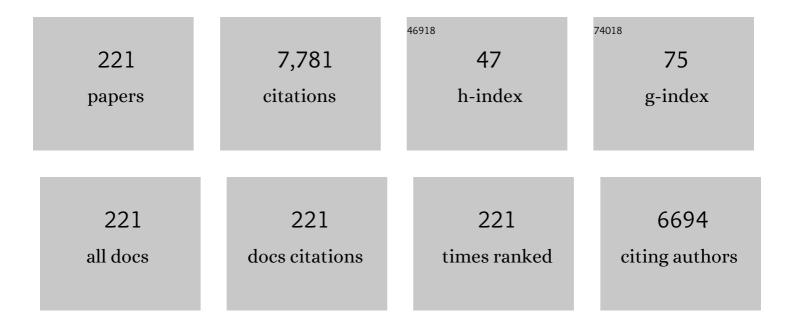
List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Modification of the gaussianâ^'2 theoretical model: The use of coupledâ€cluster energies,<br>densityâ€functional geometries, and frequencies. Journal of Chemical Physics, 1995, 103, 7414-7421.                            | 1.2  | 468       |
| 2  | Carbon-doped SnS2 nanostructure as a high-efficiency solar fuel catalyst under visible light. Nature<br>Communications, 2018, 9, 169.   | 5.8  | 350       |
| 3  | From Ni-YSZ to sulfur-tolerant anode materials for SOFCs: electrochemical behavior, in situ characterization, modeling, and future perspectives. Energy and Environmental Science, 2011, 4, 4380.                           | 15.6 | 280       |
| 4  | Ab Initio and RRKM Calculations for Multichannel Rate Constants of the C2H3+ O2Reaction. Journal of the American Chemical Society, 1996, 118, 9759-9771.  | 6.6  | 161       |
| 5  | A Theoretical Study of Surface Reduction Mechanisms of CeO2(111) and (110) by H2. ChemPhysChem, 2007, 8, 849-855.   | 1.0  | 142       |
| 6  | Oxygen Reduction on LaMnO3-Based Cathode Materials in Solid Oxide Fuel Cells. Chemistry of<br>Materials, 2007, 19, 1690-1699.   | 3.2  | 126       |
| 7  | Thermal decomposition of ethanol. I. Ab Initio molecular orbital/Rice–Ramsperger–Kassel–Marcus<br>prediction of rate constant and product branching ratios. Journal of Chemical Physics, 2002, 117,<br>3224-3231.           | 1.2  | 125       |
| 8  | Extremely rapid self-reaction of the simplest Criegee intermediate CH2OO and its implications in atmospheric chemistry. Nature Chemistry, 2014, 6, 477-483.   | 6.6  | 125       |
| 9  | Mechanism of Ethanol Reforming: Theoretical Foundations. Journal of Physical Chemistry C, 2009, 113, 6681-6688.   | 1.5  | 118       |
| 10 | Niâ€Nanocluster Modified Black TiO <sub>2</sub> with Dual Active Sites for Selective Photocatalytic<br>CO <sub>2</sub> Reduction. Small, 2018, 14, 1702928.   | 5.2  | 116       |
| 11 | Vitalizing fuel cells with vitamins: pyrolyzed vitamin B12 as a non-precious catalyst for enhanced<br>oxygen reduction reaction of polymer electrolyte fuel cells. Energy and Environmental Science, 2012,<br>5, 5305-5314. | 15.6 | 115       |
| 12 | Roaming-mediated isomerization in the photodissociation of nitrobenzene. Nature Chemistry, 2011, 3, 932-937.  | 6.6  | 110       |
| 13 | A density functional study of the global potential energy surfaces of the [H,C,N,O] system in singlet<br>and triplet states. Journal of Chemical Physics, 1996, 105, 6439-6454.   | 1.2  | 105       |
| 14 | Computational Study on the Catalytic Mechanism of Oxygen Reduction on<br>La <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> in Solid Oxide Fuel Cells. Angewandte Chemie -<br>International Edition, 2007, 46, 7214-7219. | 7.2  | 101       |
| 15 | Experimental and reduced dimensionality quantum rate coefficients for H2(D2)+CN→H(D)CN+H(D).<br>Journal of Chemical Physics, 1990, 93, 4730-4739.   | 1.2  | 89        |
| 16 | Kinetics and Mechanism of the OH + C6H6Reaction:Â A Detailed Analysis with First-Principles<br>Calculations. Journal of Physical Chemistry A, 2002, 106, 11309-11326.   | 1.1  | 89        |
