

Maciej Roman

List of Publications by Year in descending order

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32
papers

542
citations

687220

13
h-index

677027

22
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33
all docs

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33
times ranked

884
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Raman Analysis of Plants: Alkaloids, Carotenoids, and Polyacetylenes. <i>Current Analytical Chemistry</i> , 2013, 9, 108-127.	0.6	77
2	Toxicity of silver nanoparticles towards tumoral human cell lines U-937 and HL-60. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 156, 397-404.	2.5	45
3	Spectroscopic Studies on Bioactive Polyacetylenes and Other Plant Components in Wild Carrot Root. <i>Journal of Natural Products</i> , 2011, 74, 1757-1763.	1.5	36
4	In situ detection of a single carotenoid crystal in a plant cell using Raman microspectroscopy. <i>Vibrational Spectroscopy</i> , 2011, 56, 166-169.	1.2	35
5	Nondestructive Raman Analysis of Polyacetylenes in Apiaceae Vegetables. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 7647-7653.	2.4	32
6	Lipid droplets in prostate cancer cells and effect of irradiation studied by Raman microspectroscopy. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158753.	1.2	31
7	Physicochemical properties and cytotoxicity of cysteine-functionalized silver nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 429-437.	2.5	28
8	Formation of positively charged gold nanoparticle monolayers on silica sensors. <i>Journal of Colloid and Interface Science</i> , 2017, 501, 192-201.	5.0	27
9	Sporicidal activity of ceragenin CSA-13 against <i>Bacillus subtilis</i> . <i>Scientific Reports</i> , 2017, 7, 44452.	1.6	27
10	Theoretical Modeling of Molecular Spectra Parameters of Disubstituted Diacetylenes. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 283-295.	2.5	22
11	Raman spectral signatures of urinary extracellular vesicles from diabetic patients and hyperglycemic endothelial cells as potential biomarkers in diabetes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 17, 137-149.	1.7	21
12	Composition and (in)homogeneity of carotenoid crystals in carrot cells revealed by high resolution Raman imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1395-1400.	2.0	19
13	Exploring subcellular responses of prostate cancer cells to X-ray exposure by Raman mapping. <i>Scientific Reports</i> , 2019, 9, 8715.	1.6	19
14	Raman spectroscopy of urinary extracellular vesicles to stratify patients with chronic kidney disease in type 2 diabetes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 39, 102468.	1.7	18
15	Structural changes of β -carotene and some retinoid pharmaceuticals induced by environmental factors. <i>Journal of Molecular Structure</i> , 2013, 1037, 99-108.	1.8	9
16	Comparison between high definition FTIR, Raman and AFMIR for subcellular chemical imaging of cholesteryl esters in prostate cancer cells. <i>Journal of Biophotonics</i> , 2020, 13, e201960094.	1.1	9
17	Recent Advances in Raman Analysis of Plants: Alkaloids, Carotenoids, and Polyacetylenes. <i>Current Analytical Chemistry</i> , 2012, 9, 108-127.	0.6	8
18	Vibrational and theoretical study of selected diacetylenes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 115, 493-503.	2.0	8

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19	Vibrational analysis of cinchona alkaloids in the solid state and aqueous solutions. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 1041-1052.	1.2	8
20	Nanoscale AFM-IR spectroscopic imaging of lipid heterogeneity and effect of irradiation in prostate cancer cells. <i>Nanotechnology</i> , 2019, 30, 425502.	1.3	8
21	In search of the correlation between nanomechanical and biomolecular properties of prostate cancer cells with different metastatic potential. <i>Archives of Biochemistry and Biophysics</i> , 2021, 697, 108718.	1.4	8
22	Exploring subcellular responses of prostate cancer cells to clinical doses of X-rays by Raman microspectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 255, 119653.	2.0	7
23	Tracking of the biochemical changes upon pleomorphic adenoma progression using vibrational microspectroscopy. <i>Scientific Reports</i> , 2021, 11, 18010.	1.6	7
24	Vibrational and theoretical study of diacetylenic acids. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 652-660.	2.0	5
25	Preparation of iron oxide nanoparticles doped by chromium for application in water-gas shift reaction. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 523, 71-80.	2.3	5
26	Physicochemical damage and early-stage biological response to X-ray radiation studied in prostate cancer cells by Raman spectroscopy. <i>Journal of Biophotonics</i> , 2020, 13, e202000252.	1.1	5
27	The Impact of Preprocessing Methods for a Successful Prostate Cell Lines Discrimination Using Partial Least Squares Regression and Discriminant Analysis Based on Fourier Transform Infrared Imaging. <i>Cells</i> , 2021, 10, 953.	1.8	5
28	General Overview on Vibrational Spectroscopy Applied in Biology and Medicine. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2014, , 3-14.	0.6	5
29	Relationship between structure and entropy contributions in an anthraquinone mercapto derivative. <i>Journal of Molecular Modeling</i> , 2010, 16, 1549-1557.	0.8	4
30	Natural monoacetylenes studied by quantum-chemical chemistry. <i>Spectroscopy</i> , 2010, 24, 417-420.	0.8	3
31	Raman optical activity of cinchona alkaloids. <i>Biomedical Spectroscopy and Imaging</i> , 2013, 2, 359-365.	1.2	1
32	Investigation of Sediments Causing Damage to Water Meters in a Large Drinking Water Distribution System. <i>Acta Physica Polonica A</i> , 2018, 133, 296-301.	0.2	0