Denis R Nurmukhametov

List of Publications by Year
in descending order

51 papers	500 citations	840776 11 h-index	752698 20 g-index
51 all docs	51 docs citations	51 times ranked	176 citing authors

#	Article	IF	Citations
1	RDX-Al and PETN-Al compositesâ€™ glow spectral kinetics at the explosion initiated with laser pulse. Combustion and Flame, 2021, 223, 376-381.	5.2	5
2	Achieving tunable chemical reactivity through photo-initiation of energetic materials at metal oxide surfaces. Physical Chemistry Chemical Physics, 2020, 22, 25284-25296.	2.8	6
3	Laser pulse initiation of RDX-Al and PETN-Al composites explosion. Combustion and Flame, 2020, 216, 468-471.	5.2	21
4	Absorption profile of laser impulse of composites based on transparent matrix and metal nanoparticles. Thermal Science, 2019, 23, 553-560.	1.1	1
5	Absorption Spectra of Gold Nanoparticle Suspensions. Russian Physics Journal, 2018, 60, 1651-1658.	0.4	2
6	Optoacoustic Effects in Pentaerythritol Tetranitrate with Ultrafine Aluminum-Particle Inclusions under Pulsed-Laser Action. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 124, 412-417.	0.6	10
7	Spectral-kinetic characteristics of luminescence of pentaerythritol tetranitrate with inclusions of iron nanoparticles upon explosion induced by laser pulses. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rg BT /Overlock 10 T	0.6	4
8	Laser Initiation of PETN containing Nickel Inclusions. IOP Conference Series: Materials Science and Engineering, 2017, 168, 012011.	0.6	0
9	Photoacoustic Signals in Methylene Blue Solutions in Water/Glycerol Mixture Containing Titanium Dioxide Nanoparticles. Journal of Applied Spectroscopy, 2017, 84, 413-419.	0.7	2
10	Measuring the temperature of PETN explosion products with iron inclusions. Combustion, Explosion and Shock Waves, 2017, 53, 349-352.	0.8	4
11	Spectrokinetic characteristics of light emission at the early stages of the laser-initiated explosive decomposition of PETN-based composites containing metal nanoparticle inclusions. Russian Journal of Physical Chemistry B, 2017, 11, 460-465.	1.3	8
12	Observation of surface plasmon resonance of gold nanoparticles in energy-related material: pentaerythritol tetranitrate. Quantum Electronics, 2017, 47, 647-650.	1.0	4
13	Laser initiation of compositions based on PETN with submicron coal particles. Combustion, Explosion and Shock Waves, 2016, 52, 593-599.	0.8	6
14	Laser initiation of PETN-based composites with additives of ultrafine aluminium particles. Combustion, Explosion and Shock Waves, 2016, 52, 713-718.	0.8	15
15	Laser initiation of PETNâ€“iron nanoparticle composites. Russian Journal of Physical Chemistry B, 2016, 10, 615-620.	1.3	9
16	The regulation of secondary explosives sensitivity to laser influence. IOP Conference Series: Materials Science and Engineering, 2016, 110, 012010.	0.6	2
17	Laser ignition of low-rank coal. Russian Journal of Physical Chemistry B, 2016, 10, 963-965.	1.3	12
18	Temperature dependence of the threshold of initiation of pentaerythritol tetranitrateâ€“aluminum composite by second-harmonic radiation of a neodymium laser. Russian Journal of Physical Chemistry B, 2015, 9, 644-647.	1.3	4

