

# Ruslan I Dmitriev

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2561129/publications.pdf>

Version: 2024-02-01

83  
papers

3,102  
citations

147801

31  
h-index

168389

53  
g-index

89  
all docs

89  
docs citations

89  
times ranked

4003  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological detection by optical oxygen sensing. <i>Chemical Society Reviews</i> , 2013, 42, 8700.	38.1	361
2	Optical probes and techniques for O <sub>2</sub> measurement in live cells and tissue. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 2025-2039.	5.4	196
3	Versatile Conjugated Polymer Nanoparticles for High-Resolution O <sub>2</sub> Imaging in Cells and 3D Tissue Models. <i>ACS Nano</i> , 2015, 9, 5275-5288.	14.6	147
4	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
5	Oxygen and glucose deprivation induces widespread alterations in mRNA translation within 20 minutes. <i>Genome Biology</i> , 2015, 16, 90.	8.8	110
6	Imaging of neurosphere oxygenation with phosphorescent probes. <i>Biomaterials</i> , 2013, 34, 9307-9317.	11.4	105
7	A <i>Caenorhabditis elegans</i> mutant lacking functional nicotinamide nucleotide transhydrogenase displays increased sensitivity to oxidative stress. <i>Free Radical Biology and Medicine</i> , 2005, 38, 1518-1525.	2.9	97
8	Small molecule phosphorescent probes for O <sub>2</sub> imaging in 3D tissue models. <i>Biomaterials Science</i> , 2014, 2, 853-866.	5.4	93
9	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
10	Assessment of Cellular Oxygen Gradients with a Panel of Phosphorescent Oxygen-Sensitive Probes. <i>Analytical Chemistry</i> , 2012, 84, 2930-2938.	6.5	74
11	Steering surface topographies of electrospun fibers: understanding the mechanisms. <i>Scientific Reports</i> , 2017, 7, 158.	3.3	71
12	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
13	Complexes of Ir <sup>III</sup> -Octaethylporphyrin with Peptides as Probes for Sensing Cellular O <sub>2</sub> . <i>ChemBioChem</i> , 2012, 13, 1184-1190.	2.6	68
14	Intracellular oxygen-sensitive phosphorescent probes based on cell-penetrating peptides. <i>Analytical Biochemistry</i> , 2010, 398, 24-33.	2.4	67
15	Imaging of oxygen and hypoxia in cell and tissue samples. <i>Cellular and Molecular Life Sciences</i> , 2018, 75, 2963-2980.	5.4	64
16	Live cell imaging of mouse intestinal organoids reveals heterogeneity in their oxygenation. <i>Biomaterials</i> , 2017, 146, 86-96.	11.4	59
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Sulforhodamine Nanothermometer for Multiparametric Fluorescence Lifetime Imaging Microscopy. <i>Analytical Chemistry</i> , 2016, 88, 10566-10572.	6.5	55
20	Cell-Penetrating Conjugates of Coproporphyrins with Oligoarginine Peptides: Rational Design and Application for Sensing Intracellular O <sub>2</sub> . <i>Bioconjugate Chemistry</i> , 2011, 22, 2507-2518.	3.6	54
21	Intracellular probes for imaging oxygen concentration: how good are they?. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 034001.	2.3	53
22	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
23	Bafilomycin A1 activates respiration of neuronal cells via uncoupling associated with flickering depolarization of mitochondria. <i>Cellular and Molecular Life Sciences</i> , 2011, 68, 903-917.	5.4	47
24	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
25	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
26	Oxygen-sensing scaffolds for 3-dimensional cell and tissue culture. <i>Acta Biomaterialia</i> , 2015, 16, 126-135.	8.3	45
27	Cellulose-based scaffolds for fluorescence lifetime imaging-assisted tissue engineering. <i>Acta Biomaterialia</i> , 2018, 80, 85-96.	8.3	45
28	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
29	Systematic analysis of the PTEN 5' leader identifies a major AUU initiated proteoform. <i>Open Biology</i> , 2016, 6, 150203.	3.6	39
30	MISpherID: a knowledgebase and transparency tool for minimum information in spheroid identity. <i>Nature Methods</i> , 2021, 18, 1294-1303.	19.0	38
31	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
32	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
33	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
34	Bactenecin $\epsilon$ 7 peptide fragment as a tool for intracellular delivery of a phosphorescent oxygen sensor. <i>FEBS Journal</i> , 2010, 277, 4651-4661.	4.7	31
35	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
36	Luminescence lifetime imaging of three-dimensional biological objects. <i>Journal of Cell Science</i> , 2021, 134, 1-17.	2.0	30

