

# Nikolai Kh Petrov

## List of Publications by Year in descending order

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52  
papers

618  
citations

623734

14  
h-index

642732

23  
g-index

53  
all docs

53  
docs citations

53  
times ranked

421  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent effect on magnetic field modulation of exciplex fluorescence in polar solutions. <i>Chemical Physics Letters</i> , 1981, 82, 339-343.	2.6	75
2	The 1:1 Host-Guest Complexation between Cucurbit[7]uril and Styryl Dye. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4505-4510.	2.5	48
3	The effect of cucurbit[7]uril on photophysical properties of aqueous solution of 3,3'-diethylthiacarbocyanine iodide dye. <i>Chemical Physics Letters</i> , 2009, 480, 96-99.	2.6	45
4	Study of preferential solvation in binary solvent mixtures by the spectro-streak picosecond technique. <i>Chemical Physics Letters</i> , 1995, 241, 127-132.	2.6	37
5	Polar molecular clusters produced upon photoinduced electron transfer in an intermolecular exciplex in binary solvents. <i>The Journal of Physical Chemistry</i> , 1992, 96, 2901-2903.	2.9	32
6	Transient dynamics of solvatochromic shift in binary solvents. <i>Journal of Chemical Physics</i> , 1998, 108, 2326-2330.	3.0	28
7	A simple kinetic model of preferential solvation in binary mixtures. <i>Chemical Physics Letters</i> , 2001, 349, 517-520.	2.6	24
8	Study of preferential solvation in binary solvent mixtures by the fluorescence-detected magnetic field effect. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 109.	1.7	23
9	Fluorescence-Detected Magnetic Field Effects in Exciplex Systems Containing Azacrown Ethers as Electron Donor. <i>The Journal of Physical Chemistry</i> , 1996, 100, 6368-6370.	2.9	22
10	Structure determination of thiocyanine dye J-aggregates in thin films: Comparison between spectroscopy and wide angle X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 3309.	2.8	22
11	Photophysical Properties of 3,3'-Diethylthiacarbocyanine Iodide in Binary Mixtures. <i>Journal of Physical Chemistry A</i> , 2003, 107, 6341-6344.	2.5	20
12	A fluorescence spectroscopy study of preferential solvation in binary solvents. <i>High Energy Chemistry</i> , 2006, 40, 22-34.	0.9	19
13	Intramolecular Electron Hopping in Double Carbazole Molecules Studied by the Fluorescence-Detected Magnetic Field Effect. <i>Journal of Physical Chemistry A</i> , 1999, 103, 9601-9604.	2.5	17
14	Metal-Ion Detection by the Magnetic-Field-Sensitive Fluorescence of Intramolecular Exciplexes Containing Aza-Crown-Ether Moieties as Electron Donor. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7043-7046.	2.5	14
15	Supramolecular assembler based on cucurbit[8]uril: Photodimerization of a styryl dye in water. <i>High Energy Chemistry</i> , 2014, 48, 253-259.	0.9	14
16	Ultrafast relaxation of electronically-excited states of a styryl dye in the cavity of cucurbit[n]urils (n= 6, 7). <i>Chemical Physics Letters</i> , 2016, 647, 157-160.	2.6	13
17	Preferential solvation of spherical ions in binary DMSO/benzene mixtures. <i>Journal of Chemical Physics</i> , 2009, 130, 024504.	3.0	11
18	Solvation-Shell Effect on the Cyanine-Dye Fluorescence in Binary Liquid Mixtures. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007, 221, 537-547.	2.8	10

