

Eugene P Petrov

List of Publications by Year in descending order

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57
papers

2,665
citations

201674

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60
all docs

60
docs citations

60
times ranked

3260
citing authors

#	ARTICLE	IF	CITATIONS
1	Rac1 activation can generate untemplated, lamellar membrane ruffles. BMC Biology, 2021, 19, 72.	3.8	13
2	Membrane-Mediated Self-Organization of Rod-Like DNA Origami on Supported Lipid Bilayers. Advanced Materials Interfaces, 2021, 8, 2101094.	3.7	4
3	A Method for High-Throughput Measurements of Viscosity in Sub-micrometer-Sized Membrane Systems. ChemBioChem, 2020, 21, 836-844.	2.6	12
4	Quantifying Reversible Surface Binding via Surface-Integrated Fluorescence Correlation Spectroscopy. Nano Letters, 2018, 18, 3185-3192.	9.1	32
5	Nanomaterial interactions with biomembranes: Bridging the gap between soft matter models and biological context. Biointerphases, 2018, 13, 028501.	1.6	23
6	Photophysical Behavior of mNeonGreen, an Evolutionarily Distant Green Fluorescent Protein. Biophysical Journal, 2018, 114, 2419-2431.	0.5	25
7	Control of Membrane Binding and Diffusion of Cholesteryl-Modified DNA Origami Nanostructures by DNA Spacers. Langmuir, 2018, 34, 14921-14931.	3.5	39
8	Molecular movements in biomembranes. Journal Physics D: Applied Physics, 2017, 50, 060201.	2.8	1
9	Conformations and membrane-driven self-organization of rodlike fd virus particles on freestanding lipid membranes. Soft Matter, 2017, 13, 7172-7187.	2.7	18
10	Effect of anchor positioning on binding and diffusion of elongated 3D DNA nanostructures on lipid membranes. Journal Physics D: Applied Physics, 2016, 49, 194001.	2.8	31
11	Interactions of rod-like particles on responsive elastic sheets. Soft Matter, 2016, 12, 7908-7919.	2.7	22
12	Single DNA molecules on freestanding and supported cationic lipid bilayers: diverse conformational dynamics controlled by the local bilayer properties. Journal Physics D: Applied Physics, 2016, 49, 074001.	2.8	7
13	Cytoskeletal Pinning Controls Phase Separation in Multicomponent Lipid Membranes. Biophysical Journal, 2015, 108, 1104-1113.	0.5	52
14	DNA Origami Nanoneedles on Freestanding Lipid Membranes as a Tool To Observe Isotropic-Nematic Transition in Two Dimensions. Nano Letters, 2015, 15, 649-655.	9.1	44
15	Self-Diffusion in Cell Membranes in the Long Time Regime. Applied Magnetic Resonance, 2014, 45, 1389-1403.	1.2	2
16	Modeling DNA condensation on freestanding cationic lipid membranes. Physical Chemistry Chemical Physics, 2014, 16, 2020-2037.	2.8	40
17	Lattice-Based Monte Carlo Simulations of Lipid Membranes: Correspondence between Triangular and Square Lattices. Biophysical Journal, 2014, 106, 290a-291a.	0.5	0
18	Cytoskeletal Pinning Prevents Large-Scale Phase Separation in Model Membranes. Biophysical Journal, 2013, 104, 252a.	0.5	1

