

# Predictive a priori pressure-dependent kinetics

Science

346, 1212-1215

DOI: [10.1126/science.1260856](https://doi.org/10.1126/science.1260856)

Citation Report

#	ARTICLE	IF	CITATIONS
2	Calculating the pressure dependence of chemical reactions. <i>Science</i> , 2014, 346, 1183-1184.	12.6	7
3	Permutationally invariant fitting of intermolecular potential energy surfaces: A case study of the Ne-C <sub>2</sub> H <sub>2</sub> system. <i>Journal of Chemical Physics</i> , 2015, 143, 214304.	3.0	23
4	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
5	Reanalysis of Rate Data for the Reaction CH <sub>3</sub> + CH <sub>3</sub> → C <sub>2</sub> H <sub>6</sub> Using Revised Cross Sections and a Linearized Second-Order Master Equation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7668-7682.	2.5	28
6	A Model For Energy Transfer in Collisions of Atoms with Highly Excited Molecules. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4695-4710.	2.5	11
7	Dissociation of 1,1,1-Trifluoroethane Is an Intrinsic RRKM Process: Classical Trajectories and Successful Master Equation Modeling. <i>Journal of Physical Chemistry A</i> , 2015, 119, 1846-1858.	2.5	14
8	Determination of the collisional energy transfer distribution responsible for the collision-induced dissociation of NO <sub>2</sub> with Ar. <i>Chemical Physics Letters</i> , 2015, 636, 1-14.	2.6	7
9	A Combined Experimental and Theoretical Study of the Reaction OH + 2-Butene in the 400–800 K Temperature Range. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7742-7752.	2.5	21
10	Collisional energy transfer in polyatomic molecules at high temperatures: Master equation analysis of vibrational relaxation of shock-heated alkanes. <i>Chemical Physics Letters</i> , 2015, 635, 295-300.	2.6	6
11	Global uncertainty analysis for RRKM/master equation based kinetic predictions: A case study of ethanol decomposition. <i>Combustion and Flame</i> , 2015, 162, 3427-3436.	5.2	32
12	Kinetics of Propargyl Radical Dissociation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 7780-7791.	2.5	35
13	Theoretical Chemical Kinetics in Tropospheric Chemistry: Methodologies and Applications. <i>Chemical Reviews</i> , 2015, 115, 4063-4114.	47.7	164
14	Trajectory and Model Studies of Collisions of Highly Excited Methane with Water Using an ab Initio Potential. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12304-12317.	2.5	17
15	Understanding low-temperature first-stage ignition delay: Propane. <i>Combustion and Flame</i> , 2015, 162, 3658-3673.	5.2	122
16	Pressure effects on thermal decomposition reactions: a thermo-kinetic investigation. <i>RSC Advances</i> , 2015, 5, 78598-78605.	3.6	12
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18	Master Equation Analysis of Thermal and Nonthermal Microwave Effects. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7989-7997.	2.5	22
19	Low Temperature Kinetics of the First Steps of Water Cluster Formation. <i>Physical Review Letters</i> , 2016, 116, 113401.	7.8	26

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20	Combustion Chemistry Diagnostics for Cleaner Processes. <i>Chemistry - A European Journal</i> , 2016, 22, 13390-13401.	3.3	17
21	Direct frequency comb measurement of OD + CO $\hat{\text{a}}$ DOCO kinetics. <i>Science</i> , 2016, 354, 444-448.	12.6	86
22	Pressure-dependent rate constants for PAH growth: formation of indene and its conversion to naphthalene. <i>Faraday Discussions</i> , 2016, 195, 637-670.	3.2	76
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28	A quantum chemical study on $\hat{\text{e}}$ Cl-initiated atmospheric degradation of acrylonitrile. <i>RSC Advances</i> , 2017, 7, 20574-20581.	3.6	3
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52	Dissociation channels, collisional energy transfer, and multichannel coupling effects in the thermal decomposition of CH <sub>3</sub> F. Physical Chemistry Chemical Physics, 2018, 20, 15128-15138.	2.8	9
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57	Breakdown of energy transfer gap laws revealed by full-dimensional quantum scattering between HF molecules. <i>Nature Communications</i> , 2019, 10, 4658.	12.8	17
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75	Mechanism and rate constants of the CH <sub>2</sub> + CH <sub>2</sub> CO reactions in triplet and singlet states: A theoretical study. <i>Journal of Computational Chemistry</i> , 2019, 40, 387-399.	3.3	12
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