formation of highly oxygenated organic molecules from aromatic compounds. Atmospheric Chemistry and Physics, 2018, 18, 1909-1921.	4.9	133
18	Adverse Effects of Industrial Multiwalled Carbon Nanotubes on Human Pulmonary Cells. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2008, 72, 60-73.	2.3	129

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19	The chemical kinetics of HONO formation resulting from heterogeneous interaction of NO2with flame soot. Geophysical Research Letters, 1998, 25, 2453-2456.	4.0	108
20	Kinetic and mechanistic aspects of the NO oxidation by O2 in aqueous phase. International Journal of Chemical Kinetics, 1994, 26, 1207-1227.	1.6	98
21	Kinetics of Nitric Acid Uptake by Salt. The Journal of Physical Chemistry, 1994, 98, 9801-9810.	2.9	97
22	Heterogeneous Kinetics of N2O5Uptake on Salt, with a Systematic Study of the Role of Surface Presentation (for N2O5and HNO3). The Journal of Physical Chemistry, 1996, 100, 1008-1019.	2.9	97
23	Absolute rate constants for metathesis reactions of allyl and benzyl radicals with hydriodic acid (hydriodic acid-d). Heat of formation of allyl and benzyl radicals. Journal of the American Chemical Society, 1979, 101, 1230-1235.	13.7	89
24	The Heterogeneous Reaction of Ozone on Carbonaceous Surfaces. International Journal of Chemical Kinetics, 1986, 18, 1133-1149.	1.6	89
25	The reactivity of NO2 and HONO on flame soot at ambient temperature: The influence of combustion conditions. Physical Chemistry Chemical Physics, 2000, 2, 5420-5429.	2.8	87
26	Paper I: Design and construction of a Knudsen-cell reactor for the study of heterogeneous reactions over the temperature range 130â€“750 K: Performances and limitations. Review of Scientific Instruments, 1997, 68, 3172-3179.	1.3	84
27	The equilibrium constant and rate constant for allyl radical recombination in the gas phase. Journal of the American Chemical Society, 1979, 101, 1223-1230.	13.7	79
28	The thermal decomposition of the new energetic material ammoniumdinitramide (NH4N(NO2)2) in relation to Nitramide (NH2NO2) and NH4NO3. International Journal of Chemical Kinetics, 1993, 25, 549-570.	1.6	78
29	Coating carbon nanotubes with a polystyrene-based polymer protects against pulmonary toxicity. Particle and Fibre Toxicology, 2011, 8, 3.	6.2	74
30	The heterogeneous chemical kinetics of N₂O₅ on CaCO₃ and other atmospheric mineral dust surrogates. Atmospheric Chemistry and Physics, 2006, 6, 1373-1388.	4.9	70
31	Real-Time Kinetics of the Uptake of ClONO2on Ice and in the Presence of HCl in the Temperature Range 160 K â‰Tâ‰ 200 K. Journal of Physical Chemistry A, 1997, 101, 1903-1911.	2.5	69
32	Uptake of CO2, SO2, HNO3and HCl on Calcite (CaCO3) at 300 K:Â Mechanism and the Role of Adsorbed Waterâ€. Journal of Physical Chemistry A, 2006, 110, 6789-6802.	2.5	64
33	Infrared multiphoton generation of radicals: A new technique for obtaining absolute rate constants. Application to reactions of CF3. Journal of Chemical Physics, 1979, 71, 3722-3727.	3.0	59
34	Concerning the Conformation of Isolated Benzylideneaniline. Helvetica Chimica Acta, 1976, 59, 486-498.	1.6	57
35	Experimental evidence for the efficient â€œdry depositionâ€•of nitric acid on calcite. Atmospheric Environment, 1995, 29, 3365-3372.	4.1	57
36	The heterogeneous chemical kinetics of NO3 on atmospheric mineral dust surrogates. Physical Chemistry Chemical Physics, 2005, 7, 3150.	2.8	57

