Monica Marro

List of Publications by Year
in descending order

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32	1,051	567281 15	454955 30
papers	citations	h-index	g-index

35	35	35	2171
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The nucleus measures shape changes for cellular proprioception to control dynamic cell behavior. Science, 2020, 370, .	12.6	232
2	Identification of Individual Exosome-Like Vesicles by Surface Enhanced Raman Spectroscopy. Small, 2016, 12, 3292-3301.	10.0	145
3	The Lipid Phenotype of Breast Cancer Cells Characterized by Raman Microspectroscopy: Towards a Stratification of Malignancy. PLoS ONE, 2012, 7, e46456.	2.5	108
4	Peroxiredoxin 2 specifically regulates the oxidative and metabolic stress response of human metastatic breast cancer cells in lungs. Oncogene, 2013, 32, 724-735.	5.9	100
5	Interference with Clp protease impairs carotenoid accumulation during tomato fruit ripening. Journal of Experimental Botany, 2018, 69, 1557-1568.	4.8	58
6	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. Analytical Chemistry, 2020, 92, 15745-15756.	6.5	46
7	Transcriptome analysis in tissue sectors with contrasting crocins accumulation provides novel insights into apocarotenoid biosynthesis and regulation during chromoplast biogenesis. Scientific Reports, 2018, 8, 2843.	3.3	41
8	Molecular monitoring of epithelial-to-mesenchymal transition in breast cancer cells by means of Raman spectroscopy. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 1785-1795.	4.1	36
9	Relevant aspects of unmixing/resolution analysis for the interpretation of biological vibrational hyperspectral images. TrAC - Trends in Analytical Chemistry, 2017, 94, 130-140.	11.4	32
10	Monitoring of local pH in photodynamic therapyâ€treated live cancer cells using surfaceâ€enhanced Raman scattering probes. Journal of Raman Spectroscopy, 2011, 42, 1215-1221.	2.5	30
11	Mechanochemistry of single red blood cells monitored using Raman tweezers. Biomedical Optics Express, 2012, 3, 753.	2.9	30
12	Unravelling the Metabolic Progression of Breast Cancer Cells to Bone Metastasis by Coupling Raman Spectroscopy and a Novel Use of Mcr-Als Algorithm. Analytical Chemistry, 2018, 90, 5594-5602.	6.5	27
13	Dynamic molecular monitoring of retina inflammation by in vivo Raman spectroscopy coupled with multivariate analysis. Journal of Biophotonics, 2014, 7, 724-734.	2.3	25
14	Rapid spontaneous Raman light sheet microscopy using cw-lasers and tunable filters. Biomedical Optics Express, 2015, 6, 3449.	2.9	25
15	Diffusion and cellular uptake of drugs in live cells studied with surface-enhanced Raman scattering probes. Journal of Biomedical Optics, 2010, 15, 027005.	2.6	16
16	Direct Observation of Single DNA Structural Alterations at Low Forces with Surface-Enhanced Raman Scattering. Biophysical Journal, 2013, 104, 156-162.	0.5	15
17	Raman spectroscopy quantification of eumelanin subunits in natural unaltered pigments. Pigment Cell and Melanoma Research, 2018, 31, 673-682.	3.3	13
18	GRP94 Is Involved in the Lipid Phenotype of Brain Metastatic Cells. International Journal of Molecular Sciences, 2019, 20, 3883.	4.1	11

#	Article	IF	Citations
19	3D and 4D Image Fusion: Coping with Differences in Spectroscopic Modes among Hyperspectral Images. Analytical Chemistry, 2020, 92, 9591-9602.	6.5	11
20	Assessment of tissue-specific multifactor effects in environmental â€“omics studies of heterogeneous biological samples: Combining hyperspectral image information and chemometrics. Talanta, 2019, 194, 390-398.	5.5	10
21	Combining hyperspectral imaging and chemometrics to assess and interpret the effects of environmental stressors on zebrafish eye images at tissue level. Journal of Biophotonics, 2018, 11, e201700089.	2.3	8
22	Unravelling the Encapsulation of DNA and Other Biomolecules in HAp Microcalcifications of Human Breast Cancer Tissues by Raman Imaging. Cancers, 2021, 13, 2658.	3.7	7
23	Novel Non-Invasive Quantification and Imaging of Eumelanin and DHICA Subunit in Skin Lesions by Raman Spectroscopy and MCR Algorithm: Improving Dysplastic Nevi Diagnosis. Cancers, 2022, 14, 1056.	3.7	7
24	Fructose derived oligosaccharides prevent lipid membrane destabilization and DNA conformational alterations during vacuum-drying of Lactobacillus delbrueckii subsp. bulgaricus. Food Research International, 2021, 143, 110235.	6.2	5
25	Detection of neuroinflammation through the retina by means of Raman spectroscopy and multivariate analysis. Proceedings of SPIE, 2012, , .	0.8	4
26	Linear unmixing protocol for hyperspectral image fusion analysis applied to a case study of vegetal tissues. Scientific Reports, 2021, 11, 18665.	3.3	4
27	Raman microspectroscopy is a tool to identify the metastatic ability of breast tumors. , 2011, , .		1
28	Force and Raman spectroscopy of single red blood cell. Proceedings of SPIE, 2012, , .	0.8	1
29	Load bearing studies of single DNA molecules and red blood cells using optical tweezers and Raman spectroscopy. Proceedings of SPIE, 2012, , .	0.8	1
30	Using 2D correlation and multivariate analysis combined with plasmonic effects to expand the use of Raman microspectroscopy in biomedical applications. Proceedings of SPIE, 2011, , .	0.8	0
31	Extending the applicability of Raman microspectroscopy in biomedicine using statistical analysis and plasmonic effects. , 2011, , .		0
32	Use of Raman microspectroscopy to score the malignancy of breast cancer cells. Proceedings of SPIE, 2012, , .	0.8	0