Sergei A Vinogradov

List of Publications by Year
in descending order

135 papers	9,943 citations	36271 51 h-index	37183 96 g-index
139 all docs	139 docs citations	139 times ranked	11206 citing authors

#	Article	IF	Citations
1	Direct measurement of local oxygen concentration in the bone marrow of live animals. Nature, 2014, 508, 269-273.	13.7	933
2	Correlation Between Intraluminal Oxygen Gradient and Radial Partitioning of Intestinal Microbiota. Gastroenterology, 2014, 147, 1055-1063.e8.	0.6	658
3	Self-assembly of amphiphilic dendritic dipeptides into helical pores. Nature, 2004, 430, 764-768.	13.7	613
4	Two-photon high-resolution measurement of partial pressure of oxygen in cerebral vasculature and tissue. Nature Methods, 2010, 7, 755-759.	9.0	415
5	Oxyphor R2 and G2: phosphors for measuring oxygen by oxygen-dependent quenching of phosphorescence. Analytical Biochemistry, 2002, 310, 191-198.	1.1	269
6	Phosphorescent Oxygen Sensor with Dendritic Protection and Two-Photon Absorbing Antenna. Journal of the American Chemical Society, 2005, 127, 11851-11862.	6.6	250
7	Oxygen Microscopy by Twoâ€Photonâ€Excited Phosphorescence. ChemPhysChem, 2008, 9, 1673-1679.	1.0	238
8	Simultaneous two-photon imaging of oxygen and blood flow in deep cerebral vessels. Nature Medicine, 2011, 17, 893-898.	15.2	236
9	Two New â€œProtectedâ€•Oxyphors for Biological Oximetry: Properties and Application in Tumor Imaging. Analytical Chemistry, 2011, 83, 8756-8765.	3.2	201
10	Dendritic Phosphorescent Probes for Oxygen Imaging in Biological Systems. ACS Applied Materials & Interfaces, 2009, 1, 1292-1304.	4.0	194
11	CENP-C reshapes and stabilizes CENP-A nucleosomes at the centromere. Science, 2015, 348, 699-703.	6.0	186
12	Microbes vs. chemistry in the origin of the anaerobic gut lumen. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4170-4175.	3.3	176
13	â€œOvershootâ€•of O₂Is Required to Maintain Baseline Tissue Oxygenation at Locations Distal to Blood Vessels. Journal of Neuroscience, 2011, 31, 13676-13681.	1.7	175
14	Live-animal imaging of native haematopoietic stem and progenitor cells. Nature, 2020, 578, 278-283.	13.7	171
15	Observation and Interpretation of Annulated Porphyrins:Â Studies on the Photophysical Properties ofmeso-Tetraphenylmetalloporphyrins. Journal of Physical Chemistry A, 2003, 107, 11331-11339.	1.1	160
16	Selective Transport of Water Mediated by Porous Dendritic Dipeptides. Journal of the American Chemical Society, 2007, 129, 11698-11699.	6.6	160
17	Porphyrin and Tetrabenzoporphyrin Dendrimers:â€‰ Tunable Membrane-Impermeable Fluorescent pH Nanosensors. Journal of the American Chemical Society, 2003, 125, 4882-4893.	6.6	155
18	Novel Versatile Synthesis of Substituted Tetrabenzoporphyrins. Journal of Organic Chemistry, 2004, 69, 522-535.	1.7	152

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19	Frontiers in Optical Imaging of Cerebral Blood Flow and Metabolism. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1259-1276.	2.4	137
20	Dendritic Polyglutamic Porphyrins: Probing Porphyrin Protection by Oxygen-Dependent Quenching of Phosphorescence. Chemistry - A European Journal, 1999, 5, 1338-1347.	1.7	124
21	Dendrimers with tetrabenzoporphyrin cores: near infrared phosphors for in vivo oxygen imaging. Tetrahedron, 2003, 59, 3821-3831.	1.0	116
22	The primary oxygen sensor of the cat carotid body is cytochromea3of the mitochondrial respiratory chain. FEBS Letters, 1994, 351, 370-374.	1.3	115
23	Frequency domain instrument for measuring phosphorescence lifetime distributions in heterogeneous samples. Review of Scientific Instruments, 2001, 72, 3396-3406.	0.6	111
