

Nikolay S Makarov

List of Publications by Year in descending order

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80
papers

5,934
citations

117625

34
h-index

82547

72
g-index

81
all docs

81
docs citations

81
times ranked

7855
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-photon absorption standards in the 550-1600 nm excitation wavelength range. <i>Optics Express</i> , 2008, 16, 4029.	3.4	805
2	Two-photon absorption properties of fluorescent proteins. <i>Nature Methods</i> , 2011, 8, 393-399.	19.0	589
3	Spectral and Dynamical Properties of Single Excitons, Biexcitons, and Trions in Cesium-Lead-Halide Perovskite Quantum Dots. <i>Nano Letters</i> , 2016, 16, 2349-2362.	9.1	533
4	Room Temperature Single-Photon Emission from Individual Perovskite Quantum Dots. <i>ACS Nano</i> , 2015, 9, 10386-10393.	14.6	459
5	Highly efficient large-area colourless luminescent solar concentrators using heavy-metal-free colloidal quantum dots. <i>Nature Nanotechnology</i> , 2015, 10, 878-885.	31.5	448
6	An integrated approach to realizing high-performance liquid-junction quantum dot sensitized solar cells. <i>Nature Communications</i> , 2013, 4, 2887.	12.8	255
7	High-Performance CuInS ₂ Quantum Dot Laminated Glass Luminescent Solar Concentrators for Windows. <i>ACS Energy Letters</i> , 2018, 3, 520-525.	17.4	184
8	Thick-Shell CuInS ₂ /ZnS Quantum Dots with Suppressed "Blinking" and Narrow Single-Particle Emission Line Widths. <i>Nano Letters</i> , 2017, 17, 1787-1795.	9.1	179
9	Absolute Two-Photon Absorption Spectra and Two-Photon Brightness of Orange and Red Fluorescent Proteins. <i>Journal of Physical Chemistry B</i> , 2009, 113, 855-859.	2.6	163
10	Platinum Acetylide Two-Photon Chromophores. <i>Inorganic Chemistry</i> , 2007, 46, 6483-6494.	4.0	161
11	Enhanced carrier multiplication in engineered quasi-type-II quantum dots. <i>Nature Communications</i> , 2014, 5, 4148.	12.8	143
12	Photophysical properties and intracellular imaging of water-soluble porphyrin dimers for two-photon excited photodynamic therapy. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 889.	2.8	130
13	Light Emission Mechanisms in CuInS ₂ Quantum Dots Evaluated by Spectral Electrochemistry. <i>ACS Photonics</i> , 2017, 4, 2425-2435.	6.6	115
14	Phase-Transfer Ligand Exchange of Lead Chalcogenide Quantum Dots for Direct Deposition of Thick, Highly Conductive Films. <i>Journal of the American Chemical Society</i> , 2017, 139, 6644-6653.	13.7	112
15	Impact of Electronic Coupling, Symmetry, and Planarization on One- and Two-Photon Properties of Triarylaminines with One, Two, or Three Diarylboryl Acceptors. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3781-3793.	2.5	88
16	Excited state absorption: a key phenomenon for the improvement of biphotonic based optical limiting at telecommunication wavelengths. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15299.	2.8	81
17	Color Hues in Red Fluorescent Proteins Are Due to Internal Quadratic Stark Effect. <i>Journal of Physical Chemistry B</i> , 2009, 113, 12860-12864.	2.6	78
18	Simple yet Versatile Synthesis of CuInSe _x S _{2-x} Quantum Dots for Sunlight Harvesting. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16987-16994.	3.1	75

