Thomas M KlapÃ¶tke

List of Publications by Year
in descending order

850 papers	27,189 citations	10986 71 h-index	21540 114 g-index
966 all docs	966 docs citations	966 times ranked	8298 citing authors

#	Article	IF	Citations
1	Making progress towards promising energetic cellulosic microcrystals developed from alternative lignocellulosic biomasses. Journal of Energetic Materials, 2024, 42, 97-122.	2.0	14
2	Chemical design and characterization of cellulosic derivatives containing high-nitrogen functional groups: Towards the next generation of energetic biopolymers. Defence Technology, 2022, 18, 537-546.	4.2	27
3	Hybridization of Dinitramide and Dicyanamide: Evaluation of Nitrocyanamide in Energetic Salts and Coordination Compounds. Crystal Growth and Design, 2022, 22, 200-212.	3.0	3
4	Valorization of Esparto Grass Cellulosic Derivatives for the Development of Promising Energetic Azidodeoxy Biopolymers: Synthesis, Characterization and Isoconversional Thermal Kinetic Analysis. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.6	23
5	Towards investigating the characteristics and thermal kinetic behavior ofÂemergent nanostructured nitrocellulose prepared using various sulfonitric media. Journal of Nanostructure in Chemistry, 2022, 12, 963-977.	9.1	27
6	Investigation of deuterated FOX-7 â€“ changes in structural behavior and energetic characteristics after deuteration under ambient conditions. Dalton Transactions, 2022, 51, 5788-5791.	3.3	3
7	Krapcho Decarboxylation of Ethyl-Carbazate: Synthetic Approach toward 1,1â€²-Diamino-5,5â€²-bistetrazole and Its Utilization as a High-Performing Metal-Free Initiator. Organic Letters, 2022, 24, 1747-1751.	4.6	12
8	Energetic Polymers: A Chance for Lightweight Reactive Structure Materials?. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.6	8
9	A GAP Replacement, Part 2: Preparation of Poly(3-azidooxetane) via Azidation of Poly(3-tosyloxyoxetane) and Poly(3-mesyloxyoxetane). Journal of Organic Chemistry, 2022, 87, 4097-4106.	3.2	2
10	Synthesis and Characterization of Binary, Highly Endothermic, and Extremely Sensitive 2,2â€²-Azobis(5-azidotetrazole). Journal of the American Chemical Society, 2022, 144, 6143-6147.	13.7	48
11	Oxetane Monomers Based On the Powerful Explosive LLMâ€116: Improved Performance, Insensitivity, and Thermostability. ChemPlusChem, 2022, 87, e202200049.	2.8	6
12	An Answer to the Question about the Energetic Performance of TKXâ€50. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.6	10
13	Tuning the Properties of 5â€Azido and 5â€Nitraminoâ€tetrazoles by Diverse Functionalization â€“ General Concepts for Future Energetic Materials. Chemistry - A European Journal, 2022, 28, .	3.3	9
14	1â€(Azidomethyl)â€5Hâ€Tetrazole: A Powerful New Ligand for Highly Energetic Coordination Compounds. Chemistry - A European Journal, 2022, 28, .	3.3	19
15	Kinetic Predictions Concerning the Longâ€Term Stability of TKXâ€50 and Other Common Explosives Using the NETZSCH Kinetics Neo Software. Propellants, Explosives, Pyrotechnics, 2022, 47, .	1.6	3
16	Energetic but insensitive <scp>spiro</scp>â€tetrahydrotetrazines based on oxetaneâ€3â€one. Journal of Heterocyclic Chemistry, 2022, 59, 1781-1789.	2.6	4
17	1â€Nitriminoâ€5â€azidotetrazole: Extending Energetic Tetrazole Chemistry. ChemPlusChem, 2022, 87, .	2.8	2
18	Toxicity Assessment of Energetic Materials by Using the Luminescent Bacteria Inhibition Test. Propellants, Explosives, Pyrotechnics, 2021, 46, 114-123.	1.6	13