24	Synthesis and Luminescence of Solublemeso-Unsubstituted Tetrabenzo- and Tetranaphtho[2,3]porphyrins. Journal of Organic Chemistry, 2005, 70, 9562-9572.	1.7	111
25	Oxygen pressures in the interstitial space and their relationship to those in the blood plasma in resting skeletal muscle. Journal of Applied Physiology, 2006, 101, 1648-1656.	1.2	106
26	Oxyphor 2P: A High-Performance Probe for Deep-Tissue Longitudinal Oxygen Imaging. Cell Metabolism, 2019, 29, 736-744.e7.	7.2	105
27	Effects of Structural Deformations on Optical Properties of Tetrabenzoporphyrins: Free-Bases and Pd Complexes. Journal of Physical Chemistry A, 2008, 112, 7723-7733.	1.1	104
28	Quantification of Oxygen Depletion During FLASH Irradiation In Vitro and In Vivo. International Journal of Radiation Oncology Biology Physics, 2021, 111, 240-248.	0.4	93
29	Oxygen distribution in murine tumors: characterization using oxygen-dependent quenching of phosphorescence. Journal of Applied Physiology, 2005, 98, 1503-1510.	1.2	90
30	Synthesis of Symmetrical Tetraaryltetranaphtho[2,3]porphyrins. Journal of Organic Chemistry, 2005, 70, 4617-4628.	1.7	89
31	Ï€-Extended Dipyrrins Capable of Highly Fluorogenic Complexation with Metal Ions. Journal of the American Chemical Society, 2010, 132, 9552-9554.	6.6	88
32	Dendritic upconverting nanoparticles enable in vivo multiphoton microscopy with low-power continuous wave sources. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20826-20831.	3.3	88
33	Gold Tris(carboxyphenyl)corroles as Multifunctional Materials: Room Temperature Near-IR Phosphorescence and Applications to Photodynamic Therapy and Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 18935-18942.	4.0	86
34	Phosphorescent Pd Porphyrinâ˜'Dendrimers:Â Tuning Core Accessibility by Varying the Hydrophobicity of the Dendritic Matrix. Macromolecules, 2002, 35, 1991-1993.	2.2	85
35	Self-Sorting and Coassembly of Fluorinated, Hydrogenated, and Hybrid Janus Dendrimers into Dendrimersomes. Journal of the American Chemical Society, 2016, 138, 12655-12663.	6.6	83
36	Neutrophil Î±-Defensins Cause Lung Injury by Disrupting the Capillaryâ€"Epithelial Barrier. American Journal of Respiratory and Critical Care Medicine, 2010, 181, 935-946.	2.5	73

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37	The Challenge of Connecting the Dots in the B.R.A.I.N.. Neuron, 2013, 80, 270-274.	3.8	73
38	Energy and Electron Transfer in Enhanced Two-Photon-Absorbing Systems with Triplet Cores. Journal of Physical Chemistry A, 2007, 111, 6977-6990.	1.1	70
39	Two-Photon Antenna-Core Oxygen Probe with Enhanced Performance. Analytical Chemistry, 2014, 86, 5937-5945.	3.2	69
40	Highly Non-Planar Dendritic Porphyrin for pH Sensing: Observation of Porphyrin Monocation. Inorganic Chemistry, 2010, 49, 9909-9920.	1.9	68
41	More homogeneous capillary flow and oxygenation in deeper cortical layers correlate with increased oxygen extraction. ELife, 2019, 8, .	2.8	68
42	Influence of Nonplanarity and Extended Conjugation on Porphyrin Basicity. Inorganic Chemistry, 2002, 41, 6944-6946.	1.9	67
43	Electrochemistry of Platinum(II) Porphyrins: Effect of Substituents and Ï€-Extension on Redox Potentials and Site of Electron Transfer. Inorganic Chemistry, 2012, 51, 6200-6210.	1.9	66
44	Novel Route to Functionalized Tetraaryltetra[2,3]naphthaloporphyrins via Oxidative Aromatization. Journal of Organic Chemistry, 2003, 68, 7517-7520.	1.7	63
45	Design of metalloporphyrin-based dendritic nanoprobes for two-photon microscopy of oxygen. Journal of Porphyrins and Phthalocyanines, 2008, 12, 1261-1269.	0.4	59
46	Optical monitoring of oxygen tension in cortical microvessels with confocal microscopy. Optics Express, 2009, 17, 22341.	1.7	58
