

Jimmie C Oxley

List of Publications by Year in descending order

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82
papers

1,771
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304743

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37
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docs citations

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times ranked

1363
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Ammonium nitrate: thermal stability and explosivity modifiers. <i>Thermochimica Acta</i> , 2002, 384, 23-45. | 2.7 | 170 |
| 2 | Thermal decomposition of nitrate esters. <i>The Journal of Physical Chemistry</i> , 1991, 95, 3955-3960. | 2.9 | 105 |
| 3 | Raman and Infrared Fingerprint Spectroscopy of Peroxide-Based Explosives. <i>Applied Spectroscopy</i> , 2008, 62, 906-915. | 2.2 | 85 |
| 4 | Characterization and Analysis of Tetranitrate Esters. <i>Propellants, Explosives, Pyrotechnics</i> , 2012, 37, 24-39. | 1.6 | 80 |
| 5 | Thermal decomposition of ammonium nitrate-based composites. <i>Thermochimica Acta</i> , 1989, 153, 269-286. | 2.7 | 67 |
| 6 | The phase diagram of rdx (hexahydro-1,3,5-trinitro-s-triazine) under hydrostatic pressure. <i>High Pressure Research</i> , 1990, 2, 99-108. | 1.2 | 67 |
| 7 | Detection of Explosives in Hair Using Ion Mobility Spectrometry. <i>Journal of Forensic Sciences</i> , 2008, 53, 690-693. | 1.6 | 63 |
| 8 | Thermal Decomposition Studies on NTO and NTO/TNT. <i>The Journal of Physical Chemistry</i> , 1995, 99, 10383-10391. | 2.9 | 55 |
| 9 | Decomposition of multi-peroxidic compounds. <i>Thermochimica Acta</i> , 2002, 388, 215-225. | 2.7 | 44 |
| 10 | Decompositions of Urea and Guanidine Nitrates. <i>Journal of Energetic Materials</i> , 2008, 27, 17-39. | 2.0 | 44 |
| 11 | Fuel Combustion Additives: A Study of Their Thermal Stabilities and Decomposition Pathways. <i>Energy & Fuels</i> , 2000, 14, 1252-1264. | 5.1 | 43 |
| 12 | Thermal decomposition of high-nitrogen energetic compounds dihydrazido-S-tetrazine salts. <i>Thermochimica Acta</i> , 2002, 384, 91-99. | 2.7 | 40 |
| 13 | Role of intermolecular reactions in thermolysis of aromatic nitro compounds in supercritical aromatic solvents. <i>Journal of Organic Chemistry</i> , 1991, 56, 3306-3314. | 3.2 | 34 |
| 14 | Thermal Decomposition Pathways of 1,3,3-Trinitroazetidine (TNAZ), Related 3,3-Dinitroazetidium Salts, and 15N, 13C, and 2H Isotopomers. <i>Journal of Physical Chemistry A</i> , 1997, 101, 4375-4383. | 2.5 | 31 |
| 15 | Determination of Urea Nitrate and Guanidine Nitrate Vapor Pressures by Isothermal Thermogravimetry. <i>Propellants, Explosives, Pyrotechnics</i> , 2010, 35, 278-283. | 1.6 | 31 |
| 16 | Factors Influencing Triacetone Triperoxide (TATP) and Diacetone Diperoxide (DADP) Formation: Part I. <i>Propellants, Explosives, Pyrotechnics</i> , 2013, 38, 244-254. | 1.6 | 31 |
| 17 | Fast detection of triacetone triperoxide (TATP) from headspace using planar solid-phase microextraction (PSPME) coupled to an IMS detector. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 401-408. | 3.7 | 30 |
| 18 | Destruction of Peroxide Explosives. <i>Journal of Forensic Sciences</i> , 2009, 54, 1029-1033. | 1.6 | 28 |