| 17 | A simple pyrene based AIEE active schiff base probe for selective naked eye and fluoresence off–on<br>detection of trivalent cations with live cell application. Sensors and Actuators B: Chemical, 2016, 231,<br>18-29.    | 4.0  | 89        |
| 18 | Abinitiomolecular orbital study of the HCO+O2reaction: Direct versus indirect abstraction channels.<br>Journal of Chemical Physics, 1996, 105, 2346-2352.   | 1.2  | 82        |

| #  | Article  | IF  | CITATIONS |
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| 19 | Composition of SiCN crystals consisting of a predominantly carbon-nitride network. Journal of Materials Research, 1997, 12, 322-325.   | 1.2 | 80        |
| 20 | Ab Initio MO Study of the Unimolecular Decomposition of the Phenyl Radical. Journal of Physical Chemistry A, 1997, 101, 6790-6797.   | 1.1 | 77        |
| 21 | Experimental and Theoretical Studies of the Reaction of the Phenyl Radical with Methane. Journal of<br>Physical Chemistry A, 1999, 103, 3636-3645.   | 1.1 | 76        |
| 22 | Unimolecular isomerization/decomposition of cyclopentadienyl and related bimolecular reverse process:ab initio MO/statistical theory study. Journal of Computational Chemistry, 2000, 21, 415-425.   | 1.5 | 74        |
| 23 | Computational Study on the Kinetics and Mechanisms for the Unimolecular Decomposition of Formic and Oxalic Acidsâ€. Journal of Physical Chemistry A, 2007, 111, 6789-6797.   | 1.1 | 73        |
| 24 | A Computational Study of the OH(OD) + CO Reactions:Â Effects of Pressure, Temperature, and<br>Quantum-Mechanical Tunneling on Product Formation. Journal of Physical Chemistry A, 2001, 105,<br>11249-11259.   | 1.1 | 72        |
| 25 | Novel pyrene containing monomeric and dimeric supramolecular AIEE active nano-probes utilized in<br>selective "off–on―trivalent metal and highly acidic pH sensing with live cell applications. Journal of<br>Materials Chemistry C, 2016, 4, 2056-2071. | 2.7 | 71        |
| 26 | Nitromethaneâ^'Methyl Nitrite Rearrangement:Â A Persistent Discrepancy between Theory and<br>Experiment. Journal of Physical Chemistry A, 2003, 107, 4286-4291.  | 1.1 | 70        |
| 27 | Computational study on the reactions of H <sub>2</sub> O <sub>2</sub> on TiO <sub>2</sub> anatase (101) and rutile (110) surfaces. Journal of Computational Chemistry, 2011, 32, 1065-1081.  | 1.5 | 64        |
| 28 | Ab initiostudy of the CH3+O2 reaction: Kinetics, mechanism and product branching probabilities.<br>Journal of Chemical Physics, 2001, 115, 195-203.  | 1.2 | 63        |
| 29 | Density Functional Theory Study of the Adsorption and Reaction of H <sub>2</sub> S on<br>TiO <sub>2</sub> Rutile (110) and Anatase (101) Surfaces. Journal of Physical Chemistry C, 2009, 113,<br>20411-20420.   | 1.5 | 61        |
| 30 | A shock tube study of the CH2O + NO2 reaction at high temperatures. International Journal of<br>Chemical Kinetics, 1990, 22, 455-482.  | 1.0 | 60        |
| 31 | Prediction of O2 Dissociation Kinetics on LaMnO3-Based Cathode Materials for Solid Oxide Fuel Cells.<br>Journal of Physical Chemistry C, 2009, 113, 7290-7297.   | 1.5 | 57        |
| 32 | Thermal decomposition of ethanol. II. A computational study of the kinetics and mechanism for the H+C2H5OH reaction. Journal of Chemical Physics, 2003, 118, 9990-9996.  | 1.2 | 56        |
