

Monica Marro

List of Publications by Year in descending order

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32
papers

1,051
citations

567281

15
h-index

454955

30
g-index

35
all docs

35
docs citations

35
times ranked

2171
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Non-Invasive Quantification and Imaging of Eumelanin and DHICA Subunit in Skin Lesions by Raman Spectroscopy and MCR Algorithm: Improving Dysplastic Nevi Diagnosis. <i>Cancers</i> , 2022, 14, 1056.	3.7	7
2	Fructose derived oligosaccharides prevent lipid membrane destabilization and DNA conformational alterations during vacuum-drying of <i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i> . <i>Food Research International</i> , 2021, 143, 110235.	6.2	5
3	Unravelling the Encapsulation of DNA and Other Biomolecules in HAp Microcalcifications of Human Breast Cancer Tissues by Raman Imaging. <i>Cancers</i> , 2021, 13, 2658.	3.7	7
4	Linear unmixing protocol for hyperspectral image fusion analysis applied to a case study of vegetal tissues. <i>Scientific Reports</i> , 2021, 11, 18665.	3.3	4
5	The nucleus measures shape changes for cellular proprioception to control dynamic cell behavior. <i>Science</i> , 2020, 370, .	12.6	232
6	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 15745-15756.	6.5	46
7	3D and 4D Image Fusion: Coping with Differences in Spectroscopic Modes among Hyperspectral Images. <i>Analytical Chemistry</i> , 2020, 92, 9591-9602.	6.5	11
8	GRP94 Is Involved in the Lipid Phenotype of Brain Metastatic Cells. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3883.	4.1	11
9	Assessment of tissue-specific multifactor effects in environmental "omics studies of heterogeneous biological samples: Combining hyperspectral image information and chemometrics. <i>Talanta</i> , 2019, 194, 390-398.	5.5	10
10	Transcriptome analysis in tissue sectors with contrasting crocins accumulation provides novel insights into apocarotenoid biosynthesis and regulation during chromoplast biogenesis. <i>Scientific Reports</i> , 2018, 8, 2843.	3.3	41
11	Interference with Clp protease impairs carotenoid accumulation during tomato fruit ripening. <i>Journal of Experimental Botany</i> , 2018, 69, 1557-1568.	4.8	58
12	Unravelling the Metabolic Progression of Breast Cancer Cells to Bone Metastasis by Coupling Raman Spectroscopy and a Novel Use of Mcr-Als Algorithm. <i>Analytical Chemistry</i> , 2018, 90, 5594-5602.	6.5	27
13	Combining hyperspectral imaging and chemometrics to assess and interpret the effects of environmental stressors on zebrafish eye images at tissue level. <i>Journal of Biophotonics</i> , 2018, 11, e201700089.	2.3	8
14	Raman spectroscopy quantification of eumelanin subunits in natural unaltered pigments. <i>Pigment Cell and Melanoma Research</i> , 2018, 31, 673-682.	3.3	13
15	Relevant aspects of unmixing/resolution analysis for the interpretation of biological vibrational hyperspectral images. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 94, 130-140.	11.4	32
16	Identification of Individual Exosome-Like Vesicles by Surface Enhanced Raman Spectroscopy. <i>Small</i> , 2016, 12, 3292-3301.	10.0	145
17	Rapid spontaneous Raman light sheet microscopy using cw-lasers and tunable filters. <i>Biomedical Optics Express</i> , 2015, 6, 3449.	2.9	25
18	Dynamic molecular monitoring of retina inflammation by <i>in vivo</i> Raman spectroscopy coupled with multivariate analysis. <i>Journal of Biophotonics</i> , 2014, 7, 724-734.	2.3	25

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19	Molecular monitoring of epithelial-to-mesenchymal transition in breast cancer cells by means of Raman spectroscopy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 1785-1795.	4.1	36
20	Direct Observation of Single DNA Structural Alterations at Low Forces with Surface-Enhanced Raman Scattering. <i>Biophysical Journal</i> , 2013, 104, 156-162.	0.5	15
21	Peroxiredoxin 2 specifically regulates the oxidative and metabolic stress response of human metastatic breast cancer cells in lungs. <i>Oncogene</i> , 2013, 32, 724-735.	5.9	100
22	Mechanochemistry of single red blood cells monitored using Raman tweezers. <i>Biomedical Optics Express</i> , 2012, 3, 753.	2.9	30
23	Use of Raman microspectroscopy to score the malignancy of breast cancer cells. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
24	Force and Raman spectroscopy of single red blood cell. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
25	Detection of neuroinflammation through the retina by means of Raman spectroscopy and multivariate analysis. <i>Proceedings of SPIE</i> , 2012, , .	0.8	4
26	Load bearing studies of single DNA molecules and red blood cells using optical tweezers and Raman spectroscopy. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
27	The Lipid Phenotype of Breast Cancer Cells Characterized by Raman Microspectroscopy: Towards a Stratification of Malignancy. <i>PLoS ONE</i> , 2012, 7, e46456.	2.5	108
28	Raman microspectroscopy is a tool to identify the metastatic ability of breast tumors. , 2011, , .		1
29	Monitoring of local pH in photodynamic therapy-treated live cancer cells using surface-enhanced Raman scattering probes. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1215-1221.	2.5	30
30	Using 2D correlation and multivariate analysis combined with plasmonic effects to expand the use of Raman microspectroscopy in biomedical applications. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
31	Extending the applicability of Raman microspectroscopy in biomedicine using statistical analysis and plasmonic effects. , 2011, , .		0
32	Diffusion and cellular uptake of drugs in live cells studied with surface-enhanced Raman scattering probes. <i>Journal of Biomedical Optics</i> , 2010, 15, 027005.	2.6	16