Jimmie C Oxley

List of Publications by Year
in descending order

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82 papers	1,771 citations	304743 22 h-index	330143 37 g-index
86 all docs	86 docs citations	86 times ranked	1363 citing authors

#	Article	IF	Citations
1	Characterization of encapsulated energetic materials for trace explosives aids for scent (TEAS). Journal of Energetic Materials, 2022, 40, 273-302.	2.0	2
2	Homemade explosives. , 2022, , 383-422.		0
3	Mass spectrometry of explosives. , 2022, , 77-161.		0
4	In vitro and in vivo studies of triacetone triperoxide (TATP) metabolism in humans. Forensic Toxicology, 2021, 39, 59-72.	2.4	6
5	A new polymorph of HMTD. Journal of Energetic Materials, 2021, 39, 361-376.	2.0	3
6	Characterization of the Hexanitrate Esters of Sugar Alcohols. Propellants, Explosives, Pyrotechnics, 2021, 46, 579-592.	1.6	2
7	Paper spray ionizationâ€“high-resolution mass spectrometry (PSI-HRMS) of peroxide explosives in biological matrices. Analytical and Bioanalytical Chemistry, 2021, 413, 3069-3079.	3.7	7
8	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
9	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
10	Fuel-oxidizer mixtures: a lab and field study. Journal of Energetic Materials, 2020, 38, 170-190.	2.0	3
11	Snapshot of ammonium nitrate: History and use. Process Safety Progress, 2020, 39, e12204.	1.0	2
12	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
13	Metabolism of triacetone triperoxide (TATP) by canine cytochrome P450 2B11. Forensic Toxicology, 2019, 37, 174-185.	2.4	7
14	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
15	Characterizing the Performance of Pipe Bombs. Journal of Forensic Sciences, 2018, 63, 86-101.	1.6	10
16	Rheological studies of functional polyurethane composite. Journal of Elastomers and Plastics, 2018, 50, 222-240.	1.5	1
17	Rheological studies of functional polyurethane composite with solid additives. Journal of Elastomers and Plastics, 2018, 50, 312-324.	1.5	1
18	Reactions of Organic Peroxides with Alcohols in Atmospheric Pressure Chemical Ionizationâ€”the Pitfalls of Quantifying Triacetone Triperoxide (TATP). Journal of the American Society for Mass Spectrometry, 2018, 29, 393-404.	2.8	9

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19	Eutectics of Erythritol Tetranitrate. Journal of Physical Chemistry C, 2017, 121, 16137-16144.	3.1	7
20	Potential Biocides: Iodineâ€Producing Pyrotechnics. Propellants, Explosives, Pyrotechnics, 2017, 42, 960-973.	1.6	16
21	Thermal Decomposition of Erythritol Tetranitrate: A Joint Experimental and Computational Study. Journal of Physical Chemistry C, 2017, 121, 16145-16157.	3.1	17
22	Synthesis and Degradation of Hexamethylene Triperoxide Diamine (HMTD). Propellants, Explosives, Pyrotechnics, 2016, 41, 334-350.	1.6	21
23	Energetic Material/Polymer Interaction Studied by Atomic Force Microscopy. Propellants, Explosives, Pyrotechnics, 2016, 41, 623-628.	1.6	4
24	Thermal Stability Studies Comparing IMXâ€101 (Dinitroanisole/Nitroguanidine/NTO) to Analogous Formulations Containing Dinitrotoluene. Propellants, Explosives, Pyrotechnics, 2016, 41, 98-113.	1.6	16
25	Acetonitrile Ion Suppression in Atmospheric Pressure Ionization Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2016, 27, 1796-1804.	2.8	21
26	Microwave-Modulated Photon Doppler Velocimetry. IEEE Photonics Technology Letters, 2016, 28, 327-330.	2.5	6
27	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
28	Fuelâ€“oxidizer mixtures: their stabilities and burn characteristics. Journal of Thermal Analysis and Calorimetry, 2015, 121, 743-763.	3.6	14
29	Insensitive TATP Training Aid by Microencapsulation. Journal of Energetic Materials, 2015, 33, 215-228.	2.0	10
30	Nitroaromatic explosive sorption and sensing using electrochemically processed polyaniline-titanium dioxide hybrid nanocomposite. Materials Chemistry and Physics, 2014, 143, 1431-1439.	4.0	11
31	Factors Influencing Destruction of Triacetone Triperoxide (TATP). Propellants, Explosives, Pyrotechnics, 2014, 39, 289-298.	1.6	16
32	Factors Influencing Triacetone Triperoxide (TATP) and Diacetone Diperoxide (DADP) Formation: Part I. Propellants, Explosives, Pyrotechnics, 2013, 38, 244-254.	1.6	31
33	Synthesis and Characterization of Urea Nitrate and Nitrourea. Propellants, Explosives, Pyrotechnics, 2013, 38, 335-344.	1.6	9
34	Factors Influencing Triacetone Triperoxide (TATP) and Diacetone Diperoxide (DADP) Formation: Part 2. Propellants, Explosives, Pyrotechnics, 2013, 38, 841-851.	1.6	18
35	Characterization and Analysis of Tetranitrate Esters. Propellants, Explosives, Pyrotechnics, 2012, 37, 24-39.	1.6	80
36	Estimating Ambient Vapor Pressures of Low Volatility Explosives by Risingâ€Temperature Thermogravimetry. Propellants, Explosives, Pyrotechnics, 2012, 37, 215-222.	1.6	26

