

# James A Miller

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11863719/publications.pdf>

Version: 2024-02-01

138  
papers

18,996  
citations

12330

69  
h-index

11308

136  
g-index

142  
all docs

142  
docs citations

142  
times ranked

6440  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Combustion chemistry in the twenty-first century: Developing theory-informed chemical kinetics models. <i>Progress in Energy and Combustion Science</i> , 2021, 83, 100886.   | 31.2 | 89        |
| 2  | Comment on "Influence of Multiple Conformations and Paths on Rate Constants and Product Branching Ratios. Thermal Decomposition of 1-Propanol Radicals". <i>Journal of Physical Chemistry A</i> , 2019, 123, 1129-1130. | 2.5  | 1         |
| 3  | Reference natural gas flames at nominally autoignitive engine-relevant conditions. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1631-1638.  | 3.9  | 26        |
| 4  | Modeling nitrogen chemistry in combustion. <i>Progress in Energy and Combustion Science</i> , 2018, 67, 31-68.  | 31.2 | 980       |
| 5  | Theoretical kinetics of O + C <sub>2</sub> H <sub>4</sub> . <i>Proceedings of the Combustion Institute</i> , 2017, 36, 219-227.   | 3.9  | 42        |
| 6  | Initiation Reactions in Acetylene Pyrolysis. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4203-4217.   | 2.5  | 22        |
| 7  | Ramifications of including non-equilibrium effects for HCO in flame chemistry. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 525-532.  | 3.9  | 36        |
| 8  | Role of Microstructure and Surface Defects on the Dissolution Kinetics of CeO <sub>2</sub> , a UO <sub>2</sub> Fuel Analogue. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 10562-10571.                     | 8.0  | 56        |
| 9  | Weakly Bound Free Radicals in Combustion: "Prompt" Dissociation of Formyl Radicals and Its Effect on Laminar Flame Speeds. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 85-89.                               | 4.6  | 63        |
| 10 | Comment on "When Rate Constants Are Not Enough". <i>Journal of Physical Chemistry A</i> , 2016, 120, 306-312.   | 2.5  | 30        |
| 11 | Temperature and Pressure-Dependent Rate Coefficients for the Reaction of Vinyl Radical with Molecular Oxygen. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7766-7779.  | 2.5  | 88        |
| 12 | "Third-Body" collision efficiencies for combustion modeling: Hydrocarbons in atomic and diatomic baths. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 197-204.   | 3.9  | 97        |
| 13 | First-Principles Insight into the Hydration Ability and Proton Conduction of the Solid State Proton Conductor, Y and Sn Co-Doped BaZrO <sub>3</sub> . <i>Chemistry of Materials</i> , 2015, 27, 901-908.                | 6.7  | 67        |
| 14 | Kinetics of Propargyl Radical Dissociation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7780-7791.  | 2.5  | 35        |
| 15 | Adventures on the C <sub>3</sub> H <sub>5</sub> O potential energy surface: OH + propyne, OH + allene and related reactions. <i>Proceedings of the Combustion Institute</i> , 2015, 35, 181-188.                        | 3.9  | 42        |
| 16 | Predictive a priori pressure-dependent kinetics. <i>Science</i> , 2014, 346, 1212-1215.   | 12.6 | 142       |
| 17 | First-principles binary diffusion coefficients for H, H <sub>2</sub> , and four normal alkanes + N <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2014, 141, 124313.   | 3.0  | 42        |
| 18 | Lennard-Jones parameters for combustion and chemical kinetics modeling from full-dimensional intermolecular potentials. <i>Combustion and Flame</i> , 2014, 161, 101-110.   | 5.2  | 147       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Collision Efficiency of Water in the Unimolecular Reaction $\text{CH}_4 + \text{H}_2\text{O} \rightleftharpoons \text{CH}_3 + \text{H} + \text{H}_2\text{O}$ : One-Dimensional and Two-Dimensional Solutions of the Low-Pressure-Limit Master Equation. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12243-12255. | 2.5 | 65        |