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19	Effect of Interfacial Alloying versus "Volume Scaling" on Auger Recombination in Compositionally Graded Semiconductor Quantum Dots. <i>Nano Letters</i> , 2017, 17, 5607-5613.	9.1	73
20	Symmetry Breaking in Platinum Acetylide Chromophores Studied by Femtosecond Two-Photon Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3749-3759.	2.5	71
21	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. <i>Joule</i> , 2022, 6, 8-15.	24.0	66
22	Resonance Enhancement of Two-Photon Absorption in Fluorescent Proteins. <i>Journal of Physical Chemistry B</i> , 2007, 111, 14051-14054.	2.6	63
23	One-Photon Photophysics and Two-Photon Absorption of 4-(9,9-Di(2-ethylhexyl)-7-diphenylamino)fluorene[2,2'-bipyridine and Their Platinum Chloride Complexes. <i>Chemistry - A European Journal</i> , 2011, 17, 2479-2491.	11.0	61
24	Describing Two-Photon Absorptivity of Fluorescent Proteins with a New Vibronic Coupling Mechanism. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1736-1744.	2.6	59
25	Relation between Two-Photon Absorption and Dipolar Properties in a Series of Fluorenyl-Based Chromophores with Electron Donating or Electron Withdrawing Substituents. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4255-4262.	2.5	53
26	Rapid, broadband two-photon-excited fluorescence spectroscopy and its application to red-emitting secondary reference compounds. <i>Optical Materials Express</i> , 2011, 1, 551.	3.0	49
27	Design and Synthesis of Heterostructured Quantum Dots with Dual Emission in the Visible and Infrared. <i>ACS Nano</i> , 2015, 9, 539-547.	14.6	49
28	Strong Two-Photon Absorption in Push~Pull Phthalocyanines: Role of Resonance Enhancement and Permanent Dipole Moment Change upon Excitation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 848-859.	3.1	48
29	Quantitative Prediction of Two-Photon Absorption Cross Section Based on Linear Spectroscopic Properties. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7997-8004.	3.1	45
30	Optimizing Simultaneous Two-Photon Absorption and Transient Triplet~Triplet Absorption in Platinum Acetylide Chromophores. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7003-7013.	2.5	44
31	Effect of alicyclic ring size on the photophysical and photochemical properties of bis(arylidene)cycloalkanone compounds. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11743.	2.8	42
32	Near-infrared two-photon absorption in phthalocyanines: Enhancement of lowest gerade-gerade transition by symmetrical electron-accepting substitution. <i>Journal of Chemical Physics</i> , 2006, 124, 224701.	3.0	41
33	Fluorenylethynylpyrene derivatives with strong two-photon absorption: influence of substituents on optical properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3730-3744.	5.5	39
34	Unraveling the Two-Photon and Excited-State Absorptions of Aza-BODIPY Dyes for Optical Power Limiting in the SWIR Band. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23661-23673.	3.1	37
35	Two-Photon Absorption in CdSe Colloidal Quantum Dots Compared to Organic Molecules. <i>ACS Nano</i> , 2014, 8, 12572-12586.	14.6	35
36	Combined experimental and theoretical study of one- and two-photon absorption properties of D~A~A~D type bis(carbazolyl)fluorenylethynyl arene derivatives: Influence of aromatic acceptor bridge. <i>Dyes and Pigments</i> , 2015, 113, 682-691.	3.7	32

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37	Auger Up-Conversion of Low-Intensity Infrared Light in Engineered Quantum Dots. ACS Nano, 2016, 10, 10829-10841.	14.6	31
38	A new approach to dual-color two-photon microscopy with fluorescent proteins. BMC Biotechnology, 2010, 10, 6.	3.3	30
39	Photocharging Artifacts in Measurements of Electron Transfer in Quantum-Dot-Sensitized Mesoporous Titania Films. Journal of Physical Chemistry Letters, 2014, 5, 111-118.	4.6	29
40	Two-photon absorption properties of meso-substituted A3-corroles. Chemical Physics Letters, 2008, 462, 246-250.	2.6	28
41	Fiber-Coupled Luminescent Concentrators for Medical Diagnostics, Agriculture, and Telecommunications. ACS Nano, 2019, 13, 9112-9121.	14.6	28
42	Optimizing the Aesthetics of High-Performance CuInS ₂ /ZnS Quantum Dot Luminescent Solar Concentrator Windows. ACS Applied Energy Materials, 2020, 3, 8159-8163.	5.1	24
43	Tuning the Redox Coupling between Quantum Dots and Dopamine in Hybrid Nanoscale Assemblies. Journal of Physical Chemistry C, 2015, 119, 3388-3399.	3.1	22
44	Charge-Transport Mechanisms in CuInSe ₂ Quantum-Dot Films. ACS Nano, 2018, 12, 12587-12596.	14.6	21
45	Quasi-phase matching generation of blue coherent radiation at stimulated Raman scattering. Optics Communications, 2002, 203, 413-420.	2.1	18
46	New all-optical method for measuring molecular permanent dipole moment difference using two-photon absorption spectroscopy. Journal of Luminescence, 2010, 130, 1619-1623.	3.1	17
47	Nonlinear Optical Pulse Suppression via Ultrafast Photoinduced Electron Transfer in an Aggregated Perylene Diimide/Oligothiophene Molecular Triad. Journal of Physical Chemistry A, 2014, 118, 110-121.	2.5	17
48	Practical Model for First Hyperpolarizability Dispersion Accounting for Both Homogeneous and Inhomogeneous Broadening Effects. Journal of Physical Chemistry Letters, 2012, 3, 2248-2252.	4.6	15
49	Alternative selection rules for one- and two-photon transitions in tribenzotetraazachlorin: Quasi-centrosymmetrical π -conjugation pathway of formally non-centrosymmetrical molecule. Journal of Chemical Physics, 2013, 138, 214314.	3.0	14
50	Steady-state and time-resolved spectroscopic studies of green-to-red photoconversion of fluorescent protein Dendra2. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 280, 5-13.	3.9	13
51	Justification of two-level approximation for description of two-photon absorption in oxazine dyes. , 2010, , .		12
52	Simultaneous multiple-excitation multiphoton microscopy yields increased imaging sensitivity and specificity. BMC Biotechnology, 2011, 11, 20.	3.3	12
53	Minimizing Scaling Losses in High-Performance Quantum Dot Luminescent Solar Concentrators for Large-Area Solar Windows. ACS Applied Materials & Interfaces, 2022, 14, 29679-29689.	8.0	12
54	Very efficient two-photon induced photo-tautomerization in non-symmetrical phthalocyanines. Journal of Luminescence, 2008, 128, 217-222.	3.1	10

