Aleksander Rebane

List of Publications by Year
in descending order

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66	3,835	186265	175258
papers	citations	28 h-index	52 g-index

67	67	67	4580
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel Lipophilic Fluorophores with Highly Acidityâ€Đependent Twoâ€Photon Response. Chemistry - A European Journal, 2022, 28, .	3.3	0
2	Photophysical and Electrochemical Properties of Pushâ€“Pull Oligo(ferrocenyl-phenyleneethynylene)s: Supramolecular Orders in Molecular Films. Langmuir, 2022, 38, 4077-4089.	3.5	1
3	Novel pH-responsive highly fluorescent lipophilic coumarins as efficient two-photon sensors of acidic and basic environments. , 2021, , .		1
4	Unconventional Conjugation via vinylMeSi(Oâ˜)₂ Siloxane Bridges May Imbue Semiconducting Properties in [vinyl(Me)SiO(PhSiO_{1.5})₈OSi(Me)vinyl-Ar] Double-Decker Copolymers. ACS Applied Polymer Materials, 2020, 2, 3894-3907.	4.4	13
5	Groundâ€•and Excitedâ€State Symmetry Breaking and Solvatofluorochromism in Centrosymmetric Pyrrolo[3,2â€b]pyrroles Possessing two Nitro Groups. ChemPhotoChem, 2020, 4, 508-519.	3.0	20
6	Stereochemical Effects on Platinum Acetylide Two-Photon Chromophores. Journal of Physical Chemistry A, 2019, 123, 9382-9393.	2.5	9
7	Solute-solvent electronic interaction is responsible for initial charge separation in ruthenium complexes [Ru(bpy)3]2+ and [Ru(phen)3]2+. Communications Chemistry, 2019, 2, .	4.5	9
8	Spontaneous Symmetry Breaking Facilitates Metal-to-Ligand Charge Transfer: A Quantitative Two-Photon Absorption Study of Ferrocene-phenyleneethynylene Oligomers. Journal of Physical Chemistry Letters, 2018, 9, 1893-1899.	4.6	20
9	Multiphoton spectroscopy: An optical window into molecular electrostatics. EPJ Web of Conferences, 2018, 190, 02009.	0.3	0
10	Two-photon absorption spectra of fluorescent isomorphic DNA base analogs. Biomedical Optics Express, 2018, 9, 447.	2.9	19
11	Change of electric dipole moment in charge transfer transitions of ferrocene oligomers studied by ultrafast two-photon absorption. , 2017, , .		1
12	Symmetry Breaking in Pyrrolo[3,2â€b]pyrroles: Synthesis, Solvatofluorochromism and Twoâ€photon Absorption. Chemistry - an Asian Journal, 2017, 12, 1736-1748.	3.3	48
13	TD-DFT calculations of one- and two-photon absorption in Coumarin C153 and Prodan: attuning theory to experiment. Physical Chemistry Chemical Physics, 2017, 19, 28824-28833.	2.8	10
14	Two-Photon Spectroscopy of a Series of Platinum Acetylides: Conformation-Induced Ground-State Symmetry Breaking. Journal of Physical Chemistry A, 2017, 121, 5442-5449.	2.5	29
15	Optimizing ultrafast illumination for multiphoton-excited fluorescence imaging. Biomedical Optics Express, 2016, 7, 1768.	2.9	6
16	High-accuracy reference standards for two-photon absorption in the 680â€“1050 nm wavelength range. Optics Express, 2016, 24, 9053.	3.4	89
17	Cooperative Enhancement of Two-Photon Absorption in Self-Assembled Zinc-Porphyrin Nanostructures. Journal of Physical Chemistry C, 2016, 120, 11663-11670.	3.1	23
18	High contrast two-photon imaging of fingermarks. Scientific Reports, 2016, 6, 24142.	3.3	2

