

Maciej Roman

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

542
citations

777949

13
h-index

759306

22
g-index

33
all docs

33
docs citations

33
times ranked

953
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Tracking of the biochemical changes upon pleomorphic adenoma progression using vibrational microspectroscopy. <i>Scientific Reports</i> , 2021, 11, 18010. | 1.6 | 7 |
| 6 | 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 |
| 7 | 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 |
| 8 | Comparison between high definition FTIR, Raman and AFM-IR for subcellular chemical imaging of cholesteryl esters in prostate cancer cells. <i>Journal of Biophotonics</i> , 2020, 13, e201960094. | 1.1 | 9 |
| 9 | 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 |
| 10 | 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 |
| 11 | Exploring subcellular responses of prostate cancer cells to X-ray exposure by Raman mapping. <i>Scientific Reports</i> , 2019, 9, 8715. | 1.6 | 19 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | Sporicidal activity of ceragenin CSA-13 against <i>Bacillus subtilis</i> . <i>Scientific Reports</i> , 2017, 7, 44452. | 1.6 | 27 |
| 16 | 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 |
| 17 | Physicochemical properties and cytotoxicity of cysteine-functionalized silver nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 160, 429-437. | 2.5 | 28 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | Vibrational and theoretical study of diacetylenic acids. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 652-660. | 2.0 | 5 |
| 21 | General Overview on Vibrational Spectroscopy Applied in Biology and Medicine. Challenges and Advances in Computational Chemistry and Physics, 2014, , 3-14. | 0.6 | 5 |
| 22 | Vibrational and theoretical study of selected diacetylenes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 115, 493-503. | 2.0 | 8 |
| 23 | Structural changes of \hat{I}^2 -carotene and some retinoid pharmaceuticals induced by environmental factors. <i>Journal of Molecular Structure</i> , 2013, 1037, 99-108. | 1.8 | 9 |
| 24 | Recent Advances in Raman Analysis of Plants: Alkaloids, Carotenoids, and Polyacetylenes. <i>Current Analytical Chemistry</i> , 2013, 9, 108-127. | 0.6 | 77 |
| 25 | Raman optical activity of cinchona alkaloids. <i>Biomedical Spectroscopy and Imaging</i> , 2013, 2, 359-365. | 1.2 | 1 |
| 26 | Recent Advances in Raman Analysis of Plants: Alkaloids, Carotenoids, and Polyacetylenes. <i>Current Analytical Chemistry</i> , 2012, 9, 108-127. | 0.6 | 8 |
| 27 | Theoretical Modeling of Molecular Spectra Parameters of Disubstituted Diacetylenes. <i>Journal of Chemical Information and Modeling</i> , 2011, 51, 283-295. | 2.5 | 22 |
| 28 | Nondestructive Raman Analysis of Polyacetylenes in Apiaceae Vegetables. <i>Journal of Agricultural and Food Chemistry</i> , 2011, 59, 7647-7653. | 2.4 | 32 |
| 29 | 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 |
| 30 | 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 |
| 31 | Relationship between structure and entropy contributions in an anthraquinone mercapto derivative. <i>Journal of Molecular Modeling</i> , 2010, 16, 1549-1557. | 0.8 | 4 |
| 32 | Natural monoacetylenes studied by quantum-chemical chemistry. <i>Spectroscopy</i> , 2010, 24, 417-420. | 0.8 | 3 |