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37	Infrared multiphoton decomposition: photochemistry and photophysics. Accounts of Chemical Research, 1981, 14, 56-62.	15.6	56
38	Perspectives on the Future of Ice Nucleation Research: Research Needs and Unanswered Questions Identified from Two International Workshops. Atmosphere, 2017, 8, 138.	2.3	56
39	Thermochemical properties of free radicals from G3MP2B3 calculations. International Journal of Chemical Kinetics, 2002, 34, 550-560.	1.6	53
40	Comparison of Three Acellular Tests for Assessing the Oxidation Potential of Nanomaterials. Aerosol Science and Technology, 2013, 47, 218-227.	3.1	52
41	The Kinetics of H2O Vapor Condensation and Evaporation on Different Types of Ice in the Range 130â^'210 K. Journal of Physical Chemistry A, 2006, 110, 3042-3058.	2.5	47
42	Infrared multiphoton dissociation yields via a versatile new technique: intensity, fluence, and wavelength dependence for CF3I. Chemical Physics Letters, 1979, 65, 523-526.	2.6	46
43	Infrared fluorescence and collisional energy transfer parameters for vibrationally excited azulene*(So): dependence on internal energy (Evib). Chemical Physics Letters, 1982, 85, 21-26.	2.6	45
44	Heterogeneous Chemistry of the NO3 Free Radical and N2O5 on Decane Flame Soot at Ambient Temperature:â€‰ Reaction Products and Kinetics. Journal of Physical Chemistry A, 2007, 111, 1914-1926.	2.5	44
45	Gas-phase UV spectroscopy of anthracene, xanthone, pyrene, 1-bromopyrene and 1,2,4-trichlorobenzene at elevated temperatures. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 104, 25-33.	3.9	43
46	Aliphatic carbon-hydrogen bond scission processes in diphenylmethane and 2-benzyl- and 4-benzylpyridine. The heat of formation of the diphenylmethyl and .alpha.-phenylethyl radical in the gas phase. The Journal of Physical Chemistry, 1984, 88, 5031-5039.	2.9	42
47	Real-Time Kinetic Measurements of the Condensation and Evaporation of D2O Molecules on Ice at 140 K <T< 220 K. Journal of Physical Chemistry A, 1998, 102, 10300-10309.	2.5	41
48	Reactivity of NO2 and H2O on soot generated in the laboratory: a diffusion tube study at ambient temperature. Physical Chemistry Chemical Physics, 2000, 2, 5584-5593.	2.8	41
49	Flame soot generated under controlled combustion conditions: Heterogeneous reaction of NO2 on hexane soot. International Journal of Chemical Kinetics, 2002, 34, 620-631.	1.6	41
50	Biomarkers of oxidative stress and its association with the urinary reducing capacity in bus maintenance workers. Journal of Occupational Medicine and Toxicology, 2011, 6, 18.	2.2	39
51	Heterogeneous Kinetics of the Uptake of HOBr on Solid Alkali Metal Halides at Ambient Temperatureâ€. Journal of Physical Chemistry A, 1998, 102, 4819-4828.	2.5	38
52	Heterogeneous Kinetics of the Uptake of ClONO2on NaCl and KBr. The Journal of Physical Chemistry, 1996, 100, 7494-7501.	2.9	37
53	The heterogeneous reaction of NO3with NaCl and KBr: A nonphotolytic source of halogen atoms. Geophysical Research Letters, 1997, 24, 2757-2760.	4.0	37
54	Rate of decomposition of hexafluoroazomethane and the absolute rate of recombination of trifluoromethyl radical at higher temperatures. International Journal of Chemical Kinetics, 1979, 11, 775-788.	1.6	36

