

Davin G Piercey

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

2,386
citations

304743

22
h-index

289244

40
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47
all docs

47
docs citations

47
times ranked

890
citing authors

#	ARTICLE	IF	CITATIONS
1	1,5-Diaminotetrazole-4 <i>N</i> -oxide (SYX-9): a new high-performing energetic material with a calculated detonation velocity over 10 km s ⁻¹ . <i>Journal of Materials Chemistry A</i> , 2022, 10, 1876-1884.	10.3	21
2	Electrochemical Synthesis of High-Nitrogen Materials and Energetic Materials. <i>Chemical Reviews</i> , 2022, 122, 8809-8840.	47.7	43
3	An Improved Synthesis of Bromotetrazole. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2022, 648, .	1.2	0
4	Progress and performance of energetic materials: open dataset, tool, and implications for synthesis. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11054-11073.	10.3	52
5	Synthesis of 5-Nitrotetrazolate via the Aqueous Oxidation of 5-Aminotetrazole. <i>Organic Process Research and Development</i> , 2022, 26, 1360-1364.	2.7	4
6	Energetic triazinium salts from N-amination of 3,5-diamino-6-nitro-1,2,4-triazine. <i>Energetic Materials Frontiers</i> , 2022, 3, 128-136.	3.2	3
7	3-Methyl-1,2,3-triazolium-1 <i>N</i> -dinitromethylide and the strategy of zwitterionic dinitromethyl groups in energetic materials design. <i>RSC Advances</i> , 2021, 11, 17710-17714.	3.6	3
8	Methyl sydnone imine and its energetic salts. <i>New Journal of Chemistry</i> , 2021, 45, 2228-2236.	2.8	6
9	Synthesis and Characterization of the Energetic 3-azido-5-amino-6-nitro-1,2,4-triazine. <i>Propellants, Explosives, Pyrotechnics</i> , 2021, 46, 214-221.	1.6	11
10	Heterocyclic Nitrilimines and Their Use in the Synthesis of Complex High-Nitrogen Materials. <i>Inorganic Chemistry</i> , 2021, 60, 7607-7611.	4.0	12
11	Energetic 1,2,4-Triazines: 3,5-Diamino-6-nitro-1,2,4-triazine and Its Oxide. <i>Crystal Growth and Design</i> , 2021, 21, 3922-3927.	3.0	14
12	1,3,4,5-Tetraamino-1,2,4-triazolium Cation: An Energetic Moiety. <i>Inorganic Chemistry</i> , 2021, 60, 9645-9652.	4.0	9
13	4,4- ² -Dinitrimino-5,5- ² -diamino-3,3- ² -azo-bis-1,2,4-triazole: A High-Performing Zwitterionic Energetic Material. <i>Inorganic Chemistry</i> , 2021, 60, 16204-16212.	4.0	9
14	Review of the Current Synthesis and Properties of Energetic Pentazolate and Derivatives Thereof. <i>Engineering</i> , 2020, 6, 981-991.	6.7	40
15	An Improved Synthesis of the Insensitive Energetic Material 3-amino-5-nitro-1,2,4-triazole (ANTA). <i>Propellants, Explosives, Pyrotechnics</i> , 2020, 45, 1621-1626.	1.6	16
16	Synthesis of 5-Nitrotetrazolates by the Direct Oxidation of 5-Aminotetrazole in a Single-Pot Synthesis without Isolation of Explosive Intermediates. <i>ChemPlusChem</i> , 2020, 85, 2039-2043.	2.8	10
17	Nitroacetonitrile as a versatile precursor in energetic materials synthesis. <i>RSC Advances</i> , 2020, 10, 39478-39484.	3.6	10
18	4,4- ² ,5,5- ² -Tetraamino-3,3- ² -azo-bis-1,2,4-triazole and the electrosynthesis of high-performing insensitive energetic materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19337-19347.	10.3	43

