

Konstantin A Monogarov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Pursuing reliable thermal analysis techniques for energetic materials: decomposition kinetics and thermal stability of dihydroxylammonium 5,5-dinitro-1,1-diolate (TKX-50). <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 436-449.	1.3	88
2	Novel Highly Energetic Pyrazoles: <i>N</i> -Trinitromethyl-Substituted Nitropyrazoles. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1987-1996.	1.7	80
3	Progress in Additive Manufacturing of Energetic Materials: Creating the Reactive Microstructures with High Potential of Applications. <i>Propellants, Explosives, Pyrotechnics</i> , 2019, 44, 941-969.	1.0	77
4	Sensitivity of energetic materials: Evidence of thermodynamic factor on a large array of CHNOFCl compounds. <i>Chemical Engineering Journal</i> , 2021, 421, 129804.	6.6	69
5	Novel highly energetic pyrazoles: <i>N</i> -fluorodinitromethyl and <i>N</i> -[(difluoroamino)dinitromethyl] derivatives. <i>Mendeleev Communications</i> , 2015, 25, 429-431.	0.6	55
6	Comparative study of HMX and CL-20. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 529-534.	2.0	44
7	Influence of Particle Size and Mixing Technology on Combustion of HMX/Al Compositions. <i>Propellants, Explosives, Pyrotechnics</i> , 2010, 35, 226-232.	1.0	38
8	Supercritical Antisolvent Processing of Nitrocellulose: Downscaling to Nanosize, Reducing Friction Sensitivity and Introducing Burning Rate Catalyst. <i>Nanomaterials</i> , 2019, 9, 1386.	1.9	38
9	Learning to fly: thermochemistry of energetic materials by modified thermogravimetric analysis and highly accurate quantum chemical calculations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15522-15542.	1.3	38
10	HP-DSC study of energetic materials. Part I. Overview of pressure influence on thermal behavior. <i>Thermochimica Acta</i> , 2016, 631, 1-7.	1.2	36
11	Pressure DSC for energetic materials. Part 2. Switching between evaporation and thermal decomposition of 3,5-dinitropyrazole. <i>Thermochimica Acta</i> , 2020, 690, 178697.	1.2	28
12	Aluminum/HMX nanocomposites: Synthesis, microstructure, and combustion. <i>Combustion, Explosion and Shock Waves</i> , 2015, 51, 100-106.	0.3	25
13	Design and Synthesis of Nitrogen-Rich Azo-Bridged Furoxanylazoles as High-Performance Energetic Materials. <i>Chemistry - A European Journal</i> , 2021, 27, 14628-14637.	1.7	25
14	Toward reliable characterization of energetic materials: interplay of theory and thermal analysis in the study of the thermal stability of tetranitroacetimidic acid (TNAA). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 29285-29298.	1.3	24
15	Comparative Analysis of Boron Powders Obtained by Various Methods. I. Microstructure and Oxidation Parameters during Heating. <i>Combustion, Explosion and Shock Waves</i> , 2018, 54, 450-460.	0.3	24
16	5-Amino-3,4-dinitropyrazole as a Promising Energetic Material. <i>Propellants, Explosives, Pyrotechnics</i> , 2016, 41, 999-1005.	1.0	22
17	Nitro-, Cyano-, and Methylfuroxans, and Their Bis-Derivatives: From Green Primary to Melt-Cast Explosives. <i>Molecules</i> , 2020, 25, 5836.	1.7	20
18	Energetic <i>N</i> -azidomethyl derivatives of polynitro hexaazaisowurtzitanes series: CL-20 analogues having the highest enthalpy. <i>New Journal of Chemistry</i> , 2020, 44, 8357-8365.	1.4	19

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19	The power of model-fitting kinetic analysis applied to complex thermal decomposition of explosives: reconciling the kinetics of bicyclo-HMX thermolysis in solid state and solution. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 3195-3206.	2.0	16
20	Exploring enhanced reactivity of nanosized titanium toward oxidation. <i>Combustion and Flame</i> , 2018, 191, 109-115.	2.8	14
21	Uncontrolled re-entry of satellite parts after finishing their mission in LEO: Titanium alloy degradation by thermite reaction energy. <i>Acta Astronautica</i> , 2017, 135, 69-75.	1.7	13
22	Novel energetic oxadiazole assemblies. <i>Mendeleev Communications</i> , 2022, 32, 111-113.	0.6	12
23	Physicochemical characteristics of the components of energetic condensed systems. <i>Russian Journal of Physical Chemistry B</i> , 2010, 4, 916-922.	0.2	11
24	Autocatalytic decomposition of energetic materials: interplay of theory and thermal analysis in the study of 5-amino-3,4-dinitropyrazole thermolysis. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 16325-16342.	1.3	11
25	Catalysis of HMX Decomposition and Combustion. , 2016, , 193-230.		10
26	First Synthesis of Aliphatic Nitroazoxy Compounds. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 91-94.	1.2	10
27	Apparent autocatalysis due to liquefaction: thermal decomposition of ammonium 3,4,5-trinitropyrazolate. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 11797-11806.	1.3	10
28	Macro- vs Microcrystalline Wax: Interplay of Evaporation and Decomposition under Pressure Variation. <i>Energy & Fuels</i> , 2017, 31, 8534-8539.	2.5	7
29	CATALYTIC INFLUENCE OF NANOSIZED TITANIUM DIOXIDE ON THE THERMAL DECOMPOSITION AND COMBUSTION OF HMX. <i>International Journal of Energetic Materials and Chemical Propulsion</i> , 2014, 13, 211-228.	0.2	7
30	On the mechanism of zirconium nitride formation by zirconium, zirconia and yttria burning in air. <i>Journal of Solid State Chemistry</i> , 2015, 230, 199-208.	1.4	6
31	Two sides of thermal stability of energetic liquid: Vaporization and decomposition of 3-methylfuroxan. <i>Journal of Molecular Liquids</i> , 2021, 348, 118059.	2.3	6
32	Synergistic Effect of Ammonium Perchlorate on HMX: From Thermal Analysis to Combustion. <i>Springer Aerospace Technology</i> , 2017, , 365-381.	0.2	5
33	Delving into Autocatalytic Liquid-State Thermal Decomposition of Novel Energetic 1,3,5-Triazines with Azido, Trinitroethyl, and Nitramino Groups. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11197-11206.	1.2	5
34	Synthesis of 4,4'-Bis[3-(Fluorodinitromethyl)-1H-1,2,4-triazol-5-Yl]azofurazan. <i>Chemistry of Heterocyclic Compounds</i> , 2020, 56, 619-622.	0.6	5
35	Combustion and detonation of mechanoactivated aluminum-potassium perchlorate mixtures. <i>Russian Journal of Physical Chemistry B</i> , 2015, 9, 615-624.	0.2	4
36	Nanometals. , 2016, , 47-63.		4

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37	Laser ignition of high-energy materials containing AlB ₂ and AlB ₁₂ powders. MATEC Web of Conferences, 2017, 110, 01042.	0.1	2
38	The structure of particles and combustion parameters of compositions with nanoaluminum. Russian Journal of Physical Chemistry B, 2008, 2, 463-469.	0.2	0
39	Study on thermal oxidation and combustion of aluminum ultrafine powder in high-energy material. MATEC Web of Conferences, 2017, 110, 01058.	0.1	0