

# Qian Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

12  
papers

133  
citations

1306789

7  
h-index

1199166

12  
g-index

13  
all docs

13  
docs citations

13  
times ranked

109  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two nitrogen-rich Ni( $\text{Ni}^{\text{II}}$ ) coordination compounds based on 5,5'-azotetrazole: synthesis, characterization and effect on thermal decomposition for RDX, HMX and AP. <i>RSC Advances</i> , 2015, 5, 32872-32879.	1.7	22
2	Kinetic Analysis of Overlapping Multistep Thermal Decomposition of 2,6-Diamino-3,5-dinitropyrazine-1-oxide (LLM-105). <i>Journal of Physical Chemistry C</i> , 2018, 122, 25999-26006.	1.5	20
3	Initial Mechanisms for the Unimolecular Thermal Decomposition of 2,6-Diamino-3,5-dinitropyrazine-1-oxide. <i>Molecules</i> , 2019, 24, 125.	1.7	18
4	A mechanism for two-step thermal decomposition of 2,6-diamino-3,5-dinitropyrazine-1-oxide (LLM-105). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13729-13736.	1.3	16
5	Comprehensive Study of the Interaction and Mechanism between Bistetrazole Ionic Salt and Ammonium Nitrate Explosive in Thermal Decomposition. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27286-27294.	1.5	13
6	The effects of $\text{H}^+$ , $\text{NH}_3\text{OH}^+$ and $\text{NH}_4^+$ on the thermal decomposition of bistetrazole $\text{N}^-$ -oxide anion. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15215-15221.	1.3	9
7	Gas Releasing Mechanism of LLM-105 Using Two-Dimensional Correlation Infrared Spectroscopy. <i>Propellants, Explosives, Pyrotechnics</i> , 2019, 44, 1375-1383.	1.0	8
8	Application of a multi-channel in-situ infrared spectroscopy: The case of LLM-105. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 240, 118577.	2.0	6
9	Turn a Weakness into a Strength: Performance Enhancement of 2,6-Diamino-3,5-dinitropyrazine-1-oxide (LLM-105) via Defect Engineering. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2739-2747.	1.5	6
10	Thermal hazard evaluation of N-guanylurea dinitramide (GUDN) by using kinetic-based simulation approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 905-913.	2.0	5
11	Kinetics and mechanism of decomposition induced by solvent evolution in ICM-101 solvates: solvent-evolution-induced low-temperature decomposition. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3563-3569.	1.3	5
12	Comparative Study of the Decomposition Mechanism and Kinetics of Biimidazole-Based Energetic Explosives. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3672-3678.	1.1	5