

Malgorzata Baranska

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

177
papers

4,545
citations

34
h-index

61
g-index

187
ext. papers

5,259
ext. citations

4.5
avg, IF

5.74
L-index

#	Paper	IF	Citations
177	Raman and fluorescence imaging of phospholipidosis induced by cationic amphiphilic drugs in endothelial cells.. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021 , 1869, 119186	4.9	0
176	Towards Raman-Based Screening of Acute Lymphoblastic Leukemia-Type B (B-ALL) Subtypes. <i>Cancers</i> , 2021 , 13,	6.6	1
175	Electronic Circular Dichroism of the Cas9 Protein and gRNA:Cas9 Ribonucleoprotein Complex. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
174	Lipid droplets in mammalian eggs are utilized during embryonic diapause. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
173	Toward Raman Subcellular Imaging of Endothelial Dysfunction. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 4396-4409	8.3	7
172	How can fluorine directly and indirectly affect the hydrogen bonding in molecular systems? - A case study for monofluoroanilines. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 252, 119536	4.4	2
171	Lipid Droplets Formation Represents an Integral Component of Endothelial Inflammation Induced by LPS. <i>Cells</i> , 2021 , 10,	7.9	2
170	Menadione-induced endothelial inflammation detected by Raman spectroscopy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2021 , 1868, 118911	4.9	4
169	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	10.3	6
168	Monitoring excited-state relaxation in a molecular marker in live cells-a case study on astaxanthin. <i>Chemical Communications</i> , 2021 , 57, 6392-6395	5.8	2
167	Chloroquine-Induced Accumulation of Autophagosomes and Lipids in the Endothelium. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
166	Multiplex Raman imaging of organelles in endothelial cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 255, 119658	4.4	0
165	Influence of Fluorine Substitution on Nonbonding Interactions in Selected Para-Halogeno Anilines. <i>ChemPhysChem</i> , 2021 , 22, 2115-2127	3.2	2
164	Recognition of the True and False Resonance Raman Optical Activity. <i>Angewandte Chemie</i> , 2021 , 133, 21375-21380	3.6	
163	Recognition of the True and False Resonance Raman Optical Activity. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21205-21210	16.4	10
162	Raman imaging-based phenotyping of murine primary endothelial cells to identify disease-associated biochemical alterations. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021 , 1867, 166180	6.9	0
161	Primary murine hepatocytes exposed to fatty acids analyzed by Raman and infrared microscopy. <i>Clinical Spectroscopy</i> , 2021 , 3, 100007	16	1