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19	Long- and Short-Range Electrostatic Fields in GFP Mutants: Implications for Spectral Tuning. Scientific Reports, 2015, 5, 13223.	3.3	42
20	Two-photon directed evolution of green fluorescent proteins. Scientific Reports, 2015, 5, 11968.	3.3	24
21	Pyrrolo[3,2â€‹b]pyrrolesâ€”From Unprecedented Solvatofluorochromism to Twoâ€Photon Absorption. Chemistry - A European Journal, 2015, 21, 18364-18374.	3.3	93
22	Two-photon sensitive protecting groups operating via intramolecular electron transfer: uncaging of GABA and tryptophan. Chemical Science, 2015, 6, 2419-2426.	7.4	48
23	Polymer Monoliths Containing Two-Photon Absorbing Phenylenevinylene Platinum(II) Acetylide Chromophores for Optical Power Limiting. ACS Applied Materials & Interfaces, 2015, 7, 10795-10805.	8.0	35
24	Twoâ€Photon Voltmeter for Measuring a Molecular Electric Field. Angewandte Chemie - International Edition, 2015, 54, 7582-7586.	13.8	25
25	Green Fluorescent Protein with Anionic Tryptophan-Based Chromophore and Long Fluorescence Lifetime. Biophysical Journal, 2015, 109, 380-389.	0.5	56
26	Live-cell multiphoton fluorescence correlation spectroscopy with an improved large Stokes shift fluorescent protein. Molecular Biology of the Cell, 2015, 26, 2054-2066.	2.1	18
27	A long Stokes shift red fluorescent Ca2+ indicator protein for two-photon and ratiometric imaging. Nature Communications, 2014, 5, 5262.	12.8	75
28	Symmetry Breaking in Platinum Acetylide Chromophores Studied by Femtosecond Two-Photon Absorption Spectroscopy. Journal of Physical Chemistry A, 2014, 118, 3749-3759.	2.5	71
29	Two-photon absorption in butadiyne-linked porphyrin dimers: torsional and substituent effects. Journal of Materials Chemistry C, 2014, 2, 6802-6809.	5.5	28
30	Multiphoton Photochemistry of Red Fluorescent Proteins in Solution and Live Cells. Journal of Physical Chemistry B, 2014, 118, 9167-9179.	2.6	26
31	Synthesis and linear and nonlinear optical properties of low-melting Ï€-extended porphyrins. Journal of Materials Chemistry C, 2013, 1, 2044.	5.5	47
32	Direct Synthesis of 2,5â€Bis(dodecanoxy)phenyleneethynyleneâ€Butadiynes by Sonogashira Coupling Reaction. European Journal of Organic Chemistry, 2013, 2013, 5341-5352.	2.4	6
33	Describing Two-Photon Absorptivity of Fluorescent Proteins with a New Vibronic Coupling Mechanism. Journal of Physical Chemistry B, 2012, 116, 1736-1744.	2.6	59
34	Phenylene Vinylene Platinum(II) Acetylides with Prodigious Two-Photon Absorption. Journal of the American Chemical Society, 2012, 134, 19346-19349.	13.7	85
35	Amplified Twoâ€Photon Absorption in Transâ€A₂Bâ€Porphyrins Bearing Nitrophenylethynyl Substituents. ChemPhysChem, 2012, 13, 3966-3972.	2.1	26
36	All-Optical Sensing of the Components of the Internal Local Electric Field in Proteins. IEEE Photonics Journal, 2012, 4, 1996-2001.	2.0	5

