

Nicholas S Shuman

List of Publications by Year in descending order

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papers

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117
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117
docs citations

117
times ranked

1418
citing authors

#	ARTICLE	IF	CITATIONS
1	Bond-Selective Control of a Heterogeneously Catalyzed Reaction. <i>Science</i> , 2008, 319, 790-793.	12.6	201
2	Ambient and Modified Atmospheric Ion Chemistry: From Top to Bottom. <i>Chemical Reviews</i> , 2015, 115, 4542-4570.	47.7	107
3	Specific Rate Constants $k(E)$ of the Dissociation of the Halobenzene Ions: Analysis by Statistical Unimolecular Rate Theories. <i>Journal of Physical Chemistry A</i> , 2009, 113, 573-582.	2.5	78
4	On the ionization and dissociative photoionization of iodomethane: a definitive experimental enthalpy of formation of CH ₃ I. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11013.	2.8	71
5	Surface Temperature Dependence of Methane Activation on Ni(111). <i>Journal of Physical Chemistry C</i> , 2009, 113, 20618-20622.	3.1	54
6	Activation of Methane by FeO ⁺ : Determining Reaction Pathways through Temperature-Dependent Kinetics and Statistical Modeling. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2029-2039.	2.5	46
7	Teaching an Old Dog New Tricks: Using the Flowing Afterglow to Measure Kinetics of Electron Attachment to Radicals, Ion-Ion Mutual Neutralization, and Electron Catalyzed Mutual Neutralization. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2012, 61, 209-294.	2.3	45
8	Evaluation of the exothermicity of the chemi-ionization reaction $\text{Sm} + \text{O} \hat{\rightarrow} \text{SmO}^+ + \text{e}^-$. <i>Journal of Chemical Physics</i> , 2015, 142, 134307.	3.0	44
9	Temperature Dependence of the OH ⁺ + CH ₃ I Reaction Kinetics. Experimental and Simulation Studies and Atomic-Level Dynamics. <i>Journal of Physical Chemistry A</i> , 2013, 117, 14019-14027.	2.5	40
10	Further Insight into the Reaction FeO ⁺ + H ₂ $\hat{\rightarrow}$ Fe ⁺ + H ₂ O: Temperature Dependent Kinetics, Isotope Effects, and Statistical Modeling. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6789-6797.	2.5	38
11	Pressure and temperature dependence of dissociative and non-dissociative electron attachment to CF ₃ : Experiments and kinetic modeling. <i>Journal of Chemical Physics</i> , 2011, 135, 054306.	3.0	32
12	Behavior of rate coefficients for ion-ion mutual neutralization, 300-550 K. <i>Journal of Chemical Physics</i> , 2012, 136, 204306.	3.0	28
13	Spin-inversion and spin-selection in the reactions FeO ⁺ + H ₂ and Fe ⁺ + N ₂ O. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19709-19717.	2.8	28
14	Aluminum Cluster Anion Reactivity with Singlet Oxygen: Evidence of Al ₉ ⁻ Stability. <i>Journal of Physical Chemistry C</i> , 2011, 115, 9903-9908.	3.1	27
15	A physics-based model for the ionization of samarium by the MOSC chemical releases in the upper atmosphere. <i>Radio Science</i> , 2017, 52, 559-577.	1.6	27
16	Iron cation catalyzed reduction of N ₂ O by CO: gas-phase temperature dependent kinetics. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11257.	2.8	26
17	Kinetics of chemi-ionization reactions of lanthanide metals (Nd, Sm) from 150 to 450 K. <i>Journal of Chemical Physics</i> , 2015, 143, 204303.	3.0	25
18	Statistical modeling of the reactions Fe ⁺ + N ₂ O $\hat{\rightarrow}$ FeO ⁺ + N ₂ and FeO ⁺ + CO $\hat{\rightarrow}$ Fe ⁺ + CO ₂ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19700-19708.	2.8	24