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|----|---|-----|-----------|
| 19 | Heat-Release Behavior of Fuel Combustion Additives. <i>Energy & Fuels</i> , 2001, 15, 1194-1199. | 5.1 | 27 |
| 20 | Estimating Ambient Vapor Pressures of Low Volatility Explosives by Rising Temperature Thermogravimetry. <i>Propellants, Explosives, Pyrotechnics</i> , 2012, 37, 215-222. | 1.6 | 26 |
| 21 | Organometallic nitrosyl chemistry. 13. Reactions of sodium dihydrido-bis(2-methoxyethoxy)aluminate with some cationic and neutral nitrosyl complexes. <i>Inorganic Chemistry</i> , 1980, 19, 1565-1571. | 4.0 | 24 |
| 22 | Azo bond hydrogenation with hydrazine, R^2NHNH_2 , and hydrazobenzene. <i>Tetrahedron Letters</i> , 2008, 49, 3234-3237. | 1.4 | 24 |
| 23 | Aromatic nitration using nitroguanidine and EGDN. <i>Tetrahedron Letters</i> , 2008, 49, 4449-4451. | 1.4 | 24 |
| 24 | Mass Spectra of Unlabeled and Isotopically Labeled Hexamethylene Triperoxide Diamine (HMTD). <i>Propellants, Explosives, Pyrotechnics</i> , 2000, 25, 284-287. | 1.6 | 23 |
| 25 | Accumulation of Explosives in Hair. <i>Journal of Forensic Sciences</i> , 2005, 50, 1-6. | 1.6 | 23 |
| 26 | NTO Decomposition Products Tracked with ^{15}N Labels. <i>Journal of Physical Chemistry A</i> , 1997, 101, 3531-3536. | 2.5 | 22 |
| 27 | Synthesis and Degradation of Hexamethylene Triperoxide Diamine (HMTD). <i>Propellants, Explosives, Pyrotechnics</i> , 2016, 41, 334-350. | 1.6 | 21 |
| 28 | Acetonitrile Ion Suppression in Atmospheric Pressure Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1796-1804. | 2.8 | 21 |
| 29 | Decomposition of Azo- and Hydrazo-Linked Bis Triazines. <i>Journal of Energetic Materials</i> , 2009, 27, 63-93. | 2.0 | 18 |
| 30 | The risk of mixing dilute hydrogen peroxide and acetone solutions. <i>Journal of Chemical Health and Safety</i> , 2012, 19, 27-33. | 2.1 | 18 |
| 31 | Factors Influencing Triacetone Triperoxide (TATP) and Diacetone Diperoxide (DADP) Formation: Part 2. <i>Propellants, Explosives, Pyrotechnics</i> , 2013, 38, 841-851. | 1.6 | 18 |
| 32 | Mono- and bimetallic cationic dinitrosylmolybdenum complexes. <i>Inorganic Chemistry</i> , 1984, 23, 1053-1059. | 4.0 | 17 |
| 33 | Thermal Decomposition of Erythritol Tetranitrate: A Joint Experimental and Computational Study. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16145-16157. | 3.1 | 17 |
| 34 | Factors Influencing Destruction of Triacetone Triperoxide (TATP). <i>Propellants, Explosives, Pyrotechnics</i> , 2014, 39, 289-298. | 1.6 | 16 |
| 35 | Thermal Stability Studies Comparing IMX-101 (Dinitroanisole/Nitroguanidine/NTO) to Analogous Formulations Containing Dinitrotoluene. <i>Propellants, Explosives, Pyrotechnics</i> , 2016, 41, 98-113. | 1.6 | 16 |
| 36 | Potential Biocides: Iodine-Producing Pyrotechnics. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 960-973. | 1.6 | 16 |

