

Lauren A Mitchell

List of Publications by Year in descending order

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papers

2,325
citations

257101

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43
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47
docs citations

47
times ranked

1245
citing authors

#	ARTICLE	IF	CITATIONS
1	Enforced Layer-by-Layer Stacking of Energetic Salts towards High-Performance Insensitive Energetic Materials. <i>Journal of the American Chemical Society</i> , 2015, 137, 10532-10535.	6.6	306
2	Energetic Salts Based on 3,5-Bis(dinitromethyl)-1,2,4-triazole Monoanion and Dianion: Controllable Preparation, Characterization, and High Performance. <i>Journal of the American Chemical Society</i> , 2016, 138, 7500-7503.	6.6	167
3	Potassium 4,4'-Bis(dinitromethyl)-3,3'-azobifurazanate: A Highly Energetic 3D Metal-Organic Framework as a Promising Primary Explosive. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5565-5567.	7.2	152
4	Taming of 3,4-Di(nitramino)furazan. <i>Journal of the American Chemical Society</i> , 2015, 137, 15984-15987.	6.6	146
5	Azido and Tetrazolo 1,2,4,5-Tetrazine N-Oxides. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3575-3578.	7.2	126
6	Mechanistic Insights into the Alternating Copolymerization of Epoxides and Cyclic Anhydrides Using a (Salph)AlCl and Iminium Salt Catalytic System. <i>Journal of the American Chemical Society</i> , 2017, 139, 15222-15231.	6.6	125
7	3,6-Dinitropyrazolo[4,3-c]pyrazole-Based Multipurpose Energetic Materials through Versatile N-Functionalization Strategies. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12895-12897.	7.2	96
8	Energetic compounds consisting of 1,2,5- and 1,3,4-oxadiazole rings. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23143-23148.	5.2	77
9	Syntheses and Promising Properties of Dense Energetic 5,5-Dinitramino-3,3'-azobifurazan-1,2,4-oxadiazole and Its Salts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3200-3203.	7.2	75
10	Energetic Trinitro- and Fluorodinitroethyl Ethers of 1,2,4,5-Tetrazines. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8666-8669.	7.2	74
11	N-Oxides light up energetic performances: synthesis and characterization of dinitraminobisfuroxans and their salts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8969-8973.	5.2	72
12	Energetic N-Nitramino-N-oxyl-Functionalized Pyrazoles with Versatile π - π Stacking: Structure-Property Relationships of High-Performance Energetic Materials. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14409-14411.	7.2	70
13	Energetic aminated-azole assemblies from intramolecular and intermolecular N-H \cdots O and N-H \cdots N hydrogen bonds. <i>Chemical Communications</i> , 2016, 52, 8123-8126.	2.2	60
14	Enhancing Energetic Properties and Sensitivity by Incorporating Amino and Nitramino Groups into a 1,2,4-Oxadiazole Building Block. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1147-1150.	7.2	58
15	N-functionalized nitroxy/azido fused-ring azoles as high-performance energetic materials. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7430-7436.	5.2	55
16	Connecting energetic nitropyrazole and aminotetrazole moieties with N,N'-ethylene bridges: A promising approach for fine tuning energetic properties. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9220-9228.	5.2	54
17	Enhanced Luminance of Electrochemical Cells with a Rationally Designed Ionic Iridium Complex and an Ionic Additive. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8888-8892.	4.0	54
18	C-N bonded energetic biheterocyclic compounds with good detonation performance and high thermal stability. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3879-3885.	5.2	51

