Alexander P Savitsky

List of Publications by Year
in descending order

123	3,546	279798 23	138484 58
papers	citations	h-index	g-index

123	123	123	3175
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MR and fluorescence imaging of gadobutrolâ€induced optical clearing of red fluorescent protein signal in an in vivo cancer model. NMR in Biomedicine, 2022, 35, e4708.	2.8	5
2	First biphotochromic fluorescent protein moxSAASoti stabilized for oxidizing environment. Scientific Reports, 2022, 12, 7862.	3.3	1
3	Application of Genetically Encoded Photoconvertible Protein SAASoti for the Study of Enzyme Activity in a Single Live Cell by Fluorescence Correlation Microscopy. Materials, 2022, 15, 4962.	2.9	2
4	A pilot study of the dynamics of tissue oxygenation in vivo using time-resolved phosphorescence imaging. Journal of Innovative Optical Health Sciences, 2021, 14, .	1.0	4
5	Photoinactivation of mycobacteria to combat infection diseases: current state and perspectives. Applied Microbiology and Biotechnology, 2021, 105, 4099-4109.	3.6	19
6	The role of cysteine residues in the allosteric modulation of the chromophore phototransformations of biphotochromic fluorescent protein SAASoti. Scientific Reports, 2021, 11, 24314.	3.3	5
7	Magnetic resonance contrast agents in optical clearing: Prospects for multimodal tissue imaging. Journal of Biophotonics, 2020, 13, e201960249.	2.3	21
8	Corynebacterium jeikeium Dormant Cell Formation and Photodynamic Inactivation. Frontiers in Microbiology, 2020, 11, 605899.	3.5	3
9	Effect of Photodynamic Inactivation against Dormant Forms and Active Growing Cells of Mycobacterium smegmatis. Applied Biochemistry and Microbiology, 2020, 56, 285-291.	0.9	11
10	Novel Phototransformable Fluorescent Protein SAASoti with Unique Photochemical Properties. International Journal of Molecular Sciences, 2019, 20, 3399.	4.1	7
11	Sensors for Proteolytic Activity Visualization and Their Application in Animal Models of Human Diseases. Biochemistry (Moscow), 2019, 84, 1-18.	1.5	2
12	Photoinactivation of dormant Mycobacterium smegmatis due to its endogenous porphyrins. Applied Microbiology and Biotechnology, 2019, 103, 9687-9695.	3.6	15
13	Near-infrared oligonucleotide duplex sensors for imaging rapidly activated transcription factors in vitro and in situ. , 2019, , .		0
14	Detection of protease activity by fluorescent protein FRET sensors: from computer simulation to live cells. Methods and Applications in Fluorescence, 2018, 6, 022001.	2.3	18
15	Monomerization of the photoconvertible fluorescent protein SAASoti by rational mutagenesis of single amino acids. Scientific Reports, 2018, 8, 15542.	3.3	8
16	Bright GFP with subnanosecond fluorescence lifetime. Scientific Reports, 2018, 8, 13224.	3.3	31
17	Long-term fluorescence lifetime imaging of a genetically encoded sensor for caspase-3 activity in mouse tumor xenografts. Journal of Biomedical Optics, 2018, 23, 1.	2.6	11
18	Molecular mechanism of interactions between MMP-2 and its oligopeptide-based inhibitors. Mendeleev Communications, 2017, 27, 157-159.	1.6	2