| 33 | Ab initio study of the OH + CH2O reaction: The effect of the OH··OCH2 complex on the H-abstraction kinetics. International Journal of Chemical Kinetics, 2006, 38, 322-326.  | 1.0 | 54        |
| 34 | KSCN-induced Interfacial Dipole in Black TiO <sub>2</sub> for Enhanced Photocatalytic<br>CO <sub>2</sub> Reduction. ACS Applied Materials & Interfaces, 2019, 11, 25186-25194.   | 4.0 | 54        |
| 35 | Pyrene-Based AIEE Active Nanoprobe for Zn <sup>2+</sup> and Tyrosine Detection Demonstrated by DFT,<br>Bioimaging, and Organic Thin-Film Transistor. ACS Applied Materials & Interfaces, 2021, 13,<br>28610-28626.                                       | 4.0 | 53        |
| 36 | Theoretical study of the thermal isomerization of fulvene to benzene. Journal of Physical Organic<br>Chemistry, 1996, 9, 801-810.  | 0.9 | 52        |

| #  | Article   | IF  | CITATIONS |
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| 37 | Theoretical interpretation of the kinetics and mechanisms of the HNO + HNO and HNO + 2NO reactions with a unified model. International Journal of Chemical Kinetics, 1992, 24, 489-516.   | 1.0 | 51        |
| 38 | Laserâ€assisted chemical vapor deposition of InN on Si(100). Journal of Vacuum Science and Technology<br>A: Vacuum, Surfaces and Films, 1993, 11, 2931-2937.  | 0.9 | 51        |
| 39 | Direct Synthesis of Zr-Doped Ceria Nanotubes. Journal of Physical Chemistry C, 2009, 113, 5031-5034.  | 1.5 | 51        |
| 40 | Absolute rate constant for the reaction of Phenyl radical with Acetylene. International Journal of Chemical Kinetics, 1994, 26, 1095-1104.  | 1.0 | 50        |
| 41 | Rate Constant of the HONO + HONO → H2O + NO + NO2 Reaction from ab Initio MO and TST Calculations.<br>Journal of Physical Chemistry A, 1998, 102, 1803-1807.  | 1.1 | 50        |
| 42 | Thermal decomposition of iso-propanol: First-principles prediction of total and product-branching rate constants. Journal of Chemical Physics, 2002, 117, 11188-11195.  | 1.2 | 50        |
| 43 | Combined Quantum Chemical/RRKM-ME Computational Study of the Phenyl + Ethylene, Vinyl + Benzene,<br>and H + Styrene Reactionsâ€. Journal of Physical Chemistry A, 2004, 108, 9697-9714.   | 1.1 | 50        |
| 44 | Ab initio molecular orbital study of potential energy surface for the reaction of C2H3 with H2 and related reactions. Journal of Chemical Physics, 1995, 103, 3440-3449.  | 1.2 | 49        |
| 45 | Direct Determination of Product Branching for the NH2+ NO Reaction at Temperatures between 302 and 1060 K. The Journal of Physical Chemistry, 1996, 100, 3317-3319.   | 2.9 | 49        |
| 46 | Kinetics for the Recombination of Phenyl Radicals. Journal of Physical Chemistry A, 1997, 101, 14-18.   | 1.1 | 49        |
| 47 | Experimental and Theoretical Studies of the C6H5+ C6H6Reaction. Journal of Physical Chemistry A, 1999, 103, 9036-9041.  | 1.1 | 49        |
| 48 | Laser-Initiated NO Reduction by NH3:  Total Rate Constant and Product Branching Ratio Measurements<br>for the NH2 + NO Reaction. Journal of Physical Chemistry A, 1997, 101, 5-13.  | 1.1 | 48        |
| 49 | Potassium-Presenting Zinc Oxide Surfaces Induce Vertical Phase Separation in Fullerene-Free Organic<br>Photovoltaics. Nano Letters, 2020, 20, 715-721.  | 4.5 | 48        |
