

# Thomas Autrey

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114  
papers

7,009  
citations

41  
h-index

82  
g-index

125  
ext. papers

7,523  
ext. citations

8.7  
avg, IF

5.73  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 114 | Analysis of Intermediates and Products from the Dehydrogenation of Mg(BH) <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , <b>2022</b> ,   | 2.8  | 1         |
| 113 | First-Principles Elucidation of Initial Dehydrogenation Pathways in Mg(BH) <sub>2</sub> . <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 1908-1913  | 6.4  | 0         |
| 112 | A comparison of hydrogen release kinetics from 5- and 6-membered 1,2-BN-cycloalkanes. <i>RSC Advances</i> , <b>2021</b> , 11, 34132-34136   | 3.7  | 1         |
| 111 | Thermal Conversion of Unsolvated Mg(B <sub>3</sub> H <sub>8</sub> ) <sub>2</sub> to BH <sub>4</sub> <sup>-</sup> in the Presence of MgH <sub>2</sub> . <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 3737-3747   | 6.1  | 7         |
| 110 | Effects of Glymes on the Distribution of Mg(B <sub>10</sub> H <sub>10</sub> ) and Mg(B <sub>12</sub> H <sub>12</sub> ) from the Thermolysis of Mg(BH <sub>4</sub> ) <sub>2</sub> . <i>Inorganics</i> , <b>2021</b> , 9, 41  | 2.9  | 2         |
| 109 | Mg(BH <sub>4</sub> ) <sub>2</sub> -Based Hybrid Metal-Organic Borohydride System Exhibiting Enhanced Chemical Stability in Melt. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 1704-1713   | 6.1  | 2         |
| 108 | Development of an Autothermal Formate-Based Hydrogen Generator: From Optimization of Formate Dehydrogenation Conditions to Thermal Integration with Fuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 9846-9856   | 8.3  | 14        |
| 107 | Physi-Sorption of H <sub>2</sub> on Pure and Boron-Doped Graphene Monolayers: A Dispersion-Corrected DFT Study. <i>Journal of Carbon Research</i> , <b>2020</b> , 6, 15   | 3.3  | 8         |
| 106 | Heterolytic Scission of Hydrogen Within a Crystalline Frustrated Lewis Pair. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 15295-15301   | 5.1  | 5         |
| 105 | Nanoconfinement of Molecular Magnesium Borohydride Captured in a Bipyridine-Functionalized Metal-Organic Framework. <i>ACS Nano</i> , <b>2020</b> , 14, 10294-10304   | 16.7 | 20        |
| 104 | Challenges and opportunities for using formate to store, transport, and use hydrogen. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 41, 216-224  | 12   | 32        |
| 103 | Solid-state hydrogen rich boron-nitrogen compounds for energy storage. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 5350-5380  | 58.5 | 55        |
| 102 | Reversible Hydrogen Uptake/Release over a Sodium Phenoxide-Cyclohexanolate Pair. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 3134-3139  | 3.6  | 2         |
| 101 | Immobilization of highly active bimetallic PdAu nanoparticles onto nanocarbons for dehydrogenation of formic acid. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18835-18839   | 13   | 28        |
| 100 | Structural and reorientational dynamics of tetrahydroborate (BH <sub>4</sub> <sup>-</sup> ) and tetrahydrofuran (THF) in a Mg(BH <sub>4</sub> ) <sub>2</sub> -THF adduct: neutron-scattering characterization. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 22, 368-378 | 3.6  | 3         |
| 99  | Reversible Hydrogen Uptake/Release over a Sodium Phenoxide-Cyclohexanolate Pair. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 3102-3107   | 16.4 | 17        |
| 98  | Complexation Chemistry in N,N-Dimethylformamide-Based Molecular Inks for Chalcogenide Semiconductors and Photovoltaic Devices. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 298-308   | 16.4 | 25        |