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19	Reversible photobleaching of photoconvertible SAASoti-FP. Journal of Biomedical Photonics and Engineering, 2017, 3, 040303.	0.7	9
20	Oxoethylene derivative of the natural substrate as an inhibitor of matrix metalloproteinase MMP-2. Mendeleev Communications, 2016, 26, 207-208.	1.6	1
21	Genetically Encoded FRET-Sensor Based on Terbium Chelate and Red Fluorescent Protein for Detection of Caspase-3 Activity. International Journal of Molecular Sciences, 2015, 16, 16642-16654.	4.1	3
22	Fluorescence color diversity of great barrier reef corals. Journal of Innovative Optical Health Sciences, 2015, 08, 1550028.	1.0	17
23	Green Fluorescent Protein with Anionic Tryptophan-Based Chromophore and Long Fluorescence Lifetime. Biophysical Journal, 2015, 109, 380-389.	0.5	56
24	Investigation of the effect of photosensitizer Tiosense on the tumor model mel Kor-TurboRFP expressed red fluorescent protein. Russian Journal of General Chemistry, 2015, 85, 274-279.	0.8	0
25	Exploration of the Zinc Finger Motif in Controlling Activity of Matrix Metalloproteinases. Journal of Physical Chemistry B, 2014, 118, 13505-13512.	2.6	15
26	Computational Characterization of Ketoneâ€“Ketal Transformations at the Active Site of Matrix Metalloproteinases. Journal of Physical Chemistry B, 2014, 118, 4345-4350.	2.6	5
27	Thermal Isomerization of the Chromoprotein asFP595 and Its Kindling Mutant A143G: QM/MM Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2013, 117, 13507-13514.	2.6	10
28	Molecular modeling of the FÃ¶rster resonance energy transfer between FusionRed and Dedushka(eqFP670) fluorescent proteins. , 2013, , .		1
29	Unusual Emitting States of the Kindling Fluorescent Protein: Appearance of the Cationic Chromophore in the GFP Family. Journal of Physical Chemistry B, 2013, 117, 7228-7234.	2.6	14
30	Biodistribution of intact fluorescent CdSe/CdS/ZnS quantum dots coated by mercaptopropionic acid after intravenous injection into mice. Journal of Biophotonics, 2012, 5, 848-859.	2.3	13
31	Biodistribution and stability of CdSe core quantum dots in mouse digestive tract following per os administration: Advantages of double polymer/silica coated nanocrystals. Biochemical and Biophysical Research Communications, 2012, 419, 54-59.	2.1	39
32	Using lanthanide-based resonance energy transfer for in vitro and in vivo studies of biological processes. Biochemistry (Moscow), 2012, 77, 1553-1574.	1.5	9
33	FLIM-FRET Imaging of Caspase-3 Activity in Live Cells Using Pair of Red Fluorescent Proteins. Theranostics, 2012, 2, 215-226.	10.0	35
34	Three-Dimensional In Vivo Imaging of Tumors Expressing Red Fluorescent Proteins. Methods in Molecular Biology, 2012, 872, 97-114.	0.9	2
35	Modeling absorption of the kindling fluorescent protein with the neutral form of the chromophore. International Journal of Quantum Chemistry, 2012, 112, 2947-2951.	2.0	8
36	Modeling structure and spectra of the kindling fluorescent protein asFP595. , 2011, , .		0

