

Nicholas S Shuman

List of Publications by Year in descending order

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117
papers

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1418
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#	ARTICLE	IF	CITATIONS
1	Effect of Intersystem Crossings on the Kinetics of Thermal Ion-Molecule Reactions: $Ti^{+} + O_2$, CO_2 , and N_2O . <i>Journal of Physical Chemistry A</i> , 2022, 126, 859-869.	2.5	4
2	Structures and Electron Affinities of Aluminum Hydride Clusters Al_nH ($n = 2-10$). <i>Journal of Physical Chemistry A</i> , 2021, 125, 11649-11659.	2.9	5
3	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
4	Inconsistent kinetic isotope effect in ammonia charge exchange reaction measured in a Coulomb crystal and in a selected-ion flow tube. <i>Nature Communications</i> , 2022, 13, .	12.8	2
5	Collisional stabilization of ion-molecule association complexes in He, H ₂ , or N ₂ buffer gases. <i>International Journal of Mass Spectrometry</i> , 2021, 460, 116494.	1.5	2
6	Gas-Phase Anionic Metal Clusters are Model Systems for Surface Oxidation: Kinetics of the Reactions of $M^{-} + O_2$ ($M = V, Cr, Co, Ni$; $n = 1-15$). <i>Journal of Physical Chemistry A</i> , 2021, 125, 2069-2076.	2.5	4
7	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
8	Temperature and energy dependences of ion-molecule reactions: Studies inspired by Diethard Böhme. <i>Mass Spectrometry Reviews</i> , 2021, .	5.4	3
9	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
10	An experimental and statistical modeling study of the reactivity of $Co^{+}(CH_3Br)_n$ ($n = 0, 1$) with methyl bromide. <i>International Journal of Mass Spectrometry</i> , 2021, 469, 116671.	1.5	0
11	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
12	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
13	Redefining the Mechanism of O_2 Etching of Al_n^{+} Superatoms: An Early Barrier Controls Reactivity, Analogous to Surface Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 217-220.	4.6	11
14	Quantifying the Competition between Intersystem Crossing and Spin-Conserved Pathways in the Thermal Reaction of $V^{+} + N_2O$. <i>Journal of Physical Chemistry A</i> , 2020, 124, 30-38.	2.5	9
15	Thermal rate constants for electron attachment to N ₂ O: An example of endothermic attachment. <i>Journal of Chemical Physics</i> , 2020, 153, 074306.	3.0	1
16	Measurement of rate constants for ion-ion reactions O^{+} and N^{+} with the atomic halide anions Cl^{-} , Br^{-} , and I^{-} at thermal energies. <i>Chemical Physics Letters</i> , 2020, 760, 137973.	2.6	0
17	Association Between Meteor Radio Afterglows and Optical Persistent Trains. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028053.	2.4	7
18	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

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19	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
20	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
21	Toward a quantitative analysis of the temperature dependence of electron attachment to SF ₆ . <i>Journal of Chemical Physics</i> , 2020, 152, 124302.	3.0	2
22	Barrierless methane-to-methanol conversion: the unique mechanism of AlO ⁺ . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14544-14550.	2.8	3
23	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
24	Thermal Kinetics of Al _n ⁺ + O ₂ (<i>n</i> = 2-30): Measurable Reactivity of Al ₁₃ ⁺ . <i>Journal of Physical Chemistry A</i> , 2019, 123, 6123-6129.	2.5	10
25	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
26	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
27	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
28	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
29	Reactions of C ⁺ + Cl ⁺ , Br ⁺ , and I ⁺ : A comparison of theory and experiment. <i>Journal of Chemical Physics</i> , 2019, 151, 244301.	3.0	2
30	Kinetics of CO ⁺ and CO ₂ ⁺ with N and O atoms. <i>Journal of Chemical Physics</i> , 2018, 148, 084305.	3.0	13
31	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
32	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
33	Contrast between the mechanisms for dissociative electron attachment to CH ₃ SCN and CH ₃ NCS. <i>Journal of Chemical Physics</i> , 2018, 148, 184303.	3.0	0
34	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
35	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
36	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

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37	Temperature and Pressure Dependences of the Reactions of Fe ⁺ with Methyl Halides CH ₃ X (X = Cl, Br, I): Experiments and Kinetic Modeling Results. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4058-4068.	2.5	7
38	Artificial ionospheric modification: The Metal Oxide Space Cloud experiment. <i>Radio Science</i> , 2017, 52, 539-558.	1.6	23
39	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
40	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
41	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
42	Kinetics of Cations with C ₂ Hydrofluorocarbon Radicals. <i>Journal of Physical Chemistry A</i> , 2017, 121, 8061-8068.	2.5	2
43	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
44	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
45	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
46	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
47	Reactivity from excited state 4FeO ⁺ + CO sampled through reaction of ground state 4FeCO ⁺ + N ₂ O. <i>Journal of Chemical Physics</i> , 2016, 144, 234303.	3.0	7
48	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
49	Mutual neutralization of He ⁺ with the anions Cl ⁻ , Br ⁻ , I ⁻ , and SF ₆ ⁻ . <i>Journal of Chemical Physics</i> , 2016, 144, 204309.	3.0	7
50	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
51	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
52	Electron attachment to the interhalogen compounds ClF, ICl, and IBr. <i>Physical Review A</i> , 2016, 93, .	2.5	8
53	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
54	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

