

Xu-dong Wang

List of Publications by Year in descending order

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45
papers

5,373
citations

196777

29
h-index

232693

48
g-index

50
all docs

50
docs citations

50
times ranked

8230
citing authors

#	ARTICLE	IF	CITATIONS
1	Active-Targeting Polymeric Dual Nanosensor for Ratiometrically Measuring Proton and Oxygen Concentrations in Mitochondria. <i>Analytical Chemistry</i> , 2021, 93, 8291-8299.	3.2	6
2	Fiber-Optic Chemical Sensors and Biosensors (2015–2019). <i>Analytical Chemistry</i> , 2020, 92, 397-430.	3.2	209
3	Luminescent Oxygen-Sensitive Ink to Produce Highly Secured Anticounterfeiting Labels by Inkjet Printing. <i>Journal of the American Chemical Society</i> , 2020, 142, 13558-13564.	6.6	104
4	Long-Term Quantitatively Imaging Intracellular Chloride Concentration Using a Core-/Shell-Structured Nanosensor and Time-Domain Dual-Lifetime Referencing Method. <i>ACS Sensors</i> , 2020, 5, 3971-3978.	4.0	12
5	Integrating Time-Resolved Imaging Information by Single-Luminophore Dual Thermally Activated Delayed Fluorescence. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17018-17025.	7.2	58
6	Quadruply-labeled serum albumin as a biodegradable nanosensor for simultaneous fluorescence imaging of intracellular pH values, oxygen and temperature. <i>Mikrochimica Acta</i> , 2019, 186, 584.	2.5	12
7	Luminescent Silica Nanosensors for Lifetime Based Imaging of Intracellular Oxygen with Millisecond Time Resolution. <i>Analytical Chemistry</i> , 2019, 91, 15625-15633.	3.2	11
8	Highly Sensitive Dissolved Oxygen Sensor with a Sustainable Antifouling, Antiabrasion, and Self-Cleaning Superhydrophobic Surface. <i>ACS Omega</i> , 2019, 4, 1715-1721.	1.6	21
9	Nanomaterials for Intracellular pH Sensing and Imaging. , 2019, , 241-273.		8
10	Synthesis of highly stable cyanine-dye-doped silica nanoparticle for biological applications. <i>Methods and Applications in Fluorescence</i> , 2018, 6, 034002.	1.1	15
11	A lysosome-targeting nanosensor for simultaneous fluorometric imaging of intracellular pH values and temperature. <i>Mikrochimica Acta</i> , 2018, 185, 533.	2.5	20
12	A background-subtraction strategy leads to ratiometric sensing of oxygen without recalibration. <i>Analyst</i> , 2018, 143, 5120-5126.	1.7	7
13	Fully Reversible Optical Sensor for Hydrogen Peroxide with Fast Response. <i>Analytical Chemistry</i> , 2018, 90, 7544-7551.	3.2	15
14	Fluorescent proteins as efficient tools for evaluating the surface PEGylation of silica nanoparticles. <i>Methods and Applications in Fluorescence</i> , 2017, 5, 024003.	1.1	2
15	Two-Photon Excitation Temperature Nanosensors Based on a Conjugated Fluorescent Polymer Doped with a Europium Probe. <i>Advanced Optical Materials</i> , 2016, 4, 1854-1859.	3.6	33
16	Fiber-Optic Chemical Sensors and Biosensors (2013–2015). <i>Analytical Chemistry</i> , 2016, 88, 203-227.	3.2	350
17	Multifunctional Silica Nanoparticles for Covalent Immobilization of Highly Sensitive Proteins. <i>Advanced Materials</i> , 2015, 27, 7945-7950.	11.1	64
18	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.	4.0	33

