

Alfonso Blázquez-Castro

List of Publications by Year in descending order

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43
papers

2,077
citations

304743

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3571
citing authors

#	ARTICLE	IF	CITATIONS
1	Melanin-Binding Colorants: Updating Molecular Modeling, Staining and Labeling Mechanisms, and Biomedical Perspectives. <i>Colorants</i> , 2022, 1, 91-120.	1.5	2
2	Editorial: The Role of Reactive Oxygen Species in Chemical and Biochemical Processes. <i>Frontiers in Chemistry</i> , 2021, 9, 642523.	3.6	6
3	Light-initiated oxidative stress. , 2020, , 363-388.		6
4	Fluorescent redox-dependent labeling of lipid droplets in cultured cells by reduced phenazine methosulfate. <i>Heliyon</i> , 2020, 6, e04182.	3.2	6
5	Genetic Material Manipulation and Modification by Optical Trapping and Nanosurgery-A Perspective. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 580937.	4.1	9
6	Plasmonic Hot-Electron Reactive Oxygen Species Generation: Fundamentals for Redox Biology. <i>Frontiers in Chemistry</i> , 2020, 8, 591325.	3.6	22
7	Optoelectronic generation of bio-aqueous femto-droplets based on the bulk photovoltaic effect. <i>Optics Letters</i> , 2020, 45, 1164.	3.3	19
8	Optoelectronic generation of bio-aqueous femto-droplets based on the bulk photovoltaic effect. <i>Optics Letters</i> , 2020, 45, 1164.	3.3	0
9	Optical Tweezers: Phototoxicity and Thermal Stress in Cells and Biomolecules. <i>Micromachines</i> , 2019, 10, 507.	2.9	74
10	Photothermal effect by 808-nm laser irradiation of melanin: a proof-of-concept study of photothermal therapy using B16-F10 melanotic melanoma growing in BALB/c mice. <i>Biomedical Optics Express</i> , 2019, 10, 2932.	2.9	15
11	Fluorescent in vivo imaging of reactive oxygen species and redox potential in plants. <i>Free Radical Biology and Medicine</i> , 2018, 122, 202-220.	2.9	39
12	NIR laser pointer for in vivo photothermal therapy of murine LM3 tumor using intratumoral China ink as a photothermal agent. <i>Lasers in Medical Science</i> , 2018, 33, 1307-1315.	2.1	7
13	Tetrazolium salts and formazan products in Cell Biology: Viability assessment, fluorescence imaging, and labeling perspectives. <i>Acta Histochemica</i> , 2018, 120, 159-167.	1.8	391
14	Biological applications of ferroelectric materials. <i>Applied Physics Reviews</i> , 2018, 5, .	11.3	55
15	Recent Achievements on Photovoltaic Optoelectronic Tweezers Based on Lithium Niobate. <i>Crystals</i> , 2018, 8, 65.	2.2	42
16	Cell cycle modulation through subcellular spatially resolved production of singlet oxygen via direct 765 nm irradiation: manipulating the onset of mitosis. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1310-1318.	2.9	12
17	Direct $^{1}O_2$ optical excitation: A tool for redox biology. <i>Redox Biology</i> , 2017, 13, 39-59.	9.0	64
18	Exerting better control and specificity with singlet oxygen experiments in live mammalian cells. <i>Methods</i> , 2016, 109, 81-91.	3.8	26