#	ARTICLE	IF	CITATIONS
37	Estimation of the Mitochondrial Membrane Potential Using Fluorescence Lifetime Imaging Microscopy. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 471-482.	1.5	28
38	Chemical crosslinking of xenopericardial biomeshes: A bottom-up study of structural and functional correlations. Xenotransplantation, 2019, 26, e12506.	2.8	24
39	Background-Free Fluorescence-Decay-Time Sensing and Imaging of pH with Highly Photostable Diazaoxotriangulenium Dyes. Analytical Chemistry, 2019, 91, 808-816.	6.5	24
40	Imaging of Cellular Oxygen and Analysis of Metabolic Responses of Mammalian Cells. Methods in Molecular Biology, 2010, 591, 257-273.	0.9	23
41	In vitro ischemia decreases histone H4K16 acetylation in neural cells. FEBS Letters, 2015, 589, 138-144.	2.8	23
42	Intracellular label-free detection of mesenchymal stem cell metabolism within a perivascular niche-on-a-chip. Lab on A Chip, 2021, 21, 1395-1408.	6.0	22
43	Multiparametric Optical Bioimaging Reveals the Fate of Epoxy Crosslinked Biomeshes in the Mouse Subcutaneous Implantation Model. Frontiers in Bioengineering and Biotechnology, 2020, 8, 107.	4.1	18
44	Fabrication and Handling of 3D Scaffolds Based on Polymers and Decellularized Tissues. Advances in Experimental Medicine and Biology, 2017, 1035, 71-81.	1.6	17
45	Phosphorescent Oxygen-Sensitive Probes. SpringerBriefs in Biochemistry and Molecular Biology, 2012, , .	0.3	16
46	Multi-Parametric Imaging of Hypoxia and Cell Cycle in Intestinal Organoid Culture. Advances in Experimental Medicine and Biology, 2017, 1035, 85-103.	1.6	16
47	Extracellular Ca <sup>2+</sup> -Sensing Fluorescent Protein Biosensor Based on a Collagen-Binding Domain. ACS Applied Bio Materials, 2020, 3, 5310-5321.	4.6	16
48	Characterization of hampin/MSL1 as a node in the nuclear interactome. Biochemical and Biophysical Research Communications, 2007, 355, 1051-1057.	2.1	15
49	Nuclear transport of protein TTC4 depends on the cell cycle. Cell and Tissue Research, 2009, 336, 521-527.	2.9	15
50	Structural evolution and tissue-specific expression of tetrapod-specific second isoform of secretory pathway Ca <sup>2+</sup> -ATPase. Biochemical and Biophysical Research Communications, 2012, 417, 1298-1303.	2.1	14
51	The Ca <sup>2+</sup> /Mn <sup>2+</sup> -transporting SPCA2 pump is regulated by oxygen and cell density in colon cancer cells. Biochemical Journal, 2016, 473, 2507-2518.	3.7	14
52	Measurement of cell respiration and oxygenation in standard multichannel biochips using phosphorescent O <sub>2</sub> -sensitive probes. Analyst, The, 2013, 138, 4915.	3.5	13
53	Multi-parametric O <sub>2</sub> Imaging in Three-Dimensional Neural Cell Models with the Phosphorescent Probes. Methods in Molecular Biology, 2015, 1254, 55-71.	0.9	13
54	Metallochelatase Coupling of Phosphorescent Pt-Porphyrins to Peptides, Proteins, and Self-Assembling Protein Nanoparticles. Bioconjugate Chemistry, 2016, 27, 439-445.	3.6	13