| 20 | Reformulation and Solution of the Master Equation for Multiple-Well Chemical Reactions. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12146-12154.   | 2.5 | 461       |
| 21 | Unimolecular dissociation of hydroxypropyl and propoxy radicals. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 519-526.   | 3.9 | 21        |
| 22 | Determining phenomenological rate coefficients from a time-dependent, multiple-well master equation: "species reduction" at high temperatures. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4744.  | 2.8 | 73        |
| 23 | Dissociation of Propyl Radicals and Other Reactions on a $\text{C}_3\text{H}_7$ Potential. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2718-2727.  | 2.5 | 74        |
| 24 | Comment on "Automatic estimation of pressure-dependent rate coefficients" (J. W. Allen, C. F.) <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8431.  | 2.8 | 8         |
| 25 | Pressure-Dependent OH Yields in Alkene + $\text{HO}_2$ Reactions: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 10218-10225.  | 2.5 | 56        |
| 26 | Combustion Chemistry: Important Features of the $\text{C}_3\text{H}_5$ Potential Energy Surface, Including Allyl Radical, Propargyl + $\text{H}_2$ , Allene + H, and Eight Transition States. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14209-14214.   | 2.5 | 25        |
| 27 | Theoretical Unimolecular Kinetics for $\text{CH}_4 + \text{M}$ , $\text{CH}_3 + \text{H} + \text{M}$ in Eight Baths, $\text{M} = \text{He, Ne, Ar, Kr, H}_2, \text{N}_2, \text{CO}$ , and $\text{CH}_4$ . <i>Journal of Physical Chemistry A</i> , 2011, 115, 6438-6455.   | 2.5 | 132       |
| 28 | The role of NNH in NO formation and control. <i>Combustion and Flame</i> , 2011, 158, 774-789.   | 5.2 | 304       |
| 29 | Reactions between Resonance-Stabilized Radicals: Propargyl + Allyl. <i>Journal of Physical Chemistry A</i> , 2010, 114, 4881-4890.   | 2.5 | 84        |
| 30 | High-Temperature Measurements and a Theoretical Study of the Reaction of OH with 1,3-Butadiene. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8312-8318.   | 2.5 | 24        |
| 31 | The reaction of hydroxyethyl radicals with $\text{O}_2$ : A theoretical analysis and experimental product study. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 271-277.   | 3.9 | 90        |
| 32 | Benzene formation in premixed fuel-rich 1,3-butadiene flames. <i>Proceedings of the Combustion Institute</i> , 2009, 32, 623-630.  | 3.9 | 91        |
| 33 | Isomer-specific combustion chemistry in allene and propyne flames. <i>Combustion and Flame</i> , 2009, 156, 2153-2164.   | 5.2 | 115       |
| 34 | Kinetics of the Gas-Phase Recombination Reaction of Hydroxyl Radicals to Form Hydrogen Peroxide. <i>Journal of Physical Chemistry A</i> , 2009, 113, 4457-4467.  | 2.5 | 38        |
| 35 | Collisional Energy Transfer in Unimolecular Reactions: Direct Classical Trajectories for $\text{CH}_4$ , $\text{CH}_3 + \text{H}$ in Helium. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5612-5619.  | 2.5 | 87        |
| 36 | Detailed balance in multiple-well chemical reactions. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1128.   | 2.8 | 43        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | The reaction between propene and hydroxyl. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11040.  | 2.8  | 147       |
| 38 | Formally direct pathways and low-temperature chain branching in hydrocarbon autoignition: the cyclohexyl + O <sub>2</sub> reaction at high pressure. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1320.   | 2.8  | 76        |