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19	Artificial ionospheric modification: The Metal Oxide Space Cloud experiment. <i>Radio Science</i> , 2017, 52, 539-558.	1.6	23
20	Experimental Thermochemistry of SiCl ₃ R (R = Cl, H, CH ₃ , C ₂ H ₅ , C ₂ H ₃ , CH ₂ Cl, SiCl ₃), SiCl ₃ ⁺ , and SiCl ₃ ⁺ . <i>Journal of Physical Chemistry A</i> , 2009, 113, 9458-9466.	2.5	22
21	Kinetics following addition of sulfur fluorides to a weakly ionized plasma from 300 to 500 K: Rate constants and product determinations for ion-ion mutual neutralization and thermal electron attachment to SF ₅ , SF ₃ , and SF ₂ . <i>Journal of Chemical Physics</i> , 2010, 133, 234304.	3.0	22
22	On the Temperature Dependence of the Thermal Electron Attachment to SF ₆ , SF ₅ Cl, and POCl ₃ . <i>Zeitschrift Fur Physikalische Chemie</i> , 2011, 225, 1405-1416.	2.8	22
23	Electron attachment to POCl ₃ . III. Measurement and kinetic modeling of branching fractions. <i>Journal of Chemical Physics</i> , 2011, 134, 094310.	3.0	22
24	A novel technique for measurement of thermal rate constants and temperature dependences of dissociative recombination: CO ₂ ⁺ , CF ₃ ⁺ , N ₂ O ⁺ , C ₇ H ₈ ⁺ , C ₇ H ₇ ⁺ , C ₆ H ₆ ⁺ , C ₆ H ₅ ⁺ , C ₅ H ₆ ⁺ , C ₄ H ₄ ⁺ , and C ₃ H ₃ ⁺ . <i>Journal of Chemical Physics</i> , 2013, 138, 154201.	3.0	22
25	Kinetics of ion-ion mutual neutralization: Halide anions with polyatomic cations. <i>Journal of Chemical Physics</i> , 2014, 140, 224309.	3.0	22
26	Reaction of Mass-Selected, Thermalized V _n O _m ⁺ Clusters with CCl ₄ . <i>Journal of Physical Chemistry A</i> , 2019, 123, 4817-4824.	2.5	22
27	Heats of Formation of HCCl ₃ , HCCl ₂ Br, HCClBr ₂ , HCCl ₃ , and Their Fragment Ions Studied by Threshold Photoelectron Photoion Coincidence. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10533-10538.	2.5	21
28	Variable Electron and Neutral Density Attachment Mass Spectrometry: Temperature-Dependent Kinetics of Electron Attachment to PSCl ₃ and PSCl ₂ and Mutual Neutralization of PSCl ₂ ⁺ and PSCl ₃ ⁺ with Ar ⁺ . <i>Journal of Physical Chemistry A</i> , 2010, 114, 11100-11108.	2.5	21
29	Dissociative Photoionization Study of Neopentane: A Path to an Accurate Heat of Formation of the <i>t</i> -Butyl Ion, <i>t</i> -Butyl Iodide, and <i>t</i> -Butyl Hydroperoxide. <i>Journal of Physical Chemistry A</i> , 2010, 114, 804-810.	2.5	20
30	Tunneling in a Simple Bond Scission: The Surprising Barrier in the H Loss from HCOOH ⁺ . <i>Journal of Physical Chemistry A</i> , 2010, 114, 10016-10023.	2.5	20
31	Exploring the Reactions of Fe ⁺ and FeO ⁺ with NO and NO ₂ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 11500-11508.	2.5	20
32	TPEPICO Spectroscopy of Vinyl Chloride and Vinyl Iodide: Neutral and Ionic Heats of Formation and Bond Energies. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5647-5652.	2.5	19
33	Discrepancy Between Experimental and Theoretical Predictions of the Adiabaticity of Ti ⁺ CH ₃ OH. <i>Chemistry - A European Journal</i> , 2017, 23, 11780-11783.	3.3	19
34	Old School Techniques with Modern Capabilities: Kinetics Determination of Dynamical Information Such as Barriers, Multiple Entrance Channel Complexes, Product States, Spin Crossings, and Size Effects in Metallic Ion-Molecule Reactions. <i>Journal of Physical Chemistry A</i> , 2021, 125, 3503-3527.	2.5	19
35	Heats of Formation of <i>t</i> -Butyl Peroxy Radical and <i>t</i> -Butyl Diazyl Ion: RRKM vs SSACM Rate Theories in Systems with Kinetic and Competitive Shifts. <i>Journal of Physical Chemistry A</i> , 2010, 114, 232-240.	2.5	18
36	The Importance of NO ⁺ (H ₂ O) ₄ in the Conversion of NO ⁺ (H ₂ O) ₂ to H ₃ O ⁺ (H ₂ O) ₂ : I. Kinetics Measurements and Statistical Rate Modeling. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7582-7590.	2.5	18