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55	Heterogeneous Kinetics of HONO on H2SO4Solutions and on Ice:Â Activation of HCl. The Journal of Physical Chemistry, 1996, 100, 13765-13775.	2.9	36
56	The rate of water vapor evaporation from ice substrates in the presence of HCl and HBr: implications for the lifetime of atmospheric ice particles. Atmospheric Chemistry and Physics, 2003, 3, 1131-1145.	4.9	35
57	Thermochemical properties from G3MP2B3 calculations, Set-2: Free radicals with special consideration of CH2?CH?C??CH2, cyclo??C5H5,?CH2OOH, HO??CO, and HC(O)O?. International Journal of Chemical Kinetics, 2004, 36, 661-686.	1.6	35
58	Absolute rate of recombination of CF3 radicals. Chemical Physics Letters, 1986, 124, 68-72.	2.6	34
59	Heterogeneous chemical reaction of chlorine nitrate and water on sulfuricâ€acid surfaces at room temperature. Geophysical Research Letters, 1987, 14, 127-130.	4.0	33
60	The kinetics of condensation and evaporation of H2O from pure ice in the range 173â€“223 K: a quartz crystal microbalance study. Physical Chemistry Chemical Physics, 2004, 6, 4665-4676.	2.8	33
61	Properties of the HCl/Ice, HBr/Ice, and H2O/Ice Interface at Stratospheric Temperatures (200 K) and Its Importance for Atmospheric Heterogeneous Reactions. Journal of Physical Chemistry A, 2000, 104, 11739-11750.	2.5	32
62	Heterogeneous reactions of HNO3with flame soot generated under different combustion conditions. Reaction mechanism and kinetics. Physical Chemistry Chemical Physics, 2002, 4, 5110-5118.	2.8	32
63	The use of heterogeneous chemistry for the characterization of functional groups at the gas/particle interface of soot and TiO2 nanoparticles. Physical Chemistry Chemical Physics, 2009, 11, 6205.	2.8	31
64	Photoenhanced electron attachment of vinylchloride and trifluoroethylene at 193 nm. Applied Physics Letters, 1985, 47, 576-578.	3.3	30
65	Î´15N measurement of organic and inorganic substances by EA-IRMS: a speciation-dependent procedure. Analytical and Bioanalytical Chemistry, 2013, 405, 159-176.	3.7	30
66	Homogeneous decomposition of vinyl ethers. The heat of formation of ethanal-2-yl. International Journal of Chemical Kinetics, 1979, 11, 715-730.	1.6	29
67	Paper II: Simulation of flow conditions in low-pressure flow reactors (Knudsen cells) using a Monte Carlo technique. Review of Scientific Instruments, 1997, 68, 3180-3186.	1.3	29
68	Common Precursor Mechanism for the Heterogeneous Reaction of D2O, HCl, HBr, and HOBr with Water Ice in the Range 170â^'230 K:â€‰ Mass Accommodation Coefficients on Ice. Journal of Physical Chemistry A, 2003, 107, 4103-4115.	2.5	28
69	Atomâ€and radicalâ€surface sticking coefficients measured using resonanceâ€enhanced multiphoton ionization. Journal of Chemical Physics, 1989, 91, 5037-5049.	3.0	27
70	Real time kinetics and thermochemistry of the uptake of HCl, HBr and HI on water ice in the temperature range 190 to 210 K. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1998, 102, 915-928.	0.9	26
71	Multiple Charge-Transfer Transitions in Alkylbenzene-TCNE Complexes. Helvetica Chimica Acta, 1976, 59, 1039-1053.	1.6	25
72	Can soot particles emitted by airplane exhaust contribute to the formation of aviation contrails and cirrus clouds?. Geophysical Research Letters, 2002, 29, 1-1-1-4.	4.0	24

