

# Thomas M Miller

## List of Publications by Year in descending order

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28  
papers

796  
citations

430874

18  
h-index

501196

28  
g-index

28  
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28  
docs citations

28  
times ranked

362  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal rate constants for electron attachment to N <sub>2</sub> O: An example of endothermic attachment. <i>Journal of Chemical Physics</i> , 2020, 153, 074306.	3.0	1
2	Toward a quantitative analysis of the temperature dependence of electron attachment to SF <sub>6</sub> . <i>Journal of Chemical Physics</i> , 2020, 152, 124302.	3.0	2
3	Reactions of C <sup>+</sup> + Cl <sup>-</sup> , Br <sup>-</sup> , and I <sup>-</sup> —A comparison of theory and experiment. <i>Journal of Chemical Physics</i> , 2019, 151, 244301.	3.0	2
4	Mutual neutralization of H <sup>+</sup> and D <sup>+</sup> with the atomic halide anions Cl <sup>-</sup> , Br <sup>-</sup> , and I <sup>-</sup> . <i>Journal of Chemical Physics</i> , 2018, 149, 044303.	3.0	5
5	Mutual neutralization of He <sup>+</sup> with the anions Cl <sup>-</sup> , Br <sup>-</sup> , I <sup>-</sup> , and SF <sub>6</sub> <sup>-</sup> . <i>Journal of Chemical Physics</i> , 2016, 144, 204309.	3.0	7
6	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
7	Mutual neutralization of atomic rare-gas cations (Ne <sup>+</sup> , Ar <sup>+</sup> , Kr <sup>+</sup> , Xe <sup>+</sup> ) with atomic halide anions (Cl <sup>-</sup> , Br <sup>-</sup> , I <sup>-</sup> ). <i>Journal of Chemical Physics</i> , 2015, 143, 074301.	3.0	18
8	Kinetics of ion-ion mutual neutralization: Halide anions with polyatomic cations. <i>Journal of Chemical Physics</i> , 2014, 140, 224309.	3.0	22
9	Electron attachment to CF <sub>3</sub> and CF <sub>3</sub> 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
10	Electron attachment to 14 halogenated alkenes and alkanes, 300-600 K. <i>Journal of Chemical Physics</i> , 2012, 137, 164306.	3.0	15
11	Communication: Revised electron affinity of SF <sub>6</sub> from kinetic data. <i>Journal of Chemical Physics</i> , 2012, 136, 121102.	3.0	22
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	Analysis by kinetic modeling of the temperature dependence of thermal electron attachment to CF <sub>3</sub> Br. <i>Journal of Chemical Physics</i> , 2012, 137, 024303.	3.0	12
14	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
15	On the Temperature Dependence of the Thermal Electron Attachment to SF <sub>6</sub> , SF <sub>5</sub> Cl, and POCl <sub>3</sub> . <i>Zeitschrift Fur Physikalische Chemie</i> , 2011, 225, 1405-1416.	2.8	22
16	Pressure and temperature dependence of dissociative and non-dissociative electron attachment to CF <sub>3</sub> : Experiments and kinetic modeling. <i>Journal of Chemical Physics</i> , 2011, 135, 054306.	3.0	32
17	Electron attachment to POCl <sub>3</sub> . III. Measurement and kinetic modeling of branching fractions. <i>Journal of Chemical Physics</i> , 2011, 134, 094310.	3.0	22
18	Electron attachment to POCl <sub>3</sub> . 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

#	ARTICLE	IF	CITATIONS
19	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 <sub>5</sub> , SF <sub>3</sub> , and SF <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2010, 133, 234304.	3.0	22
20	Variable Electron and Neutral Density Attachment Mass Spectrometry: Temperature-Dependent Kinetics of Electron Attachment to PSCl <sub>3</sub> and PSCl <sub>2</sub> and Mutual Neutralization of PSCl <sub>2</sub> <sup>+</sup> and PSCl <sup>+</sup> with Ar <sup>+</sup> . <i>Journal of Physical Chemistry A</i> , 2010, 114, 11100-11108.	2.5	21
21	A new instrument for thermal electron attachment at high temperature: NF <sub>3</sub> and CH <sub>3</sub> Cl attachment rate constants up to 1100 K. <i>Review of Scientific Instruments</i> , 2009, 80, 034104.	1.3	20
22	Low-energy electron attachment to SF <sub>6</sub> . I. Kinetic modeling of nondissociative attachment. <i>Journal of Chemical Physics</i> , 2007, 127, 244303.	3.0	53
23	Low-energy electron attachment to SF <sub>6</sub> . III. From thermal detachment to the electron affinity of SF <sub>6</sub> . <i>Journal of Chemical Physics</i> , 2007, 127, 244305.	3.0	43
24	Low-energy electron attachment to SF <sub>6</sub> . II. Temperature and pressure dependences of dissociative attachment. <i>Journal of Chemical Physics</i> , 2007, 127, 244304.	3.0	45
25	Flowing afterglow apparatus for the study of ion-molecule reactions at high temperatures. <i>Review of Scientific Instruments</i> , 1996, 67, 2142-2148.	1.3	48
26	Thermal electron attachment to SF <sub>4</sub> and SF <sub>6</sub> . <i>Journal of Chemical Physics</i> , 1994, 100, 8841-8848.	3.0	111
27	Electron affinities of the alkali halides and the structure of their negative ions. <i>Journal of Chemical Physics</i> , 1986, 85, 2368-2375.	3.0	82
28	Mutual neutralization of simple and clustered positive and negative ions. <i>Journal of Chemical Physics</i> , 1978, 68, 1224-1229.	3.0	64