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19	An Experimental Comparison of Selected Blue Flame Pyrotechnics. Propellants, Explosives, Pyrotechnics, 2021, 46, 107-113.	1.6	11
20	Investigation of Structureâ€“Property Relationships of Three Nitroaromatic Compounds: 1-Fluoro-2,4,6-trinitrobenzene, 2,4,6-Trinitrophenyl Methanesulfonate, and 2,4,6-Trinitrobenzaldehyde. Crystal Growth and Design, 2021, 21, 243-248.	3.0	15
21	Nitratoethyl-5H-tetrazoles: improving the oxygen balance through application of organic nitrates in energetic coordination compounds. Dalton Transactions, 2021, 50, 10811-10825.	3.3	28
22	A Computational Study on the Detonation Velocity of Mixtures of Solid Explosives with Nonâ€Explosive Liquids. Propellants, Explosives, Pyrotechnics, 2021, 46, 352-354.	1.6	1
23	Nitrocarbamoyl Azide O₂NN(H)C(O)N₃: A Stable but Highly Energetic Member of the Carbonyl Azide Family. Journal of the American Chemical Society, 2021, 143, 1323-1327.	13.7	19
24	Highâ€Precision Density Measurements of Energetic Materials for Quality Assessment. Propellants, Explosives, Pyrotechnics, 2021, 46, 413-427.	1.6	6
25	About the Azido Derivatives of Pentaerythritol Tetranitrate. Propellants, Explosives, Pyrotechnics, 2021, 46, 723-731.	1.6	16
26	The production of less harmful and less toxic sparklers in an experiment for school students. Chemistry Teacher International, 2021, 3, 285-294.	1.7	0
27	Semibatch Reaction Crystallization for Scaled-Up Production of High-Quality CL-20/HMX Cocrystal: Efficient Because of Solid Dosing. Crystal Growth and Design, 2021, 21, 1708-1717.	3.0	10
28	Uranyl Complexes with Selenium or Tellurium Containing Chelate Ligands. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 943-950.	1.2	0
29	Thermodynamic Properties of Energetic Plasticizers: Experimental Vapor Pressures of Methyl-, Ethyl-, and Butyl-Nitroxyethyl Nitramines. Journal of Chemical & Engineering Data, 2021, 66, 1709-1716.	1.9	6
30	Investigation of Ethylenedinitramine as a Versatile Building Block in Energetic Salts, Cocrystals, and Coordination Compounds. Inorganic Chemistry, 2021, 60, 4816-4828.	4.0	9
31	Theoretical evaluation of TKXâ€50 as an ingredient in rocket propellants. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 572-574.	1.2	13
32	Solubility behaviour of CL-20 and HMX in organic solvents and solvates of CL-20. Energetic Materials Frontiers, 2021, 2, 51-61.	3.2	11
33	Quality Assessment of the CLâ€20/HMX Cocrystal Utilising Digital Image Processing. Propellants, Explosives, Pyrotechnics, 2021, 46, 522-529.	1.6	1
34	A Study of 3,5â€Dinitroâ€1â€(2,4,6â€trinitrophenyl)â€1Hâ€pyrazolâ€4â€amine (PicADNP) as a New High Energy Density Booster Explosive. European Journal of Organic Chemistry, 2021, 2021, 1964-1970.	2.4	4
35	An Optimized & Scaledâ€Up Synthetic Procedure for Trinitroethyl Formate TNEF. Propellants, Explosives, Pyrotechnics, 2021, 46, 895-898.	1.6	1
36	Polyazido-methyl Derivatives of Prominent Oxadiazole and Isoxazole Scaffolds: Synthesis, Explosive Properties, and Evaluation. Journal of Organic Chemistry, 2021, 86, 6371-6380.	3.2	25

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37	Synthesis and Characterization of Geminal Diazido Derivatives Based on Diethyl Malonate. European Journal of Inorganic Chemistry, 2021, 2021, 2241-2247.	2.0	3
38	Design and characterization of new advanced energetic biopolymers based on surface functionalized cellulosic materials. Cellulose, 2021, 28, 6107-6123.	4.9	35