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|----|--|-----|-----------|
| 37 | Training dogs to detect Triacetone Triperoxide (TATP)., 2004, , . | | 15 |
| 38 | Improvised Explosive Devices: Pipe Bombs. Journal of Forensic Sciences, 2001, 46, 510-534. | 1.6 | 15 |
| 39 | Accumulation of Explosives in Hairâ€™Part II: Factors Affecting Sorption*. Journal of Forensic Sciences, 2007, 52, 1291-1296. | 1.6 | 14 |
| 40 | Microstructural characterization of pipe bomb fragments. Materials Characterization, 2010, 61, 347-354. | 4.4 | 14 |
| 41 | Fuelâ€™oxidizer mixtures: their stabilities and burn characteristics. Journal of Thermal Analysis and Calorimetry, 2015, 121, 743-763. | 3.6 | 14 |
| 42 | Chemical attribution of the home-made explosive ETN â€™ Part I: Liquid chromatography-mass spectrometry analysis of partially nitrated erythritol impurities. Forensic Science International, 2020, 307, 110102. | 2.2 | 14 |
| 43 | Gasâ€™phase reactions of alcohols with hexamethylene triperoxide diamine (HMTD) under atmospheric pressure chemical ionization conditions. Rapid Communications in Mass Spectrometry, 2015, 29, 74-80. | 1.5 | 12 |
| 44 | Synthesis of ¹⁵ N-labeled isomers of 5-Nitro-2,4-Dihydro-3H-1,2,4-Triazol-3-One (NTO). Journal of Energetic Materials, 1995, 13, 93-105. | 2.0 | 11 |
| 45 | Role of Metal Ions in the Destruction of TATP: Theoretical Considerations. Journal of Physical Chemistry A, 2011, 115, 10565-10575. | 2.5 | 11 |
| 46 | Nitroaromatic explosive sorption and sensing using electrochemically processed polyaniline-titanium dioxide hybrid nanocomposite. Materials Chemistry and Physics, 2014, 143, 1431-1439. | 4.0 | 11 |
| 47 | Chemical attribution of the homemade explosive ETN - Part II: Isotope ratio mass spectrometry analysis of ETN and its precursors. Forensic Science International, 2020, 313, 110344. | 2.2 | 11 |
| 48 | Organometallic nitrosyl chemistry. 25. New organometallic hydrido nitrosyl complexes of tungsten. Organometallics, 1985, 4, 1263-1271. | 2.3 | 10 |
| 49 | Nitrato Amine Nitrates: Nitrate ester explosives with reduced impact sensitivity. Propellants, Explosives, Pyrotechnics, 1991, 16, 40-42. | 1.6 | 10 |
| 50 | Accumulation of Explosives in Hairâ€™Part 3: Binding Site Study*. Journal of Forensic Sciences, 2012, 57, 623-635. | 1.6 | 10 |
| 51 | Insensitive TATP Training Aid by Microencapsulation. Journal of Energetic Materials, 2015, 33, 215-228. | 2.0 | 10 |
| 52 | Using Gas Phase Reactions of Hexamethylene Triperoxide Diamine (HMTD) to Improve Detection in Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2018, 29, 675-684. | 2.8 | 10 |
| 53 | Characterizing the Performance of Pipe Bombs. Journal of Forensic Sciences, 2018, 63, 86-101. | 1.6 | 10 |
| 54 | Quantification and Aging of the Post-Blast Residue of TNT Landmines. Journal of Forensic Sciences, 2003, 48, 1-12. | 1.6 | 10 |