| 39 | Kinetics of CH + N <sub>2</sub> Revisited with Multireference Methods. <i>Journal of Physical Chemistry A</i> , 2008, 112, 522-532.   | 2.5  | 62        |
| 40 | Reactions over Multiple, Interconnected Potential Wells: Unimolecular and Bimolecular Reactions on a C <sub>3</sub> H <sub>5</sub> Potential. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9429-9438.  | 2.5  | 73        |
| 41 | The Temperature and Pressure Dependence of the Reactions H + O <sub>2</sub> (+M) → HO <sub>2</sub> (+M) and H + OH (+M) → H <sub>2</sub> O (+M). <i>Journal of Physical Chemistry A</i> , 2008, 112, 5085-5095.   | 2.5  | 63        |
| 42 | Secondary decomposition of C <sub>3</sub> H <sub>5</sub> radicals formed by the photodissociation of 2-bromopropene. <i>Journal of Chemical Physics</i> , 2007, 127, 144301.  | 3.0  | 6         |
| 43 | Association rate constants for reactions between resonance-stabilized radicals: C <sub>3</sub> H <sub>3</sub> + C <sub>3</sub> H <sub>3</sub> , C <sub>3</sub> H <sub>3</sub> + C <sub>3</sub> H <sub>5</sub> , and C <sub>3</sub> H <sub>5</sub> + C <sub>3</sub> H <sub>5</sub> . <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4259. | 2.8  | 141       |
| 44 | The Reaction of <i>trans</i> - and <i>cis</i> -C <sub>4</sub> H <sub>5</sub> Radicals with Acetylene. <i>Journal of Physical Chemistry A</i> , 2007, 111, 3740-3747.  | 2.5  | 83        |
| 45 | Oxidation pathways in the reaction of diacetylene with OH radicals. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 185-192.   | 3.9  | 20        |
| 46 | Photoionization mass spectrometric studies and modeling of fuel-rich allene and propyne flames. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 1157-1164.   | 3.9  | 63        |
| 47 | Combustion Chemistry of Enols: Possible Ethenol Precursors in Flames. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3254-3260.  | 2.5  | 96        |
| 48 | Identification and Chemistry of C <sub>4</sub> H <sub>3</sub> and C <sub>4</sub> H <sub>5</sub> Isomers in Fuel-Rich Flames. <i>Journal of Physical Chemistry A</i> , 2006, 110, 3670-3678.   | 2.5  | 143       |
| 49 | Reaction of Ethylene with Hydroxyl Radicals: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2006, 110, 6960-6970.  | 2.5  | 156       |
| 50 | Master Equation Methods in Gas Phase Chemical Kinetics. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10528-10544.  | 2.5  | 386       |
| 51 | Identification of C <sub>5</sub> H <sub>3</sub> Isomers in Fuel-Rich Flames by Photoionization Mass Spectrometry and Electronic Structure Calculations. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4376-4388.  | 2.5  | 122       |
| 52 | Pathways and Rate Coefficients for the Decomposition of Vinyloxy and Acetyl Radicals. <i>Journal of Physical Chemistry A</i> , 2006, 110, 5772-5781.  | 2.5  | 74        |
| 53 | Modeling the Kinetics of Bimolecular Reactions. <i>Chemical Reviews</i> , 2006, 106, 4518-4584.   | 47.7 | 533       |
| 54 | Snow Mass over North America: Observations and Results from the Second Phase of the Atmospheric Model Intercomparison Project. <i>Journal of Hydrometeorology</i> , 2005, 6, 681-695.   | 1.9  | 43        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 55 | Unravelling combustion mechanisms through a quantitative understanding of elementary reactions. Proceedings of the Combustion Institute, 2005, 30, 43-88.  | 3.9  | 417       |
| 56 | A complete statistical analysis of the reaction between OH and CO. Proceedings of the Combustion Institute, 2005, 30, 945-953.   | 3.9  | 40        |
| 57 | Enols Are Common Intermediates in Hydrocarbon Oxidation. Science, 2005, 308, 1887-1889.  | 12.6 | 306       |
| 58 | Synchrotron photoionization measurements of combustion intermediates: Photoionization efficiency and identification of C <sub>3</sub> H <sub>2</sub> isomers. Physical Chemistry Chemical Physics, 2005, 7, 806.   | 2.8  | 113       |