47	Simultaneous imaging of cerebral partial pressure of oxygen and blood flow during functional activation and cortical spreading depression. Applied Optics, 2009, 48, D169.	2.1	58
48	A New, Water Soluble, Phosphor for Oxygen Measurements in Vivo. Advances in Experimental Medicine and Biology, 1997, 428, 651-656.	0.8	57
49	An expedient synthesis of substituted tetraaryltetrabenzoporphyrins. Chemical Communications, 2001, , 261-262.	2.2	56
50	Two-Photon Absorbing Phosphorescent Metalloporphyrins: Effects of Ï€-Extension and Peripheral Substitution. Journal of the American Chemical Society, 2016, 138, 15648-15662.	6.6	55
51	Maps of in vivo oxygen pressure with submillimetre resolution and nanomolar sensitivity enabled by Cherenkov-excited luminescence scanned imaging. Nature Biomedical Engineering, 2018, 2, 254-264.	11.6	55
52	The PI3K/Akt Pathway Regulates Oxygen Metabolism via Pyruvate Dehydrogenase (PDH)-E1Î± Phosphorylation. Molecular Cancer Therapeutics, 2015, 14, 1928-1938.	1.9	54
53	Three-dimensional mapping of oxygen tension in cortical arterioles before and after occlusion. Biomedical Optics Express, 2013, 4, 1061.	1.5	52
54	Electrostatic Core Shielding in Dendritic Polyglutamic Porphyrins. Chemistry - A European Journal, 2000, 6, 2456-2461.	1.7	50

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55	Direct Observation of Triplet State Emission of Single Molecules:Â Single Molecule Phosphorescence Quenching of Metalloporphyrin and Organometallic Complexes by Molecular Oxygen and Their Quenching Rate Distributions. Journal of the American Chemical Society, 2003, 125, 13198-13204.	6.6	50
56	Engineering oxidoreductases: maquette proteins designed from scratch. Biochemical Society Transactions, 2012, 40, 561-566.	1.6	50
57	Oxygen, pH, and mitochondrial oxidative phosphorylation. Journal of Applied Physiology, 2012, 113, 1838-1845.	1.2	48
58	Amphiphilic diblock star polymer catalysts via atom transfer radical polymerization. Journal of Polymer Science Part A, 2006, 44, 4939-4951.	2.5	47
59	Recursive Maximum Entropy Algorithm and its Application to the Luminescence Lifetime Distribution Recovery. Applied Spectroscopy, 2000, 54, 849-855.	1.2	46
60	Synthesis of Phosphorescent Asymmetrically Ï€-Extended Porphyrins for Two-Photon Applications. Journal of Organic Chemistry, 2014, 79, 8812-8825.	1.7	46
61	Cherenkov-excited luminescence scanned imaging. Optics Letters, 2015, 40, 827.	1.7	46
62	Luminescent Zn and Pd Tetranaphthaloporphyrins. Inorganic Chemistry, 2003, 42, 4253-4255.	1.9	45
63	In vivo imaging and analysis of cerebrovascular hemodynamic responses and tissue oxygenation in the mouse brain. Nature Protocols, 2018, 13, 1377-1402.	5.5	45
64	Tissue pO2 distributions in xenograft tumors dynamically imaged by Cherenkov-excited phosphorescence during fractionated radiation therapy. Nature Communications, 2020, 11, 573.	5.8	45
65	ÄŒerenkov radiation emission and excited luminescence (CREL) sensitivity during external beam radiation therapy: Monte Carlo and tissue oxygenation phantom studies. Biomedical Optics Express, 2012, 3, 2381.	1.5	42
66	Merger of dynamic two-photon and phosphorescence lifetime microscopy reveals dependence of lymphocyte motility on oxygen in solid and hematological tumors. , 2019, 7, 78.		42
67	Erlotinib Pretreatment Improves Photodynamic Therapy of Nonâ€"Small Cell Lung Carcinoma Xenografts via Multiple Mechanisms. Cancer Research, 2015, 75, 3118-3126.	0.4	41
68	The roadmap for estimation of cell-type-specific neuronal activity from non-invasive measurements. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150356.	1.8	41