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37	Mutual neutralization of atomic rare-gas cations (Ne ⁺ , Ar ⁺ , Kr ⁺ , Xe ⁺) with atomic halide anions (Cl ⁻ , Br ⁻ , I ⁻). <i>Journal of Chemical Physics</i> , 2009, 130, 124301.	3.0	18
38	Photochemical determination of O densities in the Martian thermosphere: Effect of a revised rate coefficient. <i>Geophysical Research Letters</i> , 2017, 44, 8099-8106.	4.0	18
39	Experimental and modeling study of thermal rate coefficients and cross sections for electron attachment to C ₆₀ . <i>Journal of Chemical Physics</i> , 2010, 132, 194307.	3.0	17
40	Kinetics of electron attachment to OH and HNO ₃ and mutual neutralization of Ar ⁺ with NO ₂ ⁻ and NO ₃ ⁻ at 300 and 500 K. <i>Journal of Chemical Physics</i> , 2012, 136, 124307.	3.0	17
41	Dissociative electron attachment to C ₂ F ₅ radicals. <i>Journal of Chemical Physics</i> , 2012, 137, 054310.	3.0	17
42	Temperature dependences for the reactions of O ₂ ⁻ and O ⁻ with N and O atoms in a selected-ion flow tube instrument. <i>Journal of Chemical Physics</i> , 2013, 139, 144302.	3.0	17
43	Electron attachment to POCl ₃ . II. Dependence of the attachment rate coefficients on gas and electron temperature. <i>International Journal of Mass Spectrometry</i> , 2011, 306, 123-128.	1.5	16
44	Experimental and Theoretical Kinetics for the H ₂ O ⁺ + H ₂ /D ₂ → H ₃ O ⁺ /H ₂ DO ⁺ + H/D Reactions: Observation of the Rotational Effect in the Temperature Dependence. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11485-11489.	2.5	16
45	Electron attachment to 14 halogenated alkenes and alkanes, 300-600 K. <i>Journal of Chemical Physics</i> , 2012, 137, 164306.	3.0	15
46	One- and Two-Dimensional Translational Energy Distributions in the Iodine-Loss Dissociation of 1,2-C ₂ H ₄ I ₂ ⁺ and 1,3-C ₃ H ₆ I ₂ ⁺ : What Does This Mean?. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2833-2844.	2.5	15
47	Determination of the SmO ⁺ bond energy by threshold photodissociation of the cryogenically cooled ion. <i>Journal of Chemical Physics</i> , 2021, 155, 174303.	3.0	15
48	Electron Attachment to Fe(CO) ₅ (ν ₅ = 0 ⁻ 5). <i>Journal of Physical Chemistry A</i> , 2013, 117, 1102-1109.	2.5	14
49	Heat of Formation of the Allyl Ion by TPEPICO Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10710-10716.	2.5	13
50	Electron attachment to CF ₃ and CF ₃ Br at temperatures up to 890 K: Experimental test of the kinetic modeling approach. <i>Journal of Chemical Physics</i> , 2013, 138, 204316.	3.0	13
51	Kinetics of CO ⁺ and CO ₂ ⁺ with N and O atoms. <i>Journal of Chemical Physics</i> , 2018, 148, 084305.	3.0	13
52	Au ₂ ⁺ cannot catalyze conversion of methane to ethene at low temperature. <i>Catalysis Science and Technology</i> , 2019, 9, 2767-2780.	4.1	13
53	Kinetics of electron attachment to SF ₃ CN, SF ₃ C ₆ F ₅ , and SF ₃ and mutual neutralization of Ar ⁺ with CN ⁻ and C ₆ F ₅ ⁻ . <i>Journal of Chemical Physics</i> , 2011, 134, 044323.	3.0	12
54	Analysis by kinetic modeling of the temperature dependence of thermal electron attachment to CF ₃ Br. <i>Journal of Chemical Physics</i> , 2012, 137, 024303.	3.0	12

