Alfonso BlÃ¡zquez-Castro

List of Publications by Year
in descending order

43 papers	2,077 citations	304743 22 h-index	265206 42 g-index
44 all docs	44 docs citations	44 times ranked	3571 citing authors

#	Article	IF	Citations
1	MTT assay for cell viability: Intracellular localization of the formazan product is in lipid droplets. Acta Histochemica, 2012, 114, 785-796.	1.8	463
2	Tetrazolium salts and formazan products in Cell Biology: Viability assessment, fluorescence imaging, and labeling perspectives. Acta Histochemica, 2018, 120, 159-167.	1.8	391
3	Intracellular imaging of HeLa cells by non-functionalized NaYF4â€‰:â€‰Er³⁺, Yb³⁺upconverting nanoparticles. Nanoscale, 2010, 2, 495-498.	5.6	179
4	Optical Tweezers: Phototoxicity and Thermal Stress in Cells and Biomolecules. Micromachines, 2019, 10, 507.	2.9	74
5	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. Journal of Investigative Dermatology, 2015, 135, 2611-2622.	0.7	66
6	Direct 765 nm Optical Excitation of Molecular Oxygen in Solution and in Single Mammalian Cells. Journal of Physical Chemistry B, 2015, 119, 5422-5429.	2.6	65
7	Direct 1O2 optical excitation: A tool for redox biology. Redox Biology, 2017, 13, 39-59.	9.0	64
8	Photovoltaic versus optical tweezers. Optics Express, 2011, 19, 24320.	3.4	55
9	Biological applications of ferroelectric materials. Applied Physics Reviews, 2018, 5, .	11.3	55
10	Protoporphyrin IX-dependent photodynamic production of endogenous ROS stimulates cell proliferation. European Journal of Cell Biology, 2012, 91, 216-223.	3.6	52
11	New porphyrin amino acid conjugates: Synthesis and photodynamic effect in human epithelial cells. Bioorganic and Medicinal Chemistry, 2010, 18, 6170-6178.	3.0	43
12	Singlet oxygen and ROS in a new light: low-dose subcellular photodynamic treatment enhances proliferation at the single cell level. Photochemical and Photobiological Sciences, 2014, 13, 1235-1240.	2.9	42
13	Recent Achievements on Photovoltaic Optoelectronic Tweezers Based on Lithium Niobate. Crystals, 2018, 8, 65.	2.2	42
14	Fluorescent in vivo imaging of reactive oxygen species and redox potential in plants. Free Radical Biology and Medicine, 2018, 122, 202-220.	2.9	39
15	Differential photodynamic response of cultured cells to methylene blue and toluidine blue: role of dark redox processes. Photochemical and Photobiological Sciences, 2009, 8, 371-376.	2.9	38
16	Disorganisation of cytoskeleton in cells resistant to photodynamic treatment with decreased metastatic phenotype. Cancer Letters, 2008, 270, 56-65.	7.2	37
17	Control of singlet oxygen production in experiments performed on single mammalian cells. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 321, 297-308.	3.9	37
18	Oncogenic Hâ€Ras and PI3K signaling can inhibit Eâ€cadherinâ€dependent apoptosis and promote cell survival after photodynamic therapy in mouse keratinocytes. Journal of Cellular Physiology, 2009, 219, 84-93.	4.1	34