| 59 | The Addition of Hydrogen Atoms to Diacetylene and the Heats of Formation of <i>o</i> -C <sub>4</sub> H <sub>3</sub> and <i>n</i> -C <sub>4</sub> H <sub>3</sub> . Journal of Physical Chemistry A, 2005, 109, 4285-4295.   | 2.5  | 61        |
| 60 | The Reaction of Acetylene with Hydroxyl Radicals. Journal of Physical Chemistry A, 2005, 109, 6045-6055.   | 2.5  | 86        |
| 61 | The H + C <sub>2</sub> H <sub>2</sub> (+M) and H + C <sub>2</sub> H <sub>3</sub> (+M) and H + C <sub>2</sub> H <sub>2</sub> (+M) + C <sub>2</sub> H <sub>5</sub> (+M) reactions: Electronic structure, transition-state theory, and solutions to a two-dimensional master equation. Physical Chemistry Chemical Physics, 2004, 6, 1192-1202.   | 2.8  | 139       |
| 62 | Some Observations Concerning Detailed Balance in Association/Dissociation Reactions. Journal of Physical Chemistry A, 2004, 108, 8296-8306.  | 2.5  | 31        |
| 63 | A kinetic issue in reburning: the fate of HCNO. Combustion and Flame, 2003, 135, 357-362.  | 5.2  | 51        |
| 64 | Improved simulations of snow extent in the second phase of the Atmospheric Model Intercomparison Project (AMIP-2). Journal of Geophysical Research, 2003, 108, .   | 3.3  | 79        |
| 65 | Measurements, Theory, and Modeling of OH Formation in Ethyl + O <sub>2</sub> and Propyl + O <sub>2</sub> Reactions. Journal of Physical Chemistry A, 2003, 107, 4415-4427.   | 2.5  | 160       |
| 66 | From the Multiple-Well Master Equation to Phenomenological Rate Coefficients: Reactions on a C <sub>3</sub> H <sub>4</sub> Potential Energy Surface. Journal of Physical Chemistry A, 2003, 107, 2680-2692.  | 2.5  | 216       |
| 67 | The Recombination of Propargyl Radicals and Other Reactions on a C <sub>6</sub> H <sub>6</sub> Potential. Journal of Physical Chemistry A, 2003, 107, 7783-7799.   | 2.5  | 368       |
| 68 | From the Time-Dependent, Multiple-Well Master Equation to Phenomenological Rate Coefficients. Journal of Physical Chemistry A, 2002, 106, 9267-9277.   | 2.5  | 184       |
| 69 | Solution of Some One- and Two-Dimensional Master Equation Models for Thermal Dissociation: The Dissociation of Methane in the Low-Pressure Limit. Journal of Physical Chemistry A, 2002, 106, 4904-4913.   | 2.5  | 127       |
| 70 | Resolving the mystery of prompt CO <sub>2</sub> : The HCCO+O <sub>2</sub> reaction. Proceedings of the Combustion Institute, 2002, 29, 1209-1217.  | 3.9  | 50        |
| 71 | Infrared frequency-modulation probing of product formation in alkyl + O <sub>2</sub> reactions. Part IV. For Part III see ref. 12. Reactions of propyl and butyl radicals with O <sub>2</sub> . Electronic Supplementary Information available. See <a href="http://www.rsc.org/suppdata/fd/b1/b102237g/">http://www.rsc.org/suppdata/fd/b1/b102237g/</a> . Faraday Discussions, 2001, 119, 101-120. | 3.2  | 86        |
| 72 | The Recombination of Propargyl Radicals: Solving the Master Equation. Journal of Physical Chemistry A, 2001, 105, 7254-7266.   | 2.5  | 127       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 73 | A theoretical analysis of the reaction between propargyl and molecular oxygen. Faraday Discussions, 2001, 119, 79-100.   | 3.2 | 93        |
| 74 | A direct transition state theory based analysis of the branching in NH <sub>2</sub> + NO. Faraday Discussions, 2001, 119, 207-222.   | 3.2 | 27        |
| 75 | The reaction between ethyl and molecular oxygen II: Further analysis. International Journal of Chemical Kinetics, 2001, 33, 654-668.   | 1.6 | 124       |
| 76 | Exploring old and new benzene formation pathways in low-pressure premixed flames of aliphatic fuels. Proceedings of the Combustion Institute, 2000, 28, 1519-1527.                               | 3.9 | 144       |