| 50 | Theoretical Rate Constants for the NH3+ NOx→ NH2+ HNOx(x= 1, 2) Reactions by ab Initio MO/VTST<br>Calculations. The Journal of Physical Chemistry, 1996, 100, 7517-7525.  | 2.9 | 47        |
| 51 | Acid/Base and H <sub>2</sub> PO <sub>4</sub> <sup>–</sup> Controllable High-Contrast Optical<br>Molecular Switches with a Novel BODIPY Functionalized [2]Rotaxane. ACS Applied Materials &<br>Interfaces, 2015, 7, 26491-26503. | 4.0 | 47        |
| 52 | Novel rhodamine probe for colorimetric and fluorescent detection of Fe3+ ions in aqueous media<br>with cellular imaging. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020,<br>242, 118757.           | 2.0 | 47        |
| 53 | A Mass Spectrometric Study of the NH2+ NO2Reaction. Journal of Physical Chemistry A, 1997, 101, 2643-2647.  | 1.1 | 45        |
| 54 | Ab initiostudies of ClOx reactions. IV. Kinetics and mechanism for the self-reaction of ClO radicals.<br>Journal of Chemical Physics, 2003, 118, 4094-4106.   | 1.2 | 45        |

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| 55 | Methylammonium Tin Tribromide Quantum Dots for Heavy Metal Ion Detection and Cellular Imaging.<br>ACS Applied Nano Materials, 2022, 5, 2859-2874.  | 2.4 | 45        |
| 56 | Ab initio study of the oxidation of NCN by O2. International Journal of Chemical Kinetics, 2005, 37, 593-598.  | 1.0 | 44        |
| 57 | Adsorption Configurations and Reactions of Boric Acid on a TiO <sub>2</sub> Anatase (101) Surface.<br>Journal of Physical Chemistry C, 2008, 112, 8276-8287.   | 1.5 | 44        |
| 58 | Metal-free four-in-one modification of g-C3N4 for superior photocatalytic CO2 reduction and H2 evolution. Chemical Engineering Journal, 2022, 430, 132853.   | 6.6 | 44        |
| 59 | Effect of Roaming Transition States upon Product Branching in the Thermal Decomposition of CH <sub>3</sub> NO <sub>2</sub> . Journal of Physical Chemistry A, 2013, 117, 7308-7313.  | 1.1 | 43        |
| 60 | Ab Initio Kinetics for Decomposition/Isomerization Reactions of C <sub>2</sub> H <sub>5</sub> O<br>Radicals. ChemPhysChem, 2009, 10, 972-982.  | 1.0 | 42        |
| 61 | Implications of the HCN ? HNC process to high-temperature nitrogen-containing fuel chemistry.<br>International Journal of Chemical Kinetics, 1992, 24, 1103-1107.  | 1.0 | 41        |
| 62 | Ab Initio Study of the H + HONO Reaction:  Direct Abstraction versus Indirect Exchange Processes.<br>Journal of Physical Chemistry A, 1997, 101, 60-66.  | 1.1 | 40        |
| 63 | The NCO + NO Reaction Revisited:Â Ab Initio MO/VRRKM Calculations for Total Rate Constant and<br>Product Branching Ratios. Journal of Physical Chemistry A, 2000, 104, 10807-10811.  | 1.1 | 40        |
| 64 | Facile rhodamine-based colorimetric sensors for sequential detections of Cu( <scp>ii</scp> ) ions and<br>pyrophosphate (P <sub>2</sub> O <sub>7</sub> <sup>4â^'</sup> ) anions. RSC Advances, 2016, 6,<br>106631-106640.   | 1.7 | 40        |
| 65 | Experimental and Theoretical Studies of the Unimolecular Decomposition of Nitrosobenzene:Â<br>High-Pressure Rate Constants and the Câ^'N Bond Strength. Journal of Physical Chemistry A, 1997, 101,<br>6043-6047.          | 1.1 | 39        |