39	Synthesis and characterization of new insensitive and high-energy dense cellulosic biopolymers. Fuel, 2021, 292, 120347.	6.4	29
40	Approximate estimation of the critical diameter in Koenen tests. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, .	0.7	3
41	Synthesis, Characterization and Energetic Performance of Oxalyl Diazide, Carbamoyl Azide, and N,Nâ€™â€Bis(azidocarbonyl)hydrazine. ChemPlusChem, 2021, 86, 870-874.	2.8	3
42	Low-Power Laser Ignition of an Antenna-Type Secondary Energetic Copper Complex: Synthesis, Characterization, Evaluation, and Ignition Mechanism Studies. Inorganic Chemistry, 2021, 60, 10909-10922.	4.0	3
43	Evolving the Scope of 5,5â€™â€Azobistetrazoles in the Search for High Performing Green Energetic Materials. European Journal of Organic Chemistry, 2021, 2021, 4388-4392.	2.4	9
44	Oxygen Enriched Oxamides and N â€Dinitrated Oxamides: Trinitroethyl Esters, Nitrocarbamates and Nitrates. ChemistrySelect, 2021, 6, 8581-8586.	1.5	1
45	Selective Synthesis and Characterization of the Highly Energetic Materials 1â€Hydroxyâ€5Hâ€tetrazole (CHN_4O), its Anion 1â€Oxidoâ€5Hâ€tetrazolate (CN_4O^-) and Bis(1â€hydroxytetrazolâ€5â€yl)triazene. Chemistry - an Asian Journal, 2021, 16, 3001-3012.	3.3	15
46	A GAP Replacement: Improved Synthesis of 3-Azidooxetane and Its Homopolymer Based on Sulfonic Acid Esters of Oxetan-3-ol. Journal of Organic Chemistry, 2021, 86, 12607-12614.	3.2	6
47	Low-perchlorate blue-flame pyrotechnic compositions. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, .	0.7	0
48	Thermodynamics of organic azides: Experimental vapor pressures of organic polyazido compounds measured with the transpiration method. Fluid Phase Equilibria, 2021, 549, 113222.	2.5	2
49	3,3-Dinitratooxetane â€“ an important leap towards energetic oxygen-rich monomers and polymers. Chemical Communications, 2021, 57, 2804-2807.	4.1	11
50	N-Functionalisation of 5,5â€²-bistetrazole providing 2,2â€²-di(azidomethyl)bistetrazole: a melt-castable metal-free green primary explosive. Dalton Transactions, 2021, 50, 13656-13660.	3.3	9
51	New insensitive high-energy dense biopolymers from giant reed cellulosic fibers: their synthesis, characterization, and non-isothermal decomposition kinetics. New Journal of Chemistry, 2021, 45, 5099-5113.	2.8	35
52	TKX-50: A Highly Promising Secondary Explosive. Materials Horizons, 2021, , 1-91.	0.6	11
53	High-Energy-Density Materials: An Amphoteric N-Rich Bis(triazole) and Salts of Its Cationic and Anionic Species. Inorganic Chemistry, 2021, 60, 16213-16222.	4.0	15
54	The Lithium Salts of Bis(azolyl)borates as Strontiumâ€and Chlorineâ€free Red Pyrotechnic Colorants. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 580-585.	1.2	8

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55	OZM Ball Drop Impact Tester (BITâ€132) vs. BAM Standard Method â€“ a Comparative Investigation. Propellants, Explosives, Pyrotechnics, 2020, 45, 147-153.	1.6	31
56	The Flame Emission of Indium from a Pyrotechnical View. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 133-137.	1.2	3
57	Experimental thermochemical data of CWA simulants: Triethyl phosphate, diethyl methylphosphonate, malathion and methyl salicylate. Journal of Chemical Thermodynamics, 2020, 143, 106043.	2.0	10
58	Fineâ€Tuning: Advances in Chlorineâ€Free Blueâ€Lightâ€Generating Pyrotechnics. European Journal of Inorganic Chemistry, 2020, 2020, 349-355.	2.0	9
