

Ruslan I Dmitriev

List of Publications by Year in descending order

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83
papers

3,102
citations

147801

31
h-index

168389

53
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89
all docs

89
docs citations

89
times ranked

4003
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospinning of poly(decamethylene terephthalate) to support vascular graft applications. <i>European Polymer Journal</i> , 2022, 165, 111003.	5.4	6
2	Affordable Oxygen Microscopy-Assisted Biofabrication of Multicellular Spheroids. <i>Journal of Visualized Experiments</i> , 2022, , .	0.3	2
3	Intracellular label-free detection of mesenchymal stem cell metabolism within a perivascular niche-on-a-chip. <i>Lab on A Chip</i> , 2021, 21, 1395-1408.	6.0	22
4	Luminescence lifetime imaging of three-dimensional biological objects. <i>Journal of Cell Science</i> , 2021, 134, 1-17.	2.0	30
5	MISpherID: a knowledgebase and transparency tool for minimum information in spheroid identity. <i>Nature Methods</i> , 2021, 18, 1294-1303.	19.0	38
6	Evaluation of Ebselen-azadioxatriangulenium as redox-sensitive fluorescent intracellular probe and as indicator within a planar redox optode. <i>Dyes and Pigments</i> , 2020, 173, 107866.	3.7	11
7	Estimation of the Mitochondrial Membrane Potential Using Fluorescence Lifetime Imaging Microscopy. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 471-482.	1.5	28
8	Extracellular Ca ²⁺ -Sensing Fluorescent Protein Biosensor Based on a Collagen-Binding Domain. <i>ACS Applied Bio Materials</i> , 2020, 3, 5310-5321.	4.6	16
9	Disruption of hypoxia-inducible fatty acid binding protein 7 induces beige fat-like differentiation and thermogenesis in breast cancer cells. <i>Cancer & Metabolism</i> , 2020, 8, 13.	5.0	11
10	Visualization of Stem Cell Niche by Fluorescence Lifetime Imaging Microscopy. <i>Methods in Molecular Biology</i> , 2020, 2171, 65-97.	0.9	8
11	Multiparametric Optical Bioimaging Reveals the Fate of Epoxy Crosslinked Biomeshes in the Mouse Subcutaneous Implantation Model. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 107.	4.1	18
12	Multi-Parameter Fluorescence Lifetime Imaging Microscopy (FLIM) for Imaging Metabolism in the Intestinal Organoids Model. <i>Biophysical Journal</i> , 2020, 118, 330a.	0.5	1
13	A deeper understanding of intestinal organoid metabolism revealed by combining fluorescence lifetime imaging microscopy (FLIM) and extracellular flux analyses. <i>Redox Biology</i> , 2020, 30, 101420.	9.0	71
14	Seeing Is Believing: Noninvasive Microscopic Imaging Modalities for Tissue Engineering and Regenerative Medicine. , 2020, , 599-638.		9
15	Seeing Is Believing: Noninvasive Microscopic Imaging Modalities for Tissue Engineering and Regenerative Medicine. , 2020, , 1-41.		0
16	Chemical cross-linking of xenopericardial biomeshes: A bottom-up study of structural and functional correlations. <i>Xenotransplantation</i> , 2019, 26, e12506.	2.8	24
17	Background-Free Fluorescence-Decay-Time Sensing and Imaging of pH with Highly Photostable Diazaoxotriangulenium Dyes. <i>Analytical Chemistry</i> , 2019, 91, 808-816.	6.5	24
18	Stop codon readthrough generates a C-terminally extended variant of the human vitamin D receptor with reduced calcitriol response. <i>Journal of Biological Chemistry</i> , 2018, 293, 4434-4444.	3.4	59