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19	Determining the optical properties of light-diffusing systems using a photometric sphere. Instruments and Experimental Techniques, 2015, 58, 765-770.	0.5	12
20	Characteristics of the initiation of the explosive decomposition of PETN by the second-harmonic pulsed radiation of a neodymium laser. Russian Journal of Physical Chemistry B, 2015, 9, 915-920.	1.3	6
21	Initiation of Explosion of Pentaerythritol Tetranitrate by Pulses of the First and Second Harmonics of a Neodymium Laser. Russian Physics Journal, 2015, 58, 1093-1097.	0.4	10
22	Studies of the contribution of light scattering and absorption by inclusions of aluminum nanoparticlese in PETN. Combustion, Explosion and Shock Waves, 2015, 51, 347-352.	0.8	8
23	Influence of the size of inclusions of ultrafine nickel particles on the laser initiation threshold of PETN. Combustion, Explosion and Shock Waves, 2015, 51, 472-475.	0.8	8
24	Integrating sphere study of the optical properties of aluminum nanoparticles in tetranitropentaerytrite. Technical Physics, 2014, 59, 1387-1392.	0.7	27
25	Light absorption by formulations based on PETN and aluminum nanoparticles during pulsed laser irradiation. Russian Journal of Physical Chemistry B, 2014, 8, 852-855.	1.3	9
26	Influence of the mass fraction of oxide in aluminum nanoparticles on the explosive decomposition threshold and light absorption efficiency in PETN-based compounds. Combustion, Explosion and Shock Waves, 2014, 50, 578-581.	0.8	4
27	Initiation of PETN explosion by the second harmonic pulse of a neodymium laser. Combustion, Explosion and Shock Waves, 2014, 50, 113-117.	0.8	6
28	Controlling pentaerythrite tetranitrate sensitivity to the laser effect through the addition of nickel and aluminum nanoparticles. Russian Journal of Physical Chemistry B, 2014, 8, 352-355.	1.3	19
29	A study into light scattering and absorption by aluminum nanoparticles in PETN. Journal of Physics: Conference Series, 2014, 552, 012032.	0.4	1
30	Effect of ultrafine Al-C particle additives on the PETN sensitivity to radiation exposure. Combustion, Explosion and Shock Waves, 2013, 49, 215-218.	0.8	21
31	Explosive decomposition of PETN with nanoaluminum additives under the influence of pulsed laser radiation at different wavelengths. Russian Journal of Physical Chemistry B, 2013, 7, 453-456.	1.3	36
32	Effect of the initial temperature on the threshold of laser initiation of pentaerythritol tetranitrate seeded with aluminum nanoparticles. Russian Journal of Physical Chemistry B, 2012, 6, 511-516.	1.3	3
33	Initiation of the explosive decomposition of pentaerythritol tetranitrate with ultradispersed particle additives by laser pulses. Solid Fuel Chemistry, 2012, 46, 371-374.	0.7	6
34	Photosensitive material based on PETN mixtures with aluminum nanoparticles. Combustion, Explosion and Shock Waves, 2012, 48, 361-366.	0.8	31
35	Laser Initiation of Energetic Materials: Selective Photoinitiation Regime in Pentaerythritol Tetranitrate. Journal of Physical Chemistry C, 2011, 115, 6893-6901.	3.1	90
36	Laser initiation of PETN in the mode of resonance photoinitiation. Russian Journal of Physical Chemistry B, 2011, 5, 67-74.	1.3	14

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37	The influence of added aluminum nanoparticles on the sensitivity of pentaerythritol tetranitrate to laser irradiation. Russian Journal of Physical Chemistry B, 2011, 5, 290-292.	1.3	8
38	Photochemical and photothermal dissociation of PETN during laser initiation. Russian Journal of Physical Chemistry B, 2011, 5, 658-660.	1.3	5
39	Laser initiation of PETN containing light-scattering additives. Technical Physics Letters, 2010, 36, 285-287.	0.7	10
40	Efficiency of laser initiation and absorption spectra of PETN. Russian Journal of Physical Chemistry B, 2010, 4, 63-65.	1.3	7
41	Pressure of the products of the explosive decomposition of a mixture of pentaerythritol tetranitrate and nickel monocarbide nanoparticles initiated by laser radiation. Russian Journal of Physical Chemistry B, 2010, 4, 81-84.	1.3	5
42	Laser initiation of a mixture of PETN with NiC nanoparticles at elevated temperatures. Russian Journal of Physical Chemistry B, 2010, 4, 452-456.	1.3	3
43	Sensitivity of a mechanical mixture of pentaerythrite tetranitrate and Ni-C nanoparticles to explosion initiation by laser pulses. Combustion, Explosion and Shock Waves, 2009, 45, 59-63.	0.8	7
44	Preexplosion stage duration in laser-initiated PETN. Technical Physics Letters, 2009, 35, 1051-1053.	0.7	5
45	Effect of additives of nickel monocarbide nanoparticles on the sensitivity of pentaerythritol tetranitrate to laser irradiation. Russian Journal of Physical Chemistry B, 2009, 3, 923-925.	1.3	3
46	Effect of temperature on the laser initiation of pentaerythritol tetranitrate (PETN). Russian Journal of Physical Chemistry B, 2008, 2, 375-377.	1.3	6
47	Effect of radiation treatment on the explosive conduction kinetics of heavy metal azides. Combustion, Explosion and Shock Waves, 2007, 43, 691-696.	0.8	1
48	Determining the temperature of silver azide explosion products. Technical Physics Letters, 2006, 32, 23-24.	0.7	2
49	Effect of preliminary irradiation on the detonation sensitivity of lead azide. Technical Physics Letters, 2006, 32, 28-29.	0.7	5
50	Effect of radiation treatment on silver azide sensitivity. Combustion, Explosion and Shock Waves, 2006, 42, 227-230.	0.8	3
51	Luminescence of Silver Azide under Pulsed Excitation. Combustion, Explosion and Shock Waves, 2005, 41, 467-473.	0.8	4