59	Closing the Gap: Synthesis of Three Isomeric N,N-Ditetrazolymethane Ligands and Their Coordination Proficiency in Adaptable Laser Responsive Copper(II) and Sensitive Silver(I) Complexes. Inorganic Chemistry, 2020, 59, 10938-10952.	4.0	14
60	Comparison of Functionalized Lithium Dihydrobis(azolyl)borates with Their Corresponding Azolates as Environmentally Friendly Red Pyrotechnic Coloring Agents. ChemPlusChem, 2020, 85, 2044-2050.	2.8	4
61	Urazine â€“ a Long Established Heterocycle and Energetic Chameleon. European Journal of Organic Chemistry, 2020, 2020, 4916-4924.	2.4	11
62	Molecular Structure of Hydrazoic Acid from 55 K to Close to the Melting Point Determined with Synchrotron Radiation. Inorganic Chemistry, 2020, 59, 17671-17677.	4.0	6
63	Experimental Vapor Pressures of Hexahydroâ€1,3,5â€trinitroâ€1,3,5â€triazine (RDX) and Hexahydroâ€1,3,5â€trinitrosoâ€1,3,5â€triazine (TNX). Propellants, Explosives, Pyrotechnics, 2020, 45, 1573-1579.	1.6	3
64	A promising energetic biopolymer based on azide-functionalized microcrystalline cellulose: Synthesis and characterization. Carbohydrate Polymers, 2020, 249, 116820.	10.2	41
65	Properties in Reactive Structure Materials: ZrW₂ and HfW₂ â€“ High Melting Temperatures, Densities, Hardness, and Exothermic Ignition Energies. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1805-1811.	1.2	6
66	In celebration of the 85 th birthday of Herbert W. Roesky. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1785-1786.	1.2	0
67	Less harmful and less toxic sparklers: a wellâ€known school experiment in a new light. Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik, 2020, , .	0.4	2
68	Synthesis, Characterization, and Thermal Decomposition Kinetics of Nitrogen-Rich Energetic Biopolymers from Aminated Giant Reed Cellulosic Fibers. Industrial & Engineering Chemistry Research, 2020, 59, 22677-22689.	3.7	52
69	New insensitive nitrogen-rich energetic polymers based on amino-functionalized cellulose and microcrystalline cellulose: Synthesis and characterization. Fuel, 2020, 277, 118258.	6.4	41
70	Tetrazole-functionalized microcrystalline cellulose: A promising biopolymer for advanced energetic materials. Chemical Engineering Journal, 2020, 400, 125960.	12.7	64
71	Combining Performance with Thermal Stability: Synthesis and Characterization of 5â€(3,5â€Dinitroâ€1Hâ€pyrazolâ€4â€yl)â€1Hâ€tetrazole and its Energetic Derivatives. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1380-1388.	1.2	14
72	Guanidinium 5,5â€²â€Azotetrazolate: A Colorful Chameleon for Halogenâ€Free Smoke Signals. Angewandte Chemie - International Edition, 2020, 59, 12326-12330.	13.8	22

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73	Guanidinâ€5,5â€²â€azotetrazolat: Ein farbenfrohes ChamÃleon fÃ¼r halogenfreie Rauchsignale. Angewandte Chemie, 2020, 132, 12425-12429.	2.0	3
74	Comparison of 1-Propyl-5H-tetrazole and 1-Azidopropyl-5H-tetrazole as Ligands for Laser Ignitable Energetic Materials. ACS Applied Energy Materials, 2020, 3, 3798-3806.	5.1	32
75	Salts of Picramic Acid â€“ Nearly Forgotten Temperatureâ€Resistant Energetic Materials. Propellants, Explosives, Pyrotechnics, 2020, 45, 898-907.	1.6	3
76	Midway between Energetic Molecular Crystals and High-Density Energetic Salts: Crystal Engineering with Hydrogen Bonded Chains of Polynitro Bipyrazoles. Crystal Growth and Design, 2020, 20, 755-764.	3.0	17
77	Unusual Energetic Periodate, Sulfate and Aminoâ€bistetrazolate Salts of the Trinitropropylammonium Cation. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 2-4.	1.2	5