160	Chiral recognition a stereodynamic vanadium probe using the electronic circular dichroism effect in differential Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 23336-23340	3.6	2
159	Identification of inflammatory markers in eosinophilic cells of the immune system: fluorescence, Raman and CARS imaging can recognize markers but differently.. <i>Cellular and Molecular Life Sciences</i> , 2021 , 79, 1	10.3	
158	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	5	3
157	Resonance Raman Optical Activity Shows Unusual Structural Sensitivity for Systems in Resonance with Multiple Excited States: Vitamin B Case. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5037-5043	6.4	8
156	Differential response of liver sinusoidal endothelial cells and hepatocytes to oleic and palmitic acid revealed by Raman and CARS imaging. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2020 , 1866, 165763	6.9	5
155	Lipid Droplet Composition Varies Based on Medaka Fish Eggs Development as Revealed by NIR-, MIR-, and Raman Imaging. <i>Molecules</i> , 2020 , 25,	4.8	7
154	Vibrational imaging of proteins: changes in the tissues and cells in the lifestyle disease studies 2020 , 177-218		
153	Vibrational Raman optical activity of camphor: The importance of electric-dipole-electric-quadrupole polarizability contribution. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 669-679	2.3	2
152	Resonance Raman Optical Activity Spectroscopy in Probing Structural Changes Invisible to Circular Dichroism Spectroscopy: A Study on Truncated Vitamin B Derivatives. <i>Molecules</i> , 2020 , 25,	4.8	3
151	Multimodal detection and analysis of a new type of advanced Heinz body-like aggregate (AHBA) and cytoskeleton deformation in human RBCs. <i>Analyst, The</i> , 2020 , 145, 1749-1758	5	3
150	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020 , 92, 15745-15756	7.8	22
149	Eosinophils and Neutrophils-Molecular Differences Revealed by Spontaneous Raman, CARS and Fluorescence Microscopy. <i>Cells</i> , 2020 , 9,	7.9	5
148	Labeled vs. Label-Free Raman Imaging of Lipids in Endothelial Cells of Various Origins. <i>Molecules</i> , 2020 , 25,	4.8	1
147	On Raman optical activity sign-switching between the ground and excited states leading to an unusual resonance ROA induced chirality. <i>Chemical Science</i> , 2020 , 12, 911-916	9.4	5
146	Tunicamycin induced endoplasmic reticulum changes in endothelial cells investigated in vitro by confocal Raman imaging. <i>Analyst, The</i> , 2019 , 144, 6561-6569	5	10
145	Chiral Amplification in Nature: Studying Cell-Extracted Chiral Carotenoid Microcrystals via the Resonance Raman Optical Activity of Model Systems. <i>Angewandte Chemie</i> , 2019 , 131, 8471	3.6	
144	Raman imaging highlights biochemical heterogeneity of human eosinophils versus human eosinophilic leukaemia cell line. <i>British Journal of Haematology</i> , 2019 , 186, 685-694	4.5	6
143	ImmunoSERS microscopy for the detection of smooth muscle cells in atherosclerotic plaques. <i>Biosensors and Bioelectronics</i> , 2019 , 133, 79-85	11.8	6

142	Chiral Amplification in Nature: Studying Cell-Extracted Chiral Carotenoid Microcrystals via the Resonance Raman Optical Activity of Model Systems. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8383-8388	16.4	19
141	Raman Optical Activity and Raman spectroscopy of carbohydrates in solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 206, 597-612	4.4	19
140	Raman spectroscopy-based insight into lipid droplets presence and contents in liver sinusoidal endothelial cells and hepatocytes. <i>Journal of Biophotonics</i> , 2019 , 12, e201800290	3.1	17
139	Small and Large Molecules Investigated by Raman Spectroscopy. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2019 , 161-198	0.7	1
138	Impact of cell cycle dynamics on pathology recognition: Raman imaging study. <i>Journal of Biophotonics</i> , 2019 , 12, e201800152	3.1	6
137	FT-IR Spectroscopic Imaging of Endothelial Cells Response to Tumor Necrosis Factor- α To Follow Markers of Inflammation Using Standard and High-Magnification Resolution. <i>Analytical Chemistry</i> , 2018 , 90, 3727-3736	7.8	11
136	Raman Imaging of Biomedical Samples. <i>Springer Series in Surface Sciences</i> , 2018 , 307-346	0.4	2
135	Uptake of fatty acids by a single endothelial cell investigated by Raman spectroscopy supported by AFM. <i>Analyst, The</i> , 2018 , 143, 970-980	5	19
134	Raman, AFM and SNOM high resolution imaging of carotene crystals in a model carrot cell system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 197, 47-55	4.4	16
133	A possible Fourier transform infrared-based plasma fingerprint of angiotensin-converting enzyme inhibitor-induced reversal of endothelial dysfunction in diabetic mice. <i>Journal of Biophotonics</i> , 2018 , 11, e201700044	3.1	18
132	Spectroscopy-based characterization of Hb-NO adducts in human red blood cells exposed to NO-donor and endothelium-derived NO. <i>Analyst, The</i> , 2018 , 143, 4335-4346	5	8
131	Diversity among endothelial cell lines revealed by Raman and Fourier-transform infrared spectroscopic imaging. <i>Analyst, The</i> , 2018 , 143, 4323-4334	5	4
130	Structure of supramolecular astaxanthin aggregates revealed by molecular dynamics and electronic circular dichroism spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 18038-18046	3.6	13
129	Raman spectroscopic features of primary cardiac microvascular endothelial cells (CMECs) isolated from the murine heart. <i>Analyst, The</i> , 2018 , 143, 6079-6086	5	4
128	Absolute Configurations of Naturally Occurring [5]- and [3]-Ladderanoic Acids: Isolation, Chiroptical Spectroscopy, and Crystallography. <i>Journal of Natural Products</i> , 2018 , 81, 2654-2666	4.9	5
127	FT-IR Hyperspectral Imaging and Artificial Neural Network Analysis for Identification of Pathogenic Bacteria. <i>Analytical Chemistry</i> , 2018 , 90, 8896-8904	7.8	47
126	Biomedical Application of Raman and FT-IR Spectroscopies: Label-Free Imaging of Liver Insult 2017 , 1-24		
125	Raman and infrared spectroscopy of carbohydrates: A review. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 185, 317-335	4.4	351