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55	Temperature-dependent kinetic measurements and quasi-classical trajectory studies for the OH+ + H ₂ /D ₂ → H ₂ O+/HDO+ + H/D reactions. <i>Journal of Chemical Physics</i> , 2015, 143, 114310.	3.0	12
56	Electronic structure of SmO and SmO ⁺ via slow photoelectron velocity-map imaging spectroscopy and spin-orbit CASPT2 calculations. <i>Journal of Chemical Physics</i> , 2017, 147, 234311.	3.0	12
57	Lanthanides as Catalysts: Guided Ion Beam and Theoretical Studies of Sm ⁺ + COS. <i>Journal of Physical Chemistry A</i> , 2018, 122, 737-749.	2.5	12
58	Temperature and Isotope Dependent Kinetics of Nickel-Catalyzed Oxidation of Methane by Ozone. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6655-6662.	2.5	12
59	Thermal activation of methane by MgO ⁺ : temperature dependent kinetics, reactive molecular dynamics simulations and statistical modeling. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8913-8923.	2.8	12
60	Isotope-Selective Chemical Vapor Deposition via Vibrational Activation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9822-9827.	3.1	11
61	Incorporating time-of-flight detection on a selected ion flow tube apparatus. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 479-483.	1.5	11
62	Chemi-ionization reactions of La, Pr, Tb, and Ho with atomic O and La with N ₂ O from 200 to 450 K. <i>Journal of Chemical Physics</i> , 2016, 145, 084302.	3.0	11
63	Redefining the Mechanism of O ₂ Etching of Al ₍₁₁₁₎ Superatoms: An Early Barrier Controls Reactivity, Analogous to Surface Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 217-220.	4.6	11
64	Methane Adducts of Gold Dimer Cations: Thermochemistry and Structure from Collision-Induced Dissociation and Association Kinetics. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3335-3346.	2.5	11
65	Dissociation dynamics of energy-selected acetic acid ions: The gas phase heat of formation of the acetyl ion. <i>International Journal of Mass Spectrometry</i> , 2010, 294, 88-92.	1.5	10
66	Electron attachment to fluorocarbon radicals. <i>Journal of Chemical Physics</i> , 2012, 137, 214318.	3.0	10
67	Determining Rate Constants and Mechanisms for Sequential Reactions of Fe ⁺ with Ozone at 500 K. <i>Journal of Physical Chemistry A</i> , 2017, 121, 24-30.	2.5	10
68	Thermal Kinetics of Al ₍₁₁₁₎ + O ₂ (i _n = 2): Measurable Reactivity of Al ₁₃ ⁺ . <i>Journal of Physical Chemistry A</i> , 2019, 123, 6123-6129.	2.5	10
69	Selected-ion flow tube temperature-dependent measurements for the reactions of O ₂ ⁺ with N atoms and N ₂ ⁺ with O atoms. <i>Journal of Chemical Physics</i> , 2015, 142, 154305.	3.0	9
70	Dissociative recombination of HCl ⁺ , H ₂ Cl ⁺ , DCl ⁺ , and D ₂ Cl ⁺ in a flowing afterglow. <i>Journal of Chemical Physics</i> , 2016, 145, 244312.	3.0	9
71	The Role of Non- reactive Binding Sites in the AlVO ₄ + CO/AlVO ₃ + N ₂ O Catalytic Cycle. <i>ChemPhysChem</i> , 2018, 19, 2835-2838.	2.1	9
72	Quantifying the Competition between Intersystem Crossing and Spin-Conserved Pathways in the Thermal Reaction of V ⁺ + N ₂ O. <i>Journal of Physical Chemistry A</i> , 2020, 124, 30-38.	2.5	9