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19	Switchable domain partitioning and diffusion of DNA origami rods on membranes. <i>Faraday Discussions</i> , 2013, 161, 31-43.	3.2	76
20	Efficient Electroformation of Supergiant Unilamellar Vesicles Containing Cationic Lipids on ITO-Coated Electrodes. <i>Langmuir</i> , 2012, 28, 5518-5521.	3.5	60
21	The Role of Lipids in VDAC Oligomerization. <i>Biophysical Journal</i> , 2012, 102, 523-531.	0.5	92
22	Translational and rotational diffusion of micrometer-sized solid domains in lipid membranes. <i>Soft Matter</i> , 2012, 8, 7552.	2.7	62
23	Near-Critical Fluctuations and Cytoskeleton-Assisted Phase Separation Lead to Subdiffusion in Cell Membranes. <i>Biophysical Journal</i> , 2011, 100, 80-89.	0.5	98
24	Phase separation and near-critical fluctuations in two-component lipid membranes: Monte Carlo simulations on experimentally relevant scales. <i>New Journal of Physics</i> , 2011, 13, 045019.	2.9	43
25	DNA Condensation at Freestanding Cationic Lipid Bilayers. <i>Physical Review Letters</i> , 2010, 104, 148102.	7.8	48
26	Temperature-dependent photoluminescence of PbS quantum dots in glass: Evidence of exciton state splitting and carrier trapping. <i>Physical Review B</i> , 2010, 82, .	3.2	111
27	MEMORY IN BLINKING DYNAMICS OF SILVER NANOPARTICLES. , 2009, , .		0
28	Toward understanding the high PDT efficacy of chlorin e6â€™polyvinylpyrrolidone formulations: Photophysical and molecular aspects of photosensitizerâ€™polymer interaction in vitro. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2008, 92, 165-174.	3.8	133
29	Total Internal Reflection Fluorescence Correlation Spectroscopy: Effects of Lateral Diffusion and Surface-Generated Fluorescence. <i>Biophysical Journal</i> , 2008, 95, 390-399.	0.5	44
30	Translational Diffusion in Lipid Membranes beyond the Saffman-DelbrÃ¼ck Approximation. <i>Biophysical Journal</i> , 2008, 94, L41-L43.	0.5	160
31	State of the Art and Novel Trends in Fluorescence Correlation Spectroscopy. <i>Springer Series on Fluorescence</i> , 2008, , 145-197.	0.8	48
32	Comment on The exact expression of the Voigt profile function. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 103, 272-274.	2.3	4
33	Interaction of cationic 5,10,15,20-tetrakis(4-N-methyl pyridyl) porphyrin with mono- and polynucleotides: A study by picosecond fluorescence spectroscopy. <i>Optics and Spectroscopy (English)</i> Tj ETQq1 1 0.784314 zgBT /Over	0.784314	zgBT /Over
34	Intrinsic photophysics of semiconductor nanocrystals in dielectric media: Formation of surface states. <i>Journal of Luminescence</i> , 2006, 119-120, 412-417.	3.1	24
35	Single molecule fluorescence imaging of the photoinduced conversion and bleaching behavior of the fluorescent protein Kaede. <i>Microscopy Research and Technique</i> , 2006, 69, 210-219.	2.2	13
36	Diffusion and Segmental Dynamics of Double-Stranded DNA. <i>Physical Review Letters</i> , 2006, 97, 258101.	7.8	97

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37	Time resolved photoluminescence anisotropy of CdSe/ZnS nanoparticles in toluene at 300 K. Chemical Physics Letters, 2005, 402, 233-238.	2.6	20
38	Nanoassemblies Designed from Semiconductor Quantum Dots and Molecular Arrays. Journal of Physical Chemistry B, 2005, 109, 8679-8692.	2.6	94
39	Investigation of Tetherable Distilbazolium Compounds as Fluorescent Probes in Nanostructured Silica Sol-gel Materials. Photochemistry and Photobiology, 2005, 81, 898.	2.5	2
40	Faraday effect of photonic crystals. Applied Physics Letters, 2003, 82, 1538-1540.	3.3	56
41	Red-edge excitation effect in intramolecular proton transfer in flavonols. , 2002, , .		1
42	Kinetic description of dioxygen binding to human hemoglobin on the 1-100 ns time scale. , 2002, 4749, 355.		0
43	Fluorescence decay time distribution analysis reveals two types of binding sites for 1,8-anilinonaphthalene sulfonate in native human oxyhemoglobin. Biochemistry (Moscow), 2001, 66, 390-396.	1.5	0
44	<title>Photonic crystals for soft x rays</title>. , 2001, , .		1
45	Spontaneous emission of organic molecules and semiconductor nanocrystals in a photonic crystal. Journal of Luminescence, 2000, 87-89, 152-156.	3.1	27
46	Time-resolved fluorescence reveals two binding sites of 1,8-ANS in intact human oxyhemoglobin. Journal of Photochemistry and Photobiology B: Biology, 2000, 58, 156-162.	3.8	21
47	Petrovet al.Reply:. Physical Review Letters, 1999, 83, 5402-5402.	7.8	34
48	Title is missing!. Journal of Fluorescence, 1999, 9, 111-121.	2.5	27
49	Luminescence Properties of Thiol-Stabilized CdTe Nanocrystals. Journal of Physical Chemistry B, 1999, 103, 10109-10113.	2.6	190
50	Spontaneous emission of dye molecules, semiconductor nanocrystals, and rare-earth ions in opal-based photonic crystals. Journal of Lightwave Technology, 1999, 17, 2128-2137.	4.6	80
51	Spontaneous Emission of Organic Molecules Embedded in a Photonic Crystal. Physical Review Letters, 1998, 81, 77-80.	7.8	282
52	Photonic band gap phenomenon and optical properties of artificial opals. Physical Review E, 1997, 55, 7619-7625.	2.1	220
53	Steady-state and time-resolved spectroscopy of porous silicon. Journal of Luminescence, 1996, 70, 364-376.	3.1	21
54	Polarization of porous silicon luminescence. Applied Physics Letters, 1995, 67, 3019-3021.	3.3	23

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55	Time-resolved spectroscopy of visibly emitting porous silicon. Applied Physics Letters, 1994, 64, 85-87.	3.3	30
56	Fluorescence decay time distribution for polar dye solutions with time-dependent fluorescent shift. Biophysical Chemistry, 1992, 44, 47-60.	2.8	27
57	Fluorescence decay time distribution for polar dye solutions with time-dependent fluorescent shift (Biophysical Chemistry, 44 (1992) 47-60). Biophysical Chemistry, 1992, 45, 194-195.	2.8	2