| 77 | A theoretical analysis of the reaction between ethyl and molecular oxygen. Proceedings of the Combustion Institute, 2000, 28, 1479-1486.   | 3.9 | 105       |
| 78 | A Theoretical Analysis of the Reaction between Vinyl and Acetylene: A Quantum Chemistry and Solution of the Master Equation. Journal of Physical Chemistry A, 2000, 104, 7525-7536.              | 2.5 | 91        |
| 79 | Theoretical Considerations in the NH <sub>2</sub> + NO Reaction. Journal of Physical Chemistry A, 2000, 104, 2061-2069.  | 2.5 | 74        |
| 80 | Angular momentum conservation in the O + OH → O <sub>2</sub> + H reaction. International Journal of Chemical Kinetics, 1999, 31, 753-756.  | 1.6 | 18        |
| 81 | Inhibitory effects of chlorophyllin on micronucleus formation induced by ethyl carbamate and its proximate and ultimate carcinogenic forms in mouse peripheral reticulocytes. , 1999, 34, 57-60. |     | 7         |
| 82 | Kinetic Modeling of Hydrocarbon/Nitric Oxide Interactions in a Flow Reactor. Combustion and Flame, 1998, 115, 1-27.  | 5.2 | 475       |
| 83 | The CH <sub>3</sub> +NO rate coefficient at high temperatures: Theoretical analysis and comparison with experiment. International Journal of Chemical Kinetics, 1998, 30, 223-228.               | 1.6 | 23        |
| 84 | The recombination of hydrogen atoms with nitric oxide at high temperatures. Proceedings of the Combustion Institute, 1998, 27, 219-226.  | 0.3 | 41        |
| 85 | Some chemical kinetics issues in reburning: The branching fraction of the HCCO+NO reaction. Proceedings of the Combustion Institute, 1998, 27, 235-243.  | 0.3 | 26        |
| 86 | Branching Fraction of the NH <sub>2</sub> + NO Reaction between 1210 and 1370 K. Journal of Physical Chemistry A, 1997, 101, 3741-3745.  | 2.5 | 49        |
| 87 | Prompt NO: Theoretical prediction of the high-temperature rate coefficient for CH + N <sub>2</sub> → HCN + N. International Journal of Chemical Kinetics, 1997, 29, 253-259.                     | 1.6 | 44        |
| 88 | Quantifying the non-RRKM effect in the H + O <sub>2</sub> → OH + O reaction. International Journal of Chemical Kinetics, 1997, 29, 275-287.  | 1.6 | 55        |
| 89 | An exploratory investigation of the use of alkali metals in nitrous oxide control. International Journal of Chemical Kinetics, 1996, 28, 217-234.  | 1.6 | 41        |
| 90 | The effect of allene addition on the structure of a rich C <sub>2</sub> H <sub>2</sub> /O <sub>2</sub> /Ar flame. Combustion and Flame, 1996, 105, 451-461.                                      | 5.2 | 62        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 91  | Pressure effects on the thermal de-NO <sub>x</sub> process. Proceedings of the Combustion Institute, 1996, 26, 2067-2074.   | 0.3  | 18        |
| 92  | Theory and modeling in combustion chemistry. Proceedings of the Combustion Institute, 1996, 26, 461-480.  | 0.3  | 103       |
| 93  | The reaction of ammonia with nitrogen dioxide in a flow reactor: Implications for the NH <sub>2</sub> + NO <sub>2</sub> reaction. International Journal of Chemical Kinetics, 1995, 27, 1207-1220.                            | 1.6  | 110       |
| 94  | The Oxidation of Allene in a Low-Pressure H <sub>2</sub> / O <sub>2</sub> / Ar-C <sub>3</sub> H <sub>4</sub> Flame. Combustion Science and Technology, 1995, 110-111, 249-276.  | 2.3  | 40        |
| 95  | Research in Chemical Carcinogenesis with Elizabeth Miller—A Trail of Discovery with Our Associates. Drug Metabolism Reviews, 1994, 26, 1-36.  | 3.6  | 36        |
| 96  | Modeling the thermal DENO <sub>x</sub> process in flow reactors. Surface effects and Nitrous Oxide formation. International Journal of Chemical Kinetics, 1994, 26, 421-436.  | 1.6  | 156       |
| 97  | Mechanism and modeling of hydrogen cyanide oxidation in a flow reactor. Combustion and Flame, 1994, 99, 475-483.  | 5.2  | 87        |