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73	The heterogeneous kinetics of HOBr and HOCl on acidified sea salt and model aerosol at 40â€“90% relative humidity and ambient temperature. Physical Chemistry Chemical Physics, 2006, 8, 3988-4001.	2.8	24
74	Chemical characterization of atmospheric ions at the high altitude research station Jungfraujoch (Switzerland). Atmospheric Chemistry and Physics, 2017, 17, 2613-2629.	4.9	24
75	Reaction probability for the spontaneous etching of silicon by CF3 free radicals. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1988, 6, 1632.	1.6	23
76	Sticking coefficient of the SiH2 free radical on a hydrogenated siliconâ€carbon surface. Applied Physics Letters, 1989, 54, 185-187.	3.3	23
77	The kinetics of the uptake of HNO3 on ice, solid H2SO4â€“H2O and solid ternary solutions of H2SO4â€“HNO3â€“H2O in the temperature range 180â€“211 K. Physical Chemistry Chemical Physics, 2001, 3, 3707-3716.	2.8	23
78	Chemical Kinetics of the Interaction of H2O Vapor with Soot in the Range 190 K â‰ T â‰ 300 K:â€‰ A Diffusion Tube Study. Journal of Physical Chemistry A, 2004, 108, 10667-10680.	2.5	23
79	Probing Functional Groups at the Gasâ€“Aerosol Interface Using Heterogeneous Titration Reactions: A Tool for Predicting Aerosol Health Effects?. ChemPhysChem, 2010, 11, 3823-3835.	2.1	23
80	Level-to-level vibrational energy transfer studies: energy dependence and observation of product species for azulenes(S0, Evib) + CO2. Chemical Physics Letters, 1982, 90, 99-104.	2.6	22
81	The kinetics of the heterogeneous reaction of BrONO2 with solid alkali halides at ambient temperature. A comparison with the interaction of ClONO2 on NaCl and KBr. Physical Chemistry Chemical Physics, 1999, 1, 4337-4346.	2.8	22
82	Rate Constants for the Reactions t-C4H9+DXâ†'i-C4H9D+X(X = Br,I), 295T(K) < 384: Heat of Formation of the tert-Butyl Radical. Journal of the American Chemical Society, 1989, 111, 956-962.	13.7	21
83	Heterogeneous reactivity of the nitrate radical: reactions on halogen salt at ambient temperature and on ice in the presence of HX (X=Cl, Br, I) at 190 K. Physical Chemistry Chemical Physics, 1999, 1, 2257-2266.	2.8	21
84	Influence of Monolayer Amounts of HNO3 on the Evaporation Rate of H2O over Ice in the Range 179 to 208 K:â€‰ A Quartz Crystal Microbalance Study. Journal of Physical Chemistry A, 2005, 109, 7151-7165.	2.5	21
85	Relationship between bond dissociation energies and activation energies for bond scission reactions. International Journal of Chemical Kinetics, 1994, 26, 211-217.	1.6	20
86	A molecular diffusion tube study of N2O5 and HONO2 interacting with NaCl and KBr at ambient temperature. Physical Chemistry Chemical Physics, 1999, 1, 2687-2694.	2.8	19
87	Transient mid-IR study of electron dynamics in TiO2 conduction band. Analyst, The, 2013, 138, 1966.	3.5	19
88	Controls on the surface chemical reactivity of volcanic ash investigated with probe gases. Earth and Planetary Science Letters, 2016, 450, 254-262.	4.4	19
89	Reactive Uptake of Sulfur Dioxide and Ozone on Volcanic Glass and Ash at Ambient Temperature. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10,077.	3.3	19
90	Infrared multiphoton photophysics: Decomposition of CnF2n+1I (n = 1, 2, 3). Journal of Chemical Physics, 1982, 76, 406-416.	3.0	18

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91	Laser-induced kinetics: Arrhenius parameters fort-C4H9 + XI ?i-C4H9X + I (X = H,D) and the Heat of Formation of thet-butyl radical. International Journal of Chemical Kinetics, 1983, 15, 1283-1300.	1.6	18
92	The heterogeneous interaction of NO₂ with amorphous carbon. Geophysical Research Letters, 1993, 20, 1431-1434.	4.0	18
93	Quantitative Aspects of the Interfacial Catalytic Oxidation of Dithiothreitol by Dissolved Oxygen in the Presence of Carbon Nanoparticles. Environmental Science & Technology, 2016, 50, 996-1004.	10.0	18
94	Multiphoton ionization of vinylchloride, trifluoroethylene, and benzene at 193 nm. Journal of Chemical Physics, 1987, 87, 902-909.	3.0	17
95	In situ radical detection under very low pressure photolysis conditions using resonance-enhanced multiphoton ionization. Kinetics of trifluoromethyl radicals produced from IR multiphoton dissociation of hexafluoroacetone. The Journal of Physical Chemistry, 1988, 92, 5338-5347.	2.9	17
96	The heterogeneous formation of N2O in the presence of acidic solutions: Experiments and modeling. International Journal of Chemical Kinetics, 1997, 29, 869-891.	1.6	17
97	The absolute rate constant for the metathesist-C4H9? + DI ? C4H9D + I? and the heat of formation of thet-butyl radical. International Journal of Chemical Kinetics, 1979, 11, 969-976.	1.6	16
98	Heterogeneous Reaction of NO3with Ice and Sulfuric Acid Solutions:Â Upper Limits for the Uptake Coefficients. Journal of Physical Chemistry A, 1997, 101, 4110-4113.	2.5	16
99	The heterogeneous reaction of N₂O₅ with HBr on Ice comparison with N₂O₅+HCl. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1998, 102, 811-820.	0.9	16
100	Electronic Structure, Molecular Conformation and Reactivity of Benzonorbornadiene Systems. Helvetica Chimica Acta, 1976, 59, 278-290.	1.6	15
101	Real-time measurement of residence times of gas molecules on solid surfaces. Chemical Physics Letters, 1997, 275, 253-260.	2.6	15
102	The heterogeneous decomposition of ozone on atmospheric mineral dust surrogates at ambient temperature. International Journal of Chemical Kinetics, 2006, 38, 407-419.	1.6	15
103	Molecular Characterization of the Gasâ€“Particle Interface of Soot Sampled from a Diesel Engine Using a Titration Method. Environmental Science & Technology, 2016, 50, 2946-2955.	10.0	15
104	Quantitative aspects of benzene photoionization at 248 nm. Chemical Physics Letters, 1985, 120, 118-123.	2.6	14
105	Direct Measurement of Surface Residence Times:Â Nitryl Chloride and Chlorine Nitrate on Alkali Halides at Room Temperature. Journal of Physical Chemistry A, 1998, 102, 9193-9201.	2.5	14
106	Reinvestigation of the Elementary Chemical Kinetics of the Reaction C2H5â€¢ + HBr (HI) â†' C2H6 + Brâ€¢ (Iâ€¢) in the Range 293â€“623 K and Its Implication on the Thermochemical Parameters of C2H5â€¢ Free Radical. Journal of Physical Chemistry A, 2013, 117, 11383-11402.	2.5	14
107	N2O5 photolysis products investigated by fluorescence and optoacoustic techniques. International Journal of Chemical Kinetics, 1985, 17, 991-1006.	1.6	12
108	A pulsed halogen atom source for kinetic measurements in a Knudsen cell reactor. Review of Scientific Instruments, 1990, 61, 1217-1222.	1.3	12

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109	The heterogeneous formation of N2O over bulk condensed phases in the presence of SO2 at high humidities. Journal of Atmospheric Chemistry, 1996, 25, 229-250.	3.2	12
