

Anuj A Vargeese

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

468
citations

623188

14
h-index

676716

22
g-index

25
all docs

25
docs citations

25
times ranked

379
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase transformation of heat-resistant energetic material BDNAPM studied by Raman spectroscopy and X-ray diffraction. <i>Journal of Materials Science</i> , 2022, 57, 6115-6128. Elastic and phonon-mode anomalies with temperature in the energetic material $C_6H_6O_8$.	1.7	1
2	Physi Catalytic decomposition mechanism of aqueous ammonium dinitramide solution elucidated by thermal and spectroscopic methods. <i>Thermochimica Acta</i> , 2020, 686, 178544.	1.1	1
3	Octanitropyrazolopyrazole: a gem-trinitromethyl based green high-density energetic oxidizer. <i>Chemical Communications</i> , 2020, 56, 12945-12948.	2.2	28
5	Thermal expansion of energetic material TEX obtained from x-ray diffraction and first principles calculations. <i>Journal of Molecular Structure</i> , 2019, 1195, 859-862.	1.8	6
6	Decomposition Kinetics of Substituted Energetic Isowurtzitane Cage Molecules Hexanitrohexaazaisowurtzitane (CL-20) and TEX: A Comparative Study. <i>ChemistrySelect</i> , 2019, 4, 6821-6826.	0.7	7
7	Decomposition Mechanism of Hexanitrohexaazaisowurtzitane (CL-20) by Coupled Computational and Experimental Study. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4014-4020.	1.1	26
8	Nanoparticle Aluminum Preparation. , 2019, , .		0
9	Experimental and computational investigation on the decomposition kinetics and uni-molecular degradation of (Z)-N,2,2,2-tetranitroacetimidic acid. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 135, 281-288.	2.6	6
10	New High Pressure Phases of Energetic Material TEX: Evidence from Raman Spectroscopy, X-ray Diffraction, and First-Principles Calculations. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6236-6242.	1.1	13
11	A Kinetics Investigation on the Nitro-Nitrite Rearrangement Mediated Thermal Decomposition of High Temperature Monoclinic Phase of 1,1-Diamino-2,2-Dinitroethylene (¹ 3-Fox-7). <i>Journal of Chemical Sciences</i> , 2017, 129, 281-288.	0.7	9
12	Synergistically catalysed pyrolysis of hydroxyl terminated polybutadiene binder in composite propellants and burn rate enhancement by free-standing CuO nanoparticles. <i>Combustion and Flame</i> , 2017, 182, 28-35.	2.8	35
13	Dendritic Polynitrato Energetic Motifs: Development and Exploration of Physicochemical Behavior through Theoretical and Experimental Approach. <i>ACS Omega</i> , 2017, 2, 8227-8233.	1.6	12
14	A kinetic investigation on the mechanism and activity of copper oxide nanorods on the thermal decomposition of propellants. <i>Combustion and Flame</i> , 2016, 165, 354-360.	2.8	41
15	Pressure effects on thermal decomposition reactions: a thermo-kinetic investigation. <i>RSC Advances</i> , 2015, 5, 78598-78605.	1.7	12
16	Kinetics of Nano Titanium Dioxide Catalyzed Thermal Decomposition of Ammonium Nitrate and Ammonium Nitrate-Based Composite Solid Propellant. <i>Propellants, Explosives, Pyrotechnics</i> , 2015, 40, 260-266.	1.0	31
17	Effect of Copper Oxide, Titanium Dioxide, and Lithium Fluoride on the Thermal Behavior and Decomposition Kinetics of Ammonium Nitrate. <i>Journal of Energetic Materials</i> , 2014, 32, 146-161.	1.0	16
18	Effect of anatase/brookite mixed phase titanium dioxide nanoparticles on the high temperature decomposition kinetics of ammonium perchlorate. <i>Materials Chemistry and Physics</i> , 2013, 139, 537-542.	2.0	26

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19	Kinetics and mechanism of hydrothermally prepared copper oxide nanorod catalyzed decomposition of ammonium nitrate. <i>Applied Catalysis A: General</i> , 2012, 447-448, 171-177.	2.2	44
20	Isoconversional kinetic analysis of decomposition of nitropyrazoles. <i>Thermochimica Acta</i> , 2012, 550, 83-89.	1.2	20
21	Thermal stability of habit modified ammonium nitrate: Insights from isoconversional kinetic analysis. <i>Thermochimica Acta</i> , 2011, 524, 165-169.	1.2	18
22	Anatase/brookite mixed phase nano TiO ₂ catalyzed homolytic decomposition of ammonium nitrate. <i>Journal of Hazardous Materials</i> , 2011, 192, 1314-1320.	6.5	41
23	Use of potassium ferrocyanide as habit modifier in the size reduction and phase modification of ammonium nitrate crystals in slurries. <i>Journal of Hazardous Materials</i> , 2010, 180, 583-589.	6.5	19
24	Effect of method of crystallization on the IV ^{III} and IV ^{II} polymorphic transitions of ammonium nitrate. <i>Journal of Hazardous Materials</i> , 2009, 161, 373-379.	6.5	27
25	Role of Poly(vinyl alcohol) in the Crystal Growth of Ammonium Perchlorate. <i>Crystal Growth and Design</i> , 2008, 8, 1060-1066.	1.4	20