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19	Nanoparticle-Based Fluoroionophore for Analysis of Potassium Ion Dynamics in 3D Tissue Models and In Vivo. <i>Advanced Functional Materials</i> , 2018, 28, 1704598.	14.9	33
20	Cellulose-based scaffolds for fluorescence lifetime imaging-assisted tissue engineering. <i>Acta Biomaterialia</i> , 2018, 80, 85-96.	8.3	45
21	Hydrogel-assisted neuroregeneration approaches towards brain injury therapy: A state-of-the-art review. <i>Computational and Structural Biotechnology Journal</i> , 2018, 16, 488-502.	4.1	77
22	Imaging of oxygen and hypoxia in cell and tissue samples. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 2963-2980.	5.4	64
23	CHAPTER 3. Evolution of Cell-penetrating Phosphorescent O ₂ Probes. <i>RSC Detection Science</i> , 2018, , 50-70.	0.0	2
24	Hybrid biosensing cellulose-based scaffolds for imaging-assisted tissue engineering. <i>FASEB Journal</i> , 2018, 32, 674.25.	0.5	1
25	Steering surface topographies of electrospun fibers: understanding the mechanisms. <i>Scientific Reports</i> , 2017, 7, 158.	3.3	71
26	Fabrication and Handling of 3D Scaffolds Based on Polymers and Decellularized Tissues. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1035, 71-81.	1.6	17
27	Multi-Parametric Imaging of Hypoxia and Cell Cycle in Intestinal Organoid Culture. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1035, 85-103.	1.6	16
28	Multi-Parametric Live Cell Microscopy of 3D Tissue Models. <i>Advances in Experimental Medicine and Biology</i> , 2017, , .	1.6	12
29	Three-Dimensional Tissue Models and Available Probes for Multi-Parametric Live Cell Microscopy: A Brief Overview. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1035, 49-67.	1.6	10
30	Live cell imaging of mouse intestinal organoids reveals heterogeneity in their oxygenation. <i>Biomaterials</i> , 2017, 146, 86-96.	11.4	59
31	Use of Fluorescence Lifetime Imaging Microscopy (FLIM) as a Timer of Cell Cycle S Phase. <i>PLoS ONE</i> , 2016, 11, e0167385.	2.5	32
32	Systematic analysis of the <i>PTEN</i> 5' leader identifies a major AUU initiated proteoform. <i>Open Biology</i> , 2016, 6, 150203.	3.6	39
33	High-Resolution Analysis of Molecular Oxygen in Mammalian Cell Models by Phosphorescence Lifetime Imaging Microscopy. <i>Biophysical Journal</i> , 2016, 110, 518a-519a.	0.5	0
34	The Secretory Pathway Ca ²⁺ /Mn ²⁺ -Atpase SPCA2 Regulates Mn ²⁺ -Dependent Cell Cycle Progression in 3D Culture of Colon Cancer Cells. <i>Biophysical Journal</i> , 2016, 110, 336a.	0.5	1
35	Two-Acceptor Cyanine-Based Fluorescent Indicator for NAD(P)H in Tumor Cell Models. <i>ACS Sensors</i> , 2016, 1, 702-709.	7.8	46
36	Sulforhodamine Nanothermometer for Multiparametric Fluorescence Lifetime Imaging Microscopy. <i>Analytical Chemistry</i> , 2016, 88, 10566-10572.	6.5	55