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| 97 | A solvent-switched in situ confinement approach for immobilizing highly-active ultrafine palladium nanoparticles: boosting catalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5544-5549                              | 13   | 42  |
| 96 | Releasing Hydrogen at High Pressures from Liquid Carriers: Aspects for the H <sub>2</sub> Delivery to Fueling Stations. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 10008-10015  | 4.1  | 17  |
| 95 | An assessment of strategies for the development of solid-state adsorbents for vehicular hydrogen storage. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2784-2812  | 35.4 | 97  |
| 94 | Tandem Nitrogen Functionalization of Porous Carbon: Toward Immobilizing Highly Active Palladium Nanoclusters for Dehydrogenation of Formic Acid. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2720-2724   | 13.1 | 121 |
| 93 | Calorimetric Study of the Activation of Hydrogen by Tris(pentafluorophenyl)borane and Trimesitylphosphine. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 8785-8790   | 2.8  | 15  |
| 92 | Hydrogen Storage in Formic Acid: A Comparison of Process Options. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 12603-12616  | 4.1  | 17  |
| 91 | Lewis Base Complexes of Magnesium Borohydride: Enhanced Kinetics and Product Selectivity upon Hydrogen Release. <i>Inorganics</i> , <b>2017</b> , 5, 89  | 2.9  | 14  |
| 90 | Blending materials composed of boron, nitrogen and carbon to transform approaches to liquid hydrogen stores. <i>Dalton Transactions</i> , <b>2016</b> , 45, 6196-203   | 4.3  | 6   |
| 89 | Selective reversible hydrogenation of Mg(B <sub>3</sub> H <sub>8</sub> ) <sub>2</sub> /MgH <sub>2</sub> to Mg(BH <sub>4</sub> ) <sub>2</sub> : pathway to reversible borane-based hydrogen storage?. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 4120-5 | 5.1  | 44  |
| 88 | Capacity enhancement of aqueous borohydride fuels for hydrogen storage in liquids. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 645, S196-S199   | 5.7  | 13  |
| 87 | Catalytic reduction of polar substrates without metals: A thermodynamic and kinetic study of heterolytic activation of hydrogen by vacancies in frustrated Lewis pairs. <i>Catalysis Today</i> , <b>2015</b> , 251, 28-33                                  | 5.3  | 33  |
| 86 | Bis-BN cyclohexane: a remarkably kinetically stable chemical hydrogen storage material. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 134-7   | 16.4 | 56  |
| 85 | Heterolysis of H <sub>2</sub> Across a Classical Lewis Pair, 2,6-Lutidine·BCl <sub>3</sub> : Synthesis, Characterization, and Mechanism. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 15713-9   | 4.8  | 4   |
| 84 | Kinetic and Thermodynamic Study of the Reduction of 1,1-Diphenylethylene by a Thermally Frustrated Diethyl Ether-BCF Lewis Pair. <i>Israel Journal of Chemistry</i> , <b>2015</b> , 55, 196-201  | 3.4  | 8   |
| 83 | Experimental and theoretical study of molecular response of amine bases in organic solvents. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 4883-8  | 3.4  | 9   |
| 82 | Methods to stabilize and destabilize ammonium borohydride. <i>Dalton Transactions</i> , <b>2013</b> , 42, 680-7  | 4.3  | 18  |
| 81 | A thermodynamic and kinetic study of the heterolytic activation of hydrogen by frustrated borane-amine Lewis pairs. <i>Dalton Transactions</i> , <b>2013</b> , 42, 615-9   | 4.3  | 39  |
| 80 | 3-Methyl-1,2-BN-cyclopentane: a promising H <sub>2</sub> storage material?. <i>Dalton Transactions</i> , <b>2013</b> , 42, 611-4   | 4.3  | 25  |

