

Gregory H Imler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7030853/publications.pdf>

Version: 2024-02-01

65
papers

2,562
citations

159358

30
h-index

214527

47
g-index

65
all docs

65
docs citations

65
times ranked

809
citing authors

#	ARTICLE	IF	CITATIONS
1	Conjugated Energetic Salts Based on Fused Rings: Insensitive and Highly Dense Materials. <i>Journal of the American Chemical Society</i> , 2018, 140, 15001-15007.	6.6	134
2	Nitrogen-Rich Tetrazolo[1,5- <i>b</i>]pyridazine: Promising Building Block for Advanced Energetic Materials. <i>Journal of the American Chemical Society</i> , 2020, 142, 3652-3657.	6.6	132
3	Aminonitro Groups Surrounding a Fused Pyrazolotriazine Ring: A Superior Thermally Stable and Insensitive Energetic Material. <i>ACS Applied Energy Materials</i> , 2019, 2, 2263-2267.	2.5	111
4	Pushing the Limits of Oxygen Balance in 1,3,4-Oxadiazoles. <i>Journal of the American Chemical Society</i> , 2017, 139, 8816-8819.	6.6	106
5	Enforced Planar FOX-7-like Molecules: A Strategy for Thermally Stable and Insensitive π -Conjugated Energetic Materials. <i>Journal of the American Chemical Society</i> , 2020, 142, 7153-7160.	6.6	95
6	Polynitro-Functionalized Dipyrazolo[1,3,5]triazines: Energetic Polycyclization toward High Density and Excellent Molecular Stability. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8834-8838.	7.2	91
7	A Highly Stable and Insensitive Fused Triazolo-Triazine Explosive (TTX). <i>Chemistry - A European Journal</i> , 2017, 23, 1743-1747.	1.7	83
8	Multipurpose [1,2,4]triazolo[4,3- <i>b</i>][1,2,4,5] tetrazine-based energetic materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7875-7884.	5.2	83
9	Boosting energetic performance by trimerizing furoxan. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9391-9396.	5.2	73
10	Energetic salts of 4-nitramino-3-(5-dinitromethyl-1,2,4-oxadiazolyl)-fuzazan: powerful alliance towards good thermal stability and high performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16833-16837.	5.2	64
11	5-(Dinitromethyl)-3-(trinitromethyl)-1,2,4-triazole and its derivatives: a new application of oxidative nitration towards <i>gem</i> -trinitro-based energetic materials. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4785-4790.	5.2	61
12	Fused rings with <i>N</i> -oxide and NH_2 : good combination for high density and low sensitivity energetic materials. <i>Chemical Communications</i> , 2019, 55, 8979-8982.	2.2	59
13	Aminoacetonitrile as precursor for nitrogen rich stable and insensitive asymmetric N-methylene-C linked tetrazole-based energetic compounds. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16767-16775.	5.2	54
14	Polycyclic <i>N</i> -oxides: high performing, low sensitivity energetic materials. <i>Chemical Communications</i> , 2019, 55, 2461-2464.	2.2	53
15	Iodobenzene-Catalyzed Synthesis of Phenanthridinones via Oxidative C-H Amidation. <i>Journal of Organic Chemistry</i> , 2017, 82, 3589-3596.	1.7	52
16	Efficient Construction of Energetic Materials via Nonmetallic Catalytic Carbon-Carbon Cleavage/Oxime-Release-Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2018, 140, 3560-3563.	6.6	50
17	A C-C bonded 5,6-fused bicyclic energetic molecule: exploring an advanced energetic compound with improved performance. <i>Chemical Communications</i> , 2018, 54, 10566-10569.	2.2	48
18	Challenging the Limits of Nitro Groups Associated with a Tetrazole Ring. <i>Organic Letters</i> , 2019, 21, 4684-4688.	2.4	46