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55	Exploring the Biocompatibility of Near-IR CuInSe ₂ /ZnS Quantum Dots for Deep-Tissue Bioimaging. ACS Applied Bio Materials, 2020, 3, 8567-8574.	4.6	9
56	Highly sensitive detection of cancer cells using femtosecond dual-wavelength near-IR two-photon imaging. Biomedical Optics Express, 2012, 3, 1534.	2.9	7
57	Environment-sensitive two-photon dye. , 2008, , .		6
58	Modeling non-Lorentzian two-photon absorption line shape in dipolar chromophores. Journal of Luminescence, 2010, 130, 1055-1059.	3.1	6
59	Direct Synthesis of 2,5-Bis(dodecanoxy)phenyleneethynylene-Butadiynes by Sonogashira Coupling Reaction. European Journal of Organic Chemistry, 2013, 2013, 5341-5352.	2.4	6
60	Molybdenum tris(dithiolene) complexes as a new class of three-dimensional two-photon absorption chromophores at telecommunications wavelengths. Journal of Materials Chemistry C, 2014, 2, 614-617.	5.5	6
61	Quantum Dot Thin-Films as Rugged, High-Performance Photocathodes. Nano Letters, 2017, 17, 2319-2327.	9.1	6
62	Broad bandwidth near-IR two-photon absorption in conjugated porphyrin-core dendrimers. Proceedings of SPIE, 2007, , .	0.8	4
63	Heavy-Metal-Free Quantum Dot-Based Flexible Electronics. Information Display, 2021, 37, 24-32.	0.2	4
64	Multiwave stimulated raman scattering under quasi-phase-matching conditions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 95, 442-446.	0.6	3
65	Two-photon absorption spectroscopy of corroles. Proceedings of SPIE, 2009, , .	0.8	3
66	SRS generation of anti-Stokes radiation under phase quasi-matching conditions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 90, 938-941.	0.6	2
67	Hyperspectral two-photon near-infrared cancer imaging at depth. Proceedings of SPIE, 2009, , .	0.8	2
68	Maximizing two-photon absorption cross section within few essential state model. Proceedings of SPIE, 2010, , .	0.8	2
69	Synthesis, structure, and one- and two-photon absorption properties of N-substituted 3,5-bisarylidenepropenepiperidin-4-ones. Journal of Molecular Structure, 2013, 1037, 288-293.	3.6	2
70	PbSe/CdSe Core-Shell Colloidal Quantum Dots with Enhanced Optical Nonlinearities and Dual-Band Infrared/Visible Emission. , 2013, , .		2
71	Mobility of the Suzdal Opolye Settlers in 900-1150 AD. Archaeology, Ethnology and Anthropology of Eurasia, 2020, 48, 106-115.	0.2	2
72	Narrowing of the homogeneous two-photon absorption line width in two-level dipolar system. Proceedings of SPIE, 2008, , .	0.8	1

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73	Quantitative description of two-photon absorption with few essential states models. Proceedings of SPIE, 2008, , .	0.8	1
74	Absolute Two-photon Absorption Spectra Of Orange And Red Fluorescent Proteins. Biophysical Journal, 2009, 96, 400a-401a.	0.5	1
75	Hyperspectral two-photon near-infrared cancer imaging in vitro and in vivo. Proceedings of SPIE, 2009, , .	0.8	0
76	Modeling of non-Lorentzian two-photon absorption line shape in dipolar chromophore. Proceedings of SPIE, 2010, , .	0.8	0
77	Dispersion of the Third-Order Nonlinear Optical Response of Organics Using a Few State Model. , 2012, , .		0
78	Correlating one-photon, two-photon and excited state spectroscopy of CdSe quantum dots. , 2012, , .		0
79	Internal Quadratic Stark Effect Results in Color Hue Variations in Fluorescent Proteins with the Same Chromophore Structure. , 2010, , .		0
80	Mobility of the Suzdal Opolye Settlers in 900â€“1150 AD. Archaeology, Ethnology and Anthropology of Eurasia, 2020, 48, 106-115.	0.0	0