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19	Switching on a transient endogenous ROS production in mammalian cells and tissues. <i>Methods</i> , 2016, 109, 180-189.	3.8	23
20	Establishing the subcellular localization of photodynamically-induced ROS using 3,3'-diaminobenzidine: A methodological proposal, with a proof-of-concept demonstration. <i>Methods</i> , 2016, 109, 175-179.	3.8	6
21	Control of singlet oxygen production in experiments performed on single mammalian cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 321, 297-308.	3.9	37
22	Reliable Screening of Dye Phototoxicity by Using a <i>Caenorhabditis elegans</i> Fast Bioassay. <i>PLoS ONE</i> , 2015, 10, e0128898.	2.5	16
23	In vitro human cell responses to a low-dose photodynamic treatment vs. mild H ₂ O ₂ exposure. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 143, 12-19.	3.8	6
24	Photoactivation of ROS Production In Situ Transiently Activates Cell Proliferation in Mouse Skin and in the Hair Follicle Stem Cell Niche Promoting Hair Growth and Wound Healing. <i>Journal of Investigative Dermatology</i> , 2015, 135, 2611-2622.	0.7	66
25	Direct 765 nm Optical Excitation of Molecular Oxygen in Solution and in Single Mammalian Cells. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5422-5429.	2.6	65
26	Identifying Different Types of Chromatin Using Giemsa Staining. <i>Methods in Molecular Biology</i> , 2014, 1094, 25-38.	0.9	9
27	Singlet oxygen and ROS in a new light: low-dose subcellular photodynamic treatment enhances proliferation at the single cell level. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 1235-1240.	2.9	42
28	MTT assay for cell viability: Intracellular localization of the formazan product is in lipid droplets. <i>Acta Histochemica</i> , 2012, 114, 785-796.	1.8	463
29	Replacing xylene with <i>n</i> -heptane for paraffin embedding. <i>Biotechnic and Histochemistry</i> , 2012, 87, 464-467.	1.3	11
30	A simplified chromatin dispersion (nuclear halo) assay for detecting DNA breakage induced by ionizing radiation and chemical agents. <i>Biotechnic and Histochemistry</i> , 2012, 87, 208-217.	1.3	10
31	Protoporphyrin IX-dependent photodynamic production of endogenous ROS stimulates cell proliferation. <i>European Journal of Cell Biology</i> , 2012, 91, 216-223.	3.6	52
32	Tumour cell death induced by the bulk photovoltaic effect of LiNbO ₃ :Fe under visible light irradiation. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 956-963.	2.9	26
33	Photovoltaic versus optical tweezers. <i>Optics Express</i> , 2011, 19, 24320.	3.4	55
34	Induction of metachromasia in cationic dyes and fluorochromes using a clay mineral: A potentially valuable model for histochemical studies. <i>Acta Histochemica</i> , 2011, 113, 668-670.	1.8	5
35	New porphyrin amino acid conjugates: Synthesis and photodynamic effect in human epithelial cells. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 6170-6178.	3.0	43
36	Intracellular imaging of HeLa cells by non-functionalized NaYF ₄ :Er ³⁺ , Yb ³⁺ upconverting nanoparticles. <i>Nanoscale</i> , 2010, 2, 495-498.	5.6	179

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37	Selective labeling of lipid droplets in aldehyde fixed cell monolayers by lipophilic fluorochromes. <i>Biotechnic and Histochemistry</i> , 2010, 85, 277-283.	1.3	15
38	Binding of cationic dyes to DNA: distinguishing intercalation and groove binding mechanisms using simple experimental and numerical models. <i>Biotechnic and Histochemistry</i> , 2010, 85, 247-256.	1.3	22
39	Oncogenic Hâ€Ras and PI3K signaling can inhibit Eâ€cadherinâ€dependent apoptosis and promote cell survival after photodynamic therapy in mouse keratinocytes. <i>Journal of Cellular Physiology</i> , 2009, 219, 84-93.	4.1	34
40	Preclinical photodynamic therapy research in Spain 4: Cytoskeleton and adhesion complexes of cultured tumor cells as targets of photosensitizers. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009, 13, 552-559.	0.8	2
41	Differential photodynamic response of cultured cells to methylene blue and toluidine blue: role of dark redox processes. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 371-376.	2.9	38
42	A mechanism for the fluorogenic reaction of amino groups with fluorescamine and MDPF. <i>Acta Histochemica</i> , 2008, 110, 333-340.	1.8	17
43	Disorganisation of cytoskeleton in cells resistant to photodynamic treatment with decreased metastatic phenotype. <i>Cancer Letters</i> , 2008, 270, 56-65.	7.2	37