69	Dynamic quenching of porphyrin triplet states by two-photon absorbing dyes: Towards two-photon-enhanced oxygen nanosensors. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 198, 75-84.	2.0	40
70	A method for measuring oxygen distributions in tissue using frequency domain phosphorometry. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 132, 147-152.	0.8	39
71	Two-photon microscopy measurement of cerebral metabolic rate of oxygen using periarteriolar oxygen concentration gradients. Neurophotonics, 2016, 3, 045005.	1.7	39
72	Spatiotemporal blood vessel specification at the osteogenesis and angiogenesis interface of biomimetic nanofiber-enabled bone tissue engineering. Biomaterials, 2021, 276, 121041.	5.7	39

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73	Implanted Cell-Dense Prevascularized Tissues Develop Functional Vasculature That Supports Reoxygenation After Thrombosis. Tissue Engineering - Part A, 2014, 20, 2316-2328.	1.6	38
74	Evaluation of phototoxicity of dendritic porphyrin-based phosphorescent oxygen probes: an in vitro study. Photochemical and Photobiological Sciences, 2011, 10, 1056-1065.	1.6	37
75	Generation of Phosphorescent Triplet States via Photoinduced Electron Transfer: Energy and Electron Transfer Dynamics in Pt Porphyrinâ€"Rhodamine B Dyads. Journal of Physical Chemistry A, 2012, 116, 3598-3610.	1.1	36
76	Magnetic Field Effects on Tripletâ€"Triplet Annihilation in Solutions: Modulation of Visible/NIR Luminescence. Journal of Physical Chemistry Letters, 2013, 4, 2799-2804.	2.1	36
77	Oxygen tomography by ÄŒerenkov-excited phosphorescence during external beam irradiation. Journal of Biomedical Optics, 2013, 18, 050503.	1.4	34
78	Mitochondrial cytochrome<i>c</i>oxidase: mechanism of action and role in regulating oxidative phosphorylation. Journal of Applied Physiology, 2014, 117, 1431-1439.	1.2	30
79	Electrospun Fiber Mesh for High-Resolution Measurements of Oxygen Tension in Cranial Bone Defect Repair. ACS Applied Materials & Interfaces, 2019, 11, 33548-33558.	4.0	30
80	Endothermic and Exothermic Energy Transfer Made Equally Efficient for Tripletâ€"Triplet Annihilation Upconversion. Journal of Physical Chemistry Letters, 2020, 11, 318-324.	2.1	30
81	Arylamide Dendrimers with Flexible Linkers via Haloacyl Halide Method. Organic Letters, 2005, 7, 1761-1764.	2.4	27
82	Cherenkov excited phosphorescence-based pO₂estimation during multi-beam radiation therapy: phantom and simulation studies. Physics in Medicine and Biology, 2014, 59, 5317-5328.	1.6	27
83	Light sheet luminescence imaging with Cherenkov excitation in thick scattering media. Optics Letters, 2016, 41, 2986.	1.7	26
84	Accessibility of oxygen with respect to the heme pocket in horseradish peroxidase. Proteins: Structure, Function and Bioinformatics, 2003, 53, 656-666.	1.5	25
85	Bright Long-Lived Luminescence of Silicon Nanocrystals Sensitized by Two-Photon Absorbing Antenna. CheM, 2017, 2, 550-560.	5.8	25
86	Two-Photon Microscopy of Oxygen: Polymersomes as Probe Carrier Vehiclesâ€. Journal of Physical Chemistry B, 2010, 114, 14373-14382.	1.2	24
87	Single Cell Responses to Spatially Controlled Photosensitized Production of Extracellular Singlet Oxygen. Photochemistry and Photobiology, 2011, 87, 1077-1091.	1.3	24
88	Optical measurement of microvascular oxygenation and blood flow responses in awake mouse cortex during functional activation. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 510-525.	2.4	24
89	Imaging of cortical oxygen tension and blood flow following targeted photothrombotic stroke. Neurophotonics, 2018, 5, 1.	1.7	24
90	Palladium catalyzed carbonylation of Br-substituted porphyrins. Tetrahedron Letters, 1998, 39, 8935-8938.	0.7	23

