Kyril M Solntsev

List of Publications by Year
in descending order

90	4,691	94381 37	98753 67
papers	citations	h-index	g-index

93	93	93	4091
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Excited-State Proton Transfer:Â From Constrained Systems to â€œSuperâ€•Photoacids to Superfast Proton Transferâ€. Accounts of Chemical Research, 2002, 35, 19-27.	7.6	732
2	Solvatochromism of the Green Fluorescence Protein Chromophore and Its Derivatives. Journal of the American Chemical Society, 2006, 128, 12038-12039.	6.6	209
3	Conformationally Locked Chromophores as Models of Excited-State Proton Transfer in Fluorescent Proteins. Journal of the American Chemical Society, 2012, 134, 6025-6032.	6.6	164
4	Topochemistry and Photomechanical Effects in Crystals of Green Fluorescent Protein-like Chromophores: Effects of Hydrogen Bonding and Crystal Packing. Journal of the American Chemical Society, 2010, 132, 5845-5857.	6.6	160
5	Photochemistry of â€œSuperâ€•Photoacids. 2. Excited-State Proton Transfer in Methanol/Water Mixtures. Journal of Physical Chemistry A, 2000, 104, 4658-4669.	1.1	154
6	Excited State Proton Transfer in Reverse Micelles. Journal of the American Chemical Society, 2002, 124, 7539-7547.	6.6	139
7	Fluorescence imaging using synthetic GFP chromophores. Current Opinion in Chemical Biology, 2015, 27, 64-74.	2.8	120
8	Collapse and Recovery of Green Fluorescent Protein Chromophore Emission through Topological Effects. Accounts of Chemical Research, 2012, 45, 171-181.	7.6	108
9	Activation and Tuning of Green Fluorescent Protein Chromophore Emission by Alkyl Substituent-Mediated Crystal Packing. Journal of the American Chemical Society, 2009, 131, 662-670.	6.6	107
10	Reactive oxygen species in photochemistry of the red fluorescent protein â€œKiller Redâ€• Chemical Communications, 2011, 47, 4887.	2.2	107
11	Solvatochromic Shifts of â€œSuperâ€•Photoacids. Journal of the American Chemical Society, 1998, 120, 7981-7982.	6.6	102
12	Photochemistry of â€œSuperâ€•Photoacids. Solvent Effects. Journal of Physical Chemistry A, 1999, 103, 6984-6997.	1.1	100
13	Solvatochromism of Î²-Naphthol. Journal of Physical Chemistry A, 1998, 102, 9599-9606.	1.1	96
14	Novel uses of fluorescent proteins. Current Opinion in Chemical Biology, 2015, 27, 1-9.	2.8	96
15	Meta and Para Effects in the Ultrafast Excited-State Dynamics of the Green Fluorescent Protein Chromophores. Journal of Physical Chemistry B, 2008, 112, 2700-2711.	1.2	92
16	Excited-state reversible geminate reaction. I. Two different lifetimes. Journal of Chemical Physics, 1999, 110, 2164-2174.	1.2	87
17	Hydroxycruciforms: Amineâ€Responsive Fluorophores. Chemistry - A European Journal, 2008, 14, 4503-4510.	1.7	82
18	Probing the Decay Coordinate of the Green Fluorescent Protein:Â Arrest of Cisâ^'Trans Isomerization by the Protein Significantly Narrows the Fluorescence Spectra. Journal of the American Chemical Society, 2006, 128, 1540-1546.	6.6	76