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73	Electron Attachment to C_7F_{14} , Thermal Detachment from $C_7F_{14}^{\bullet-}$, the Electron Affinity of C_7F_{14} , and Neutralization of $C_7F_{14}^{\bullet-}$ by Ar^+ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 10293-10300.	2.5	8
74	Reactions of Fe^+ and FeO^+ with C_2H_2 , C_2H_4 , and C_2H_6 : Temperature-Dependent Kinetics. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10178-10185.	2.5	8
75	Flowing afterglow measurements of the density dependence of gas-phase ion-ion mutual neutralization reactions. <i>Journal of Chemical Physics</i> , 2013, 138, 204302.	3.0	8
76	Electron attachment to the interhalogen compounds ClF, ICl, and IBr. <i>Physical Review A</i> , 2016, 93, .	2.5	8
77	Cyclotrimerization of Acetylene under Thermal Conditions: Gas-Phase Kinetics of V^+ and $Fe^+ + C_2H_2$. <i>Journal of Physical Chemistry A</i> , 2021, 125, 9327-9337.	2.5	8
78	Evidence of a Surprising Channeling of Ring-Opening Energy to the H_2 Product in the $H + c-C_3H_6^{\dagger} H_2 + C_3H_5$ Abstraction Reaction. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8380-8382.	2.5	7
79	Electron attachment to sulfur oxyhalides: SOF_2 , $SOCl_2$, SO_2F_2 , SO_2Cl_2 , and SO_2FCl attachment rate coefficients, 300–900 K. <i>Journal of Chemical Physics</i> , 2010, 132, 214302.	3.0	7
80	Dissociation Dynamics and Thermochemistry of Tin Species, $(CH_3)_4Sn$ and $(CH_3)_6Sn_2$, by Threshold Photoelectron Photoion Coincidence Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 402-409.	2.5	7
81	Kinetics and Product Branching Fractions of Reactions between a Cation and a Radical: $Ar^+ + CH_3$ and $O_2^+ + CH_3$. <i>Journal of Physical Chemistry A</i> , 2015, 119, 952-958.	2.5	7
82	Dissociative recombination and mutual neutralization of heavier molecular ions: $C_{10}H_8^+$, WF_5^+ , and $CnFm^+$. <i>Journal of Chemical Physics</i> , 2015, 142, 114304.	3.0	7
83	Reactivity from excited state $4FeO^+ + CO$ sampled through reaction of ground state $4FeCO^+ + N_2O$. <i>Journal of Chemical Physics</i> , 2016, 144, 234303.	3.0	7
84	Mutual neutralization of He^+ with the anions $Cl^{\bullet-}$, $Br^{\bullet-}$, $I^{\bullet-}$, and $SF_6^{\bullet-}$. <i>Journal of Chemical Physics</i> , 2016, 144, 204309.	3.0	7
85	Analysis of the Pressure and Temperature Dependence of the Complex-Forming Bimolecular Reaction $CH_3OCH_3 + Fe^+$. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5264-5273.	2.5	7
86	Temperature and Pressure Dependences of the Reactions of Fe^+ with Methyl Halides CH_3X ($X = Cl, Br, I$): Experiments and Kinetic Modeling Results. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4058-4068.	2.5	7
87	Surprising behaviors in the temperature dependent kinetics of diatomic interhalogens with anions and cations. <i>Journal of Chemical Physics</i> , 2017, 146, 214307.	3.0	7
88	Association Between Meteor Radio Afterglows and Optical Persistent Trains. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028053.	2.4	7
89	Coupling an electrospray source and a solids probe/chemical ionization source to a selected ion flow tube apparatus. <i>Review of Scientific Instruments</i> , 2015, 86, 084101.	1.3	6
90	Kinetics of First-Row Transition Metal Cations (V^+ , Fe^+ , Co^+) with OCS at Thermal Energies. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4246-4251.	2.5	5