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| 79 | Understanding Vibrational Anharmonicity and Phonon Dispersion in Solid Ammonia Borane. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 5926-5931   | 3.8  | 10  |
| 78 | Role of Solvents on the Thermodynamics and Kinetics of Forming Frustrated Lewis Pairs. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 3312-3319   | 6.4  | 19  |
| 77 | First-Principles Prediction of Intermediate Products in the Decomposition of Metal Amidoboranes. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 26728-26734   | 3.8  | 7   |
| 76 | Boron-Nitrogen-Hydrogen (BNH) compounds: recent developments in hydrogen storage, applications in hydrogenation and catalysis, and new syntheses. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9257  | 35.4 | 208 |
| 75 | Immobilizing highly catalytically active Pt nanoparticles inside the pores of metal-organic framework: a double solvents approach. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 13926-9  | 16.4 | 692 |
| 74 | Mechanistic investigation on the formation and dehydrogenation of calcium amidoborane ammoniate. <i>ChemSusChem</i> , <b>2012</b> , 5, 927-31  | 8.3  | 10  |
| 73 | Analysis of the activation and heterolytic dissociation of H <sub>2</sub> by frustrated Lewis pairs: NH <sub>3</sub> /BX <sub>3</sub> (X = H, F, and Cl). <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 7228-37                                | 2.8  | 47  |
| 72 | Control of hydrogen release and uptake in amine borane molecular complexes: thermodynamics of ammonia borane, ammonium borohydride, and the diammoniate of diborane. <i>Faraday Discussions</i> , <b>2011</b> , 151, 157-69; discussion 199-212              | 3.6  | 34  |
| 71 | Characterization and mechanistic studies of the dehydrogenation of NH <sub>x</sub> BH <sub>x</sub> materials. <i>Current Opinion in Solid State and Materials Science</i> , <b>2011</b> , 15, 73-79  | 12   | 31  |
| 70 | The tetragonal-to-orthorhombic phase transformation in ammonia borane and in its deuterium substituted compounds. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, S709-S713  | 5.7  | 4   |
| 69 | Kinetic and thermodynamic investigation of hydrogen release from ethane 1,2-di-amineborane. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4187  | 35.4 | 58  |
| 68 | Reversible dehydrogenation of magnesium borohydride to magnesium triborane in the solid state under moderate conditions. <i>Chemical Communications</i> , <b>2011</b> , 47, 1330-2   | 5.8  | 136 |
| 67 | Hydrogen isotope effects on the structural phase transition of NH <sub>3</sub> BH <sub>3</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 7927-7931   | 6.7  | 2   |
| 66 | Synthesis, structure and dehydrogenation of magnesium amidoborane monoammoniate. <i>Chemical Communications</i> , <b>2010</b> , 46, 5752-4   | 5.8  | 59  |
| 65 | Characterization of a new phase of ammonia borane. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 796  | 35.4 | 47  |
| 64 | Hydrogen release studies of alkali metal amidoboranes. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 3905-10  | 5.1  | 106 |
| 63 | Thermal Stability of Ammonia Borane: A Case Study for Exothermic Hydrogen Storage Materials. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 2596-2606   | 4.1  | 50  |
| 62 | Theoretical investigations on the formation and dehydrogenation reaction pathways of H(NH <sub>2</sub> BH <sub>2</sub> ) <sub>(n)</sub> H (n = 1-4) oligomers: importance of dihydrogen interactions. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 7710-20 | 5.1  | 36  |