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19	Inhibition of twisting of a green fluorescent protein-like chromophore by metal complexation. Chemical Communications, 2010, 46, 5686.	2.2	73
20	Excited-State Structure Determination of the Green Fluorescent Protein Chromophore. Journal of the American Chemical Society, 2005, 127, 11214-11215.	6.6	69
21	Redâ€Shifted Fluorescent Aminated Derivatives of a Conformationally Locked GFP Chromophore. Chemistry - A European Journal, 2014, 20, 13234-13241.	1.7	68
22	The Meta-Green Fluorescent Protein Chromophore. Journal of the American Chemical Society, 2007, 129, 10084-10085.	6.6	67
23	Isomerization in Fluorescent Protein Chromophores Involves Addition/Elimination. Journal of the American Chemical Society, 2008, 130, 14096-14098.	6.6	59
24	6-Hydroxyquinoline-N-oxides:Â A New Class of â€œSuperâ€•Photoacids1. Journal of the American Chemical Society, 2005, 127, 8534-8544.	6.6	56
25	Photoinduced Dynamics of Oxyluciferin Analogues: Unusual Enol â€œSuperâ€photoacidity and Evidence for Ketoâ€“Enol Isomerization. Journal of the American Chemical Society, 2012, 134, 16452-16455.	6.6	56
26	KillerOrange, a Genetically Encoded Photosensitizer Activated by Blue and Green Light. PLoS ONE, 2015, 10, e0145287.	1.1	56
27	Green Fluorescent Protein with Anionic Tryptophan-Based Chromophore and Long Fluorescence Lifetime. Biophysical Journal, 2015, 109, 380-389.	0.2	56
28	Chemically Modulating the Photophysics of the GFP Chromophore. Journal of Physical Chemistry B, 2011, 115, 1571-1577.	1.2	55
29	Chromophore Photoreduction in Red Fluorescent Proteins Is Responsible for Bleaching and Phototoxicity. Journal of Physical Chemistry B, 2014, 118, 4527-4534.	1.2	55
30	Unsymmetrical Cruciforms. Journal of Organic Chemistry, 2010, 75, 523-534.	1.7	54
31	Excited-State Proton Transfer Reactions of 10-Hydroxycamptothecin1. Journal of the American Chemical Society, 2004, 126, 12701-12708.	6.6	53
32	Experimental Evidence for a Kinetic Transition in Reversible Reactions. Physical Review Letters, 2001, 86, 3427-3430.	2.9	50
33	Ultrafast Excited-State Dynamics in the Green Fluorescent Protein Variant S65T/H148D. 3. Short- and Long-Time Dynamics of the Excited-State Proton Transfer. Biochemistry, 2007, 46, 12026-12036.	1.2	42
34	Excited-state proton transfer in N-methyl-6-hydroxyquinolinium salts: solvent and temperature effects. Physical Chemistry Chemical Physics, 2012, 14, 8964.	1.3	42
35	Excited-State Dynamics of Oxyluciferin in Firefly Luciferase. Journal of the American Chemical Society, 2016, 138, 16252-16258.	6.6	40
36	Unveiling Structural Motions of a Highly Fluorescent Superphotoacid by Locking and Fluorinating the GFP Chromophore in Solution. Journal of Physical Chemistry Letters, 2017, 8, 5921-5928.	2.1	40

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37	Designing redder and brighter fluorophores by synergistic tuning of ground and excited states. Chemical Communications, 2019, 55, 2537-2540.	2.2	40
38	Hydroxy-cruciforms. Chemical Communications, 2007, , 2127-2129.	2.2	37
39	Photochemistry of â€œSuperâ€•Photoacids. 3. Excited-State Proton Transfer from Perfluoroalkylsulfonyl-Substituted 2-Naphthols. Journal of Physical Chemistry A, 2002, 106, 3114-3122.	1.1	36
40	Tryptophan-based chromophore in fluorescent proteins can be anionic. Scientific Reports, 2012, 2, 608.	1.6	35
41	Diffusional effects on the reversible excited-state proton transfer. From experiments to Brownian dynamics simulations. Physical Chemistry Chemical Physics, 2011, 13, 14914.	1.3	34
42	Challenge in Accurate Measurement of Fast Reversible Bimolecular Reaction. Journal of Physical Chemistry A, 2001, 105, 5868-5876.	1.1	33
43	Optically Modulatable Blue Fluorescent Proteins. Journal of the American Chemical Society, 2013, 135, 16410-16417.	6.6	33
44	Photoinduced Proton Transfer of GFP-Inspired Fluorescent Superphotoacids: Principles and Design. Journal of Physical Chemistry B, 2019, 123, 3804-3821.	1.2	32
45	Spectral and redox properties of the GFP synthetic chromophores as a function of pH in buffered media. Chemical Communications, 2013, 49, 7788.	2.2	31
46	Novel Mechanism of Bioluminescence: Oxidative Decarboxylation of a Moiety Adjacent to the Light Emitter of Fridericia Luciferin. Angewandte Chemie - International Edition, 2015, 54, 7065-7067.	7.2	31
47	Excited-State Proton Transfer in Chiral Environments. 1. Chiral Solvents. Journal of the American Chemical Society, 2002, 124, 9046-9047.	6.6	30
48	A synthetic approach to GFP chromophore analogs from 3-azidocinnamates. Role of methyl rotors in chromophore photophysics. Chemical Communications, 2013, 49, 5778.	2.2	29
49	Microcrystals with Enhanced Emission Prepared from Hydrophobic Analogues of the Green Fluorescent Protein Chromophore via Reprecipitation. Langmuir, 2013, 29, 14718-14727.	1.6	29
50	Excitedâ€State Proton Transfer in Chiral Environments: Photoracemization of BINOLs. Israel Journal of Chemistry, 2009, 49, 227-233.	1.0	28
51	Ultrafast Studies of the Photophysics of Cis and Trans States of the Green Fluorescent Protein Chromophore. Journal of Physical Chemistry Letters, 2012, 3, 2298-2302.	2.1	28
52	Conjugates of Benzoxazole and GFP Chromophore with Aggregationâ€Induced Enhanced Emission: Influence of the Chain Length on the Formation of Particles and on the Dye Uptake by Living Cells. Small, 2016, 12, 6602-6612.	5.2	28
53	Dual asymptotic behavior in geminate diffusion-influenced reaction. Chemical Physics Letters, 2000, 320, 262-268.	1.2	27
54	Molecular Beam Studies of the â€œSuperâ€•Photoacid 5-Cyano-2-naphthol in Solvent Clusters. Journal of Physical Chemistry A, 2001, 105, 6393-6401.	1.1	25

