

Davin G Piercey

List of Publications by Year in descending order

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42
papers

2,386
citations

304743

22
h-index

289244

40
g-index

47
all docs

47
docs citations

47
times ranked

890
citing authors

#	ARTICLE	IF	CITATIONS
1	Pushing the limits of energetic materials – the synthesis and characterization of dihydroxylammonium 5,5-bistetrazole-1,1-diolate. <i>Journal of Materials Chemistry</i> , 2012, 22, 20418.	6.7	583
2	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
3	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
4	An Energetic Triazolo-1,2,4-triazine and its <i>N</i> -Oxide. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15315-15318.	13.8	166
5	Amination of energetic anions: high-performing energetic materials. <i>Dalton Transactions</i> , 2012, 41, 9451.	3.3	144
6	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
7	The Taming of CN_7^{+} : The Azidotetrazolate <i>N</i> -Oxide Anion. <i>Chemistry - A European Journal</i> , 2011, 17, 13068-13077.	3.3	110
8	Preparation of High Purity Sodium 5-Nitrotetrazolate (NaNT): 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
9	Tetrazole Azasydnone ($C_2N_7O_2H$) 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
10	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
11	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
12	4,4,5,5-Tetraamino-3,3-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
13	Electrochemical Synthesis of High-Nitrogen Materials and Energetic Materials. <i>Chemical Reviews</i> , 2022, 122, 8809-8840.	47.7	43
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 Energetic Triazolo-1,2,4-triazine and its <i>N</i> -Oxide. <i>Angewandte Chemie</i> , 2016, 128, 15541-15544.	2.0	36
16	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
17	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
18	Tailoring Energetic Sensitivity and Classification through Regioisomerism. <i>Organic Letters</i> , 2020, 22, 9114-9117.	4.6	29

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19	Copper Salts of Halo Tetrazoles: Laser-Ignitable Primary Explosives. <i>Journal of Energetic Materials</i> , 2012, 30, 40-54.	2.0	27
20	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
21	The 1,4,5-Triaminotetrazolium Cation (CN7H6 ⁺): A Highly Nitrogen-Rich Moiety. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5694-5700.	2.0	24
22	The Synthesis and Energetic Properties of 3,4-bis(2,2-trinitroethylamino)furoxan (BTNEDAF). <i>Propellants, Explosives, Pyrotechnics</i> , 2014, 39, 641-648.	1.6	22
23	1,5-Diaminotetrazole-4-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
24	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
25	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
26	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
27	Heterocyclic Nitrilimines and Their Use in the Synthesis of Complex High-Nitrogen Materials. <i>Inorganic Chemistry</i> , 2021, 60, 7607-7611.	4.0	12
28	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
29	Sensitive Energetics from the N-Amination of 4-nitro-1,2,3-triazole. <i>ChemistryOpen</i> , 2020, 9, 806-811		11
30	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
31	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
32	Nitroacetonitrile as a versatile precursor in energetic materials synthesis. <i>RSC Advances</i> , 2020, 10, 39478-39484.	3.6	10
33	Azasydnones and their use in Energetic Materials. <i>Energetic Materials Frontiers</i> , 2020, 1, 136-140.	3.2	10
34	1,3,4,5-Tetraamino-1,2,4-triazolium Cation: An Energetic Moiety. <i>Inorganic Chemistry</i> , 2021, 60, 9645-9652.	4.0	9
35	4,4-dinitrimino-5,5-diamino-3,3-azo-bis-1,2,4-triazole: A High-Performing Zwitterionic Energetic Material. <i>Inorganic Chemistry</i> , 2021, 60, 16204-16212.	4.0	9
36	Methyl sydnone imine and its energetic salts. <i>New Journal of Chemistry</i> , 2021, 45, 2228-2236.	2.8	6

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37	Synthesis of 5-Nitrotetrazolate via the Aqueous Oxidation of 5-Aminotetrazole. Organic Process Research and Development, 2022, 26, 1360-1364.	2.7	4
38	3-Methyl-1,2,3-triazolium-1N-dinitromethylide and the strategy of zwitterionic dinitromethyl groups in energetic materials design. RSC Advances, 2021, 11, 17710-17714.	3.6	3
39	Energetic triazinium salts from N-amination of 3,5-diamino-6-nitro-1,2,4-triazine. Energetic Materials Frontiers, 2022, 3, 128-136.	3.2	3
40	Titanium Superoxide for the Oxidation of Amines: Synthesis of bis(3-nitro-1,2,4-triazol-5-yl)methane and its Metal Salts. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .	1.2	2
41	Optimized Method to Achieve 1-Hydroxy-5-aminotetrazole (HAT). Organic Process Research and Development, 0, , .	2.7	2
42	An Improved Synthesis of Bromotetrazole. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2022, 648, .	1.2	0