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| 61 | The diammoniate of diborane: crystal structure and hydrogen release. <i>Chemical Communications</i> , <b>2010</b> , 46, 8564-6  | 5.8  | 44 |
| 60 | Decomposition Pathway of Ammonia Borane on the Surface of Nano-BN. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 13935-13941  | 3.8  | 36 |
| 59 | Interaction of ammonia borane with Li <sub>2</sub> NH and Li <sub>3</sub> N. <i>Dalton Transactions</i> , <b>2010</b> , 39, 720-2   | 4.3  | 18 |
| 58 | High-capacity hydrogen storage in lithium and sodium amidoboranes <b>2010</b> , 276-279   |      |    |
| 57 | Decomposition of NH <sub>3</sub> BH <sub>3</sub> at sub-ambient pressures: A combined thermogravimetry-differential thermal analysis-mass spectrometry study. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 1615-1618                            | 8.9  | 29 |
| 56 | High-pressure hydrogen interactions with polyaminoborane and polyiminoborane. <i>ChemPhysChem</i> , <b>2010</b> , 11, 93-6  | 3.2  | 17 |
| 55 | Growth of crystalline polyaminoborane through catalytic dehydrogenation of ammonia borane on FeB nanoalloy. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 12814-7   | 4.8  | 39 |
| 54 | Pressure-induced complexation of NH(3)BH(3)-H(2). <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 224515  | 3.9  | 34 |
| 53 | Experimental and computational studies on collective hydrogen dynamics in ammonia borane: incoherent inelastic neutron scattering. <i>Journal of Chemical Physics</i> , <b>2009</b> , 130, 024507   | 3.9  | 25 |
| 52 | Bonding in boranes and their interaction with molecular hydrogen at extreme conditions. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 144508  | 3.9  | 16 |
| 51 | Hydrogen Dynamics and Characterization of the Tetragonal-to-Orthorhombic Phase Transformation in Ammonia Borane. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5872-5878  | 3.8  | 34 |
| 50 | Absence of the Structural Phase Transition in Ammonia Borane Dispersed in Mesoporous Silica: Evidence of Novel Thermodynamic Properties. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 10319-10321  | 3.8  | 63 |
| 49 | Hyperpolarized <sup>129</sup> Xe NMR Investigation of Ammonia Borane in Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 6485-6490  | 3.8  | 36 |
| 48 | Thermodynamic and Structural Investigations of Ammonium Borohydride, a Solid with a Highest Content of Thermodynamically and Kinetically Accessible Hydrogen. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 4356-4358                               | 9.6  | 48 |
| 47 | Determination of structure and phase transition of light element nanocomposites in mesoporous silica: case study of NH <sub>3</sub> BH <sub>3</sub> in MCM-41. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 13749-55            | 16.4 | 86 |
| 46 | Neutron powder diffraction and molecular simulation study of the structural evolution of ammonia borane from 15 to 340 K. <i>Journal of Physical Chemistry A</i> , <b>2009</b> , 113, 5723-35   | 2.8  | 53 |
| 45 | Defining active catalyst structure and reaction pathways from ab initio molecular dynamics and operando XAFS: dehydrogenation of dimethylaminoborane by rhodium clusters. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10516-24 | 16.4 | 63 |
| 44 | Promotion of Hydrogen Release from Ammonia Borane with Mechanically Activated Hexagonal Boron Nitride. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 1098-1103  | 3.8  | 87 |

