Alexei Grichine

List of Publications by Year
in descending order

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74	2,741	159585	182427
papers	citations	30 h-index	51 g-index

76	76	76	4276
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	NIR-to-NIR two-photon bio-imaging using very bright tailored amino-heptamethines dyes. Dyes and Pigments, 2022, 203, 110369.	3.7	6
2	Cell fluorescence photo-activation as a method to select and study cellular sub populations grown in mechanically heterogeneous environments. Molecular Biology of the Cell, 2021, 32, mbc.E20-10-0676.	2.1	0
3	Control of SRC molecular dynamics encodes distinct cytoskeletal responses by specifying signaling pathway usage. Journal of Cell Science, 2021, 134, .	2.0	7
4	Direction of epithelial folding defines impact of mechanical forces on epithelial state. Developmental Cell, 2021, 56, 3222-3234.e6.	7.0	13
5	Live imaging of single platelets at work. Platelets, 2020, 31, 551-558.	2.3	0
6	Pyclen-Based Ln(III) Complexes as Highly Luminescent Bioprobes for In Vitro and In Vivo One- and Two-Photon Bioimaging Applications. Journal of the American Chemical Society, 2020, 142, 10184-10197.	13.7	68
7	Cationic Biphotonic Lanthanide Luminescent Bioprobes Based on Functionalized Crossâ€Bridged Cyclam Macrocycles. ChemPhysChem, 2020, 21, 1036-1043.	2.1	13
8	A â€œMultiâ€Heavyâ€Atomâ€•Approach toward Biphotonic Photosensitizers with Improved Singletâ€Oxygen Generation Properties. Chemistry - A European Journal, 2019, 25, 9026-9034.	3.3	34
9	Twisted Chargeâ€Transfer Antennae for Ultraâ€Bright Terbium(III) and Dysprosium(III) Bioprobes. Chemistry - A European Journal, 2018, 24, 3408-3412.	3.3	32
10	Polyanionic Polydentate Europium Complexes as Ultrabright Oneâ€•or Twoâ€photon Bioprobes. ChemPhysChem, 2018, 19, 3318-3324.	2.1	11
11	Combining a pyclen framework with conjugated antenna for the design of europium and samarium luminescent bioprobes. Chemical Communications, 2018, 54, 6173-6176.	4.1	31
12	In Vitro Dermal Safety Assessment of Silver Nanowires after Acute Exposure: Tissue vs. Cell Models. Nanomaterials, 2018, 8, 232.	4.1	12
13	Reply to: Comments on â€˜Intraoperative near-infrared fluorescence imaging using indocyanine green in colorectal carcinomatosis surgery: Proof of conceptâ€™. European Journal of Surgical Oncology, 2017, 43, 242-243.	1.0	2
14	Near infrared two photon imaging using a bright cationic Yb(<scp>iii</scp>) bioprobe spontaneously internalized into live cells. Chemical Communications, 2017, 53, 6005-6008.	4.1	62
15	Terbium(III) Luminescent Complexes as Millisecond-Scale Viscosity Probes for Lifetime Imaging. Journal of the American Chemical Society, 2017, 139, 7693-7696.	13.7	97
16	Microvasculature on a chip: study of the Endothelial Surface Layer and the flow structure of Red Blood Cells. Scientific Reports, 2017, 7, 45036.	3.3	66
17	Unexpected function of the phagocyte NADPH oxidase in supporting hyperglycolysis in stimulated neutrophils: key role of 6â€•phosphofructoâ€2â€kinase. FASEB Journal, 2017, 31, 663-673.	0.5	32
18	Keto-polymethines: a versatile class of dyes with outstanding spectroscopic properties for in cellulo and in vivo two-photon microscopy imaging. Chemical Science, 2017, 8, 381-394.	7.4	43

