

# 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	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
2	Anatase–brookite mixed phase nano TiO <sub>2</sub> catalyzed homolytic decomposition of ammonium nitrate. <i>Journal of Hazardous Materials</i> , 2011, 192, 1314-1320.	6.5	41
3	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
4	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
5	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
6	Octanitropyrazolopyrazole: a gem-trinitromethyl based green high-density energetic oxidizer. <i>Chemical Communications</i> , 2020, 56, 12945-12948.	2.2	28
7	Effect of method of crystallization on the IV <sup>III</sup> and IV <sup>II</sup> polymorphic transitions of ammonium nitrate. <i>Journal of Hazardous Materials</i> , 2009, 161, 373-379.	6.5	27
8	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
9	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
10	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
11	Isoconversional kinetic analysis of decomposition of nitropyrazoles. <i>Thermochimica Acta</i> , 2012, 550, 83-89.	1.2	20
12	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
13	Thermal stability of habit modified ammonium nitrate: Insights from isoconversional kinetic analysis. <i>Thermochimica Acta</i> , 2011, 524, 165-169.	1.2	18
14	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
15	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
16	Pressure effects on thermal decomposition reactions: a thermo-kinetic investigation. <i>RSC Advances</i> , 2015, 5, 78598-78605.	1.7	12
17	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
18	A Kinetics Investigation on the Nitro-Nitrite Rearrangement Mediated Thermal Decomposition of High Temperature Monoclinic Phase of 1,1-Diamino-2,2-Dinitroethylene (1 <sup>3</sup> -Fox-7). <i>Journal of Chemical Sciences</i> , 2017, 129, 281-288.	0.7	9

#	ARTICLE	IF	CITATIONS
19	Catalytic decomposition mechanism of aqueous ammonium dinitramide solution elucidated by thermal and spectroscopic methods. <i>Thermochimica Acta</i> , 2020, 686, 178544.	1.2	9
20	Decomposition Kinetics of Substituted Energetic Isowurtzitane Cage Molecules Hexanitrohexaazaisowurtzitane (CL <sub>20</sub> ) and TEX: A Comparative Study. <i>ChemistrySelect</i> , 2019, 4, 6821-6826.	0.7	7
21	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
22	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
23	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.	1.7	1
24	Elastic and phonon-mode anomalies with temperature in the energetic material $C_6H_6N_4O_8$ .	1.1	1
25	Nanoparticle Aluminum Preparation. , 2019, , .		0