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55	Analysis of the Pressure and Temperature Dependence of the Complex-Forming Bimolecular Reaction $\text{CH}_3\text{OCH}_3 + \text{Fe}^+$. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5264-5273.	2.5	7
56	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
57	Temperature-dependent kinetic measurements and quasi-classical trajectory studies for the $\text{OH}^+ + \text{H}_2/\text{D}_2 \hat{\rightarrow} \text{H}_2\text{O}^+/\text{HDO}^+ + \text{H}/\text{D}$ reactions. <i>Journal of Chemical Physics</i> , 2015, 143, 114310.	3.0	12
58	Electron attachment and positive ion chemistry of monohydrogenated fluorocarbon radicals. <i>Journal of Chemical Physics</i> , 2015, 143, 074309.	3.0	2
59	Spin-inversion and spin-selection in the reactions $\text{FeO}^+ + \text{H}_2$ and $\text{Fe}^+ + \text{N}_2\text{O}$. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19709-19717.	2.8	28
60	Ambient and Modified Atmospheric Ion Chemistry: From Top to Bottom. <i>Chemical Reviews</i> , 2015, 115, 4542-4570.	47.7	107
61	Kinetics and Product Branching Fractions of Reactions between a Cation and a Radical: $\text{Ar}^+ + \text{CH}_3$ and $\text{O}_2^+ + \text{CH}_3$. <i>Journal of Physical Chemistry A</i> , 2015, 119, 952-958.	2.5	7
62	Statistical modeling of the reactions $\text{Fe}^+ + \text{N}_2\text{O} \hat{\rightarrow} \text{FeO}^+ + \text{N}_2$ and $\text{FeO}^+ + \text{CO} \hat{\rightarrow} \text{Fe}^+ + \text{CO}_2$. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19700-19708.	2.8	24
63	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
64	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
65	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
66	Dissociative recombination and mutual neutralization of heavier molecular ions: $\text{C}_{10}\text{H}_8^+$, WF_5^+ , and CnFm^+ . <i>Journal of Chemical Physics</i> , 2015, 142, 114304.	3.0	7
67	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
68	Mutual neutralization of atomic rare-gas cations (Ne^+ , Ar^+ , Kr^+ , Xe^+) with atomic halide anions (Cl^-), <i>Tj ETQq0 0 Q rgBT /Overlock 10 T</i>	3.0	18
69	Further Insight into the Reaction $\text{FeO}^+ + \text{H}_2 \hat{\rightarrow} \text{Fe}^+ + \text{H}_2\text{O}$: Temperature Dependent Kinetics, Isotope Effects, and Statistical Modeling. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6789-6797.	2.5	38
70	Experimental and Theoretical Kinetics for the $\text{H}_2\text{O}^+ + \text{H}_2/\text{D}_2 \hat{\rightarrow} \text{H}_3\text{O}^+/\text{H}_2\text{DO}^+ + \text{H}/\text{D}$ Reactions: Observation of the Rotational Effect in the Temperature Dependence. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11485-11489.	2.5	16
71	Kinetics of ion-ion mutual neutralization: Halide anions with polyatomic cations. <i>Journal of Chemical Physics</i> , 2014, 140, 224309.	3.0	22
72	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