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37	Conformational Partitioning in pH-Induced Fluorescence of the Kindling Fluorescent Protein (KFP). Journal of Physical Chemistry B, 2011, 115, 9195-9201.	2.6	12
38	Fluorescence resonance energy transfer between fluorescent proteins as powerful toolkits for in vivo studies. Laser Physics Letters, 2011, 8, 91-102.	1.4	9
39	The origin of radiationless conversion of the excited state in the kindling fluorescent protein (KFP): femtosecond studies and quantum modeling. Laser Physics Letters, 2011, 8, 469-474.	1.4	8
40	Computational strategy for tuning spectral properties of red fluorescent proteins. Biophysical Chemistry, 2011, 158, 91-95.	2.8	19
41	Modeling structure and spectra of red fluorescent proteins. Proceedings of SPIE, 2010, , .	0.8	0
42	Biodistribution and clearance of quantum dots in small animals. Proceedings of SPIE, 2010, , .	0.8	8
43	Structural forms of green fluorescent protein by quantum mechanics/molecular mechanics calculations. Russian Chemical Bulletin, 2010, 59, 61-65.	1.5	1
44	Lifetime imaging of FRET between red fluorescent proteins. Journal of Biophotonics, 2010, 3, 774-783.	2.3	25
45	Genetically encoded FRET-pair on the basis of terbium-binding peptide and red fluorescent protein. Applied Biochemistry and Microbiology, 2010, 46, 154-158.	0.9	8
46	FRET-sensor for imaging with lifetime resolution. Proceedings of SPIE, 2010, , .	0.8	7
47	Computational modeling structure and spectra of biological chromophores. , 2009, , .		0
48	Computer Modeling of the Structure and Spectra of Fluorescent Proteins. Acta Naturae, 2009, 1, 33-43.	1.7	13
49	Computer modeling of the structure and spectra of fluorescent proteins. Acta Naturae, 2009, 1, 33-43.	1.7	6
50	Conformation dependence of pKaâ€™s of the chromophores from the purple asFP595 and yellow zFP538 fluorescent proteins. Computational and Theoretical Chemistry, 2008, 863, 39-43.	1.5	12
51	Fluorescence diffuse tomography for detection of red fluorescent protein expressed tumors in small animals. Journal of Biomedical Optics, 2008, 13, 041310.	2.6	23
52	Modeling Photoabsorption of the asFP595 Chromophore. Journal of Physical Chemistry A, 2008, 112, 8804-8810.	2.5	32
53	Simulations on the kindling mechanism of the asFP595 fluorescent protein. , 2008, , .		0
54	Computational approaches in modeling spectra of biological chromophores. Proceedings of SPIE, 2008, , .	0.8	0

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55	Role of pH in the appearance of the fluorescent state of chromo protein asCP595 and its mutant KFP. , 2007, , .		0
56	Modeling trans-cis chromophore isomerization for the asFP595 kindling protein. , 2007, , .		0
57	Fluorescence diffuse tomography for detection of RFP-expressed tumors in small animals. , 2007, , .		0
58	Fluorescence diffuse tomography for detection of RFP-expressed tumors in small animals. , 2007, , .		1
59	Frequency domain fluorescent diffuse tomography of small animals with DsRed2-expressed tumors. , 2006, 6098, 76.		0
60	Ground-State Structures and Vertical Excitations for the Kindling Fluorescent Protein asFP595. Journal of Physical Chemistry B, 2006, 110, 18635-18640.	2.6	33
61	Multipopulation desaggregation behavior of zFP538 upon dilution. , 2006, , .		0
62	Femtosecond study of light-induced fluorescence increase of the dark chromoprotein asFP595. Chemical Physics, 2006, 323, 149-160.	1.9	36
63	trans and cis Chromophore structures in the kindling fluorescent protein asFP595. Chemical Physics Letters, 2006, 424, 184-188.	2.6	22
64	Fluorescence diffuse tomography of small animals with DsRed2 fluorescent protein. Laser Physics, 2006, 16, 741-746.	1.2	11
65	Atomic force and near-field scanning microscopy of solid zFP538 films. , 2005, 5704, 200.		0
66	Frequency-domain optical diffusion tomography of fluorescent proteins. , 2005, , .		1
67	Kinetics of denaturation of the yellow fluorescent protein from coral zFP538. , 2005, , .		0
68	Photodynamic activity of dibiotinylated aluminum sulfophthalocyanine in vitro and in vivo. Journal of Photochemistry and Photobiology B: Biology, 2005, 80, 57-64.	3.8	15
69	Chemical and Genetic Sensors in Biomedical Research. Journal of Biomedical Optics, 2005, 10, 041201.	2.6	1
70	Study of action of cyclophosphamide and extract of mycelium of Pleurotus ostreatus in vivo on mice, bearing melanoma B16-F0-GFP. , 2005, 5704, 214.		2
71	Brightness of Yellow Fluorescent Protein from Coral (zFP538) Depends on Aggregationâ€. Biochemistry, 2005, 44, 3982-3993.	2.5	6
72	Fluorescence enhancement of asCP595 is due to consecutive absorbance of two photons. , 2004, 5329, 73.		0

