Xu-dong Wang

List of Publications by Year
in descending order

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45 papers	5,373 citations	172457 29 h-index	206112 48 g-index
50 all docs	50 docs citations	50 times ranked	7310 citing authors

#	Article	IF	Citations
1	Luminescent probes and sensors for temperature. Chemical Society Reviews, 2013, 42, 7834.	38.1	1,356
2	Optical methods for sensing and imaging oxygen: materials, spectroscopies and applications. Chemical Society Reviews, 2014, 43, 3666-3761.	38.1	886
3	Fiber-Optic Chemical Sensors and Biosensors (2008â€“2012). Analytical Chemistry, 2013, 85, 487-508.	6.5	428
4	Fiber-Optic Chemical Sensors and Biosensors (2013â€“2015). Analytical Chemistry, 2016, 88, 203-227.	6.5	350
5	High-Resolution Colorimetric Assay for Rapid Visual Readout of Phosphatase Activity Based on Gold/Silver Core/Shell Nanorod. ACS Applied Materials & Interfaces, 2014, 6, 18243-18250.	8.0	217
6	Fiber-Optic Chemical Sensors and Biosensors (2015â€“2019). Analytical Chemistry, 2020, 92, 397-430.	6.5	209
7	Ultra-Small, Highly Stable, and Sensitive Dual Nanosensors for Imaging Intracellular Oxygen and pH in Cytosol. Journal of the American Chemical Society, 2012, 134, 17011-17014.	13.7	208
8	Fluorescent pHâ€Sensitive Nanoparticles in an Agarose Matrix for Imaging of Bacterial Growth and Metabolism. Angewandte Chemie - International Edition, 2013, 52, 406-409.	13.8	124
9	Simultaneous Photographing of Oxygen and pH Inâ€…Vivo Using Sensor Films. Angewandte Chemie - International Edition, 2011, 50, 10893-10896.	13.8	115
10	Luminescent Oxygen-Sensitive Ink to Produce Highly Secured Anticounterfeiting Labels by Inkjet Printing. Journal of the American Chemical Society, 2020, 142, 13558-13564.	13.7	104
11	Optical oxygen sensors move towards colorimetric determination. TrAC - Trends in Analytical Chemistry, 2010, 29, 319-338.	11.4	101
12	Reversible Optical Sensor Strip for Oxygen. Angewandte Chemie - International Edition, 2008, 47, 7450-7453.	13.8	97
13	Self-referenced RGB colour imaging of intracellular oxygen. Chemical Science, 2011, 2, 901.	7.4	97
14	Au@Ag core/shell nanoparticles as colorimetric probes for cyanide sensing. Nanoscale, 2014, 6, 9939-9943.	5.6	83
15	Photographing Oxygen Distribution. Angewandte Chemie - International Edition, 2010, 49, 4907-4909.	13.8	81
16	A colorimetric agarose gel for formaldehyde measurement based on nanotechnology involving Tollens reaction. Chemical Communications, 2014, 50, 8121-8123.	4.1	65
17	Multifunctional Silica Nanoparticles for Covalent Immobilization of Highly Sensitive Proteins. Advanced Materials, 2015, 27, 7945-7950.	21.0	64
18	Optical colorimetric sensor strip for direct readout glucose measurement. Biosensors and Bioelectronics, 2009, 24, 3702-3705.	10.1	62