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91	Mutual neutralization of H ⁺ and D ⁺ with the atomic halide anions Cl ⁻ , Br ⁻ , and I ⁻ . <i>Journal of Chemical Physics</i> , 2018, 149, 044303.	3.0	5
92	Mechanistic details of the MnO ⁺ + H ₂ /D ₂ reaction through temperature-dependent kinetics and statistical modeling. <i>International Journal of Mass Spectrometry</i> , 2019, 435, 26-33.	1.5	5
93	Structures and Electron Affinities of Aluminum Hydride Clusters Al _n H (n = 1-10). <i>Journal of Chemical Physics</i> , 2018, 149, 044303.	2.5	5
94	Reactivity of Fe ⁺ (CO) _n + O ₂ : oxidation of CO by O ₂ at an isolated metal atom. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 8768-8777.	2.8	4
95	On the Role of Hydrogen Atom Transfer (HAT) in Thermal Activation of Methane by MnO ⁺ : Entropy vs. Energy. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019, 233, 771-783.	2.8	4
96	Role of Spin in the Catalytic Oxidation of CO by N ₂ O Enabled by Co ⁺ : New Insights from Temperature-Dependent Kinetics and Statistical Modeling. <i>Journal of Physical Chemistry A</i> , 2020, 124, 7966-7972.	2.5	4
97	Gas-Phase Anionic Metal Clusters are Model Systems for Surface Oxidation: Kinetics of the Reactions of M _n ⁻ with O ₂ (M = V, Cr, Co, Ni; n = 1-15). <i>Journal of Physical Chemistry A</i> , 2021, 125, 2069-2076.	2.5	4
98	Electronic structure of NdO via slow photoelectron velocity-map imaging spectroscopy of NdO ⁻ . <i>Journal of Chemical Physics</i> , 2021, 155, 114305.	3.0	4
99	Effect of Intersystem Crossings on the Kinetics of Thermal Ion-Molecule Reactions: Ti ⁺ + O ₂ , CO ₂ , and N ₂ O. <i>Journal of Physical Chemistry A</i> , 2022, 126, 859-869.	2.5	4
100	Communication: Transfer ionization in a thermal reaction of a cation and anion: Ar ⁺ with Br ⁻ and I ⁻ . <i>Journal of Chemical Physics</i> , 2013, 139, 171102.	3.0	3
101	Time-of-flight detection coupled to a flowing afterglow: Improvements and characterization. <i>International Journal of Mass Spectrometry</i> , 2016, 403, 27-31.	1.5	3
102	Calculations of the active mode and energetic barrier to electron attachment to CF ₃ and comparison with kinetic modeling of experimental results. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31064-31071.	2.8	3
103	Barrierless methane-to-methanol conversion: the unique mechanism of AlO ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14544-14550.	2.8	3
104	Catalytic Oxidation of CO by N ₂ O Enabled by Al ₂ O ₃ ⁺ : Temperature Dependent Kinetics and Statistical Modeling. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1705-1711.	2.5	3
105	Temperature and energy dependences of ion-molecule reactions: Studies inspired by Diethard Böhme. <i>Mass Spectrometry Reviews</i> , 2021, , .	5.4	3
106	Gas-Phase Reactivity of Ozone with Lanthanide Ions (Sm ⁺ , Nd ⁺) and Their Higher Oxides. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, , .	2.8	3
107	Electron attachment and positive ion chemistry of monohydrogenated fluorocarbon radicals. <i>Journal of Chemical Physics</i> , 2015, 143, 074309.	3.0	2
108	Demonstration of the branching ratio inversion for the electron attachment to phosphoryl chloride POCl ₃ in the gas phase between 300 and 200 K. <i>Chemical Physics Letters</i> , 2016, 650, 144-147.	2.6	2

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109	Kinetics of Cations with C2 Hydrofluorocarbon Radicals. Journal of Physical Chemistry A, 2017, 121, 8061-8068.	2.5	2
110	Reactions of C+ + Cl [•] , Br [•] , and I [•] —A comparison of theory and experiment. Journal of Chemical Physics, 2019, 151, 244301.	3.0	2
111	Toward a quantitative analysis of the temperature dependence of electron attachment to SF6. Journal of Chemical Physics, 2020, 152, 124302.	3.0	2
112	Collisional stabilization of ion-molecule association complexes in He, H2, or N2 buffer gases. International Journal of Mass Spectrometry, 2021, 460, 116494.	1.5	2
113	Inconsistent kinetic isotope effect in ammonia charge exchange reaction measured in a Coulomb crystal and in a selected-ion flow tube. Nature Communications, 2022, 13, .	12.8	2
114	Thermal rate constants for electron attachment to N2O: An example of endothermic attachment. Journal of Chemical Physics, 2020, 153, 074306.	3.0	1
115	Contrast between the mechanisms for dissociative electron attachment to CH3SCN and CH3NCS. Journal of Chemical Physics, 2018, 148, 184303.	3.0	0
116	Measurement of rate constants for ion-ion reactions O+ and N+ with the atomic halide anions Cl [•] , Br [•] , and I [•] at thermal energies. Chemical Physics Letters, 2020, 760, 137973.	2.6	0
117	An experimental and statistical modeling study of the reactivity of Co+(CH3Br) _n (n= 0,1) with methyl bromide. International Journal of Mass Spectrometry, 2021, 469, 116671.	1.5	0