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73	Aggregation of the yellow fluorescent protein zFP538 is pH-dependent. , 2004, , .		0
74	Title is missing!. Journal of Fluorescence, 2003, 13, 79-88.	2.5	1
75	Assessment of Photodynamic Destruction of Escherichia coli O157:H7 and Listeria monocytogenes by Using ATP Bioluminescence. Applied and Environmental Microbiology, 2003, 69, 6393-6398.	3.1	95
76	High-throughput screening system for the study of phototoxicity of photosensitizers in vitro. , 2003, 4952, 203.		1
77	Bioluminescence lights the way to food safety. , 2003, , .		1
78	Detection of protein-protein interactions using Aequorea victoria bioluminescence resonance energy transfer. , 2003, , .		0
79	Improvement of photodynamic activity of aluminium sulphophthalocyanine due to biotinylation. , 2003, , .		0
80	Oligomerizations strongly influences the brightness of DsRed fluorescence. , 2003, , .		0
81	Aggregation strongly influence the pH-profile of the yellow fluorescent protein zFP538. , 2003, 4967, 88.		0
82	Fluorescent proteins require reactive oxygen species to develop fluorescence. , 2003, 4967, 75.		0
83	Title is missing!. Russian Journal of Bioorganic Chemistry, 2002, 28, 274-277.	1.0	0
84	A strategy for the generation of non-aggregating mutants ofAnthozoafluorescent proteins. FEBS Letters, 2002, 511, 11-14.	2.8	148
85	DEVELOPMENT OF A HOMOGENEOUS PHOSPHORESCENT IMMUNOASSAY FOR THE DETECTION OF POLYCHLORINATED DIBENZO-p-DIOXINS. Analytical Letters, 2001, 34, 2311-2320.	1.8	6
86	Color transitions in coral's fluorescent proteins by site-directed mutagenesis. BMC Biochemistry, 2001, 2, 6.	4.4	47
87	Alternative Cyclization in GFP-like Proteins Family. Journal of Biological Chemistry, 2001, 276, 21012-21016.	3.4	44
88	BIOLUMINESCENT ASSAY OF ATP LEAKAGE FROM YEAST CELLS AFTER PHOTODYNAMIC DAMAGE. , 2001, , .		1
89	Fluorescent Properties of Firefly Luciferases and Their Complexes with Luciferin. Bioscience Reports, 2000, 20, 21-30.	2.4	9
90	Natural Animal Coloration Can Be Determined by a Nonfluorescent Green Fluorescent Protein Homolog. Journal of Biological Chemistry, 2000, 275, 25879-25882.	3.4	300