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19	Azasydnones and their use in Energetic Materials. <i>Energetic Materials Frontiers</i> , 2020, 1, 136-140.	3.2	10
20	Tailoring Energetic Sensitivity and Classification through Regioisomerism. <i>Organic Letters</i> , 2020, 22, 9114-9117.	4.6	29
21	Sensitive Energetics from the <i>N</i> -Amination of 4-Nitro-1,2,3-Triazole. <i>ChemistryOpen</i> , 2020, 9, 806-8119		11
22	Tetrazole Azasydnone (C ₂ N ₇ O ₂ H) And Its Salts: High-Performing Zwitterionic Energetic Materials Containing A Unique Explosophore. <i>Chemistry - A European Journal</i> , 2020, 26, 14530-14535.	3.3	53
23	Synthesis and Characterization of Salts of the 3,6-Dinitro-[1,2,4]triazolo[4,3-b][1,2,4]triazolate Anion: Insensitive Energetic Materials Available From Economical Precursors. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 1197-1204.	1.2	16
24	An Energetic Triazolo-1,2,4-Triazine and its N-Oxide. <i>Angewandte Chemie</i> , 2016, 128, 15541-15544.	2.0	36
25	An Energetic Triazolo-1,2,4-Triazine and its N-Oxide. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15315-15318.	13.8	166
26	An Energetic <i>N</i> -Oxide and <i>N</i> -Amino Heterocycle and its Transformation to 1,2,3,4-Tetrazine-1-oxide. <i>Propellants, Explosives, Pyrotechnics</i> , 2015, 40, 491-497.	1.6	35
27	Reaction of Copper(I) Nitrotetrazolate (DBX-1) with Sodium m-Periodate. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2014, 69, 125-127.	0.7	11
28	The Synthesis and Energetic Properties of 3,4-Bis(2,2,2-trinitroethylamino)furazan (BTNEDAF). <i>Propellants, Explosives, Pyrotechnics</i> , 2014, 39, 641-648.	1.6	22
29	The 1,3-Diamino-1,2,3-triazolium Cation: A Highly Energetic Moiety. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 1509-1517.	2.0	32
30	Preparation of High Purity Sodium 5-Nitrotetrazolate (NaN _T): An Essential Precursor to the Environmentally Acceptable Primary Explosive, DBX-1. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 681-688.	1.2	59
31	The 1,4,5-Triaminotetrazolium Cation (CN ₇ H ₆ ⁺): A Highly Nitrogen-Rich Moiety. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5694-5700.	2.0	24
32	1,3-Bis(nitroimido)-1,2,3-triazolate Anion, the <i>N</i> -Nitroimide Moiety, and the Strategy of Alternating Positive and Negative Charges in the Design of Energetic Materials. <i>Journal of the American Chemical Society</i> , 2012, 134, 20827-20836.	13.7	140
33	Pushing the limits of energetic materials - the synthesis and characterization of dihydroxylammonium 5,5-dinitro-1,1-diolate. <i>Journal of Materials Chemistry</i> , 2012, 22, 20418.	6.7	583
34	The Synthesis and Energetic Properties of 5,7-Dinitrobenzo-1,2,3,4-tetrazine-1,3-dioxide (DNBTDO). <i>Propellants, Explosives, Pyrotechnics</i> , 2012, 37, 527-535.	1.6	51
35	Copper Salts of Halo Tetrazoles: Laser-Ignitable Primary Explosives. <i>Journal of Energetic Materials</i> , 2012, 30, 40-54.	2.0	27
36	Amination of energetic anions: high-performing energetic materials. <i>Dalton Transactions</i> , 2012, 41, 9451.	3.3	144

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37	1,1'-Azobis(tetrazole): A Highly Energetic Nitrogen-Rich Compound with a N ₁₀ Chain. <i>Inorganic Chemistry</i> , 2011, 50, 2732-2734.	4.0	212
38	The Facile Synthesis and Energetic Properties of an Energetic Furoxan Lacking Traditional "Explosophore" Moieties: (E,E)-3,4-bis(oximomethyl)furoxan (DPX1). <i>Propellants, Explosives, Pyrotechnics</i> , 2011, 36, 160-167.	1.6	26
39	The Taming of CN ⁷⁻ : The Azidotetrazolate 2-Oxide Anion. <i>Chemistry - A European Journal</i> , 2011, 17, 13068-13077.	3.3	110
40	Nitrotetrazolate-2 <i>N</i> -oxides and the Strategy of <i>N</i> -Oxide Introduction. <i>Journal of the American Chemical Society</i> , 2010, 132, 17216-17226.	13.7	273
41	Titanium Superoxide for the Oxidation of Amines: Synthesis of bis(3-nitro-1,2,4-triazol-5-yl)methane and its Metal Salts. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 0, , .	1.2	2
42	Optimized Method to Achieve 1-Hydroxy-5-aminotetrazole (HAT). <i>Organic Process Research and Development</i> , 0, , .	2.7	2