78	Oxygen-Rich Bis(trinitroethyl esters): Suitable Oxidizers as Potential Ammonium Perchlorate Replacements. Energy & Fuels, 2020, 34, 16469-16475.	5.1	8
79	3-Bromotetrazine: labelling of macromolecules via monosubstituted bifunctional s-tetrazines. Chemical Science, 2020, 11, 3042-3047.	7.4	27
80	Metal Salts of 3,3â€²â€Diaminoâ€4,4â€²â€dinitraminoâ€5,5â€²â€bisâ€1,2,4â€triazole in Pyrotechnic Compositions. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 370-376.	1.2	9
81	1â€AminoTriazole Transitionâ€Metal Complexes as Laserâ€Ignitable and Leadâ€Free Primary Explosives. Chemistry - A European Journal, 2019, 25, 1963-1974.	3.3	27
82	Bioactivity and toxicological study of Amiton and related isomers. Phosphorus, Sulfur and Silicon and the Related Elements, 2019, 194, 333-334.	1.6	1
83	Scalability of a Time- and Cost-Effective Procedure for the Synthesis of Picryl Bromide. Organic Process Research and Development, 2019, 23, 2096-2098.	2.7	1
84	Ecofriendly isolation and characterization of microcrystalline cellulose from giant reed using various acidic media. Cellulose, 2019, 26, 7635-7651.	4.9	117
85	Microcrystalline cellulose from Posidonia oceanica brown algae: Extraction and characterization. International Journal of Biological Macromolecules, 2019, 138, 837-845.	7.5	156
86	A Promising Energetic Polymer from Posidonia oceanica Brown Algae: Synthesis, Characterization, and Kinetic Modeling. Macromolecular Chemistry and Physics, 2019, 220, 1900358.	2.2	88
87	The Pyridazine Scaffold as a Building Block for Energetic Materials: Synthesis, Characterization, and Properties. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 1247-1254.	1.2	6
88	Synthesis and Characterization of New Azido Esters Derived from Malonic Acid. Propellants, Explosives, Pyrotechnics, 2019, 44, 1515-1520.	1.6	11
89	Blue Strobe Pyrotechnic Composition Based on Aminoguanidinium Nitrate. Propellants, Explosives, Pyrotechnics, 2019, 44, 1466-1471.	1.6	8
90	Energetic Metal and Nitrogen-Rich Salts of the Pentaerythritol Tetranitrate Analogue Pentaerythritol Tetranitrocarbamate. Inorganic Chemistry, 2019, 58, 2881-2887.	4.0	14

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91	A novel method for prediction of the critical diameter of solid pure and composite high explosives to assess their explosion safety in an industrial setting. Journal of Energetic Materials, 2019, 37, 331-339.	2.0	2
92	Investigation Of Crystallisation Conditions to Produce CLâ€20/HMX Cocrystal for Polymerâ€bonded Explosives. Propellants, Explosives, Pyrotechnics, 2019, 44, 668-678.	1.6	18
93	Equation of State of Detonation Products Based on Exponentialâ€6 Potential Model and Analytical Representation of the Excess Helmholtz Free Energy. Propellants, Explosives, Pyrotechnics, 2019, 44, 564-571.	1.6	9
94	Vapor Pressure of Linear Nitrate Esters Determined by Transpiration Method in Combination with VOâ€GC/MS. Propellants, Explosives, Pyrotechnics, 2019, 44, 484-492.	1.6	12
95	Comparison of 1â€Ethylâ€5Hâ€tetrazole and 1â€Azidoethylâ€5Hâ€tetrazole as Ligands in Energetic Transition Metal Complexes. Chemistry - an Asian Journal, 2019, 14, 2018-2028.	3.3	41
96	15. Literature. , 2019, , 385-396.		1
97	Performance of advanced composite solid rocket propellants based on novel oxidizers. IOP Conference Series: Materials Science and Engineering, 2019, 610, 012002.	0.6	1