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91	Tumor Blood Flow Differs between Mouse Strains: Consequences for Vasoresponse to Photodynamic Therapy. PLoS ONE, 2012, 7, e37322.	1.1	23
92	Stabilizing <i>g</i>-States in Centrosymmetric Tetrapyrroles: Two-Photon-Absorbing Porphyrins with Bright Phosphorescence. Journal of Physical Chemistry A, 2017, 121, 6243-6255.	1.1	22
93	Intravascular oxygen distribution in subcutaneous 9L tumors and radiation sensitivity. Journal of Applied Physiology, 1997, 82, 1939-1945.	1.2	20
94	Precise detection of pH inside large unilamellar vesicles using membrane-impermeable dendritic porphyrin-based nanoprobes. Analytical Biochemistry, 2009, 388, 296-305.	1.1	19
95	<i>In vivo</i> deep-tissue microscopy with UCNP/Janus-dendrimers as imaging probes: resolution at depth and feasibility of ratiometric sensing. Nanoscale, 2020, 12, 2657-2672.	2.8	18
96	Ultrafast Tracking of Oxygen Dynamics During Proton FLASH. International Journal of Radiation Oncology Biology Physics, 2022, 113, 624-634.	0.4	18
97	Cerebral Blood Oxygenation Measurement Based on Oxygen-dependent Quenching of Phosphorescence. Journal of Visualized Experiments, 2011, , .	0.2	17
98	Neurophotonic Tools for Microscopic Measurements and Manipulation: Status Report. Neurophotonics, 2022, 9, 013001.	1.7	17
99	Feasibility of diffuse optical imaging with long-lived luminescent probes. Optics Letters, 2006, 31, 1082.	1.7	16
100	One- and two-photon absorption properties of quadrupolar thiophene-based dyes with acceptors of varying strengths. Photochemical and Photobiological Sciences, 2019, 18, 2180-2190.	1.6	16
101	Bright Phosphorescence of All-Organic Chromophores Confined within Water-Soluble Silica Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 29884-29890.	1.5	16
102	Simultaneous fluorometry and phosphorometry of Langendorff perfused rat heart: ex vivo animal studies. Optics Letters, 2006, 31, 2995.	1.7	13
103	Impact of sodium glucose linked cotransporterâ€2 inhibition on renal microvascular oxygen tension in a rodent model of diabetes mellitus. Physiological Reports, 2021, 9, e14890.	0.7	13
104	Oxygen-dependent quenching of phosphorescence used to characterize improved myocardial oxygenation resulting from vasculogenic cytokine therapy. Journal of Applied Physiology, 2011, 110, 1460-1465.	1.2	12
105	Review of in vivo optical molecular imaging and sensing from x-ray excitation. Journal of Biomedical Optics, 2021, 26, .	1.4	11
106	Modulation of Visible Room Temperature Phosphorescence by Weak Magnetic Fields. Journal of Physical Chemistry Letters, 2012, 3, 3115-3119.	2.1	10
107	Mitochondrial cytochrome <i>c</i> oxidase: Mechanism of action and role in regulating oxidative phosphorylation: Reply to Pannala, Beard, and Dash. Journal of Applied Physiology, 2015, 119, 158-158.	1.2	10
108	High-Resolution pO2 Imaging Improves Quantification of the Hypoxic Fraction in Tumors During Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2021, 109, 603-613.	0.4	9

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109	Three-Photon Spectroscopy of Porphyrins. Journal of Physical Chemistry A, 2020, 124, 11038-11050.	1.1	9
110	Oxygen Monitoring in Model Solutions and In Vivo in Mice During Proton Irradiation at Conventional and FLASH Dose Rates. Radiation Research, 2022, 198, .	0.7	9
111	Renal tissue Po2sensing during acute hemodilution is dependent on the diluent. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R799-R812.	0.9	8
112	Blood Flow Measurements Enable Optimization of Light Delivery for Personalized Photodynamic Therapy. Cancers, 2020, 12, 1584.	1.7	8