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55	Study of the Long-Time Fluorescence Tail of the Green Fluorescent Protein. Journal of Physical Chemistry B, 2004, 108, 8043-8053.	1.2	25
56	Anomalous Photophysics of Bis(hydroxystyryl)benzenes: A Twist on the Para/Meta Dichotomy. Organic Letters, 2008, 10, 2429-2432.	2.4	25
57	Self-Assembled Benzophenone Bis-urea Macrocycles Facilitate Selective Oxidations by Singlet Oxygen. Journal of Organic Chemistry, 2013, 78, 5568-5578.	1.7	25
58	Optical Spectroscopy of Grafted Poly(p-phenyleneethynylene)s in Water and Waterâ^'DMF Mixtures. Macromolecules, 2008, 41, 1112-1117.	2.2	24
59	What Drives the Redox Properties of Model Green Fluorescence Protein Chromophores?. Journal of Physical Chemistry Letters, 2011, 2, 2593-2597.	2.1	23
60	Hydroxydialkylamino Cruciforms: Amphoteric Materials with Unique Photophysical Properties. Chemistry - A European Journal, 2011, 17, 3112-3119.	1.7	21
61	Effects of the benzoxazole group on green fluorescent protein chromophore crystal structure and solid state photophysics. Journal of Materials Chemistry C, 2016, 4, 2793-2801.	2.7	21
62	Excited-State Proton Transfer in Gas-Expanded Liquids:â€‰ The Roles of Pressure and Composition in Supercritical CO2/Methanol Mixtures. Journal of the American Chemical Society, 2005, 127, 11890-11891.	6.6	19
63	Rapid subcellular calcium responses and dynamics by calcium sensor G-CatchER+. IScience, 2021, 24, 102129.	1.9	19
64	Effect of Ca²⁺ on the Steady-State and Time-Resolved Emission Properties of the Genetically Encoded Fluorescent Sensor CatchER. Journal of Physical Chemistry B, 2015, 119, 2103-2111.	1.2	18
65	Protolytic Photodissociation and Proton-Induced Quenching of 1-Naphthol and 2-Octadecyl-1-Naphthol in Micelles. Journal of Physical Chemistry A, 2004, 108, 8212-8222.	1.1	16
66	Thermochemiluminescent peroxide crystals. Nature Communications, 2019, 10, 997.	5.8	16
67	Photoinduced electron transfer and strand cleavage in pyrenyl-DNA complexes and adducts. Journal of Physical Organic Chemistry, 1998, 11, 561-565.	0.9	15
68	Poly-(bis((Î¼4-1,4-benzenedicarboxylato)-bis(Î¼2-N,N-dimethylformamide)-(nitrato)-gadolinium (III))) metal organic framework: Synthesis, magnetic and luminescence properties. Inorganica Chimica Acta, 2012, 391, 1-9.	1.2	14
69	Hidden photoinduced reactivity of the blue fluorescent protein mKalama1. Physical Chemistry Chemical Physics, 2015, 17, 12472-12485.	1.3	14
70	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.	2.0	13
71	Competition and Interplay of Various Intermolecular Interactions in Ultrafast Excited-State Proton and Electron Transfer Reactions. Journal of Physical Chemistry B, 2015, 119, 2444-2453.	1.2	12
72	Anthracene-Based Lanthanide Metal-Organic Frameworks: Synthesis, Structure, Photoluminescence, and Radioluminescence Properties. Crystals, 2018, 8, 53.	1.0	10