98	Correlation between Structure and Energetic Properties of Three Nitroaromatic Compounds: Bis(2,4-dinitrophenyl) Ether, Bis(2,4,6-trinitrophenyl) Ether, and Bis(2,4,6-trinitrophenyl) Thioether. Journal of the American Chemical Society, 2019, 141, 19911-19916.	13.7	54
99	2,2â€Bis(5â€tetrazolyl)propane as Ligand in Energetic 3d Transition Metal Complexes. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 354-361.	1.2	9
100	Synthesis, Characterization, and Properties of Pentanitrobenzene C₆H(NO₂)₅. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2019, 645, 126-132.	1.2	2
101	Facile and selective polynitrations at the 4-pyrazolyl dual backbone: straightforward access to a series of high-density energetic materials. New Journal of Chemistry, 2019, 43, 1305-1312.	2.8	35
102	2-Methyl-substituted monotetrazoles in copper(<scp>ii</scp>) perchlorate complexes: manipulating coordination chemistry and derived energetic properties. New Journal of Chemistry, 2019, 43, 609-616.	2.8	27
103	Chemistry of High-Energy Materials. , 2019, , .		96
104	HYPERGOLICITY AND IGNITION DELAY STUDY OF 2-AZIDOETHANOL AND HYDROGEN PEROXIDE. International Journal of Energetic Materials and Chemical Propulsion, 2019, 18, 1-8.	0.3	0
105	Synthesis, Characterization, and Properties of Diâ€and Trinitromethylâ€1,2,4â€Oxadiazoles and Salts. Asian Journal of Organic Chemistry, 2018, 7, 739-750.	2.7	12
106	Molecular Structure of Isocyanic Acid, HNCO, the Imide of Carbon Dioxide. Journal of Physical Chemistry A, 2018, 122, 3287-3292.	2.5	8
107	A review on differential scanning calorimetry technique and its importance in the field of energetic materials. ChemistrySelect, 2018, 3, .	1.5	13
108	Highly functional energetic complexes: stability tuning through coordination diversity of isomeric propyl-linked ditetrazoles. Journal of Materials Chemistry A, 2018, 6, 6565-6577.	10.3	52

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109	Energetic Compounds Based on 3,4â€Bis(4â€nitraminoâ€•1,2,5â€oxadiazolâ€3â€yl)â€1,2,5â€furoxan (BNAFF). Propellants, Explosives, Pyrotechnics, 2018, 43, 355-363.	1.6	12
110	Synthesis, Characterization and Properties of Ureidoâ€Furazan Derivatives. Journal of Heterocyclic Chemistry, 2018, 55, 852-862.	2.6	19
111	Development of a Sustainable Perchlorate-Free Yellow Pyrotechnical Strobe Formulation. ACS Sustainable Chemistry and Engineering, 2018, 6, 4400-4404.	6.7	6
112	Copolymers based on GAP and 1,2â€Epoxyhexane as Promising Prepolymers for Energetic Binder Systems. Propellants, Explosives, Pyrotechnics, 2018, 43, 126-135.	1.6	22
113	Synthesis and Properties of Tetranitroâ€Substituted Adamantane Derivatives. ChemPlusChem, 2018, 83, 61-69.	2.8	26
114	Energetic Functionalization of the Pyridazine Scaffold: Synthesis and Characterization of 3,5â€Diaminoâ€4,6â€dinitropyridazineâ€1â€Oxide. European Journal of Organic Chemistry, 2018, 2018, 1004-1010.	2.4	15
115	Flare or strobe: a tunable chlorine-free pyrotechnic system based on lithium nitrate. Chemical Communications, 2018, 54, 821-824.	4.1	12
116	Environmentally safe (chlorine-free): new green propellant formulation based on 2,2,2-trinitroethyl-formate and HTPB. RSC Advances, 2018, 8, 11771-11777.	3.6	13
117	Higher Performance and Safer Handling: Formulation Based on 2,2,2â€Trinitroethyl Formate and Nitrocellulose. ChemPlusChem, 2018, 83, 128-131.	2.8	8
118	Naked-eye facile colorimetric detection of alkylphenols using Fe(III)-impregnated silica-based strips. Chemical Papers, 2018, 72, 1553-1559.	2.2	36