| 66 | Ab initio study of the HO2+NO reaction: Prediction of the total rate constant and product branching ratios for the forward and reverse processes. Journal of Chemical Physics, 2003, 119, 10667-10677.                     | 1.2 | 39        |
| 67 | Sublimation of Ammonium Salts:  A Mechanism Revealed by a First-Principles Study of the<br>NH <sub>4</sub> Cl System. Journal of Physical Chemistry C, 2007, 111, 13831-13838.   | 1.5 | 38        |
| 68 | An ab initio molecular orbital study of potential energy surface of the NH2+NO2 reaction. Journal of<br>Chemical Physics, 1995, 103, 5640-5649.  | 1.2 | 37        |
| 69 | Ab initio studies of ClOx reactions. VIII. Isomerization and decomposition of ClO2 radicals and related bimolecular processes. Journal of Chemical Physics, 2003, 119, 2075-2082.  | 1.2 | 37        |
| 70 | Monomeric and aggregation emissions of tetraphenylethene in a photo-switchable polymer<br>controlled by cyclization of diarylethene and solvent conditions. Journal of Materials Chemistry C,<br>2017, 5, 9952-9962.       | 2.7 | 37        |
| 71 | Kinetics of the reaction of C6H5 with HBr. International Journal of Chemical Kinetics, 1993, 25, 875-880.  | 1.0 | 36        |
| 72 | Computational Chemical Kinetics for the Reaction of Criegee Intermediate CH <sub>2</sub> OO with<br>HNO <sub>3</sub> and Its Catalytic Conversion to OH and HCO. Journal of Physical Chemistry A, 2017,<br>121, 3871-3878. | 1.1 | 36        |

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| 73 | Quantum chemical elucidation of the mechanism for hydrogenation of TiO2 anatase crystals. Journal of Chemical Physics, 2013, 138, 154705.  | 1.2 | 35        |
| 74 | A novel and facile decay path of Criegee intermediates by intramolecular insertion reactions via roaming transition states. Journal of Chemical Physics, 2015, 142, 124312.  | 1.2 | 35        |
| 75 | Development of Hybrid Pseudohalide Tin Perovskites for Highly Stable Carbon-Electrode Solar Cells.<br>ACS Applied Materials & Interfaces, 2020, 12, 21739-21747.   | 4.0 | 35        |
| 76 | Ab initio molecular orbital study of potential energy surface for the NH+NO2 reaction. Journal of Chemical Physics, 1994, 101, 3916-3922.  | 1.2 | 34        |
| 77 | Kinetics and Mechanism for the Reaction of Phenyl Radical with Formaldehyde. Journal of Physical<br>Chemistry A, 2000, 104, 7030-7035.   | 1.1 | 34        |
| 78 | Ab Initio Studies of ClOx Reactions: Prediction of the Rate Constants of ClO+NO for the Forward and Reverse Processes. ChemPhysChem, 2004, 5, 1864-1870.   | 1.0 | 34        |
| 79 | Kinetics of CN reactions with N2O and CO2. International Journal of Chemical Kinetics, 1991, 23, 151-160.  | 1.0 | 33        |
| 80 | A Comprehensive Kinetic Study of Thermal Reduction of NO2by H2. Journal of Physical Chemistry A, 1998, 102, 10099-10105.   | 1.1 | 33        |
| 81 | Theoretical studies of nitroamino radical reactions: Rate constants for the unimolecular<br>decomposition of HNNO2 and related bimolecular processes. Journal of Chemical Physics, 1998, 109,<br>8887-8896.              | 1.2 | 33        |
| 82 | Computational Study of the HCCO + NO Reaction:Â ab Initio MO/vRRKM Calculations of the Total Rate<br>Constant and Product Branching Ratios. Journal of Physical Chemistry A, 2003, 107, 1066-1076.                       | 1.1 | 32        |