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73	The effect of pressure on the excited-state proton transfer in the wild-type green fluorescent protein. Chemical Physics Letters, 2008, 455, 303-306.	1.2	9
74	pH-Sensitive fluorophores from locked GFP chromophores by a non-alternant analogue of the photochemical meta effect. Physical Chemistry Chemical Physics, 2016, 18, 26703-26711.	1.3	9
75	Effects of long-chain alkyl substituents on the protolytic reactions of naphthols. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 175, 178-191.	2.0	8
76	Waterâ€Soluble Distyrylbenzenes: One Core with Two Sensory Responsesâ€”Turnâ€On and Ratiometric. Chemistry - A European Journal, 2011, 17, 13726-13731.	1.7	8
77	Formation of Noncovalent Complexes between Complex Mixtures of Polycyclic Aromatic Hydrocarbons (Asphaltenes) and Substituted Aromatics Studied by Fluorescence Spectroscopy. Energy & Fuels, 2021, 35, 8742-8755.	2.5	7
78	Reversible Attachment of Perylenediimide Fluorophore to Glass Surfaces via Strong Hydrogen-Bonding. Langmuir, 2007, 23, 6227-6232.	1.6	6
79	Turning on Solidâ€State Fluorescence with Light. Angewandte Chemie - International Edition, 2018, 57, 9538-9542.	7.2	6
80	Themed issue on shape-responsive fluorophores. Journal of Materials Chemistry C, 2016, 4, 2638-2639.	2.7	5
81	Fluorescence resonance energy transfer in recognition-mediated polymer-quantum dot assemblies. Polymer Chemistry, 2012, 3, 3072.	1.9	3
82	Novel Mechanism of Bioluminescence: Oxidative Decarboxylation of a Moiety Adjacent to the Light Emitter of Fridericia Luciferin. Angewandte Chemie, 2015, 127, 7171-7173.	1.6	3
83	Isolation of biologically active compounds from mangrove sediments. Analytical and Bioanalytical Chemistry, 2019, 411, 6521-6529.	1.9	3
84	Kinetics of intra- and intermolecular excited-state proton transfer ofÏ‰-(2-hydroxynaphthyl-1)-decanoic acid in homogeneous and micellar solutions. Methods and Applications in Fluorescence, 2016, 4, 014001.	1.1	2
85	Synthesis, structure, and photoluminescence properties of lanthanide based metal organic frameworks and a cadmium coordination polymer derived from 2,2â€²-diamino-trans 4,4â€²-stilbenedicarboxylate. Inorganica Chimica Acta, 2018, 478, 243-249.	1.2	1
86	Anschalten von FestkÃ¶rperfluoreszenz mit Licht. Angewandte Chemie, 2018, 130, 9683-9687.	1.6	1
87	Photoinduced electron transfer and strand cleavage in pyrenylâ€“DNA complexes and adducts. , 1998, 11, 561.		1
88	Enhancing Student Interest in a General Chemistry Course via Short, In-Class Topical Presentations: A Qualitative Assessment. Journal of Chemical Education, 2022, 99, 2743-2746.	1.1	1
89	Design and Implementation ofâ€œSuperâ€•Photoacids. , 0, , 417-439.		0
90	Design and Application of Fluorescent Calcium Binding Proteins with Fast Kinetics. Biophysical Journal, 2013, 104, 530a.	0.2	0