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19	Cationic Two-Photon Lanthanide Bioprobes Able to Accumulate in Live Cells. Inorganic Chemistry, 2016, 55, 7020-7025.	4.0	44
20	Genetically Encoded Fluorescent Biosensors to Explore AMPK Signaling and Energy Metabolism. Exs, 2016, 107, 491-523.	1.4	9
21	Wavelet transform analysis of chromatin texture changes during heat shock. Journal of Microscopy, 2016, 262, 295-305.	1.8	4
22	Improving Surgical Resection of Metastatic Liver Tumors With Near-Infrared Optical-Guided Fluorescence Imaging. Surgical Innovation, 2016, 23, 354-359.	0.9	9
23	The impact of cardiac ischemia/reperfusion on the mitochondriaâ€“cytoskeleton interactions. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1159-1171.	3.8	18
24	Unexpected Efficiency of a Luminescent Samarium(III) Complex for Combined Visible and Nearâ€Infrared Biphotonic Microscopy. Chemistry - A European Journal, 2015, 21, 17757-17761.	3.3	58
25	Two-photon multiplexing bio-imaging using a combination of Eu- and Tb-bioprobes. Dalton Transactions, 2015, 44, 4918-4924.	3.3	38
26	Modular organization of cardiac energy metabolism: energy conversion, transfer and feedback regulation. Acta Physiologica, 2015, 213, 84-106.	3.8	43
27	Relative Contribution of C1q and Apoptotic Cell-Surface Calreticulin to Macrophage Phagocytosis. Journal of Innate Immunity, 2014, 6, 426-434.	3.8	50
28	Motor-driven marginal band coiling promotes cell shape change during platelet activation. Journal of Cell Biology, 2014, 204, 177-185.	5.2	77
29	Role of mitochondriaâ€“cytoskeleton interactions in respiration regulation and mitochondrial organization in striated muscles. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 232-245.	1.0	41
30	Millisecond lifetime imaging with a europium complex using a commercial confocal microscope under one or two-photon excitation. Chemical Science, 2014, 5, 3475-3485.	7.4	82
31	Design and synthesis of europium luminescent bio-probes featuring sulfobetaine moieties. Tetrahedron Letters, 2014, 55, 1357-1361.	1.4	21
32	Unpolymerized Î²II Tubulin in Regulation of Mitocondrial Function in Muscle Cells. Biophysical Journal, 2013, 104, 302a.	0.5	0
33	Regulation of Respiration in Permeabilized Muscle Cells: Apparent KM for ADP Shows the Mitochondrial Outer Membrane Permeability. Biophysical Journal, 2013, 104, 447a-448a.	0.5	0
34	Matters of the heart in bioenergetics: mitochondrial fusion into continuous reticulum is not needed for maximal respiratory activity. Journal of Bioenergetics and Biomembranes, 2013, 45, 319-331.	2.3	12
35	Correction of cell-induced optical aberrations in a fluorescence fluctuation microscope. Optics Letters, 2013, 38, 2401.	3.3	9
36	Essential Function of Dynamin in the Invasive Properties and Actin Architecture of v-Src Induced Podosomes/Invadosomes. PLoS ONE, 2013, 8, e77956.	2.5	24

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37	Epithelial Protein Lost In Neoplasm (EPLIN) Interacts with Î±-Catenin and Actin Filaments in Endothelial Cells and Stabilizes Vascular Capillary Network in Vitro. Journal of Biological Chemistry, 2012, 287, 7556-7572.	3.4	61
38	Studies of the role of tubulin beta II isotype in regulation of mitochondrial respiration in intracellular energetic units in cardiac cells. Journal of Molecular and Cellular Cardiology, 2012, 52, 437-447.	1.9	33
39	New insights into the organisation and intracellular localisation of the two subunits of glucose-6-phosphatase. Biochimie, 2012, 94, 695-703.	2.6	10
40	Dynamics of Mitochondria in Adult Rat Cardiomyocytes. Biophysical Journal, 2012, 102, 47a.	0.5	0
41	Quantitative Study of Tubulin Distrubution and Mitochondrial Dynamics in Skeletal Muscle Cells. Biophysical Journal, 2012, 102, 697a.	0.5	0
42	Regulation of respiration in muscle cells in vivo by VDAC through interaction with the cytoskeleton and MtCK within Mitochondrial Interactosome. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1545-1554.	2.6	80
43	Ytterbiumâ€Based Bioprobes for Nearâ€Infrared Twoâ€Photon Scanning Laser Microscopy Imaging. Angewandte Chemie - International Edition, 2012, 51, 6622-6625.	13.8	127
44	New insight into the Nox4 subcellular localization in HEK293 cells: First monoclonal antibodies against Nox4. Biochimie, 2011, 93, 457-468.	2.6	56
45	Cell Entry and Trafficking of Human Adenovirus Bound to Blood Factor X Is Determined by the Fiber Serotype and Not Hexon:Heparan Sulfate Interaction. PLoS ONE, 2011, 6, e18205.	2.5	29
46	Coupling of 6â€phosphogluconate dehydrogenase with NADPH oxidase in neutrophils: Nox2 activity regulation by NADPH availability. FASEB Journal, 2011, 25, 2333-2343.	0.5	14
47	1q12 chromosome translocations form aberrant heterochromatic foci associated with changes in nuclear architecture and gene expression in B cell lymphoma. EMBO Molecular Medicine, 2010, 2, 159-171.	6.9	33
48	Data storage based on photochromic and photoconvertible fluorescent proteins. Journal of Biotechnology, 2010, 149, 289-298.	3.8	62
49	Breakdown of cell-collagen networks through collagen remodeling. Biorheology, 2010, 47, 277-295.	0.4	30
50	Novel Method for Investigation of Interactions between Mitochondrial Creatine Kinase and Adenine Nucleotide Translocase. Biophysical Journal, 2010, 98, 735a.	0.5	0
51	Clustering and Internalization of Integrin Î±vÎ²3 With a Tetrameric RGD-synthetic Peptide. Molecular Therapy, 2009, 17, 837-843.	8.2	148
52	Heterotrimerization of Heat-Shock Factors 1 and 2 Provides a Transcriptional Switch in Response to Distinct Stimuli. Molecular Biology of the Cell, 2009, 20, 1340-1347.	2.1	139
53	New p22-Phox Monoclonal Antibodies: Identification of a Conformational Probe for Cytochrome <i>b</i>₅₅₈. Journal of Innate Immunity, 2009, 1, 556-569.	3.8	17
54	Compartmentation of ATP in Cardiomyocytes and Mitochondria Kinetic Studies and Direct Measurments. Biophysical Journal, 2009, 96, 241a.	0.5	7