| 83 | Ab Initio Chemical Kinetics for the Hydrolysis of N <sub>2</sub> O <sub>4</sub> Isomers in the Gas<br>Phase. Journal of Physical Chemistry A, 2012, 116, 4466-4472.  | 1.1 | 32        |
| 84 | Ab initio studies of ClOx reactions. I. Kinetics and mechanism for the OH+ClO reaction. Journal of Chemical Physics, 2002, 116, 7452-7460.   | 1.2 | 31        |
| 85 | Novel anthracene- and pyridine-containing Schiff base probe for selective "off–on―fluorescent<br>determination of Cu <sup>2+</sup> ions towards live cell application. New Journal of Chemistry, 2016,<br>40, 6101-6108. | 1.4 | 31        |
| 86 | Novel Bimolecular Reactions between NH3 and HNO3 in the Gas Phase. Journal of Physical Chemistry A,<br>1998, 102, 1808-1814.   | 1.1 | 30        |
| 87 | Computational Study on the Energetics of NCN Isomers and the Kinetics of the C + N2⇄ N + CN Reaction.<br>Journal of Physical Chemistry A, 2001, 105, 4156-4163.  | 1.1 | 30        |
| 88 | Thermal unimolecular decomposition of 1,3,5-trioxane: Comparison of theory and experiment.<br>International Journal of Chemical Kinetics, 1991, 23, 947-956.   | 1.0 | 29        |
| 89 | Thermal reaction of HNCO with NO2 at moderate temperatures. International Journal of Chemical Kinetics, 1993, 25, 845-863.   | 1.0 | 29        |
| 90 | Adsorption and Dissociation of H <sub>2</sub> O on a W(111) Surface:  A Computational Study. Journal of Physical Chemistry C, 2007, 111, 17333-17339.  | 1.5 | 29        |

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| 91  | Ab initio molecular orbital study of the O + C6H5O reaction. Journal of Physical Organic Chemistry, 1995, 8, 407-420.  | 0.9 | 28        |
| 92  | Ab Initio Studies of ClOx Reactions:  VI. Theoretical Prediction of Total Rate Constant and Product<br>Branching Probabilities for the HO2 + ClO Reaction. Journal of Physical Chemistry A, 2003, 107,<br>3841-3850.                         | 1.1 | 28        |
| 93  | Effects of nitric oxide on the thermal decomposition of methyl nitrite: Overall kinetics and rate constants for the HNO + HNO and HNO + 2NO reactions. International Journal of Chemical Kinetics, 1992, 24, 743-760.                        | 1.0 | 27        |
| 94  | Mechanism and Kinetics for Ammonium Perchlorate Sublimation: A First-principles Study. Journal of<br>Physical Chemistry C, 2008, 112, 14481-14485.   | 1.5 | 27        |
| 95  | Quantum Chemical Prediction of Pathways and Rate Constants for Reactions of CO and CO2 with<br>Vacancy Defects on Graphite (0001) Surfaces. Journal of Physical Chemistry C, 2009, 113, 18772-18777.   | 1.5 | 27        |
| 96  | FTIR and Mass-Spectrometric Measurements of the Rate Constant for the C6H5 + H2 Reaction. Journal of Physical Chemistry A, 1997, 101, 8839-8843.   | 1.1 | 26        |
| 97  | Development of Novel Mixed Halide/Superhalide Tin-Based Perovskites for Mesoscopic Carbon-Based<br>Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 2443-2448.  | 2.1 | 26        |
| 98  | Thermal reduction of NO by H2: Kinetic measurement and computer modeling of the HNO + NO reaction. International Journal of Chemical Kinetics, 1995, 27, 867-881.  | 1.0 | 25        |
| 99  | Product Branching Ratios in the NH2+ NO Reaction:Â A Re-Evaluation. Journal of Physical Chemistry A, 1999, 103, 8906-8907.   | 1.1 | 25        |