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37	The Ca ²⁺ /Mn ²⁺ -transporting SPCA2 pump is regulated by oxygen and cell density in colon cancer cells. <i>Biochemical Journal</i> , 2016, 473, 2507-2518.	3.7	14
38	Evolutionary diversification of the BetaM interactome acquired through co-option of the ATP1B4 gene in placental mammals. <i>Scientific Reports</i> , 2016, 6, 22395.	3.3	7
39	Metallochelate Coupling of Phosphorescent Pt-Porphyrins to Peptides, Proteins, and Self-Assembling Protein Nanoparticles. <i>Bioconjugate Chemistry</i> , 2016, 27, 439-445.	3.6	13
40	Oxygen and glucose deprivation induces widespread alterations in mRNA translation within 20 minutes. <i>Genome Biology</i> , 2015, 16, 90.	8.8	110
41	Imaging of oxygenation in 3D tissue models with multi-modal phosphorescent probes. , 2015, , .		0
42	Oxygen-sensing scaffolds for 3-dimensional cell and tissue culture. <i>Acta Biomaterialia</i> , 2015, 16, 126-135.	8.3	45
43	Imaging oxygen in neural cell and tissue models by means of anionic cell-permeable phosphorescent nanoparticles. <i>Cellular and Molecular Life Sciences</i> , 2015, 72, 367-381.	5.4	49
44	Intracellular probes for imaging oxygen concentration: how good are they?. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 034001.	2.3	53
45	Imaging Cell and Tissue O ₂ by TCSPC-PLIM. <i>Springer Series in Chemical Physics</i> , 2015, , 225-247.	0.2	7
46	Multi-parametric imaging of tumor spheroids with ultra-bright and tunable nanoparticle O ₂ probes. <i>Proceedings of SPIE</i> , 2015, , .	0.8	7
47	Versatile Conjugated Polymer Nanoparticles for High-Resolution O ₂ Imaging in Cells and 3D Tissue Models. <i>ACS Nano</i> , 2015, 9, 5275-5288.	14.6	147
48	In vitro ischemia decreases histone H4K16 acetylation in neural cells. <i>FEBS Letters</i> , 2015, 589, 138-144.	2.8	23
49	Multi-parametric O ₂ Imaging in Three-Dimensional Neural Cell Models with the Phosphorescent Probes. <i>Methods in Molecular Biology</i> , 2015, 1254, 55-71.	0.9	13
50	Availability of the key metabolic substrates dictates the respiratory response of cancer cells to the mitochondrial uncoupling. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 51-62.	1.0	45
51	pH-sensitive perylene bisimide probes for live cell fluorescence lifetime imaging. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6792-6801.	5.8	57
52	Small molecule phosphorescent probes for O ₂ imaging in 3D tissue models. <i>Biomaterials Science</i> , 2014, 2, 853-866.	5.4	93
53	TWO DISTINCT NUCLEAR LOCALIZATION SIGNALS IN MAMMALIAN MSL1 REGULATE ITS FUNCTION. <i>Journal of Cellular Biochemistry</i> , 2014, 115, n/a-n/a.	2.6	2
54	Kinetic Analysis of Local Oxygenation and Respiratory Responses of Mammalian Cells Using Intracellular Oxygen-Sensitive Probes and Time-Resolved Fluorometry. <i>Methods in Enzymology</i> , 2014, 542, 183-207.	1.0	6