113	Flexibility in Proteins: Tuning the Sensitivity to O2 Diffusion by Varying the Lifetime of a Phosphorescent Sensor in Horseradish PeroxidaseÂ¶. Photochemistry and Photobiology, 2004, 80, 36.	1.3	8
114	Optimized synthesis of luminescent silica nanoparticles by a direct micelle-assisted method. Photochemical and Photobiological Sciences, 2019, 18, 2142-2149.	1.6	7
115	Protonation of Planar and Nonplanar Porphyrins: A Calorimetric and Computational Study. Journal of Physical Chemistry A, 2020, 124, 8994-9003.	1.1	7
116	Radiotherapy-induced Cherenkov luminescence imaging in a human body phantom. Journal of Biomedical Optics, 2018, 23, 1.	1.4	7
117	NIH Workshop 2018: Towards Minimally Invasive or Noninvasive Approaches to Assess Tissue Oxygenation Pre- and Post-transfusion. Transfusion Medicine Reviews, 2021, 35, 46-55.	0.9	6
118	Two-photon phosphorescence lifetime microscopy of retinal capillary plexus oxygenation in mice. Journal of Biomedical Optics, 2018, 23, 1.	1.4	6
119	Implantable sensor for local Cherenkov-excited luminescence imaging of tumor pO2 during radiotherapy. Journal of Biomedical Optics, 2020, 25, .	1.4	6
120	Phosphorescence of individual horseradish peroxidases proteins having a modified heme group. Chemical Physics Letters, 2005, 401, 30-34.	1.2	5
121	Prospects for the Use of Upconverting Nanoparticles as a Contrast Agent for Enumeration of Circulating Cells in vivo . International Journal of Nanomedicine, 2020, Volume 15, 1709-1719.	3.3	5
122	Renal microvascular oxygen tension during hyperoxia and acute hemodilution assessed by phosphorescence quenching and excitation with blue and red light. Canadian Journal of Anaesthesia, 2021, 68, 214-225.	0.7	5
123	Influence of optical heterogeneities on reconstruction of spatial phosphorescence lifetime distributions. Optics Letters, 2008, 33, 782.	1.7	3
124	Measurement of cerebral oxygen pressure in living mice by two-photon phosphorescence lifetime microscopy. STAR Protocols, 2022, 3, 101370.	0.5	3
125	<i>syn</i>-Diarylphthalimidoporphyrins: Effects of Symmetry Breaking on Two-Photon Absorption and Linear Photophysical Properties. Journal of Physical Chemistry A, 2021, 125, 2977-2988.	1.1	2
126	Light Harvesting and Light Activatable Protein Maquettes Designed fromÂScratch. Biophysical Journal, 2013, 104, 531a.	0.2	1

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127	Review of Tissue Oxygenation Sensing During Radiotherapy Based Upon Cherenkov-Excited Luminescence Imaging. Applied Magnetic Resonance, 0, , 1.	0.6	1
128	Reply to Tsai, Cabrales, Johnson, and Intaglietta. Journal of Applied Physiology, 2007, 102, 2083-2083.	1.2	1
129	Flexibility in Proteins: Tuning the Sensitivity to O₂ Diffusion by Varying the Lifetime of a Phosphorescent Sensor in Horseradish Peroxidase^{Â¶}. Photochemistry and Photobiology, 2004, 80, 36-40.	1.3	0
130	Probing membrane proteins: Proton translocation by respiratory Complex I subunits and mrp antiporters. Biophysical Journal, 2009, 96, 566a.	0.2	0
131	Monitoring Proton Flux Quantitatively; Influenza Proton Channel A/M2. Biophysical Journal, 2010, 98, 224a.	0.2	0
132	Designing Neuronal Optical Voltage-Sensing Probes using Artificial Proteins. Biophysical Journal, 2017, 112, 285a.	0.2	0
133	Quantifying Intestinal Capillary Oxygenation Using Twoâ€photon Phosphorescence Lifetime Microscopy. FASEB Journal, 2021, 35, .	0.2	0
134	Effects of voluntary exercise on cerebral microcirculation and oxygenation in aged mice. , 2022, , .		0
135	Arylphthalimidoporphyrins: New Approaches to Imaging pH and Temperature Simultaneously with Oxygen. ECS Meeting Abstracts, 2022, MA2022-01, 945-945.	0.0	0