| 100 | Kinetics of C6H5 Radical Reactions with Toluene and Xylenes by Cavity Ringdown Spectrometry.<br>Journal of Physical Chemistry A, 1999, 103, 4002-4008.   | 1.1 | 25        |
| 101 | Theoretical study of reactions of N2O with NO and OH radicals. International Journal of Chemical Kinetics, 1996, 28, 693-703.  | 1.0 | 24        |
| 102 | Experimental and Computational Studies of the Phenyl Radical Reaction with Propyne. ChemPhysChem, 2005, 6, 2075-2085.  | 1.0 | 24        |
| 103 | Experimental and theoretical investigation of rate coefficients of the reaction S(P3)+OCS in the temperature range of 298–985K. Journal of Chemical Physics, 2006, 125, 164329.  | 1.2 | 24        |
| 104 | Kinetics of the reaction of C6H5 with HBr and DBr. International Journal of Chemical Kinetics, 1994, 26, 771-778.  | 1.0 | 23        |
| 105 | Kinetics and mechanisms for reactions of HNO with CH3 and C6 H5 studied by quantum-chemical and statistical-theory calculations. International Journal of Chemical Kinetics, 2005, 37, 261-274.  | 1.0 | 23        |
| 106 | Ab Initio Chemical Kinetics for the CH <sub>3</sub> + O( <sup>3</sup> P) Reaction and Related<br>Isomerization–Decomposition of CH <sub>3</sub> O and CH <sub>2</sub> OH Radicals. Journal of<br>Physical Chemistry A, 2015, 119, 7404-7417. | 1.1 | 23        |
| 107 | The thermal reaction of HNCO at moderate temperatures. International Journal of Chemical Kinetics, 1991, 23, 1129-1149.  | 1.0 | 22        |
| 108 | Kinetics and mechanism for the CH2O + NO2 reaction: A computational study. International Journal of<br>Chemical Kinetics, 2003, 35, 184-190.   | 1.0 | 22        |

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|-----|---|------------------|----------------------|
| 109 | Low-Pressure Organometallic Chemical Vapor Deposition of Indium Nitride on Titanium Dioxide<br>Nanoparticles. ChemPhysChem, 2004, 5, 1615-1618.   | 1.0              | 22                   |
| 110 | Mass-spectrometric determination of product branching probabilities for the NH2 + NO2 reaction at temperatures between 300 and 990 K. International Journal of Chemical Kinetics, 1996, 28, 879-883.                        | 1.0              | 21                   |
| 111 | Adsorption and Thermal Decomposition of Acetaldehyde on Si(111)-7×7. Journal of Physical Chemistry B, 1997, 101, 1872-1877.   | 1.2              | 21                   |
| 112 | Quantum chemical/vRRKM study on the thermal decomposition of cyclopentadiene. International<br>Journal of Chemical Kinetics, 2004, 36, 139-151.   | 1.0              | 21                   |
| 113 | Ab Initio Chemical Kinetic Study for Reactions of H Atoms with SiH <sub>4</sub> and<br>Si <sub>2</sub> H <sub>6</sub> : Comparison of Theory and Experiment. Journal of Physical Chemistry A,<br>2010, 114, 633-639.        | 1.1              | 21                   |
| 114 | Photodissociation Dynamics of Benzaldehyde (C <sub>6</sub> H <sub>5</sub> CHO) at 266, 248, and 193â€nm. Chemistry - an Asian Journal, 2011, 6, 2961-2976.  | 1.7              | 21                   |
| 115 | A novel mechanism for the isomerization of N <sub>2</sub> O <sub>4</sub> and its implication for the reaction with H <sub>2</sub> O and acid rain formation. International Journal of Quantum Chemistry, 2018, 118, e25560. | 1.0              | 21                   |