110	The heterogeneous reaction of HONO and HBr on ice and on sulfuric acid. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1997, 101, 943-955.	0.9	12
111	Reactivity of BrNO2and ClNO2with Solid Alkali Salt Substrates. Journal of Physical Chemistry A, 1998, 102, 7470-7479.	2.5	12
112	Heterogeneous Chemistry of HOBr on Different Types of Ice and on Ice Doped with HCl, HBr, and HNO3at 175 K <T< 215 K. Journal of Physical Chemistry A, 2000, 104, 7268-7277.	2.5	12
113	Heterogeneous Hydrolysis and Reaction of BrONO2 and Br2O on Pure Ice and Ice Doped with HBr. Journal of Physical Chemistry A, 2002, 106, 5891-5901.	2.5	12
114	Thermochemical properties from ab initio calculations: Ï€â€• and Ïƒâ€Free radicals of importance in soot formation: ^{â€¢}C₃H₃ (propargyl), ^{â€¢}C₄H₃, ^{â€¢}C₁₃H₉ (phenalenyl), ^{â€¢}C₆H₅ (phenyl), ^{â€¢}C₁₀H₇ (naphthyl), ^{â€¢}C₁₄H₉ (anthryl), ^{â€¢}C₁₄H₉ (phenanthryl), ^{â€¢}C₁₆H₉	1.6	12
115	Characterization of surface functional groups present on laboratory-generated and ambient aerosol particles by means of heterogeneous titration reactions. Journal of Aerosol Science, 2009, 40, 534-548.	3.8	12
116	The use of heterogeneous chemistry for the characterization of functional groups at the gas/particle interface of soot from a diesel engine at a particular running condition. Environmental Science and Pollution Research, 2015, 22, 4863-4872.	5.3	12
117	Metastable Nitric Acid Trihydrate in Ice Clouds. Angewandte Chemie - International Edition, 2016, 55, 3276-3280.	13.8	12
118	Physical and Chemical Interaction of Homoconjugated Dienes with Tetracyanoethylene. Helvetica Chimica Acta, 1976, 59, 2635-2652.	1.6	11
119	[3+2] resonance enhanced multiphoton ionization of I and Br formed from the infrared multiphoton decomposition of CF3I and CF3Br. Journal of Chemical Physics, 1988, 89, 2925-2931.	3.0	11
120	On the Correlation between Ionization Potentials and Excitation Energies, part III: Pyrazine. Helvetica Chimica Acta, 1973, 56, 2889-2899.	1.6	10
121	Reaction of CF3 radicals on fused silica between 320 and 530 K. Journal of Chemical Physics, 1986, 84, 2400-2407.	3.0	10
122	Kinetics of surface reactions of CF3 radicals. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 3351-3358.	2.1	10
123	Interaction of chlorine atom(2P3/2) and chlorine atom(2P1/2) with polycrystalline nickel surfaces. The Journal of Physical Chemistry, 1991, 95, 825-834.	2.9	10
124	The nature of the interface and the diffusion coefficient of HCl/ice and HBr/ice in the temperature range 190â€“205 K. Physical Chemistry Chemical Physics, 2003, 5, 4157-4169.	2.8	10
125	The interaction of Cl(2P3/2) and Cl(2P1/2) with nâ€Si(100): Spontaneous etching. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 217-222.	2.1	9
126	Corrigendum to "Evaluated kinetic and photochemical data for atmospheric chemistry: Volume V â€“ heterogeneous reactions on solid substrates" published in Atmos. Chem. Phys. 10, 9059â€“9223, 2010. Atmospheric Chemistry and Physics, 2013, 13, 7359-7359.	4.9	9

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127	The Reinvestigation of the Kinetics of the Metathesis Reactions t-C₄H₉^{â€¢} + HBr (HI) â†' i-C₄H₁₀ + Br^{â€¢} (I^{â€¢}) and of the t-C₄H₉^{â€¢} Free Radical Thermochemistry. Journal of Physical Chemistry A, 2014, 118, 5135-5148.	2.5	9