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19	A colorimetric assay for measuring iodide using Au@Ag core-shell nanoparticles coupled with Cu ²⁺ . <i>Analytica Chimica Acta</i> , 2015, 891, 269-276.	2.6	46
20	Optical methods for sensing and imaging oxygen: materials, spectroscopies and applications. <i>Chemical Society Reviews</i> , 2014, 43, 3666-3761.	18.7	886
21	A colorimetric agarose gel for formaldehyde measurement based on nanotechnology involving Tollens reaction. <i>Chemical Communications</i> , 2014, 50, 8121-8123.	2.2	65
22	Au@Ag core/shell nanoparticles as colorimetric probes for cyanide sensing. <i>Nanoscale</i> , 2014, 6, 9939-9943.	2.8	83
23	High-Resolution Colorimetric Assay for Rapid Visual Readout of Phosphatase Activity Based on Gold/Silver Core/Shell Nanorod. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18243-18250.	4.0	217
24	Ultra-small, highly stable, and membrane-impermeable fluorescent nanosensors for oxygen. <i>Methods and Applications in Fluorescence</i> , 2013, 1, 035002.	1.1	14
25	Fiber-Optic Chemical Sensors and Biosensors (2008-2012). <i>Analytical Chemistry</i> , 2013, 85, 487-508.	3.2	428
26	Fluorescent pH-Sensitive Nanoparticles in an Agarose Matrix for Imaging of Bacterial Growth and Metabolism. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 406-409.	7.2	124
27	Imaging of cellular oxygen via two-photon excitation of fluorescent sensor nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 257-262.	4.0	27
28	Luminescent probes and sensors for temperature. <i>Chemical Society Reviews</i> , 2013, 42, 7834.	18.7	1,356
29	Ratiometric luminescence 2D <i>in vivo</i> imaging and monitoring of mouse skin oxygenation. <i>Methods and Applications in Fluorescence</i> , 2013, 1, 045002.	1.1	30
30	Study of oxygen effects on electrochemiluminescence using dye-doped oxygen-resisting nanobeads. <i>Analyst</i> , 2012, 137, 2459.	1.7	2
31	Ultra-Small, Highly Stable, and Sensitive Dual Nanosensors for Imaging Intracellular Oxygen and pH in Cytosol. <i>Journal of the American Chemical Society</i> , 2012, 134, 17011-17014.	6.6	208
32	A Fluorophore-Doped Polymer Nanomaterial for Referenced Imaging of pH and Temperature with Sub-Micrometer Resolution. <i>Advanced Functional Materials</i> , 2012, 22, 4202-4207.	7.8	52
33	Self-referenced RGB colour imaging of intracellular oxygen. <i>Chemical Science</i> , 2011, 2, 901.	3.7	97
34	Chameleon clothes for quantitative oxygen imaging. <i>Journal of Materials Chemistry</i> , 2011, 21, 17651.	6.7	14
35	Preparation of Reversible Colorimetric Temperature Nanosensors and Their Application in Quantitative Two-Dimensional Thermo-Imaging. <i>Analytical Chemistry</i> , 2011, 83, 2434-2437.	3.2	40
36	Simultaneous Photographing of Oxygen and pH <i>In Vivo</i> Using Sensor Films. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10893-10896.	7.2	115

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37	Colorimetric optical pH sensor production using a dual-color system. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 278-282.	4.0	41
38	Extended detection range for an optical enzymatic glucose sensor coupling with a novel data-processing method. <i>Science China Chemistry</i> , 2010, 53, 1385-1390.	4.2	3
39	Photographing Oxygen Distribution. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4907-4909.	7.2	81
40	Optical oxygen sensors move towards colorimetric determination. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 319-338.	5.8	101
41	Optical colorimetric sensor strip for direct readout glucose measurement. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3702-3705.	5.3	62
42	Fabrication of a Colorimetric Electrochemiluminescence Sensor. <i>Analytical Chemistry</i> , 2009, 81, 830-833.	3.2	56
43	Reversible Optical Sensor Strip for Oxygen. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7450-7453.	7.2	97
44	An optical biosensor for the rapid determination of glucose in human serum. <i>Sensors and Actuators B: Chemical</i> , 2008, 129, 866-873.	4.0	43
45	An optical biosensing film for biochemical oxygen demand determination in seawater with an automatic flow sampling system. <i>Measurement Science and Technology</i> , 2007, 18, 2878-2884.	1.4	17