#	ARTICLE	IF	CITATIONS
55	Multi-Parametric Live Cell Microscopy of 3D Tissue Models. <i>Advances in Experimental Medicine and Biology</i> , 2017, , .	1.6	12
56	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
57	Disruption of hypoxia-inducible fatty acid binding protein 7 induces beige fat-like differentiation and thermogenesis in breast cancer cells. <i>Cancer &amp; Metabolism</i> , 2020, 8, 13.	5.0	11
58	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
59	Seeing Is Believing: Noninvasive Microscopic Imaging Modalities for Tissue Engineering and Regenerative Medicine. , 2020, , 599-638.		9
60	Visualization of Stem Cell Niche by Fluorescence Lifetime Imaging Microscopy. <i>Methods in Molecular Biology</i> , 2020, 2171, 65-97.	0.9	8
61	Imaging Cell and Tissue O <sub>2</sub> by TCSPC-PLIM. <i>Springer Series in Chemical Physics</i> , 2015, , 225-247.	0.2	7
62	Multi-parametric imaging of tumor spheroids with ultra-bright and tunable nanoparticle O <sub>2</sub> probes. <i>Proceedings of SPIE</i> , 2015, , .	0.8	7
63	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
64	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
65	Electrospinning of poly(decamethylene terephthalate) to support vascular graft applications. <i>European Polymer Journal</i> , 2022, 165, 111003.	5.4	6
66	Intracellular location of hampin isoforms. <i>Doklady Biochemistry and Biophysics</i> , 2006, 408, 130-132.	0.9	2
67	Structure and function of MYST1 histone acetyltransferase in the interactome of animal cells. <i>Biochemistry (Moscow)</i> , 2008, 73, 839-852.	1.5	2
68	Isolation of Extracellular Recombinant Fragment of Rat Connexin-43. <i>Bulletin of Experimental Biology and Medicine</i> , 2009, 148, 389-393.	0.8	2
69	O <sub>2</sub> -Sensitive Probes Based on Phosphorescent Metalloporphyrins. <i>SpringerBriefs in Biochemistry and Molecular Biology</i> , 2012, , 1-28.	0.3	2
70	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
71	CHAPTER 3. Evolution of Cell-penetrating Phosphorescent O <sub>2</sub> Probes. <i>RSC Detection Science</i> , 2018, , 50-70.	0.0	2
72	Affordable Oxygen Microscopy-Assisted Biofabrication of Multicellular Spheroids. <i>Journal of Visualized Experiments</i> , 2022, , .	0.3	2

#	ARTICLE	IF	CITATIONS
73	The Secretory Pathway Ca <sup>2+</sup> /Mn <sup>2+</sup> -Atpase SPCA2 Regulates Mn <sup>2+</sup> -Dependent Cell Cycle Progression in 3D Culture of Colon Cancer Cells. Biophysical Journal, 2016, 110, 336a.	0.5	1
74	Multi-Parameter Fluorescence Lifetime Imaging Microscopy (FLIM) for Imaging Metabolism in the Intestinal Organoids Model. Biophysical Journal, 2020, 118, 330a.	0.5	1
75	Uncoupling effect of bafilomycin A1 on HIF and cell bioenergetics. FASEB Journal, 2011, 25, 861.15.	0.5	1
76	Histone H4 acetylation at K16 residue and mitochondrial activity in neuronal cells. FASEB Journal, 2012, 26, 565.4.	0.5	1
77	Hybrid biosensing cellulose-based scaffolds for imaging-assisted tissue engineering. FASEB Journal, 2018, 32, 674.25.	0.5	1
78	O <sub>2</sub> Analysis on a Fluorescence Spectrometer or Plate Reader. SpringerBriefs in Biochemistry and Molecular Biology, 2012, , 29-69.	0.3	0
79	Imaging of oxygenation in 3D tissue models with multi-modal phosphorescent probes. , 2015, , .		0
80	High-Resolution Analysis of Molecular Oxygen in Mammalian Cell Models by Phosphorescence Lifetime Imaging Microscopy. Biophysical Journal, 2016, 110, 518a-519a.	0.5	0
81	3D O <sub>2</sub> imaging in the neuronal spheroids. FASEB Journal, 2013, 27, 574.1.	0.5	0
82	Insight into oxygenation levels within 3D cell models and its impact on cell metabolism. FASEB Journal, 2013, 27, lb799.	0.5	0
83	Seeing Is Believing: Noninvasive Microscopic Imaging Modalities for Tissue Engineering and Regenerative Medicine. , 2020, , 1-41.		0