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37	Fast detection of triacetone triperoxide (TATP) from headspace using planar solid-phase microextraction (PSPME) coupled to an IMS detector. Analytical and Bioanalytical Chemistry, 2012, 403, 401-408.	3.7	30
38	The risk of mixing dilute hydrogen peroxide and acetone solutions. Journal of Chemical Health and Safety, 2012, 19, 27-33.	2.1	18
39	Accumulation of Explosives in Hairâ€"Part 3: Binding Site Study*. Journal of Forensic Sciences, 2012, 57, 623-635.	1.6	10
40	Role of Metal Ions in the Destruction of TATP: Theoretical Considerations. Journal of Physical Chemistry A, 2011, 115, 10565-10575.	2.5	11
41	Developing small-scale tests to predict explosivity. Journal of Thermal Analysis and Calorimetry, 2010, 102, 597-603.	3.6	7
42	Microstructural characterization of pipe bomb fragments. Materials Characterization, 2010, 61, 347-354.	4.4	14
43	Determination of Urea Nitrate and Guanidine Nitrate Vapor Pressures by Isothermal Thermogravimetry. Propellants, Explosives, Pyrotechnics, 2010, 35, 278-283.	1.6	31
44	Efficiency of perchlorate consumption in road flares, propellants and explosives. Journal of Environmental Management, 2009, 90, 3629-3634.	7.8	8
45	Destruction of Peroxide Explosives. Journal of Forensic Sciences, 2009, 54, 1029-1033.	1.6	28
46	Decomposition of Azo- and Hydrazo-Linked Bis Triazines. Journal of Energetic Materials, 2009, 27, 63-93.	2.0	18
47	Azo bond hydrogenation with hydrazine, Râ€“NHNH2, and hydrazobenzene. Tetrahedron Letters, 2008, 49, 3234-3237.	1.4	24
48	Aromatic nitration using nitroguanidine and EGDN. Tetrahedron Letters, 2008, 49, 4449-4451.	1.4	24
49	Detection of Explosives in Hair Using Ion Mobility Spectrometry. Journal of Forensic Sciences, 2008, 53, 690-693.	1.6	63
50	Raman and Infrared Fingerprint Spectroscopy of Peroxide-Based Explosives. Applied Spectroscopy, 2008, 62, 906-915.	2.2	85
51	Decompositions of Urea and Guanidine Nitrates. Journal of Energetic Materials, 2008, 27, 17-39.	2.0	44
52	Accumulation of Explosives in Hairâ€"Part II: Factors Affecting Sorption*. Journal of Forensic Sciences, 2007, 52, 1291-1296.	1.6	14
53	What to Detect?. , 2006, , 35-41.		1
54	Accumulation of Explosives in Hair. Journal of Forensic Sciences, 2005, 50, 1-6.	1.6	23