| 98  | Rich methane/air flames: Burning velocities, extinction limits, and flammability limit. Proceedings of the Combustion Institute, 1994, 25, 1309-1315.   | 0.3  | 8         |
| 99  | Unimolecular reaction mechanisms involving C <sub>3</sub> H <sub>4</sub> , C <sub>4</sub> H <sub>4</sub> , and C <sub>6</sub> H <sub>6</sub> hydrocarbon species. Proceedings of the Combustion Institute, 1992, 24, 621-628. | 0.3  | 63        |
| 100 | The reactions of imidogen with nitric oxide and molecular oxygen. Proceedings of the Combustion Institute, 1992, 24, 719-726.   | 0.3  | 33        |
| 101 | Kinetic and thermodynamic issues in the formation of aromatic compounds in flames of aliphatic fuels. Combustion and Flame, 1992, 91, 21-39.  | 5.2  | 813       |
| 102 | A theoretical analysis of the reaction between hydrogen atoms and isocyanic acid. International Journal of Chemical Kinetics, 1992, 24, 421-432.  | 1.6  | 21        |
| 103 | The Need for Epidemiological Studies of the Medical Exposures of Japanese Patients to the Carcinogen Ethyl Carhamate (Urethane) from 1950 to 1975. Japanese Journal of Cancer Research, 1991, 82, 1323-1324.                  | 1.7  | 20        |
| 104 | Kinetic modeling of the reduction of nitric oxide in combustion products by isocyanic acid. International Journal of Chemical Kinetics, 1991, 23, 289-313.  | 1.6  | 161       |
| 105 | The structure and reaction mechanism of rich, non-sooting C <sub>2</sub> H <sub>2</sub> /O <sub>2</sub> /Ar flames. Proceedings of the Combustion Institute, 1991, 23, 187-194.   | 0.3  | 14        |
| 106 | Mechanism and modeling of nitrogen chemistry in combustion. Progress in Energy and Combustion Science, 1989, 15, 287-338.   | 31.2 | 2,716     |
| 107 | A computational model of the structure and extinction of strained, opposed flow, premixed methane-air flames. Proceedings of the Combustion Institute, 1989, 22, 1479-1494.   | 0.3  | 416       |
| 108 | A theoretical analysis of the reaction between hydroxyl and hydrogen cyanide at high temperature. Proceedings of the Combustion Institute, 1988, 21, 919-927.   | 0.3  | 11        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | Hydrocarbon/nitric oxide interactions in low-pressure flames. Proceedings of the Combustion Institute, 1988, 21, 965-977.   | 0.3 | 31        |
| 110 | A hybrid Newton/time-integration procedure for the solution of steady, laminar, one-dimensional, premixed flames. Proceedings of the Combustion Institute, 1988, 21, 1773-1782.   | 0.3 | 73        |
| 111 | Kinetics of the reaction between oxygen atoms and ethyl radicals. Journal of the Chemical Society, Faraday Transactions 2, 1988, 84, 491-503.   | 1.1 | 56        |
| 112 | Combustion Chemistry. Chemical & Engineering News, 1987, 65, 22-46.   | 0.1 | 68        |
| 113 | A theoretical analysis of the overtone-induced isomerization of methyl isocyanide. Journal of Chemical Physics, 1986, 85, 4502-4508.  | 3.0 | 27        |
| 114 | A Mathematical Model of Silicon Chemical Vapor Deposition: Further Refinements and the Effects of Thermal Diffusion. Journal of the Electrochemical Society, 1986, 133, 1206-1213.  | 2.9 | 268       |
| 115 | Nonstatistical effects and detailed balance in quasiclassical trajectory calculations of the thermal rate coefficient for $O+OH^{\ddagger} \rightarrow O_2+H$ . Journal of Chemical Physics, 1986, 84, 6170-6177.             | 3.0 | 88        |
| 116 | Methyl isocyanide isomerization. Determination of collisional deactivation parameters following carbon-hydrogen overtone excitation. The Journal of Physical Chemistry, 1986, 90, 3544-3549.                                  | 2.9 | 17        |
| 117 | A statistical-theoretical investigation of the thermal rate coefficient and branching ratio for the reaction atomic oxygen + hydrogen cyanide $\rightarrow$ products. The Journal of Physical Chemistry, 1986, 90, 3339-3345. | 2.9 | 47        |
