

Optical methods for sensing and imaging oxygen: materials and applications

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Luminescent Dual Sensors Reveal Extracellular pH-Gradients and Hypoxia on Chronic Wounds That Disrupt Epidermal Repair. <i>Theranostics</i> , 2014, 4, 721-735.	10.0	117
3	320-fold luminescence enhancement of [Ru(dpp) ₃]Cl ₂ dispersed on PMMA opal photonic crystals and highly improved oxygen sensing performance. <i>Light: Science and Applications</i> , 2014, 3, e209-e209.	16.6	42
4	Discrete O ₂ sensors produced by a spotting method on polyolefin fabric substrates. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 935-940.	7.8	16
5	Endosomes: guardians against [Ru(Phen) ₃] ²⁺ photo-action in endothelial cells during in vivo pO ₂ detection?. <i>Metallomics</i> , 2014, 6, 2279-2289.	2.4	10
6	Non-invasive transdermal two-dimensional mapping of cutaneous oxygenation with a rapid-drying liquid bandage. <i>Biomedical Optics Express</i> , 2014, 5, 3748.	2.9	66
8	Investigation of the Fluorescence Quenching of 1-Aminoanthracene by Dissolved Oxygen in Cyclohexane. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11512-11520.	2.5	5
9	A resonance energy transfer approach for the selective detection of aromatic amino acids. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10157-10163.	5.5	29
10	A highly luminescent and highly oxygen-sensitive Tb(III) complex with a tris-aryloxy functionalised 1,4,7-triazacyclononane ligand. <i>Chemical Communications</i> , 2014, 50, 15737-15739.	4.1	21
11	Response of strongly fluorescent carbazole-based benzoxazole derivatives to external force and acidic vapors. <i>RSC Advances</i> , 2014, 4, 58732-58739.	3.6	30
13	Time-Resolved Emission Imaging Microscopy Using Phosphorescent Metal Complexes: Taking FLIM and PLIM to New Lengths. <i>Structure and Bonding</i> , 2014, , 205-256.	1.0	43
14	Optical methods for sensing and imaging oxygen: materials, spectroscopies and applications. <i>Chemical Society Reviews</i> , 2014, 43, 3666-3761.	38.1	886
15	<i>In vivo</i> measurement of tissue oxygenation by time-resolved luminescence spectroscopy: advantageous properties of dichlorotris(1, 10-phenanthroline)-ruthenium(II) hydrate. <i>Journal of Biomedical Optics</i> , 2014, 19, 077004.	2.6	22
16	Ultra-sensitive optical oxygen sensors for characterization of nearly anoxic systems. <i>Nature Communications</i> , 2014, 5, 4460.	12.8	161
17	Ultrasensitive Nanosensors Based on Upconversion Nanoparticles for Selective Hypoxia Imaging in Vivo upon Near-Infrared Excitation. <i>Journal of the American Chemical Society</i> , 2014, 136, 9701-9709.	13.7	304
18	Ratiometric Fluorescent Biosensor for Hyaluronidase with Hyaluronan As Both Nanoparticle Scaffold and Substrate for Enzymatic Reaction. <i>Biomacromolecules</i> , 2014, 15, 3383-3389.	5.4	52
19	Exceptional Oxygen Sensing Properties of New Blue Light-Excitable Highly Luminescent Europium(III) and Gadolinium(III) Complexes. <i>Advanced Functional Materials</i> , 2014, 24, 6548-6560.	14.9	52
20	Porous Cu(I) Triazolate Framework and Derived Hybrid Membrane with Exceptionally High Sensing Efficiency for Gaseous Oxygen. <i>Advanced Functional Materials</i> , 2014, 24, 5866-5872.	14.9	81
22	Robust optical oxygen sensors based on polymer-bound NIR-emitting platinum(II)-benzoporphyrins. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7589-7598.	5.5	42

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30	Bright, â€Clickableâ€Porphyrins for the Visualization of Oxygenation under Ambient Light. Angewandte Chemie - International Edition, 2015, 54, 14728-14731.	13.8	34
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42	A 3D-Printed Oxygen Control Insert for a 24-Well Plate. PLoS ONE, 2015, 10, e0137631.	2.5	40

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45	Simultaneous color sensing of O ₂ and pH using a smartphone. Sensors and Actuators B: Chemical, 2015, 220, 326-330.	7.8	38
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56	Intrinsic Artefacts in Optical Oxygen Sensorsâ€”How Reliable are our Measurements?. Chemistry - A European Journal, 2015, 21, 3978-3986.	3.3	19
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62	Transition metal induced switch of fluorescence and absorption response of a Zn(porphyrin)-DNA conjugate to cysteine derivatives. <i>RSC Advances</i> , 2015, 5, 15916-15922.	3.6	6
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67	Noninvasive Oxygen Monitoring in Three-Dimensional Tissue Cultures Under Static and Dynamic Culture Conditions. <i>BioResearch Open Access</i> , 2015, 4, 266-277.	2.6	34
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69	A water-sprayable, thermogelating and biocompatible polymer host for use in fluorescent chemical sensing and imaging of oxygen, pH values and temperature. <i>Sensors and Actuators B: Chemical</i> , 2015, 221, 37-44.	7.8	33
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80	Luminescence ratiometric oxygen sensor based on gadolinium labeled porphyrin and filter paper. Sensors and Actuators B: Chemical, 2015, 215, 405-411.	7.8	25
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148	Analysis of a Nitroreductase-Based Hypoxia Sensor in Primary Neuronal Cultures. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1188-1191.	3.5	10
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