119	A Numerical Method for the Determination of the Virtual Origin Point of Shaped Charge Jets Instead of Using Flash X-ray Radiography. Journal of Energetic Materials, 2018, 36, 127-140.	2.0	17
120	Formation and Characterization of Heavy Alkali and Silver Salts of the 4â€Nitroâ€pyrazoloâ€(3,4â€c)â€furazanâ€5â€Nâ€oxide Anion. Propellants, Explosives, Pyrotechnics, 2018, 43, 54-61.	1.6	4
121	Combining Higher Efficiency with Lower Costs: an Alternative Hexamineâ€Based White Smoke Signal. Propellants, Explosives, Pyrotechnics, 2018, 43, 1184-1189.	1.6	6
122	Potassium Nâ€Nitraminoâ€5Hâ€Tetrazolates â€“ Powerful Green Primary Explosives with High Initiation Capabilities. Propellants, Explosives, Pyrotechnics, 2018, 43, 1203-1209.	1.6	13
123	Uses of dimedone for the synthesis of thiazole derivatives as new anti-tumor, c-Met, tyrosine kinase, and Pim-1 inhibitions. Medicinal Chemistry Research, 2018, 27, 2494-2511.	2.4	2
124	Improving the Energetic Properties of Dinitropyrazoles by Utilization of Current Concepts. European Journal of Inorganic Chemistry, 2018, 2018, 4125-4132.	2.0	13
125	5-Amino-1H-tetrazole-based multi-coloured smoke signals applying the concept of fuel mixes. New Journal of Chemistry, 2018, 42, 10670-10675.	2.8	14
126	Dihydrazinium Nitrates Derived from Malonic and Iminodiacetic Acid. Propellants, Explosives, Pyrotechnics, 2018, 43, 685-693.	1.6	4

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127	Valence bond structures for molecules with 5-electron 3- centre bonding units. Computational and Theoretical Chemistry, 2018, 1139, 50-54.	2.5	0
128	Isomers of Dinitropyrazoles: Synthesis, Comparison and Tuning of their Physicochemical Properties. ChemPlusChem, 2018, 83, 804-811.	2.8	30
129	Thermo-analytical study of 2,2,2-trinitroethyl-formate as a new oxidizer and its propellant based on a GAP matrix in comparison with ammonium dinitramide. Journal of Analytical and Applied Pyrolysis, 2018, 133, 30-38.	5.5	32
130	Synthetic Routes to a Triazole and Tetrazole with Trinitroalkyl Substitution at Nitrogen. Journal of Organic Chemistry, 2018, 83, 10505-10509.	3.2	18
131	Hyperfast Flow-Field Thermal Gradient GC/MS of Explosives with Reduced Elution Temperatures. Analytical Chemistry, 2018, 90, 8404-8411.	6.5	22
132	Energetic Materials Encyclopedia. , 2018, , .		90
133	NEW GREEN AND THERMALLY STABLE SOLID PROPELLANT FORMULATIONS BASED ON TNEF. International Journal of Energetic Materials and Chemical Propulsion, 2018, 17, 349-357.	0.3	1
134	Study of Pyrotechnic Blue Strobe Compositions Based on Ammonium Perchlorate and Tetramethylammonium Nitrate. European Journal of Inorganic Chemistry, 2017, 2017, 1113-1119.	2.0	13
135	Estimated Detonation Velocities for TKXâ€50, MADâ€X1, BDNAPM, BTNPM, TKXâ€55, and DAAF using the Laserâ€induced Air Shock from Energetic Materials Technique. Propellants, Explosives, Pyrotechnics, 2017, 42, 353-359.	1.6	62
136	Kinetic Parameters of PBX Based on Cisâ€1,3,4,6â€tetranitrooctaâ€hydroimidazoâ€[4,5â€d] imidazole Obtained by Isoconversional Methods using Different Thermal Analysis Techniques. Propellants, Explosives, Pyrotechnics, 2017, 42, 468-476.	1.6	29
137	Application of headspace and direct immersion solid-phase microextraction in the analysis of organothiophosphates related to the Chemical Weapons Convention from water and complex matrices. Talanta, 2017, 174, 295-300.	5.5	15
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