

Krzysztof Czamara

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,762
citations

758635

12
h-index

525886

27
g-index

30
all docs

30
docs citations

30
times ranked

2805
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman spectroscopy of lipids: a review. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 4-20.	1.2	703
2	Raman and infrared spectroscopy of carbohydrates: A review. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 185, 317-335.	2.0	654
3	Unsaturated lipid bodies as a hallmark of inflammation studied by Raman 2D and 3D microscopy. <i>Scientific Reports</i> , 2017, 7, 40889.	1.6	75
4	Raman spectroscopy as a sensitive probe of soft tissue composition – Imaging of cross-sections of various organs vs. single spectra of tissue homogenates. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 85, 117-127.	5.8	38
5	Raman microscopy at the subcellular level: a study on early apoptosis in endothelial cells induced by Fas ligand and cycloheximide. <i>Analyst, The</i> , 2016, 141, 1390-1397.	1.7	25
6	In Vivo Magnetic Resonance Imaging-Based Detection of Heterogeneous Endothelial Response in Thoracic and Abdominal Aorta to Short-Term High-Fat Diet Ascribed to Differences in Perivascular Adipose Tissue in Mice. <i>Journal of the American Heart Association</i> , 2020, 9, e016929.	1.6	24
7	Rapid diagnostics of liver steatosis by Raman spectroscopy via fiber optic probe: a pilot study. <i>Analyst, The</i> , 2018, 143, 4723-4731.	1.7	22
8	Calcification of aortic human valves studied <i>in situ</i> by Raman microimaging: following mineralization from small grains to big deposits. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1222-1229.	1.2	20
9	Raman spectroscopy as a novel tool for fast characterization of the chemical composition of perivascular adipose tissue. <i>Analyst, The</i> , 2018, 143, 5999-6005.	1.7	18
10	Raman microspectroscopy of human aortic valves: investigation of the local and global biochemical changes associated with calcification in aortic stenosis. <i>Analyst, The</i> , 2015, 140, 2164-2170.	1.7	17
11	The impact of HPV infection on human glycogen and lipid metabolism – a review. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2022, 1877, 188646.	3.3	17
12	Vascular diseases investigated <i>ex vivo</i> by using Raman, FT-IR and complementary methods. <i>Pharmacological Reports</i> , 2015, 67, 744-750.	1.5	15
13	Distinct Chemical Changes in Abdominal but Not in Thoracic Aorta upon Atherosclerosis Studied Using Fiber Optic Raman Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4838.	1.8	15
14	Lipid Droplets Formation Represents an Integral Component of Endothelial Inflammation Induced by LPS. <i>Cells</i> , 2021, 10, 1403.	1.8	14
15	HPV Infection Significantly Accelerates Glycogen Metabolism in Cervical Cells with Large Nuclei: Raman Microscopic Study with Subcellular Resolution. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2667.	1.8	11
16	Astaxanthin as a new Raman probe for biosensing of specific subcellular lipidic structures: can we detect lipids in cells under resonance conditions?. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3477-3484.	2.4	11
17	Estimation of the content of lipids composing endothelial lipid droplets based on Raman imaging. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158758.	1.2	10
18	Prominent hypertrophy of perivascular adipocytes due to short-term high fat diet. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166315.	1.8	10

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19	Polypyridyl substituted BODIPY derivatives; water switchable imaging probes that exhibit halogen substituent dependent localisation in live cells. <i>RSC Advances</i> , 2017, 7, 43743-43754.	1.7	9
20	Labeled vs. Label-Free Raman Imaging of Lipids in Endothelial Cells of Various Origins. <i>Molecules</i> , 2020, 25, 5752.	1.7	8
21	Impact of cell cycle dynamics on pathology recognition: Raman imaging study. <i>Journal of Biophotonics</i> , 2019, 12, e201800152.	1.1	7
22	A new approach to study human perivascular adipose tissue of the internal mammary artery by fiber-optic Raman spectroscopy supported by spectral modelling. <i>Analyst, The</i> , 2021, 146, 270-276.	1.7	7
23	Systemic Administration of Insulin Receptor Antagonist Results in Endothelial and Perivascular Adipose Tissue Dysfunction in Mice. <i>Cells</i> , 2021, 10, 1448.	1.8	7
24	Dual Switch in Lipid Metabolism in Cervical Epithelial Cells during Dysplasia Development Observed Using Raman Microscopy and Molecular Methods. <i>Cancers</i> , 2021, 13, 1997.	1.7	6
25	Diversity among endothelial cell lines revealed by Raman and Fourier-transform infrared spectroscopic imaging. <i>Analyst, The</i> , 2018, 143, 4323-4334.	1.7	5
26	The distinct phenotype of primary adipocytes and adipocytes derived from stem cells of white adipose tissue as assessed by Raman and fluorescence imaging. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	2.4	4
27	Small and Large Molecules Investigated by Raman Spectroscopy. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2019, , 161-198.	0.6	1
28	Vibrational imaging of proteins: changes in the tissues and cells in the lifestyle disease studies. , 2020, , 177-218.		1
29	Phospholipids accumulation and calcification in cultured primary human aortic valve interstitial cells: New insights revealed by confocal Raman imaging. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 104-114.	1.2	0