#	ARTICLE	IF	CITATIONS
19	Energetic derivatives of 4,4-dinitro-5,5-tetranitro-2,2,3,3-bipyrazole (TNBP): synthesis, characterization and promising properties. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5136-5142.	5.2	44
20	Multipurpose Energetic Materials by Shuffling Nitro Groups on a 3,3-Bipyrazole Moiety. <i>Chemistry - A European Journal</i> , 2018, 24, 17220-17224.	1.7	44
21	Asymmetric nitrogen-rich energetic materials resulting from the combination of tetrazolyl, dinitromethyl and (1,2,4-oxadiazol-5-yl)nitroamino groups with furoxan. <i>Dalton Transactions</i> , 2018, 47, 16558-16566.	1.6	43
22	Construction of Polynitro Compounds as High-Performance Oxidizers via a Two-Step Nitration of Various Functional Groups. <i>Organic Letters</i> , 2019, 21, 1073-1077.	2.4	43
23	Energetic Derivatives of 8-Nitropyrazolo[1,5-a][1,3,5]triazine-2,4,7-triamine: Achieving Balanced Explosives by Fusing Pyrazole with Triazine. <i>Organic Letters</i> , 2020, 22, 1321-1325.	2.4	42
24	Ring closure of polynitroazoles via an N,N-alkylene bridge: towards high thermally stable energetic compounds. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8382-8387.	5.2	40
25	3,4,5-Trinitro-1-(nitromethyl)-1H-pyrazole (TNNMP): a perchlorate free high energy density oxidizer with high thermal stability. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10437-10441.	5.2	39
26	Energetic furazan-triazole hybrid with dinitromethyl and nitramino groups: decreasing sensitivity via the formation of a planar anion. <i>Dalton Transactions</i> , 2019, 48, 7677-7684.	1.6	39
27	Nitromethane Bridged Bis(1,3,4-oxadiazoles): Trianionic Energetic Salts with Low Sensitivities. <i>Chemistry - A European Journal</i> , 2017, 23, 17682-17686.	1.7	38
28	Ammonia Oxide as a Building Block for High-Performance and Insensitive Energetic Materials. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5894-5898.	7.2	35
29	Selecting Suitable Substituents for Energetic Materials Based on a Fused Triazolo-[1,2,4,5]tetrazine Ring. <i>ACS Applied Energy Materials</i> , 2020, 3, 5510-5516.	2.5	33
30	Design and synthesis of N-methylene-C linked tetrazole and nitramino-1,2,4-triazole: an approach to promising energetic materials. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13923-13929.	5.2	32
31	Energetic dinitromethyl group functionalized azofurazan and its azofurazanates. <i>RSC Advances</i> , 2016, 6, 91477-91482.	1.7	32
32	N-Acetonitrile Functionalized Nitropyrazoles: Precursors to Insensitive Asymmetric N-Methylene Linked Azoles. <i>Chemistry - A European Journal</i> , 2017, 23, 7876-7881.	1.7	32
33	Green Synthetic Approach for High-Performance Energetic Nitramino Azoles. <i>Organic Letters</i> , 2019, 21, 2610-2614.	2.4	29
34	Azo- and methylene-bridged mixed azoles for stable and insensitive energetic applications. <i>Dalton Transactions</i> , 2020, 49, 11498-11503.	1.6	29
35	Tetrazolyl Triazolotriazine: A New Insensitive High Explosive. <i>Propellants, Explosives, Pyrotechnics</i> , 2017, 42, 238-242.	1.0	28
36	Energetic Functionalized Azido/Nitro Imidazole Fused 1,2,3,4-Tetrazine. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2273-2276.	1.2	28