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19	The specific feature of photochemical processes in molecules of 3,3'-dialkylthiacarbocyanines in binary solvent mixtures. High Energy Chemistry, 2009, 43, 38-43.	0.9	10
20	Advanced dielectric continuum model of preferential solvation. Journal of Chemical Physics, 2009, 130, 024505.	3.0	10
21	The dielectric continuum solvent model adapted for treating preferential solvation effects. Journal of Electroanalytical Chemistry, 2011, 660, 339-346.	3.8	10
22	The microheterogeneous structure of ionic liquid mixtures with organic solvent determined by a cyanine-dye fluorescent probe. Chemical Physics Letters, 2012, 551, 111-114.	2.6	9
23	A fast relaxation of electronically-excited inclusion complexes of a styryl dye with cucurbit[7]uril. Chemical Physics Letters, 2014, 610-611, 91-94.	2.6	9
24	Adsorption phenomena in the systems containing macrocyclic cavitand cucurbit [7]uril. Russian Journal of Electrochemistry, 2017, 53, 103-109.	0.9	9
25	Title is missing!. Journal of Fluorescence, 2002, 12, 19-24.	2.5	7
26	Photophysical properties of aqueous solutions of a styryl dye in the presence of cucurbit[n]uril (n = 5, 6, 7). Journal of Fluorescence, 2002, 12, 19-24.	0.9	7
27	A Fluorimeter on the Basis of a Femtosecond Cr+4: Forsterite Laser. Instruments and Experimental Techniques, 2018, 61, 556-561.	0.5	7
28	Ultrafast Dynamics of Electronically Excited Host-Guest Complexes of Cucurbiturils with Styryl Dyes. ACS Omega, 2019, 4, 11500-11507.	3.5	7
29	Potential of mean force for ion pairs in non-aqueous solvents. Comparison of polarizable and non-polarizable MD simulations. Molecular Physics, 2011, 109, 217-227.	1.7	5
30	Ultrafast kinetics of fluorescence decay of aqueous solutions of styryl dye derivatives and their complexes with cucurbit[7]uril. Nanotechnologies in Russia, 2016, 11, 221-226.	0.7	5
31	The Time-Resolved Fluorescence Stokes Shift of Cucurbit[6]Urils Complexes with a Pyridinium Styryl Dye. Journal of Fluorescence, 2018, 28, 883-887.	2.5	5
32	Comment on the "Magnetic Field Effects on Exciplex Luminescence in Water-Tetrahydrofuran and Water-Dioxane Mixtures". Journal of Physical Chemistry A, 1998, 102, 7878-7879.	2.5	4
33	Primary photoprocesses in molecules of carbocyanine dyes in binary solvent mixtures. High Energy Chemistry, 2010, 44, 25-30.	0.9	4
34	An ultrafast pre-organization of the [2 + 2] photocycloaddition of styryl dyes in 1:2 host-guest complexes with cucurbit[8]urils. Chemical Physics Letters, 2017, 673, 99-102.	2.6	4
35	An Absorption-Fluorescence Method for Estimation of the Efficiency of Nonradiative Relaxation of Cyanine Dyes. High Energy Chemistry, 2004, 38, 381-386.	0.9	3
36	Nonradiative Relaxation of Thiocarbocyanine Dyes in Binary Mixtures. Journal of Fluorescence, 2004, 14, 87-89.	2.5	3

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37	Effect of counterions on photoprocesses of thiocarbocyanine in a binary solvent blend. High Energy Chemistry, 2010, 44, 376-382.	0.9	3
38	Time-resolved fluorescence anisotropy of styryl dye-cucurbituril complexes. High Energy Chemistry, 2017, 51, 72-74.	0.9	3
39	Magnetic field effects detected by exciplex fluorescence and preferential solvation in binary solvents. The effect of temperature. Russian Chemical Bulletin, 1993, 42, 1746-1748.	1.5	2
40	Magnetic Field Effects on Exciplex Fluorescence of the Pyrene-Azacrown Ether System in the Presence of Alkali and Alkaline Earth Salts. Mendeleev Communications, 1995, 5, 4-5.	1.6	2
41	Decay kinetics of the excited S1 state of the cyanine dye Cy+I <sup>-</sup> (thiocarbocyanine iodide): The computation of quantum yields for different pathways. Journal of Chemical Physics, 2011, 135, 144504.	3.0	2
42	Adsorption of Cucurbit[6]uril and styryl dye complexes on the surface of silver nanoparticles. Nanotechnologies in Russia, 2017, 12, 125-131.	0.7	2
43	Effect of Heavy Water on Ultrafast Dynamics of the Fluorescence Stokes Shift for a Styryl Dye and its Complexes with Cucurbiturils. High Energy Chemistry, 2018, 52, 269-271.	0.9	2
44	[2+2] Photocycloaddition of Styryl Dyes in the Cucurbit[8]uril Cavity and Its Ultrafast Dynamics. High Energy Chemistry, 2019, 53, 204-210.	0.9	2
45	A Supercontinuum Generator with Pumping by Pulses of Chromium-Forsterite-Based Femtosecond Laser in Transparent Condensed Media. Instruments and Experimental Techniques, 2020, 63, 846-852.	0.5	2
46	Mechanism of Complexation of Cucurbiturils with Styryl Dyes in the Presence of Sodium Cations. High Energy Chemistry, 2020, 54, 403-413.	0.9	2
47	Inclusion Complexes of Styryl Dyes with Cucurbiturils: Ultrafast Relaxation of Electronically Excited States. High Energy Chemistry, 2022, 56, 149-157.	0.9	2
48	Potential of the cage effect in binary solvents detected by magnetic modulation of exciplex fluorescence. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1991, 40, 2139-2144.	0.0	1
49	A Wide-Band Femtosecond Pump-Probe Spectrometer Based on a Laser with an Active Medium Based on Chromium-Doped Forsterite Crystal. Instruments and Experimental Techniques, 2019, 62, 548-553.	0.5	1
50	Magnetic modulation of the luminescence of pyrene-N,N-dimethylaniline exciplexes in solutions of reverse micelles. Bulletin of the Academy of Sciences of the USSR Division of Chemical Science, 1990, 39, 1746-1748.	0.0	0
51	The Distribution of Internal Distances for Ionic Pairs in Solvents of Various Polarity. , 2012, , 19-48.		0
52	Fluorescent Properties of Inclusion Complexes of a Styryl Dye with Metal-Organic Coordination Polymer of Zinc Lactate Terephthalate. High Energy Chemistry, 2019, 53, 170-172.	0.9	0