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73	Reactions of Fe ⁺ and FeO ⁺ with C ₂ H ₂ , C ₂ H ₄ , and C ₂ H ₆ : Temperature-Dependent Kinetics. Journal of Physical Chemistry A, 2013, 117, 10178-10185.	2.5	8
74	Electron Attachment to Fe(CO) _n (<i>n</i> = 0–5). Journal of Physical Chemistry A, 2013, 117, 1102-1109.	2.5	14
75	Iron cation catalyzed reduction of N ₂ O by CO: gas-phase temperature dependent kinetics. Physical Chemistry Chemical Physics, 2013, 15, 11257.	2.8	26
76	Temperature Dependence of the OH ⁺ + CH ₃ I Reaction Kinetics. Experimental and Simulation Studies and Atomic-Level Dynamics. Journal of Physical Chemistry A, 2013, 117, 14019-14027.	2.5	40
77	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 ⁺ . Journal of Chemical Physics, 2013, 138, 154201.	3.0	22
78	Electron attachment to CF ₃ and CF ₃ Br at temperatures up to 890 K: Experimental test of the kinetic modeling approach. Journal of Chemical Physics, 2013, 138, 204316.	3.0	13
79	Flowing afterglow measurements of the density dependence of gas-phase ion-ion mutual neutralization reactions. Journal of Chemical Physics, 2013, 138, 204302.	3.0	8
80	Temperature dependences for the reactions of O ₂ ⁺ and O ⁺ with N and O atoms in a selected-ion flow tube instrument. Journal of Chemical Physics, 2013, 139, 144302.	3.0	17
81	Communication: Transfer ionization in a thermal reaction of a cation and anion: Ar ⁺ with Br ⁺ and I ⁺ . Journal of Chemical Physics, 2013, 139, 171102.	3.0	3
82	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. Journal of Chemical Physics, 2012, 136, 124307.	3.0	17
83	Electron attachment to 14 halogenated alkenes and alkanes, 300-600 K. Journal of Chemical Physics, 2012, 137, 164306.	3.0	15
84	Behavior of rate coefficients for ion-ion mutual neutralization, 300–550 K. Journal of Chemical Physics, 2012, 136, 204306.	3.0	28
85	Dissociative electron attachment to C ₂ F ₅ radicals. Journal of Chemical Physics, 2012, 137, 054310.	3.0	17
86	Analysis by kinetic modeling of the temperature dependence of thermal electron attachment to CF ₃ Br. Journal of Chemical Physics, 2012, 137, 024303.	3.0	12
87	Exploring the Reactions of Fe ⁺ and FeO ⁺ with NO and NO ₂ . Journal of Physical Chemistry A, 2012, 116, 11500-11508.	2.5	20
88	Electron Attachment to C ₇ F ₁₄ , Thermal Detachment from C ₇ F ₁₄ ⁺ , the Electron Affinity of C ₇ F ₁₄ , and Neutralization of C ₇ F ₁₄ ⁺ by Ar ⁺ . Journal of Physical Chemistry A, 2012, 116, 10293-10300.	2.5	8
89	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?. Journal of Physical Chemistry A, 2012, 116, 2833-2844.	2.5	15
90	Electron attachment to fluorocarbon radicals. Journal of Chemical Physics, 2012, 137, 214318.	3.0	10

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91	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
92	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
93	The Importance of NO ⁺ (H ₂ O) ₄ in the Conversion of NO ⁺ (H ₂ O) _n to H ₃ O ⁺ (H ₂ O) _n : I. Kinetics Measurements and Statistical Rate Modeling. <i>Journal of Physical Chemistry A</i> , 2011, 115, 7582-7590.	2.5	18
94	Dissociation Dynamics and Thermochemistry of Tin Species, (CH ₃) ₄ Sn and (CH ₃) ₆ Sn ₂ , by Threshold Photoelectron-Photoion Coincidence Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011, 115, 402-409.	2.5	7
95	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
96	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
97	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
98	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
99	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
100	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
101	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
102	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
103	Electron attachment to sulfur oxyhalides: SOF ₂ , SOCl ₂ , SO ₂ F ₂ , SO ₂ Cl ₂ , and SO ₂ Cl attachment rate coefficients, 300-900 K. <i>Journal of Chemical Physics</i> , 2010, 132, 214302.	3.0	7
104	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
105	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 ⁺ with Ar ⁺ . <i>Journal of Physical Chemistry A</i> , 2010, 114, 11100-11108.	2.5	21
106	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
107	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
108	Surface Temperature Dependence of Methane Activation on Ni(111). <i>Journal of Physical Chemistry C</i> , 2009, 113, 20618-20622.	3.1	54

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109	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 ⁺ . Journal of Physical Chemistry A, 2009, 113, 9458-9466.	2.5	22
110	Heat of Formation of the Allyl Ion by TPEPICO Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 10710-10716.	2.5	13
111	Specific Rate Constants $k(E)$ of the Dissociation of the Halobenzene Ions: Analysis by Statistical Unimolecular Rate Theories. Journal of Physical Chemistry A, 2009, 113, 573-582.	2.5	78
112	On the ionization and dissociative photoionization of iodomethane: a definitive experimental enthalpy of formation of CH ₃ I. Physical Chemistry Chemical Physics, 2009, 11, 11013.	2.8	71
113	TPEPICO Spectroscopy of Vinyl Chloride and Vinyl Iodide: Neutral and Ionic Heats of Formation and Bond Energies. Journal of Physical Chemistry A, 2008, 112, 5647-5652.	2.5	19
114	Heats of Formation of HCCl ₃ , HCCl ₂ Br, HCClBr ₂ , HCClBr ₃ , and Their Fragment Ions Studied by Threshold Photoelectron Photoion Coincidence. Journal of Physical Chemistry A, 2008, 112, 10533-10538.	2.5	21
115	Isotope-Selective Chemical Vapor Deposition via Vibrational Activation. Journal of Physical Chemistry C, 2008, 112, 9822-9827.	3.1	11
116	Bond-Selective Control of a Heterogeneously Catalyzed Reaction. Science, 2008, 319, 790-793.	12.6	201
117	Evidence of a Surprising Channeling of Ring-Opening Energy to the H ₂ Product in the H + c-C ₃ H ₆ ⁺ H ₂ + C ₃ H ₅ Abstraction Reaction. Journal of Physical Chemistry A, 2003, 107, 8380-8382.	2.5	7