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| 43 | An investigation of the structural phase transition of ammonia borane. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 521-522, 169-171   | 5.3  | 4   |
| 42 | High-capacity hydrogen storage in lithium and sodium amidoboranes. <i>Nature Materials</i> , <b>2008</b> , 7, 138-41  | 27   | 556 |
| 41 | Spectroscopic studies of the phase transition in ammonia borane: Raman spectroscopy of single crystal NH <sub>3</sub> BH <sub>3</sub> as a function of temperature from 88 to 330 K. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 034508                         | 3.9  | 80  |
| 40 | Automated gas burette system for evolved hydrogen measurements. <i>Review of Scientific Instruments</i> , <b>2008</b> , 79, 084103  | 1.7  | 32  |
| 39 | The Effects of Chemical Additives on the Induction Phase in Solid-State Thermal Decomposition of Ammonia Borane. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 5332-5336  | 9.6  | 183 |
| 38 | Materials for hydrogen storage: structure and dynamics of borane ammonia complex. <i>Dalton Transactions</i> , <b>2008</b> , 4514-22  | 4.3  | 41  |
| 37 | Synthesis of ammonia borane for hydrogen storage applications. <i>Energy and Environmental Science</i> , <b>2008</b> , 1, 156   | 35.4 | 214 |
| 36 | Interaction of lithium hydride and ammonia borane in THF. <i>Chemical Communications</i> , <b>2008</b> , 5595-7   | 5.8  | 67  |
| 35 | Iridium-catalyzed dehydrogenation of substituted amine boranes: kinetics, thermodynamics, and implications for hydrogen storage. <i>Inorganic Chemistry</i> , <b>2008</b> , 47, 8583-5  | 5.1  | 150 |
| 34 | The thermal decomposition of ammonia borane: A potential hydrogen storage material. <i>Current Applied Physics</i> , <b>2008</b> , 8, 498-500   | 2.6  | 86  |
| 33 | In situ multinuclear NMR spectroscopic studies of the thermal decomposition of ammonia borane in solution. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 7493-6  | 16.4 | 160 |
| 32 | In Situ Multinuclear NMR Spectroscopic Studies of the Thermal Decomposition of Ammonia Borane in Solution. <i>Angewandte Chemie</i> , <b>2008</b> , 120, 7603-7606  | 3.6  | 41  |
| 31 | Quasielastic neutron scattering of NH <sub>3</sub> and BH <sub>3</sub> rotational dynamics in orthorhombic ammonia borane. <i>Chemical Physics Letters</i> , <b>2008</b> , 459, 85-88   | 2.5  | 26  |
| 30 | In situ solid state <sup>11</sup> B MAS-NMR studies of the thermal decomposition of ammonia borane: mechanistic studies of the hydrogen release pathways from a solid state hydrogen storage material. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 1831-6 | 3.6  | 337 |
| 29 | When is a nanoparticle a cluster? An operando EXAFS study of amine borane dehydrocoupling by Rh(4-6) clusters. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 11936-49  | 16.4 | 134 |
| 28 | Spectroscopic studies of dehydrogenation of ammonia borane in carbon cryogel. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 14285-9   | 3.4  | 70  |
| 27 | Coherent carbon cryogel-ammonia borane nanocomposites for H <sub>2</sub> storage. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 7469-72   | 3.4  | 159 |
| 26 | Dynamics of ammonia borane using neutron scattering. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 385-386, 266-268  | 2.8  | 23  |