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55	Accumulation of explosives in hair. Journal of Forensic Sciences, 2005, 50, 826-31.	1.6	4
56	Training dogs to detect Triacetone Triperoxide (TATP). , 2004, , .		15
57	Quantification and Aging of the Post-Blast Residue of TNT Landmines. Journal of Forensic Sciences, 2003, 48, 1-12.	1.6	10
58	Trends in explosive contamination. Journal of Forensic Sciences, 2003, 48, 334-42.	1.6	6
59	Quantification and aging of the post-blast residue of TNT landmines. Journal of Forensic Sciences, 2003, 48, 742-53.	1.6	4
60	Ammonium nitrate: thermal stability and explosivity modifiers. Thermochimica Acta, 2002, 384, 23-45.	2.7	170
61	Thermal decomposition of high-nitrogen energetic compoundsâ€"dihydrazido-S-tetrazine salts. Thermochimica Acta, 2002, 384, 91-99.	2.7	40
62	Decomposition of multi-peroxidic compounds. Thermochimica Acta, 2002, 388, 215-225.	2.7	44
63	Heat-Release Behavior of Fuel Combustion Additives. Energy & Fuels, 2001, 15, 1194-1199.	5.1	27
64	Improvised Explosive Devices: Pipe Bombs. Journal of Forensic Sciences, 2001, 46, 510-534.	1.6	15
65	Determining Explosivity Part II: Comparison of Small-Scale Cartridge Tests to Actual Pipe Bombs. Journal of Forensic Sciences, 2001, 46, 1070-1075.	1.6	7
66	Mass spectral fragmentation pathways in cyclic difluoramino and nitro compounds. Journal of Mass Spectrometry, 2000, 35, 841-852.	1.6	8
67	Mass Spectra of Unlabeled and Isotopically Labeled Hexamethylene Triperoxide Diamine (HMTD). Propellants, Explosives, Pyrotechnics, 2000, 25, 284-287.	1.6	23
68	Fuel Combustion Additives:â€‰ A Study of Their Thermal Stabilities and Decomposition Pathways. Energy & Fuels, 2000, 14, 1252-1264.	5.1	43
69	Small-scale explosivity testing. Journal of Energetic Materials, 1999, 17, 331-343.	2.0	8
70	NTO Decomposition Products Tracked with15N Labels. Journal of Physical Chemistry A, 1997, 101, 3531-3536.	2.5	22
71	Thermal Decomposition Pathways of 1,3,3-Trinitroazetidine (TNAZ), Related 3,3-Dinitroazetidium Salts, and 15N, 13C, and 2H Isotopomers. Journal of Physical Chemistry A, 1997, 101, 4375-4383.	2.5	31
72	Mass Spectral Fragmentation Pathways in 1,3,3-Trinitroazetidine. Journal of Mass Spectrometry, 1997, 32, 525-532.	1.6	8

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73	Synthesis of ¹⁵N-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
74	Thermal Decomposition Studies on NTO and NTO/TNT. The Journal of Physical Chemistry, 1995, 99, 10383-10391.	2.9	55
75	Thermal decomposition of nitrate esters. The Journal of Physical Chemistry, 1991, 95, 3955-3960.	2.9	105
76	Role of intermolecular reactions in thermolysis of aromatic nitro compounds in supercritical aromatic solvents. Journal of Organic Chemistry, 1991, 56, 3306-3314.	3.2	34
77	Nitrato Amine Nitrates: Nitrate ester explosives with reduced impact sensitivity. Propellants, Explosives, Pyrotechnics, 1991, 16, 40-42.	1.6	10
78	The phase diagram of rdx (hexahydro-1,3,5-trinitro-s-triazine) under hydrostatic pressure. High Pressure Research, 1990, 2, 99-108.	1.2	67
79	Thermal decomposition of ammonium nitrate-based composites. Thermochimica Acta, 1989, 153, 269-286.	2.7	67
80	Organometallic nitrosyl chemistry. 25. New organometallic hydrido nitrosyl complexes of tungsten. Organometallics, 1985, 4, 1263-1271.	2.3	10
81	Mono- and bimetallic cationic dinitrosylmolybdenum complexes. Inorganic Chemistry, 1984, 23, 1053-1059.	4.0	17
82	Organometallic nitrosyl chemistry. 13. Reactions of sodium dihydridobis(2-methoxyethoxy)aluminate with some cationic and neutral nitrosyl complexes. Inorganic Chemistry, 1980, 19, 1565-1571.	4.0	24