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19	Asymmetric <i>N,N'</i> -ethylene-bridged azole-based compounds: Two way control of the energetic properties of compounds. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9931-9940.	5.2	47
20	Bridged bisnitramide-substituted furazan-based energetic materials. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16961-16967.	5.2	44
21	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
22	Comparative Study of Various Pyrazole-based Anions: A Promising Family of Ionic Derivatives as Insensitive Energetic Materials. <i>Chemistry - an Asian Journal</i> , 2017, 12, 378-384.	1.7	35
23	Small Cation-Based High-Performance Energetic Nitraminofurazanates. <i>Chemistry - A European Journal</i> , 2016, 22, 11846-11853.	1.7	33
24	Electrophilic iodination: a gateway to high iodine compounds and energetic materials. <i>Dalton Transactions</i> , 2016, 45, 13827-13833.	1.6	25
25	Polymeric Materials for the Separation of <i>f</i> -Elements Utilizing Carbamoylmethylphosphine Oxide Chelating Ligands. <i>ACS Macro Letters</i> , 2016, 5, 1100-1103.	2.3	24
26	Syntheses and Promising Properties of Dense Energetic 5,5-Dinitramino-3,3-diazo-1,2,4-oxadiazole and Its Salts. <i>Angewandte Chemie</i> , 2016, 128, 3252-3255.	1.6	22
27	5-(4-Azidofurazan-3-yl)-1-hydroxytetrazole and its derivatives: from green primary to secondary explosives. <i>New Journal of Chemistry</i> , 2019, 43, 12684-12689.	1.4	22
28	Facile Synthesis of Spirocyclic Lactams from \hat{I}^2 -Keto Carboxylic Acids. <i>Organic Letters</i> , 2015, 17, 3070-3073.	2.4	21
29	Mono- and diiodo-1,2,3-triazoles and their mono nitro derivatives. <i>Dalton Transactions</i> , 2016, 45, 9684-9688.	1.6	20
30	3,6-Dinitropyrazolo[4,3- <i>c</i>]pyrazole-Based Multipurpose Energetic Materials through Versatile <i>N</i> -Functionalization Strategies. <i>Angewandte Chemie</i> , 2016, 128, 13087-13089.	1.6	20
31	Why So Slow? Mechanistic Insights from Studies of a Poor Catalyst for Polymerization of $\hat{\mu}$ -Caprolactone. <i>Inorganic Chemistry</i> , 2017, 56, 725-728.	1.9	20
32	Azido and Tetrazolo 1,2,4,5-Tetrazine <i>N</i> -Oxides. <i>Angewandte Chemie</i> , 2017, 129, 3629-3632.	1.6	19
33	Enhancing Energetic Properties and Sensitivity by Incorporating Amino and Nitramino Groups into a 1,2,4-Oxadiazole Building Block. <i>Angewandte Chemie</i> , 2016, 128, 1159-1162.	1.6	18
34	Energetic Trinitro- and Fluorodinitroethyl Ethers of 1,2,4,5-Tetrazines. <i>Angewandte Chemie</i> , 2016, 128, 8808-8811.	1.6	17
35	From FOX-7 to H-FOX to insensitive energetic materials with hypergolic properties. <i>Chemical Communications</i> , 2016, 52, 7668-7671.	2.2	17
36	Energetic <i>N,N'</i> -Nitramino- <i>N,N'</i> -Oxyl-Functionalized Pyrazoles with Versatile $\hat{\pi}$ - $\hat{\pi}$ Stacking: Structure-Property Relationships of High-Performance Energetic Materials. <i>Angewandte Chemie</i> , 2016, 128, 14621-14623.	1.6	16

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37	Dual-catalytic decarbonylation of fatty acid methyl esters to form olefins. <i>Chemical Communications</i> , 2018, 54, 7669-7672.	2.2	12
38	A Halogen-Free Green High Energy Density Oxidizer from HFOX. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3142-3145.	1.2	10
39	Incorporation of Thieno[3,2- <i>b</i>]thiophene Moieties as Novel Electropolymerizable Groups in a Conducting Metallopolymer and Study of the Effect on Photostability. <i>Macromolecular Rapid Communications</i> , 2015, 36, 665-670.	2.0	8
40	Ammonia Oxide as a Building Block for High-Performance and Insensitive Energetic Materials. <i>Angewandte Chemie</i> , 2017, 129, 5988-5992.	1.6	8
41	A comparison of 3,4,6a,7,10,10a-hexahydro-7,10-epoxyrimido[2,1- <i>a</i>]isoindol-6(2H)-one and 2-(2-aminoethyl)-3a,4,7,7a-tetrahydro-1H-4,7-epoxyisoindole-1,3(2H)-dione: structural and reactivity differences of two homologous tricyclic imides. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013, 69, 638-641.	0.4	4
42	5-Phenyl-1,2,5-dithiazepane. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o285-o285.	0.2	1
43	6-Bromo-N-(6-bromopyridin-2-yl)-N-[4-(2,3-dihydrothieno[3,4- <i>b</i>][1,4]dioxin-5-yl)phenyl]pyridin-2-amine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o797-o797.	0.2	0
44	4-(2,3-Dihydrothieno[3,4- <i>b</i>][1,4]dioxin-5-yl)aniline. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o803-o803.	0.2	0
45	(E)-4-[7-(2,3-Dihydrothieno[3,4- <i>b</i>][1,4]dioxin-5-yl)-2,1,3-benzothiadiazol-4-yl]-2-[(neopentylimino)methyl]phenol. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o848-o849.	0.2	0