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|----|---|------|-----|
| 25 | Mechanistic Studies of Hydrogen Release from Solid Amine Borane Materials. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 927, 1  |      | 4   |
| 24 | In situ XAFS and NMR study of rhodium-catalyzed dehydrogenation of dimethylamine borane. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 3254-5  | 16.4 | 201 |
| 23 | Nanoscaffold mediates hydrogen release and the reactivity of ammonia borane. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 3578-82   | 16.4 | 711 |
| 22 | Nanoscaffold Mediates Hydrogen Release and the Reactivity of Ammonia Borane. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 3644-3648  | 3.6  | 93  |
| 21 | Thermochemistry of aqueous hydroxyl radical from advances in photoacoustic calorimetry and ab initio continuum solvation theory. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 3680-1  | 16.4 | 29  |
| 20 | Spectroscopic Studies of Tributylstannyl Radical. Rates of Formation, Termination, and Abstraction Determined by Transient Absorption Spectroscopy. <i>Organometallics</i> , <b>2004</b> , 23, 2080-2086  | 3.8  | 9   |
| 19 | Absolute rate constants for reactions of tributylstannyl radicals with bromoalkanes, episulfides, and alpha-halomethyl-episulfides, -cyclopropanes, and -oxiranes: new rate expressions for sulfur and bromine atom abstraction. <i>Journal of Organic Chemistry</i> , <b>2004</b> , 69, 1020-7 | 4.2  | 9   |
| 18 | Counting particles by means of optoacoustics: Potential limits in real solutions. <i>Review of Scientific Instruments</i> , <b>2003</b> , 74, 628-631   | 1.7  | 10  |
| 17 | Matrix isolation, time-resolved IR, and computational study of the photochemistry of benzoyl azide. <i>Physical Chemistry Chemical Physics</i> , <b>2003</b> , 5, 1010-1018   | 3.6  | 89  |
| 16 | Model compound studies of the beta-O-4 linkage in lignin: absolute rate expressions for beta-scission of phenoxy radical from 1-phenyl-2-phenoxyethanol-1-yl radical. <i>Journal of Organic Chemistry</i> , <b>2002</b> , 67, 7937-45   | 4.2  | 37  |
| 15 | Detection of trace levels of water in oil by photoacoustic spectroscopy. <i>Sensors and Actuators B: Chemical</i> , <b>2001</b> , 77, 620-624   | 8.5  | 46  |
| 14 | Tunable ultraviolet visible photoacoustic detection. <i>Analytica Chimica Acta</i> , <b>2001</b> , 434, 217-222   | 6.6  | 6   |
| 13 | Comparison of Diffusion Coefficients of Aryl Carbonyls and Aryl Alcohols in Hydroxylic Solvents. Evidence that the Diffusion of Ketyl Radicals in Hydrogen-Bonding Solvents Is Not Anomalous?. <i>Journal of Physical Chemistry A</i> , <b>2001</b> , 105, 5948-5953                            | 2.8  | 27  |
| 12 | Measurement of select radical processes in hydrocarbon pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2000</b> , 54, 37-64  | 6    | 12  |
| 11 | Listening to Colloidal Silica Samples: Simultaneous Measurement of Absorbed and Scattered Light Using Pulsed-Laser Photoacoustics. <i>Applied Spectroscopy</i> , <b>2000</b> , 54, 1142-1150  | 3.1  | 13  |
| 10 | Nanojoules, nanoliters and nanosecond calorimetry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1999</b> , 125, 13-19  | 4.7  | 8   |
| 9  | BeSE-Assisted Scission of Strong Bonds in Phenoxydiphenylmethanes. Competition between Hydrogen Atom Transfer and Free Radical Rearrangement Pathways. <i>Energy &amp; Fuels</i> , <b>1999</b> , 13, 927-933  | 4.1  | 5   |
| 8  | A new angle into time-resolved photoacoustic spectroscopy: A layered prism cell increases experimental flexibility. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 2246-2258   | 1.7  | 26  |

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| 7 | Mechanistic investigations of iron/sulfur-catalyzed bond scission in aromatic hydrocarbons. A catalytic hydrogen atom transfer step involving a late transition state. <i>Catalysis Today</i> , <b>1996</b> , 31, 105-111 | 5.3  | 14 |
| 6 | Solvent Cage Recombination of 4-Benzoylphenylthiyl Radicals: Fast Intersystem Crossing of Triplet Sulfur-Centered Radical Pairs. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 869-871                     |      | 18 |
| 5 | Solvent-Induced Scission of Diarylmethanes in Dihydroarene Donor Solvents: An Experimental and Mechanistic Modeling Study of Hydrogen-Transfer Pathways. <i>Energy &amp; Fuels</i> , <b>1995</b> , 9, 420-428             | 4.1  | 21 |
| 4 | Role of aromatic structure in pathways of hydrogen transfer and bond cleavage in coal liquefaction: Theoretical studies.. <i>Coal Science and Technology</i> , <b>1995</b> , 24, 1411-1414                                |      | 1  |
| 3 | The photochemistry of 3-nitrobenzoyl and 4-nitrobenzoyl azides: possible reagents for photoaffinity labeling. <i>Photochemistry and Photobiology</i> , <b>1988</b> , 47, 497-501  | 3.6  | 14 |
| 2 | Aroylnitrenes with singlet ground states: photochemistry of acetyl-substituted aroyl and aryloxycarbonyl azides. <i>Journal of the American Chemical Society</i> , <b>1988</b> , 110, 4297-4305                           | 16.4 | 52 |
| 1 | Are aroylnitrenes ground-state singlets? Photochemistry of .beta.-naphthoyl azide. <i>Journal of the American Chemical Society</i> , <b>1987</b> , 109, 5814-5820   | 16.4 | 40 |