#	ARTICLE	IF	CITATIONS
37	Oxidative Cyclization Protocol for the Preparation of Energetic 3-Amino-5- <i>R</i> -1,2,4-oxadiazoles. <i>Organic Letters</i> , 2018, 20, 8039-8042.	2.4	28
38	Synthesis of Erythritol Tetranitrate Derivatives: Functional Group Tuning of Explosive Sensitivity. <i>Journal of Organic Chemistry</i> , 2020, 85, 4619-4626.	1.7	28
39	Tetrazolyl and dinitromethyl groups with 1,2,3-triazole lead to polyazole energetic materials. <i>Dalton Transactions</i> , 2019, 48, 3237-3242.	1.6	27
40	Nitramino- and Dinitromethyl-Substituted 1,2,4-Triazole Derivatives as High-Performance Energetic Materials. <i>Chemistry - A European Journal</i> , 2017, 23, 9185-9191.	1.7	25
41	Derivatives of 3,6-Bis(3-aminofurazan-4-ylamino)-1,2,4,5-tetrazine: Excellent Energetic Properties with Lower Sensitivities. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 31522-31531.	4.0	25
42	Energetic 1,2,5-Oxadiazolo-Pyridazine and its N-Oxide. <i>Chemistry - A European Journal</i> , 2017, 23, 15022-15025.	1.7	23
43	Control of Biohazards: A High Performance Energetic Polycyclized Iodine-Containing Biocide. <i>Inorganic Chemistry</i> , 2018, 57, 8673-8680.	1.9	23
44	Intermolecular Weak Hydrogen Bonding (Het-H-N/O): an Effective Strategy for the Synthesis of Monosubstituted 1,2,4,5-Tetrazine-Based Energetic Materials with Excellent Sensitivity. <i>Journal of Organic Chemistry</i> , 2019, 84, 16019-16026.	1.7	23
45	Energetic 4,4'-Oxybis[3,3'-(1-hydroxytetrazolyl)]furazan and Its Salts. <i>Chemistry - an Asian Journal</i> , 2016, 11, 3113-3117.	1.7	22
46	Dinitromethyl-(5)-1,2,4-Oxadiazole Derivatives from Controllable Cyclization Strategies. <i>Chemistry - A European Journal</i> , 2017, 23, 16401-16407.	1.7	22
47	New Generation Agent Defeat Weapons: Energetic N, N'-Ethylene-Bridged Polyiodoazoles. <i>Chemistry - A European Journal</i> , 2017, 23, 16753-16757.	1.7	22
48	Polynitro-Functionalized Dipyrazolo-1,3,5-Triazinanes: Energetic Polycyclization toward High Density and Excellent Molecular Stability. <i>Angewandte Chemie</i> , 2017, 129, 8960-8964.	1.6	22
49	Versatile functionalization of 3,5-diamino-4-nitropyrzazole for promising insensitive energetic compounds. <i>Dalton Transactions</i> , 2019, 48, 14490-14496.	1.6	22
50	Finding furoxan rings. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5859-5864.	5.2	22
51	Resolving synthetic challenges faced in the syntheses of asymmetric <i>N,N'</i> -ethylene-bridged energetic compounds. <i>New Journal of Chemistry</i> , 2017, 41, 4040-4047.	1.4	21
52	Simple and Efficient Synthesis of Explosive Cocrystals containing 3,5-Dimethylpyrazolo- <i>N,N'</i> -substituted-1,2,4,5-tetrazines. <i>Chemistry - A European Journal</i> , 2017, 23, 16466-16471.	1.7	21
53	One-pot sequential reaction to 2-substituted-phenanthridinones from <i>N</i> -methoxybenzamides. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4390-4398.	1.5	20
54	1,3,5-Triiodo-2,4,6-trinitrobenzene (TITNB) from benzene: Balancing performance and high thermal stability of functional energetic materials. <i>Chemical Engineering Journal</i> , 2019, 378, 122119.	6.6	18

#	ARTICLE	IF	CITATIONS
55	<i>N,N</i> -Methylenebis(<i>N</i> -(1,2,5-oxadiazol-3-yl)nitramide) derivatives as metal-free green primary explosives. Dalton Transactions, 2018, 47, 12661-12666.	1.6	17
56	Functional energetic biocides by coupling of energetic and biocidal polyiodo building blocks. Chemical Engineering Journal, 2019, 368, 244-251.	6.6	16
57	Improving the density and properties of nitrogen-rich scaffolds by the introduction of a C≡NO ₂ group. New Journal of Chemistry, 2018, 42, 16162-16166.	1.4	13
58	C ₆ N ₁₀ O ₄ : Thermally Stable Nitrogen-Rich Inner Bis(diazonium) Zwitterions. Organic Letters, 2019, 21, 8201-8204.	2.4	13
59	Synergetic Explosive Performance through Cocrystallization. Crystal Growth and Design, 2021, 21, 1401-1405.	1.4	12
60	Trimerization of 4-Amino-5-dinitropyrazole: Formation, Preparation, and Characterization of 4-Diazo-5-bis(4-amino-5-dinitropyrazol-1-yl) pyrazole (LLM-226). Journal of Heterocyclic Chemistry, 2019, 56, 781-787.	1.0	10
61	gem-Dinitromethyl-Functionalized 5-Amino-1,3,4-oxadiazolate Derivatives: Alternate Route, Characterization, and Property Analysis. Organic Letters, 2020, 22, 4771-4775.	2.4	10
62	Ammonia Oxide as a Building Block for High-Performance and Insensitive Energetic Materials. Angewandte Chemie, 2017, 129, 5988-5992.	1.6	8
63	Evaluating the bis-isoxazole core for energetic heterocyclic-based oligomers. Polymer Chemistry, 2020, 11, 6149-6156.	1.9	2
64	Triple allylation/acylation of 1,3,5-triazine with allyltributyltin and carboxylic acid chlorides. Tetrahedron Letters, 2020, 61, 151776.	0.7	2
65	Nitrolysis of syn,syn-2,4,6-tris-(n-propyl)-hexahydro-1,3,5-tripropionyl-s-triazine. Tetrahedron Letters, 2020, 61, 152665.	0.7	0