| 118 | Kinetic modeling and sensitivity analysis of nitrogen oxide formation in well-stirred reactors. Combustion and Flame, 1986, 65, 177-202.  | 5.2 | 398       |
| 119 | The conversion of HCN to NO and N <sub>2</sub> in $H_2/O_2/HCN/Ar$ flames at low pressure. Proceedings of the Combustion Institute, 1985, 20, 673-684.  | 0.3 | 65        |
| 120 | Solution of Premixed and Counterflow Diffusion Flame Problems by Adaptive Boundary Value Methods., 1985, , 303-317.   |     | 20        |
| 121 | Collisional energy transfer in the low-pressure limit unimolecular dissociation of HO <sub>2</sub> . Journal of Chemical Physics, 1984, 80, 5568-5580.  | 3.0 | 138       |
| 122 | Computational modeling of flame structure. Physica D: Nonlinear Phenomena, 1984, 12, 198-211.   | 2.8 | 10        |
| 123 | A Mathematical Model of the Coupled Fluid Mechanics and Chemical Kinetics in a Chemical Vapor Deposition Reactor. Journal of the Electrochemical Society, 1984, 131, 425-434.   | 2.9 | 326       |
| 124 | A theoretical analysis of photoactivated unimolecular dissociation: The overtone dissociation of <i>t</i> -butyl hydroperoxide. Journal of Chemical Physics, 1984, 81, 455-464.   | 3.0 | 25        |
| 125 | Determination of Adiabatic Flame Speeds by Boundary Value Methods. Combustion Science and Technology, 1983, 34, 79-90.  | 2.3 | 118       |
| 126 | Kinetic Modeling of the Oxidation of Ammonia in Flames. Combustion Science and Technology, 1983, 34, 149-176.   | 2.3 | 280       |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 127 | Dynamics of the unimolecular dissociation of hydroperoxo. Phase space coupling, microcanonical rate coefficients, and rotational effects. <i>The Journal of Physical Chemistry</i> , 1982, 86, 772-784.                                   | 2.9 | 39        |
| 128 | A Theoretical Investigation of Mixing Effects in the Selective Reduction of Nitric Oxide by Ammonia. <i>Combustion Science and Technology</i> , 1982, 29, 147-165.  | 2.3 | 35        |
| 129 | Toward a comprehensive chemical kinetic mechanism for the oxidation of acetylene: Comparison of model predictions with results from flame and shock tube experiments. <i>Proceedings of the Combustion Institute</i> , 1982, 19, 181-196. | 0.3 | 116       |
| 130 | Collision dynamics and the thermal rate coefficient for the reaction $H+O_2 \rightarrow OH+O$ . <i>Journal of Chemical Physics</i> , 1981, 74, 5120-5132.   | 3.0 | 110       |
| 131 | Mechanisms of chemical carcinogenesis. <i>Cancer</i> , 1981, 47, 1055-1064.   | 4.1 | 327       |
| 132 | Searches for ultimate chemical carcinogens and their reactions with cellular macromolecules. <i>Cancer</i> , 1981, 47, 2327-2345.   | 4.1 | 761       |
| 133 | The measurement of relative concentration profiles of $NH_2$ using laser absorption spectroscopy. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1981, 26, 313-327.   | 2.3 | 30        |
| 134 | Kinetic isotope effects: Theoretical prediction of the thermal rate coefficient for the reaction $D+O_2 \rightarrow OD+O$ . <i>Journal of Chemical Physics</i> , 1981, 75, 5349-5354.   | 3.0 | 25        |
| 135 | Comparative carcinogenicities and reactivities of N-myristoyloxy-N-acetyl-2-aminofluorene and its 7-iodo derivative. <i>Carcinogenesis</i> , 1981, 2, 655-659.  | 2.8 | 6         |
| 136 | Chemical nonequilibrium effects in hydrogen-air laminar jet diffusion flames. <i>The Journal of Physical Chemistry</i> , 1977, 81, 2534-2542.   | 2.9 | 69        |
| 137 | Synthesis of the hepatocarcinogen N-methyl-4-aminoazobenzene with tritium in the prime ring. <i>Journal of Labelled Compounds</i> , 1969, 5, 257-260.   | 0.3 | 3         |
| 138 | The Carcinogenic Aminoazo Dyes. <i>Advances in Cancer Research</i> , 1953, 1, 339-396.  | 5.0 | 263       |