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55	Chronic hypoxia leads to a glycolytic phenotype and suppressed HIF-2 signaling in PC12 cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3553-3569.	2.4	30
56	Imaging of neurosphere oxygenation with phosphorescent probes. <i>Biomaterials</i> , 2013, 34, 9307-9317.	11.4	105
57	Measurement of cell respiration and oxygenation in standard multichannel biochips using phosphorescent O ₂ -sensitive probes. <i>Analyst, The</i> , 2013, 138, 4915.	3.5	13
58	Genome-wide investigation of cellular targets and mode of action of the antifungal bacterial metabolite 2,4-diacetylphloroglucinol in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2013, 13, 322-334.	2.3	40
59	Biological detection by optical oxygen sensing. <i>Chemical Society Reviews</i> , 2013, 42, 8700.	38.1	361
60	3D O ₂ imaging in the neuronal spheroids. <i>FASEB Journal</i> , 2013, 27, 574.1.	0.5	0
61	Insight into oxygenation levels within 3D cell models and its impact on cell metabolism. <i>FASEB Journal</i> , 2013, 27, 1b799.	0.5	0
62	O ₂ Analysis on a Fluorescence Spectrometer or Plate Reader. <i>SpringerBriefs in Biochemistry and Molecular Biology</i> , 2012, , 29-69.	0.3	0
63	Bafilomycin A1 activates HIF-dependent signalling in human colon cancer cells via mitochondrial uncoupling. <i>Bioscience Reports</i> , 2012, 32, 587-595.	2.4	32
64	Structural evolution and tissue-specific expression of tetrapod-specific second isoform of secretory pathway Ca ²⁺ -ATPase. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 1298-1303.	2.1	14
65	Phosphorescent Oxygen-Sensitive Probes. <i>SpringerBriefs in Biochemistry and Molecular Biology</i> , 2012, , .	0.3	16
66	O ₂ -Sensitive Probes Based on Phosphorescent Metalloporphyrins. <i>SpringerBriefs in Biochemistry and Molecular Biology</i> , 2012, , 1-28.	0.3	2
67	Assessment of Cellular Oxygen Gradients with a Panel of Phosphorescent Oxygen-Sensitive Probes. <i>Analytical Chemistry</i> , 2012, 84, 2930-2938.	6.5	74
68	A Phosphorescent Nanoparticle-Based Probe for Sensing and Imaging of (Intra)Cellular Oxygen in Multiple Detection Modalities. <i>Advanced Functional Materials</i> , 2012, 22, 4931-4939.	14.9	136
69	Complexes of Ir ^{III} -Octaethylporphyrin with Peptides as Probes for Sensing Cellular O ₂ . <i>ChemBioChem</i> , 2012, 13, 1184-1190.	2.6	68
70	Optical probes and techniques for O ₂ measurement in live cells and tissue. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 2025-2039.	5.4	196
71	Histone H4 acetylation at K16 residue and mitochondrial activity in neuronal cells. <i>FASEB Journal</i> , 2012, 26, 565.4.	0.5	1
72	Cell-Penetrating Conjugates of Coproporphyrins with Oligoarginine Peptides: Rational Design and Application for Sensing Intracellular O ₂ . <i>Bioconjugate Chemistry</i> , 2011, 22, 2507-2518.	3.6	54

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73	Bafilomycin A1 activates respiration of neuronal cells via uncoupling associated with flickering depolarization of mitochondria. Cellular and Molecular Life Sciences, 2011, 68, 903-917.	5.4	47
74	Uncoupling effect of bafilomycin A1 on HIF and cell bioenergetics. FASEB Journal, 2011, 25, 861.15.	0.5	1
75	Intracellular oxygen-sensitive phosphorescent probes based on cell-penetrating peptides. Analytical Biochemistry, 2010, 398, 24-33.	2.4	67
76	Bactenecinâ€f7 peptide fragment as a tool for intracellular delivery of a phosphorescent oxygen sensor. FEBS Journal, 2010, 277, 4651-4661.	4.7	31
77	Imaging of Cellular Oxygen and Analysis of Metabolic Responses of Mammalian Cells. Methods in Molecular Biology, 2010, 591, 257-273.	0.9	23
78	Nuclear transport of protein TTC4 depends on the cell cycle. Cell and Tissue Research, 2009, 336, 521-527.	2.9	15
79	Isolation of Extracellular Recombinant Fragment of Rat Connexin-43. Bulletin of Experimental Biology and Medicine, 2009, 148, 389-393.	0.8	2
80	Structure and function of MYST1 histone acetyltransferase in the interactome of animal cells. Biochemistry (Moscow), 2008, 73, 839-852.	1.5	2
81	Characterization of hampin/MSL1 as a node in the nuclear interactome. Biochemical and Biophysical Research Communications, 2007, 355, 1051-1057.	2.1	15
82	Intracellular location of hampin isoforms. Doklady Biochemistry and Biophysics, 2006, 408, 130-132.	0.9	2
83	A Caenorhabditis elegans mutant lacking functional nicotinamide nucleotide transhydrogenase displays increased sensitivity to oxidative stress. Free Radical Biology and Medicine, 2005, 38, 1518-1525.	2.9	97