| 116 | Distinct Nanostructures and Organogel Driven by Reversible Molecular Switching of a<br>Tetraphenylethene-Involved Calix[4]arene-Based Amphiphilic [2]Rotaxane. Chemistry of Materials, 2018,<br>30, 7221-7233.              | 3.2              | 21                   |
| 117 | The Reaction of C6H5with CO:Â Kinetic Measurement and Theoretical Correlation with the Reverse<br>Process. Journal of Physical Chemistry A, 2000, 104, 1233-1239.   | 1.1              | 20                   |
| 118 | Adsorption Configurations and Reactions of Nitric Acid on TiO <sub>2</sub> Rutile (110) and Anatase (101) surfaces. Journal of Physical Chemistry C, 2009, 113, 6140-6149.  | 1.5              | 20                   |
| 119 | Rate constant for the NH3 + NO2 ? NH2 + HONO reaction: Comparison of kinetically modeled and predicted results. International Journal of Chemical Kinetics, 1997, 29, 245-251.  | 1.0              | 19                   |
| 120 | Experimental and Computational Studies of the Kinetics and Mechanisms for C6H5Reactions with Acetone-h6and -d6. Journal of Physical Chemistry A, 2003, 107, 7755-7761.  | 1.1              | 19                   |
| 121 | Ab Initio Studies of ClOxReactions. 3. Kinetics and Mechanism for the OH + OClO Reaction. Journal of Physical Chemistry A, 2003, 107, 1040-1049.  | 1.1              | 19                   |
| 122 | Ab initio Studies of ClOx Reactions: Prediction of the Rate Constants of ClO+NO2 for the Forward and Reverse Processes. ChemPhysChem, 2005, 6, 1514-1521.   | 1.0              | 19                   |
| 123 | Ab initio chemical kinetics for the NH <sub>2</sub> + HNO <sub><i>x</i></sub> Reactions, Part I:<br>Kinetics and Mechanism for NH <sub>2</sub> + HNO. International Journal of Chemical Kinetics, 2009,<br>41, 667-677.     | 1.0              | 19                   |
| 124 | <i>Ab initio</i> chemical kinetics for reactions of H atoms with SiH <i><sub>x</sub></i> ( <i>x</i> =) Tj ETQq0 0<br>Chemistry, 2013, 113, 1735-1746.   | 0 rgBT /C<br>1.0 | overlock 10 Tf<br>19 |
| 125 | Simultaneous Production and Surface Functionalization of Silver Nanoparticles for Label-free Colorimetric Detection of Copper Ion. Analytical Sciences, 2017, 33, 1115-1121.  | 0.8              | 19                   |
| 126 | Diversiform Nanostructures Constructed from Tetraphenylethene and Pyrene-Based Acid/Base<br>Controllable Molecular Switching Amphiphilic [2]Rotaxanes with Tunable Aggregation-Induced Static                               | 4.0              | 19                   |

Excimers. ACS Applied Materials & amp; Interfaces, 2020, 12, 45222-45234.

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| 127 | Ab initio MO and TST calculations for the rate constant of the HNO+NO2?HONO+NO reaction.<br>International Journal of Chemical Kinetics, 1998, 30, 729-736.   | 1.0 | 18        |
| 128 | A Model Study of COâ^'CO Adsorbate Interaction on Si(100)-2×1. Journal of Physical Chemistry B, 1999, 103, 7270-7276.  | 1.2 | 17        |
| 129 | Kinetic Studies of Aromatic Radical Reactions by Cavity-Ringdown Spectroscopy. ACS Symposium Series, 1999, , 196-209.  | 0.5 | 17        |
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