128	Pulsed field desorption mass spectrometry: A technique for investigating field desorption ion formation mechanisms. International Journal of Mass Spectrometry and Ion Physics, 1983, 49, 319-335.	1.3	8
129	The heterogeneous interaction of Br(2P3/2) and Br(2P1/2) with surfaces of Teflonâ„¢ and polycrystalline nickel. International Journal of Chemical Kinetics, 1995, 27, 403-418.	1.6	8
130	The metastable HCl Â· 6H₂O phase â€“ IR spectroscopy, phase transitions and kinetic/thermodynamic properties in the range 170â€“205 K. Atmospheric Chemistry and Physics, 2013, 13, 11905-11923.	4.9	8
131	The midâ€IR Absorption Cross Sections of Î±â€•and Î²â€NAT (HNO₃â€‰Â·â€‰3H₂O) in the range 170 to 185â€‰K and of metastable NAD (HNO₃â€‰Â·â€‰2H₂O) in the range 172 to 182â€‰K. Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,707.	3.8	8
132	Chemical characterization of diesel and hydrotreated vegetable oil (HVO) soot after reactive gas probing using diffuse reflectance FTIR spectroscopy (DRIFTS). Environmental Science and Pollution Research, 2017, 24, 7534-7543.	5.3	8
133	Laser-induced chemical kinetics: Absolute rate constants for the reactions ?2F2 + Br2 ? C2F5Br + ??r andn-?3F7 + Br2 ?n-C3F7Br + ??r. International Journal of Chemical Kinetics, 1982, 14, 499-506.	1.6	7
134	H₂O and HCl trace gas kinetics on crystalline HCl hydrates and amorphous HCl / H₂O in the range 170 to 205 K: the HCl / H₂O phase diagram revisited. Atmospheric Chemistry and Physics, 2014, 14, 5183-5204.	4.9	7
135	Heterogeneous interaction of Br2, Cl2 and Cl2O with solid KBr and NaCl substrates: The role of adsorbed H2O and halogens. Physical Chemistry Chemical Physics, 2004, 6, 3447.	2.8	6
136	The heterogeneous interaction of HOCl with solid KBr substrates: The catalytic role of adsorbed halogens. Physical Chemistry Chemical Physics, 2005, 7, 2599.	2.8	6
137	The Measurement of the Rate Parameters for the Reactions i-C3 H7â€¢ and n -C3 H7â€¢ + HI â†' C3 H8 + Iâ€¢ over the Temperature Range 293-623 K: Implications for the Standard Heat of Formation of the Propyl Radicals. International Journal of Chemical Kinetics, 2014, 46, 305-320.	1.6	6
138	The Heterogeneous Reaction of NO2 with NH4Cl: A Molecular Diffusion Tube Study. Journal of Atmospheric Chemistry, 2005, 50, 171-194.	3.2	5
139	The Kinetics of the Reaction C₂H₅^{â€¢}â€¯+â€¯HIâ€¯â†'â€¯C₂H₆â€¯+â€¯I^{â€¢} over an Extended Temperature Range (213â€“623â€¯K): Experiment and Modeling. Zeitschrift Fur Physikalische Chemie, 2015, 229, 1475-1501.	2.8	5
140	UV photon-assisted incineration of polycyclic aromatic hydrocarbons at elevated temperatures between 150 and 800 Â°C. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 109, 267-280.	3.9	4
141	High density chemiluminescence studies: explosive decomposition of solid phase tetramethyldioxetane. Journal of Photochemistry and Photobiology A: Chemistry, 1988, 42, 73-85.	3.9	3
142	Summary Abstract: Spontaneous thermal etching of silicon by CF3 radicals. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 1407-1408.	2.1	3
143	Enhanced Thermal Destruction of Anthracene Vapor upon Laser Irradiation at 248 nm in the 150â^'800 Â°C Range. Environmental Science & Technology, 1996, 30, 1789-1793.	10.0	3
144	Heterogeneous kinetics of H₂O, HNO₃ and HCl on HNO₃ hydrates (<i>Î±</i>-NAT, <i>Î²</i>-NAT, NAD) in the range 175â€“200â€¯K. Atmospheric Chemistry and Physics, 2016, 16, 11937-11960.	4.9	3

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