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37	Engineering conjugation in para-phenylene-bridged porphyrin tapes. Chemical Science, 2012, 3, 1541.	7.4	67
38	Relation between Two-Photon Absorption and Dipolar Properties in a Series of Fluorenyl-Based Chromophores with Electron Donating or Electron Withdrawing Substituents. Journal of Physical Chemistry A, 2011, 115, 4255-4262.	2.5	53
39	Two-photon absorption properties of fluorescent proteins. Nature Methods, 2011, 8, 393-399.	19.0	589
40	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
41	Optimizing Simultaneous Two-Photon Absorption and Transient Tripletâ^'Triplet Absorption in Platinum Acetylide Chromophores. Journal of Physical Chemistry A, 2010, 114, 7003-7013.	2.5	44
42	Color Hues in Red Fluorescent Proteins Are Due to Internal Quadratic Stark Effect. Journal of Physical Chemistry B, 2009, 113, 12860-12864.	2.6	78
43	Two-photon absorption properties of meso-substituted A3-corroles. Chemical Physics Letters, 2008, 462, 246-250.	2.6	28
44	Blood-vessel closure using photosensitizers engineered for two-photon excitation. Nature Photonics, 2008, 2, 420-424.	31.4	355
45	Two-photon absorption standards in the 550-1600 nm excitation wavelength range. Optics Express, 2008, 16, 4029.	3.4	805
46	Quantitative Prediction of Two-Photon Absorption Cross Section Based on Linear Spectroscopic Properties. Journal of Physical Chemistry C, 2008, 112, 7997-8004.	3.1	45
47	Platinum Acetylide Two-Photon Chromophores. Inorganic Chemistry, 2007, 46, 6483-6494.	4.0	161
48	Slow light with persistent hole burning. Physical Review A, 2005, 71, .	2.5	54
49	Femtosecond resonance enhanced CARS for background-free detection of organic molecules. Journal of Modern Optics, 2005, 52, 1243-1253.	1.3	10
50	Dramatic enhancement of intrinsic two-photon absorption in a conjugated porphyrin dimerElectronic supplementary information (ESI) available: Experimental procedures. See http://www.rsc.org/suppdata/cp/b3/b313399k/. Physical Chemistry Chemical Physics, 2004, 6, 7.	2.8	106
51	Enhancement of two-photon absorption in tetrapyrrolic compounds. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 321.	2.1	135
52	Very efficient multi-photon absorption in porphyrins with extended /spl pi/-conjugation. , 2003, , .		0
53	Two-photon excited coherence gratings in inhomogeneously broadened organic solid. Journal of Modern Optics, 2002, 49, 379-390.	1.3	13
54	Drastic enhancement of two-photon absorption in porphyrins associated with symmetrical electron-accepting substitution. Chemical Physics Letters, 2002, 361, 504-512.	2.6	100

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55	Efficient singlet oxygen generation upon two-photon excitation of new porphyrin with enhanced nonlinear absorption. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 971-975.	2.9	84
56	New dendrimer molecules with a record high intrinsic two-photon absorption cross-section. , 2001, , .		0
57	Femtosecond noncollinear and collinear parametric generation and amplification in BBO crystal. Applied Physics B: Lasers and Optics, 2000, 70, 163-168.	2.2	19
58	Photon-gated holographic hole burning and readout in Si-naphthalocyanine-doped polymer film. , 2000, , .		0
59	Single-shot recording of ultrafast time-space holograms. , 2000, , .		0
60	Nondestructive readout and transient erasure of photon-gated hole-burning holograms. , 1998, , .		0
61	Broadband Femtosecond Stimulated Raman Scattering in H/sub 2/-D/sub 2/, H/sub 2/-HD and H/sub 2/-CH/sub 4/ Gas Mixtures. , 0, , .		0
62	Recording of ultrafast image holograms by photo-induced frequency-doubling in glass. , 0, , .		0
63	Femtosecond and picosecond stimulated Raman scattering in gas mixtures. , 0, , .		0
64	Efficient singlet oxygen photosensitization upon two-photon excitation of porphyrins. , 0, , .		0
65	Phonon-induced phase shift of spectral gratings created upon two-photon excitation in inhomogeneously broadened organic system. , 0, , .		0
66	Observation of quantum interference in an organic solid. , 0, , .		0