#	Article	IF	Citations
19	Tumour cell death induced by the bulk photovoltaic effect of LiNbO3:Fe under visible light irradiation. Photochemical and Photobiological Sciences, 2011, 10, 956-963.	2.9	26
20	Exerting better control and specificity with singlet oxygen experiments in live mammalian cells. Methods, 2016, 109, 81-91.	3.8	26
21	Switching on a transient endogenous ROS production in mammalian cells and tissues. Methods, 2016, 109, 180-189.	3.8	23
22	Binding of cationic dyes to DNA: distinguishing intercalation and groove binding mechanisms using simple experimental and numerical models. Biotechnic and Histochemistry, 2010, 85, 247-256.	1.3	22
23	Plasmonic Hot-Electron Reactive Oxygen Species Generation: Fundamentals for Redox Biology. Frontiers in Chemistry, 2020, 8, 591325.	3.6	22
24	Optoelectronic generation of bio-aqueous femto-droplets based on the bulk photovoltaic effect. Optics Letters, 2020, 45, 1164.	3.3	19
25	A mechanism for the fluorogenic reaction of amino groups with fluorescamine and MDPF. Acta Histochemica, 2008, 110, 333-340.	1.8	17
26	Reliable Screening of Dye Phototoxicity by Using a Caenorhabditis elegans Fast Bioassay. PLoS ONE, 2015, 10, e0128898.	2.5	16
27	Selective labeling of lipid droplets in aldehyde fixed cell monolayers by lipophilic fluorochromes. Biotechnic and Histochemistry, 2010, 85, 277-283.	1.3	15
28	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. Biomedical Optics Express, 2019, 10, 2932.	2.9	15
29	Cell cycle modulation through subcellular spatially resolved production of singlet oxygen via direct 765 nm irradiation: manipulating the onset of mitosis. Photochemical and Photobiological Sciences, 2018, 17, 1310-1318.	2.9	12
30	Replacing xylene withn-heptane for paraffin embedding. Biotechnic and Histochemistry, 2012, 87, 464-467.	1.3	11
31	A simplified chromatin dispersion (nuclear halo) assay for detecting DNA breakage induced by ionizing radiation and chemical agents. Biotechnic and Histochemistry, 2012, 87, 208-217.	1.3	10
32	Identifying Different Types of Chromatin Using Giemsa Staining. Methods in Molecular Biology, 2014, 1094, 25-38.	0.9	9
33	Genetic Material Manipulation and Modification by Optical Trapping and Nanosurgery-A Perspective. Frontiers in Bioengineering and Biotechnology, 2020, 8, 580937.	4.1	9
34	NIR laser pointer for in vivo photothermal therapy of murine LM3 tumor using intratumoral China ink as a photothermal agent. Lasers in Medical Science, 2018, 33, 1307-1315.	2.1	7
35	In vitro human cell responses to a low-dose photodynamic treatment vs. mild H2O2 exposure. Journal of Photochemistry and Photobiology B: Biology, 2015, 143, 12-19.	3.8	6
36	Establishing the subcellular localization of photodynamically-induced ROS using 3,3â€²-diaminobenzidine: A methodological proposal, with a proof-of-concept demonstration. Methods, 2016, 109, 175-179.	3.8	6

#	Article	IF	Citations
37	Light-initiated oxidative stress. , 2020, , 363-388.		6
38	Fluorescent redox-dependent labeling of lipid droplets in cultured cells by reduced phenazine methosulfate. Heliyon, 2020, 6, e04182.	3.2	6
39	Editorial: The Role of Reactive Oxygen Species in Chemical and Biochemical Processes. Frontiers in Chemistry, 2021, 9, 642523.	3.6	6
40	Induction of metachromasia in cationic dyes and fluorochromes using a clay mineral: A potentially valuable model for histochemical studies. Acta Histochemica, 2011, 113, 668-670.	1.8	5
41	Preclinical photodynamic therapy research in Spain 4: Cytoskeleton and adhesion complexes of cultured tumor cells as targets of photosensitizers. Journal of Porphyrins and Phthalocyanines, 2009, 13, 552-559.	0.8	2
42	Melanin-Binding Colorants: Updating Molecular Modeling, Staining and Labeling Mechanisms, and Biomedical Perspectives. Colorants, 2022, 1, 91-120.	1.5	2
43	Optoelectronic generation of bio-aqueous femto-droplets based on the bulk photovoltaic effect. Optics Letters, 2020, 45, 1164.	3.3	0