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91	Fluorescent proteins from nonbioluminescent Anthozoa species. Nature Biotechnology, 1999, 17, 969-973.	17.5	1,711
92	Determination of corproporphyrin in urine by using stopped-flow fluoroimmunoassay. Analytica Chimica Acta, 1998, 361, 27-32.	5.4	12
93	<title>Avidin-biotin system for targeting delivery of photosensitizers and other cytotoxic agents into malignant tissues</title>. , 1997, , .		1
94	<title>Near-infrared phosphorescent metalloporphyrins</title>. , 1997, 2980, 352.		4
95	<title>Novel fluorescent chelate for Eu</title>. , 1995, , .		5
96	Optical methods of investigation of the protein Langmuirâ€"Blodgett films. Thin Solid Films, 1995, 259, 85-90.	1.8	4
97	Modification of monoclonal and polyclonal IgG with palladium (II) coproporphyrin I: stimulatory and inhibitory functional effects induced by two different methods. Journal of Immunological Methods, 1995, 186, 293-304.	1.4	31
98	Effect of concentrations of salts on the formation of protein monolayers. Russian Chemical Bulletin, 1995, 44, 1958-1962.	1.5	14
99	Micelle Stabilized Phosphorescent Immunoassay Based on Bispecific Antibodies Against Label and Antigen. Analytical Letters, 1995, 28, 249-258.	1.8	10
100	Langmuirâ€"Blodgett monolayers as a basis for advanced optical biosensors. Advances in Biosensors, 1995, , 165-190.	0.2	2
101	<title>Room-temperature phosphorescence of metalloporphyrins and its application to immunoassay</title>. , 1994, , .		2
102	Universal Phosphorescence Immunoassay. Analytical Biochemistry, 1994, 219, 109-114.	2.4	26
103	Kinetics of oxidation of o-dianisidine by hydrogen peroxide in the presence of antibody complexes of iron(III) coproporphyrin. Applied Biochemistry and Biotechnology, 1994, 47, 317-327.	2.9	22
104	Kinetic fluorimetric determination of Cu(II) and Zn(II) by their incorporation reactions into a water-soluble porphyrin. Talanta, 1994, 41, 1699-1706.	5.5	9
105	Monoclonal antibodies against metalloporphyrins. Specificity of interaction with structurally different metalloporphyrins. FEBS Letters, 1994, 355, 314-316.	2.8	16
106	<title>Optical methods of investigation of the protein Langmuir: Blodgett films</title>. , 1994, 2082, 248.		0
107	<title>Photochemical inactivation of viruses by antibody conjugates of compounds generating singlet oxygen</title>. , 1994, 2078, 324.		0
108	Solid surface measurement of room temperature phosphorescence of Pd-coproporphyrin and its application for time-resolved microscopy. , 1994, 2083, 49.		2

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109	Molecular mechanical calculations of the molecular structure of eight-coordinate europium complexes. Russian Chemical Bulletin, 1993, 42, 1488-1492.	1.5	1
110	Fluorescent and phosphorescent study of Langmuir-Blodgett antibody films for application to immunosensors. Biosensors and Bioelectronics, 1993, 8, 377-385.	10.1	48
111	<title>Fluorescent and phosphorescent study of Langmuir-Blodgett antibody films for application to optical immunosensors</title>. , 1993, , .		2
112	<title>Universal phosphorescence immunoassay</title>. , 1993, , .		0
113	<title>Biomedical application of metalloporphyrins room-temperature phosphorescence</title>. , 1993, , .		1
114	Photophysical properties of protein conjugates with PDT photosensitizers. , 1993, , .		0
115	<title>Molecular mechanics calculations of 8-coordinate europium complexes</title>. , 1993, , .		0
116	pH Dependence of fluorescence and absorbance spectra of free sulphonated aluminium phthalocyanine and its conjugate with monoclonal antibodies. Journal of Photochemistry and Photobiology B: Biology, 1992, 13, 327-333.	3.8	17
117	Phosphorescent polymer films for optical oxygen sensors. Biosensors and Bioelectronics, 1992, 7, 199-206.	10.1	97
118	Photoinduced singlet oxygen formation in aqueous solutions of covalent porphyrin-antibody conjugates. Bulletin of Experimental Biology and Medicine, 1990, 109, 454-456.	0.8	4
119	Palladium(II)-coproporphyrin I as a photoactivable group in sequence-specific modification of nucleic acids by oligonucleotide derivatives. FEBS Letters, 1990, 259, 335-337.	2.8	28
120	Mapping of the immunodominant regions of the NAD-dependent formate dehydrogenase. FEBS Letters, 1990, 260, 297-300.	2.8	0
121	A fluorescence quenching study of interpolyelectrolyte reactions. Die Makromolekulare Chemie Rapid Communications, 1984, 5, 709-714.	1.1	42
122	The protoporphyrin-apoperoxidase complex as a horseradish peroxidase analog. Biochimica Et Biophysica Acta - Biomembranes, 1981, 662, 210-219.	2.6	39
123	Acidâ€”base properties of protoporphyrin IX; its dimethyl ester and heme solubilized on surfactant micelles: spectrophotometric and fluorometric titration. Journal of Colloid and Interface Science, 1981, 84, 175-181.	9.4	30