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|----|---|-----|-----------|
| 55 | Synthesis and Characterization of Urea Nitrate and Nitrourea. <i>Propellants, Explosives, Pyrotechnics</i> , 2013, 38, 335-344. | 1.6 | 9 |
| 56 | Reactions of Organic Peroxides with Alcohols in Atmospheric Pressure Chemical Ionization—the Pitfalls of Quantifying Triacetone Triperoxide (TATP). <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 393-404. | 2.8 | 9 |
| 57 | Mass Spectral Fragmentation Pathways in 1,3,3-Trinitroazetidine. <i>Journal of Mass Spectrometry</i> , 1997, 32, 525-532. | 1.6 | 8 |
| 58 | Small-scale explosivity testing. <i>Journal of Energetic Materials</i> , 1999, 17, 331-343. | 2.0 | 8 |
| 59 | Mass spectral fragmentation pathways in cyclic difluoramino and nitro compounds. <i>Journal of Mass Spectrometry</i> , 2000, 35, 841-852. | 1.6 | 8 |
| 60 | Efficiency of perchlorate consumption in road flares, propellants and explosives. <i>Journal of Environmental Management</i> , 2009, 90, 3629-3634. | 7.8 | 8 |
| 61 | Developing small-scale tests to predict explosivity. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 102, 597-603. | 3.6 | 7 |
| 62 | Eutectics of Erythritol Tetranitrate. <i>Journal of Physical Chemistry C</i> , 2017, 121, 16137-16144. | 3.1 | 7 |
| 63 | Metabolism of triacetone triperoxide (TATP) by canine cytochrome P450 2B11. <i>Forensic Toxicology</i> , 2019, 37, 174-185. | 2.4 | 7 |
| 64 | Paper spray ionization—high-resolution mass spectrometry (PSI-HRMS) of peroxide explosives in biological matrices. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 3069-3079. | 3.7 | 7 |
| 65 | Determining Explosivity Part II: Comparison of Small-Scale Cartridge Tests to Actual Pipe Bombs. <i>Journal of Forensic Sciences</i> , 2001, 46, 1070-1075. | 1.6 | 7 |
| 66 | Microwave-Modulated Photon Doppler Velocimetry. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 327-330. | 2.5 | 6 |
| 67 | In vitro and in vivo studies of triacetone triperoxide (TATP) metabolism in humans. <i>Forensic Toxicology</i> , 2021, 39, 59-72. | 2.4 | 6 |
| 68 | Trends in explosive contamination. <i>Journal of Forensic Sciences</i> , 2003, 48, 334-42. | 1.6 | 6 |
| 69 | Energetic Material/Polymer Interaction Studied by Atomic Force Microscopy. <i>Propellants, Explosives, Pyrotechnics</i> , 2016, 41, 623-628. | 1.6 | 4 |
| 70 | Quantification and aging of the post-blast residue of TNT landmines. <i>Journal of Forensic Sciences</i> , 2003, 48, 742-53. | 1.6 | 4 |
| 71 | Accumulation of explosives in hair. <i>Journal of Forensic Sciences</i> , 2005, 50, 826-31. | 1.6 | 4 |
| 72 | Fuel-oxidizer mixtures: a lab and field study. <i>Journal of Energetic Materials</i> , 2020, 38, 170-190. | 2.0 | 3 |

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|----|--|-----|-----------|
| 73 | A new polymorph of HMTD. Journal of Energetic Materials, 2021, 39, 361-376. | 2.0 | 3 |
| 74 | In vitro metabolism of HMTD and blood stability and toxicity of peroxide explosives (TATP and HMTD) in canines and humans. Xenobiotica, 2021, 51, 394-403. | 1.1 | 3 |
| 75 | Snapshot of ammonium nitrate: History and use. Process Safety Progress, 2020, 39, e12204. | 1.0 | 2 |
| 76 | Characterization of the Hexanitrate Esters of Sugar Alcohols. Propellants, Explosives, Pyrotechnics, 2021, 46, 579-592. | 1.6 | 2 |
| 77 | Characterization of encapsulated energetic materials for trace explosives aids for scent (TEAS). Journal of Energetic Materials, 2022, 40, 273-302. | 2.0 | 2 |
| 78 | What to Detect?. , 2006, , 35-41. | | 1 |
| 79 | Rheological studies of functional polyurethane composite. Journal of Elastomers and Plastics, 2018, 50, 222-240. | 1.5 | 1 |
| 80 | Rheological studies of functional polyurethane composite with solid additives. Journal of Elastomers and Plastics, 2018, 50, 312-324. | 1.5 | 1 |
| 81 | Homemade explosives. , 2022, , 383-422. | | 0 |
| 82 | Mass spectrometry of explosives. , 2022, , 77-161. | | 0 |