

Thomas M Miller

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

796
citations

430874

18
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

362
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Thermal electron attachment to SF ₄ and SF ₆ . Journal of Chemical Physics, 1994, 100, 8841-8848. | 3.0 | 111 |
| 2 | Electron affinities of the alkali halides and the structure of their negative ions. Journal of Chemical Physics, 1986, 85, 2368-2375. | 3.0 | 82 |
| 3 | Mutual neutralization of simple and clustered positive and negative ions. Journal of Chemical Physics, 1978, 68, 1224-1229. | 3.0 | 64 |
| 4 | Low-energy electron attachment to SF ₆ . I. Kinetic modeling of nondissociative attachment. Journal of Chemical Physics, 2007, 127, 244303. | 3.0 | 53 |
| 5 | Flowing afterglow apparatus for the study of ion-molecule reactions at high temperatures. Review of Scientific Instruments, 1996, 67, 2142-2148. | 1.3 | 48 |
| 6 | Low-energy electron attachment to SF ₆ . II. Temperature and pressure dependences of dissociative attachment. Journal of Chemical Physics, 2007, 127, 244304. | 3.0 | 45 |
| 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. Advances in Atomic, Molecular and Optical Physics, 2012, 61, 209-294. | 2.3 | 45 |
| 8 | Low-energy electron attachment to SF ₆ . III. From thermal detachment to the electron affinity of SF ₆ . Journal of Chemical Physics, 2007, 127, 244305. | 3.0 | 43 |
| 9 | Pressure and temperature dependence of dissociative and non-dissociative electron attachment to CF ₃ : Experiments and kinetic modeling. Journal of Chemical Physics, 2011, 135, 054306. | 3.0 | 32 |
| 10 | Behavior of rate coefficients for ion-ion mutual neutralization, 300-550 K. Journal of Chemical Physics, 2012, 136, 204306. | 3.0 | 28 |
| 11 | 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 . Journal of Chemical Physics, 2010, 133, 234304. | 3.0 | 22 |
| 12 | On the Temperature Dependence of the Thermal Electron Attachment to SF ₆ , SF ₅ Cl, and POCl ₃ . Zeitschrift Fur Physikalische Chemie, 2011, 225, 1405-1416. | 2.8 | 22 |
| 13 | Electron attachment to POCl ₃ . III. Measurement and kinetic modeling of branching fractions. Journal of Chemical Physics, 2011, 134, 094310. | 3.0 | 22 |
| 14 | Communication: Revised electron affinity of SF ₆ from kinetic data. Journal of Chemical Physics, 2012, 136, 121102. | 3.0 | 22 |
| 15 | Kinetics of ion-ion mutual neutralization: Halide anions with polyatomic cations. Journal of Chemical Physics, 2014, 140, 224309. | 3.0 | 22 |
| 16 | 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 ⁺ . Journal of Physical Chemistry A, 2010, 114, 11100-11108. | 2.5 | 21 |
| 17 | A new instrument for thermal electron attachment at high temperature: NF ₃ and CH ₃ Cl attachment rate constants up to 1100 K. Review of Scientific Instruments, 2009, 80, 034104. | 1.3 | 20 |
| 18 | Mutual neutralization of atomic rare-gas cations (Ne ⁺ , Ar ⁺ , Kr ⁺ , Xe ⁺) with atomic halide anions (Cl ⁻), Tj ETQq0 0 Q rgBT /Overlock 10 T | 3.0 | 18 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | Electron attachment to 14 halogenated alkenes and alkanes, 300-600 K. <i>Journal of Chemical Physics</i> , 2012, 137, 164306. | 3.0 | 15 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |