Evgeny N Bodunov

List of Publications by Year
in descending order

49	1,257	567281 15	361022 35
papers	citations	h-index	g-index

49	49	49	1747
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mathematical functions for the analysis of luminescence decays with underlying distributions 1. Kohlrausch decay function (stretched exponential). Chemical Physics, 2005, 315, 171-182.	1.9	504
2	On the barometric formula. American Journal of Physics, 1997, 65, 404-412.	0.7	124
3	Mathematical functions for the analysis of luminescence decays with underlying distributions: 2. Becquerel (compressed hyperbola) and related decay functions. Chemical Physics, 2005, 317, 57-62.	1.9	96
4	On the origin of stretched exponential (Kohlrausch) relaxation kinetics in the room temperature luminescence decay of colloidal quantum dots. Journal of Chemical Physics, 2017, 146, 114102.	3.0	43
5	Inductive-resonant mechanism of nonradiative transitions in ions and molecules in condensed phase. Physics-Uspekhi, 1996, 39, 261-282.	2.2	42
6	Roomâ€temperature luminescence decay of colloidal semiconductor quantum dots: Nonexponentiality revisited. Annalen Der Physik, 2016, 528, 272-277.	2.4	42
7	History of the Kohlrausch (stretched exponential) function: Pioneering work in luminescence. Annalen Der Physik, 2008, 17, 460-461.	2.4	41
8	The van der Waals equation: analytical and approximate solutions. Journal of Mathematical Chemistry, 2008, 43, 1437-1457.	1.5	30
9	Classical and quantum study of the motion of a particle in a gravitational field. Journal of Mathematical Chemistry, 2005, 37, 101-115.	1.5	27
10	Photoluminescence Decay of Colloidal Quantum Dots: Reversible Trapping and the Nature of the Relevant Trap States. Journal of Physical Chemistry C, 2019, 123, 25515-25523.	3.1	23
11	Eigenvalue spectrum of the survival probability of excitation in nonradiative energy transport. Chemical Physics, 2000, 259, 49-61.	1.9	21
12	Electronic energy transfer in linear polymers randomly labelled with chromophores. Chemical Physics, 2001, 274, 243-253.	1.9	20
13	Electronic energy transfer between molecules diffusing on spherical particles: approximate expressions for the decay law of the donor. Chemical Physics Letters, 1998, 297, 419-427.	2.6	17
14	Kinetics of Photoluminescence Decay of Colloidal Quantum Dots: Nonexponential Behavior and Detrapping of Charge Carriers. Journal of Physical Chemistry C, 2018, 122, 10637-10642.	3.1	17
15	Dynamics of electronic energy transfer in linear chain polymers. Chemical Physics Letters, 2001, 340, 137-141.	2.6	15
16	Fluorescence quenching kinetics in short polymer chains: Dependence on chain length. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 95, 560-570.	0.6	15
17	Luminescence Decay of Colloidal Quantum Dots and Stretched Exponential (Kohlrausch) Relaxation Function. Semiconductors, 2018, 52, 587-589.	0.5	15
18	Electronic energy transfer in polymers labeled at both ends with fluorescent groups. Journal of Luminescence, 2002, 96, 269-278.	3.1	14

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19	Liquidâ€“vapor equilibrium in a gravitational field. American Journal of Physics, 2002, 70, 438-443.	0.7	13
20	Kinetics of Photoluminescence Decay of Colloidal Quantum Dots: Reversible Trapping of Photogenerated Charge Carriers. Semiconductors, 2019, 53, 2133-2136.	0.5	12
21	Short-range order effect on resonance energy transfer in rigid solution. Chemical Physics, 2004, 301, 9-14.	1.9	11
22	Effect of dimensionality and size on tripletâ€“triplet annihilation. Chemical Physics, 2005, 316, 217-224.	1.9	11
23	Kinetics of Coarsening and Precipitation of Dilute Polymer Solutions:Â Fluorescence Study of PEO in Toluene. Macromolecules, 2002, 35, 6397-6403.	4.8	10
24	Luminescence Decays with Underlying Distributions of Rate Constants: General Properties and Selected Cases. Springer Series on Fluorescence, 2007, , 67-103.	0.8	10
25	On the barometric formula inside the Earth. Journal of Mathematical Chemistry, 2010, 47, 990-1004.	1.5	10
26	Luminescence kinetics of linear polymer molecules with chromophores randomly distributed along the chain. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 91, 694-703.	0.6	8
27	The Role of Physical Models in the Description of Luminescence Kinetics of Hybrid Nanowires. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 119-124.	0.6	8
28	Luminescence kinetics of chromophores attached to the ends of a flexible polymer chain. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2000, 89, 876-883.	0.6	6
29	Stretched exponential kinetics of the luminescence concentration depolarization and penetration depth of molecules in a medium. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	0.6	6
30	Kinetics of radiationless energy transfer from upper excited states. Chemical Physics Letters, 1997, 274, 171-176.	2.6	5
31	Short-and long-range order effects on resonance energy transfer in crystals and glasses. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2004, 97, 375-380.	0.6	5
32	Concentration depolarization of the fluorescence of viscous solutions. Journal of Applied Spectroscopy, 1977, 26, 814-816.	0.7	4
33	Size effects in triplet-triplet annihilation: I. Standard and statistical approaches. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 918-922.	0.6	4
34	On the form of size distribution function of quantum dots. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	0.6	4
35	Electronic Energy Transfer in Linear Polymer Chains. High Energy Chemistry, 2002, 36, 245-249.	0.9	3
36	Size effects in triplet-triplet annihilation: II. Monte carlo simulations. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 100, 539-545.	0.6	3

#	Article	IF	Citations
37	Resonant energy transfer in rigid solutions of semiconductor quantum dots with a concentration gradient. Proceedings of SPIE, 2014, , .	0.8	3
38	Sensitized Luminescence Kinetics as a Tool for Identification of Nonradiative Energy Transfer. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2021, 129, 205-211.	0.6	3
39	Paper by V L Ermolaev, E B Sveshnikova and E N Bodunov 'Inductive-resonant mechanism of nonradiative transitions in ions and molecules in condensed phase' [Physics â€“ Uspekhi, March 1996, 39 (3) 261 â€“ 282]. Physics-Uspekhi, 1997, 40, 335-335.	2.2	2
40	Luminescence kinetics of linear polymer molecules with chromophores regularly distributed along the chain. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 91, 873-877.	0.6	2
41	The effect of the size of polymer chain on the energy transfer between chromophores bound to the ends of the chain. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 117, 213-219.	0.6	2
42	Stretch exponential luminescence decay of CdSe/ZnS quantum dots in colloidal solutions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 118, 99-102.	0.6	2
43	Radiationless Energy Transfer Between Ions in Solutions (Theory). Spectroscopy Letters, 1978, 11, 435-444.	1.0	1
44	Kinetics of the luminescence of inhomogeneously broadened systems at low temperature. Journal of Applied Spectroscopy, 1984, 41, 1123-1126.	0.7	1
45	Luminescence quenching kinetics upon diffusion-accelerated dipole-dipole energy transfer for a realistic condensed-matter model. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf		1
46	Barometric formula for non-isothermal atmosphere. Journal of Physics: Conference Series, 2021, 2131, 022053.	0.4	1
47	Theoretical study of migration processes and nonradiative energy transfer in media with inhomogeneously broadened spectral lines. Journal of Applied Spectroscopy, 1980, 32, 482-487.	0.7	0
48	Migrationally accelerated quenching of luminescence in disordered media. Journal of Applied Spectroscopy, 1991, 55, 1073-1077.	0.7	0
49	Calculation of kinetics of cooperative luminescence quenching in the nearest-neighbor approximation. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2012, 113, 505-511.	0.6	0