#	Article	IF	Citations
19	Integrating Timeâ€Resolved Imaging Information by Singleâ€Luminophore Dual Thermally Activated Delayed Fluorescence. Angewandte Chemie - International Edition, 2020, 59, 17018-17025.	13.8	58
20	Fabrication of a Colorimetric Electrochemiluminescence Sensor. Analytical Chemistry, 2009, 81, 830-833.	6.5	56
21	A Fluorophoreâ€Doped Polymer Nanomaterial for Referenced Imaging of pH and Temperature with Subâ€Micrometer Resolution. Advanced Functional Materials, 2012, 22, 4202-4207.	14.9	52
22	A colorimetric assay for measuring iodide using Au@Ag coreâ€“shell nanoparticles coupled with Cu2+. Analytica Chimica Acta, 2015, 891, 269-276.	5.4	46
23	An optical biosensor for the rapid determination of glucose in human serum. Sensors and Actuators B: Chemical, 2008, 129, 866-873.	7.8	43
24	Colorimetric optical pH sensor production using a dual-color system. Sensors and Actuators B: Chemical, 2010, 146, 278-282.	7.8	41
25	Preparation of Reversible Colorimetric Temperature Nanosensors and Their Application in Quantitative Two-Dimensional Thermo-Imaging. Analytical Chemistry, 2011, 83, 2434-2437.	6.5	40
26	A water-sprayable, thermogelating and biocompatible polymer host for use in fluorescent chemical sensing and imaging of oxygen, pH values and temperature. Sensors and Actuators B: Chemical, 2015, 221, 37-44.	7.8	33
27	Twoâ€Photon Excitation Temperature Nanosensors Based on a Conjugated Fluorescent Polymer Doped with a Europium Probe. Advanced Optical Materials, 2016, 4, 1854-1859.	7.3	33
28	Ratiometric luminescence 2Din vivoimaging and monitoring of mouse skin oxygenation. Methods and Applications in Fluorescence, 2013, 1, 045002.	2.3	30
29	Imaging of cellular oxygen via two-photon excitation of fluorescent sensor nanoparticles. Sensors and Actuators B: Chemical, 2013, 188, 257-262.	7.8	27
30	Highly Sensitive Dissolved Oxygen Sensor with a Sustainable Antifouling, Antiabrasion, and Self-Cleaning Superhydrophobic Surface. ACS Omega, 2019, 4, 1715-1721.	3.5	21
31	A lysosome-targeting nanosensor for simultaneous fluorometric imaging of intracellular pH values and temperature. Mikrochimica Acta, 2018, 185, 533.	5.0	20
32	An optical biosensing film for biochemical oxygen demand determination in seawater with an automatic flow sampling system. Measurement Science and Technology, 2007, 18, 2878-2884.	2.6	17
33	Synthesis of highly stable cyanine-dye-doped silica nanoparticle for biological applications. Methods and Applications in Fluorescence, 2018, 6, 034002.	2.3	15
34	Fully Reversible Optical Sensor for Hydrogen Peroxide with Fast Response. Analytical Chemistry, 2018, 90, 7544-7551.	6.5	15
35	Chameleon clothes for quantitative oxygen imaging. Journal of Materials Chemistry, 2011, 21, 17651.	6.7	14
36	Ultra-small, highly stable, and membrane-impermeable fluorescent nanosensors for oxygen. Methods and Applications in Fluorescence, 2013, 1, 035002.	2.3	14

#	Article	IF	Citations
37	Quadruply-labeled serum albumin as a biodegradable nanosensor for simultaneous fluorescence imaging of intracellular pH values, oxygen and temperature. Mikrochimica Acta, 2019, 186, 584.	5.0	12
38	Long-Term Quantitatively Imaging Intracellular Chloride Concentration Using a Core-/Shell-Structured Nanosensor and Time-Domain Dual-Lifetime Referencing Method. ACS Sensors, 2020, 5, 3971-3978.	7.8	12
39	Luminescent Silica Nanosensors for Lifetime Based Imaging of Intracellular Oxygen with Millisecond Time Resolution. Analytical Chemistry, 2019, 91, 15625-15633.	6.5	11
40	Nanomaterials for Intracellular pH Sensing and Imaging. , 2019, , 241-273.		8
41	A background-subtraction strategy leads to ratiometric sensing of oxygen without recalibration. Analyst, The, 2018, 143, 5120-5126.	3.5	7
42	Active-Targeting Polymeric Dual Nanosensor for Ratiometrically Measuring Proton and Oxygen Concentrations in Mitochondria. Analytical Chemistry, 2021, 93, 8291-8299.	6.5	6
43	Extended detection range for an optical enzymatic glucose sensor coupling with a novel data-processing method. Science China Chemistry, 2010, 53, 1385-1390.	8.2	3
44	Study of oxygen effects on electrochemiluminescence using dye-doped oxygen-resisting nanobeads. Analyst, The, 2012, 137, 2459.	3.5	2
45	Fluorescent proteins as efficient tools for evaluating the surface PEGylation of silica nanoparticles. Methods and Applications in Fluorescence, 2017, 5, 024003.	2.3	2