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55	Lamellipodia nucleation by filopodia depends on integrin occupancy and downstream Rac1 signaling. Experimental Cell Research, 2008, 314, 478-488.	2.6	62
56	Long-Lived Two-Photon Excited Luminescence of Water-Soluble Europium Complex:â€‰ Applications in Biological Imaging Using Two-Photon Scanning Microscopy. Journal of the American Chemical Society, 2008, 130, 1532-1533.	13.7	285
57	Cell adaptive response to extracellular matrix density is controlled by ICAP-1â€“dependent Î²1-integrin affinity. Journal of Cell Biology, 2008, 180, 427-441.	5.2	88
58	Paxillin Phosphorylation Controls Invadopodia/Podosomes Spatiotemporal Organization. Molecular Biology of the Cell, 2008, 19, 633-645.	2.1	99
59	In Vivo Noninvasive Optical Imaging of Receptor-Mediated RGD Internalization Using Self-Quenched Cy5-Labeled RAFT-c(-RGDfK-)₄. Molecular Imaging, 2007, 6, 7290.2007.00002.	1.4	35
60	Virosome-mediated delivery of tumor antigen to plasmacytoid dendritic cells. Vaccine, 2007, 25, 3913-3921.	3.8	36
61	New insights into the membrane topology of the phagocyte NADPH oxidase: Characterization of an anti-gp91-phox conformational monoclonal antibody. Biochimie, 2007, 89, 1145-1158.	2.6	23
62	Cellâ€permeant cytoplasmic blue fluorophores optimized for in vivo twoâ€photon microscopy with lowâ€power excitation. Microscopy Research and Technique, 2007, 70, 880-885.	2.2	15
63	Influence of the Substitution of 3-Vinyl by 3-Formyl Group on the Photodynamic Properties of Chlorin P6: Molecular, Cellular and In vivo StudiesÂ¶. Photochemistry and Photobiology, 2007, 73, 267-277.	2.5	2
64	Chelation with Metal is not Essential for Antitumor Photodynamic Activity of Sulfonated Phthalocyaninesâ€Â¶. Photochemistry and Photobiology, 2007, 75, 527-533.	2.5	2
65	Near-infrared Photosensitizer Based on a Cycloimide Derivative of Chlorin p6: 13,15-N-(3â€²-Hydroxypropyl)Cycloimide Chlorin p6Â¶. Photochemistry and Photobiology, 2007, 75, 633-643.	2.5	0
66	Photobiological Properties of 13,15-N-(Carboxymethyl)- and 13,15-N-(2-Carboxyethyl)cycloimide Derivatives of Chlorin p6. Russian Journal of Bioorganic Chemistry, 2004, 30, 374-384.	1.0	14
67	Distribution of metal-free sulfonated phthalocyanine in subcutaneously transplanted murine tumors. Journal of Photochemistry and Photobiology B: Biology, 2004, 75, 81-87.	3.8	8
68	Comparative Study of Photodynamic Properties of 13, 15â€Nâ€cycloimide Derivatives of chlorin p6^{Â¶}. Photochemistry and Photobiology, 2004, 79, 172-188.	2.5	2
69	Comparative Study of Photodynamic Properties of 13,15-N-cycloimide Derivatives of Chlorin p6Â¶. Photochemistry and Photobiology, 2004, 79, 172.	2.5	29
70	Characterization of the autofluorescence of normal and tumoral esophageal epithelium cells. , 2003, , .		0
71	Near-infrared Photosensitizer Based on a Cycloimide Derivative of Chlorin p6: 13,15-N-(3â€²-Hydroxypropyl)Cycloimide Chlorin p6Â¶. Photochemistry and Photobiology, 2002, 75, 633.	2.5	43
72	Chelation with Metal is not Essential for Antitumor Photodynamic Activity of Sulfonated Phthalocyaninesâ€Â¶. Photochemistry and Photobiology, 2002, 75, 527.	2.5	19

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73	Influence of the Substitution of 3-Vinyl by 3-Formyl Group on the Photodynamic Properties of Chlorin P6: Molecular, Cellular and In vivo StudiesÂ¶. Photochemistry and Photobiology, 2001, 73, 267.	2.5	23
74	Fluorescent carbohydrate probes for cell lectins. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 2285-2296.	3.9	17