

Anatoly Mitrofanov

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving tunable chemical reactivity through photo-initiation of energetic materials at metal oxide surfaces. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 25284-25296.	2.8	6
2	Effect of Decomposition of CuO Film on Ignition of Organic Explosives by a Laser Pulse. <i>Propellants, Explosives, Pyrotechnics</i> , 2019, 44, 1554-1561.	1.6	4
3	Ignition of Organic Explosive Materials by a Copper Oxide Film Absorbing a Laser Pulse. <i>Propellants, Explosives, Pyrotechnics</i> , 2018, 43, 992-998.	1.6	7
4	Can a Photosensitive Oxide Catalyze Decomposition of Energetic Materials?. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1153-1161.	3.1	12
5	Photochemistry of the Al_2O_3 -PETN Interface. <i>Molecules</i> , 2016, 21, 289.	3.8	8
6	Influence of the thickness and absorption coefficient of a copper oxide film on the ignition delay of PETN by a laser pulse. <i>Combustion, Explosion and Shock Waves</i> , 2016, 52, 91-95.	0.8	4
7	Sensitization of PETN to laser radiation by opaque film coating. <i>Combustion and Flame</i> , 2016, 172, 215-221.	5.2	9
8	Role of Hydrogen Abstraction Reaction in Photocatalytic Decomposition of High Energy Density Materials. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24835-24846.	3.1	5
9	A Fluctuation Model of Photoinitiation of High-Sensitivity Energetic Materials. <i>Russian Physics Journal</i> , 2016, 59, 166-170.	0.4	0
10	Photo- and thermochemical initiation of PETN under laser excitation. <i>Russian Journal of Physical Chemistry B</i> , 2014, 8, 687-691.	1.3	8
11	Effect of the microfocal nature of the initiation of the explosive decomposition reaction on the efficiency of laser initiation. <i>Russian Journal of Physical Chemistry B</i> , 2014, 8, 848-851.	1.3	0
12	Initiation of Tetranitropentaerythrit by Millisecond Laser Pulses. <i>Russian Physics Journal</i> , 2014, 56, 1357-1362.	0.4	5
13	Topography of Photochemical Initiation in Molecular Materials. <i>Molecules</i> , 2013, 18, 14148-14160.	3.8	22
14	Understanding Limits of the Thermal Mechanism of Laser Initiation of Energetic Materials. <i>Journal of Physical Chemistry C</i> , 2012, 116, 24482-24486.	3.1	49
15	Laser Initiation of Energetic Materials: Selective Photoinitiation Regime in Pentaerythritol Tetranitrate. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6893-6901.	3.1	90
16	Laser initiation of PETN in the mode of resonance photoinitiation. <i>Russian Journal of Physical Chemistry B</i> , 2011, 5, 67-74.	1.3	14
17	Model of the photostimulated fragmentation of PETN molecules in selective photoinitiation. <i>Russian Journal of Physical Chemistry B</i> , 2011, 5, 821-823.	1.3	7
18	Photochemical and photothermal dissociation of PETN during laser initiation. <i>Russian Journal of Physical Chemistry B</i> , 2011, 5, 658-660.	1.3	5

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19	Laser initiation of PETN containing light-scattering additives. <i>Technical Physics Letters</i> , 2010, 36, 285-287.	0.7	10
20	Preexplosion stage duration in laser-initiated PETN. <i>Technical Physics Letters</i> , 2009, 35, 1051-1053.	0.7	5
21	Emission of electrons from silver azide at the preexplosion stage. <i>Russian Journal of Physical Chemistry B</i> , 2008, 2, 720-721.	1.3	1
22	Expansion of explosion products of silver azide. <i>Russian Journal of Physical Chemistry B</i> , 2007, 1, 570-572.	1.3	1
23	Effect of radiation treatment on the explosive conduction kinetics of heavy metal azides. <i>Combustion, Explosion and Shock Waves</i> , 2007, 43, 691-696.	0.8	1
24	Origin And Propagation Characteristics Of The Explosive Decomposition Chain Reaction In Heavy Metal Azides. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
25	Effect of the initiating pulse energy on the kinetics of preexplosion processes in silver azide. <i>Technical Physics Letters</i> , 2004, 30, 772-773.	0.7	1
26	Time-resolved picture of initiation and propagation of preexplosive luminescence in AgN ₃ . <i>Combustion and Flame</i> , 2004, 137, 538-540.	5.2	4
27	Dynamic Topography of Silver Azide Pre-Explosion Luminescence. <i>Combustion, Explosion and Shock Waves</i> , 2003, 39, 581-584.	0.8	5
28	Propagation of the Chain Explosive-Decomposition Reaction in Silver Azide Crystals. <i>Combustion, Explosion and Shock Waves</i> , 2003, 39, 701-703.	0.8	4
29	Kinetics of the Early Stage of Preexplosion Conduction in Silver Azide. <i>Combustion, Explosion and Shock Waves</i> , 2002, 38, 378-380.	0.8	4
30	Role of electronic excitations in explosive decomposition of solids. <i>Journal of Applied Physics</i> , 2001, 89, 4156-4166.	2.5	120
31	Lead azide pre-explosive luminescence. <i>Russian Physics Journal</i> , 2000, 43, 181-184.	0.4	0
32	Preexplosion phenomena in heavy metal azides. <i>Combustion, Explosion and Shock Waves</i> , 2000, 36, 622-632.	0.8	12
33	Predetonation luminescence spectrum of thallium azide. <i>Technical Physics Letters</i> , 1999, 25, 350-351.	0.7	0
34	Kinetics of predetonation conductivity of silver azide. <i>Technical Physics Letters</i> , 1999, 25, 904-905.	0.7	0
35	Explosive Luminescence of Heavy Metal Azides. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 207, 535-540.	1.5	5