124	Analytical Techniques in Lipidomics: State of the Art. <i>Critical Reviews in Analytical Chemistry</i> , 2017 , 47, 418-437	5.2	68
123	Vibrational Raman optical activity of bicyclic terpenes: comparison between experimental and calculated vibrational Raman, Raman optical activity, and dimensionless circular intensity difference spectra and their similarity analysis. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 305-313	2.3	10
122	Changes induced by non-alcoholic fatty liver disease in liver sinusoidal endothelial cells and hepatocytes: spectroscopic imaging of single live cells at the subcellular level. <i>Analyst, The</i> , 2017 , 142, 3948-3958	5	10
121	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	3.7	7
120	Chiral Thiophene Sulfonamide-A Challenge for VOA Calculations. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 6713-6726	2.8	11
119	Comprehensive review of trends and analytical strategies applied for biological samples preparation and storage in modern medical lipidomics: State of the art. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 86, 276-289	14.6	27
118	Live endothelial cells imaged by Scanning Near-field Optical Microscopy (SNOM): capabilities and challenges. <i>Journal of Biophotonics</i> , 2017 , 10, 928-938	3.1	14
117	Anti-atherosclerotic effects of pravastatin in brachiocephalic artery in comparison with en face aorta and aortic roots in ApoE/LDLR mice. <i>Pharmacological Reports</i> , 2017 , 69, 112-118	3.9	8
116	Carotenoids 2016 , 1-13		4
115	Impact of Stress Factors on Carotenoid Composition, Structures, and Bioavailability in Microbial Sources 2016 , 241-260		
114	Lipids, hemoproteins and carotenoids in alive <i>Rhodotorula mucilaginosa</i> cells under pesticide decomposition - Raman imaging study. <i>Chemosphere</i> , 2016 , 164, 1-6	8.4	7
113	Vibrational Spectroscopy as a Tool to Investigate Carotenoids 2016 , 75-102		5
112	Rapid biochemical profiling of endothelial dysfunction in diabetes, hypertension and cancer metastasis by hierarchical cluster analysis of Raman spectra. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 1310-1317	2.3	14
111	Resonance Raman in Vitro Detection and Differentiation of the Nitrite-Induced Hemoglobin Adducts in Functional Human Red Blood Cells. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12249-12260	3.4	13
110	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	14.6	30
109	Alterations in plasma biochemical composition in NO deficiency induced by L-NAME in mice analysed by Fourier Transform Infrared Spectroscopy. <i>Journal of Biophotonics</i> , 2016 , 9, 1098-1108	3.1	8
108	Spectroscopic studies of anthracyclines: Structural characterization and in vitro tracking. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 169, 152-60	4.4	22
107	Antiatherosclerotic Effects of 1-Methylnicotinamide in Apolipoprotein E/Low-Density Lipoprotein Receptor-Deficient Mice: A Comparison with Nicotinic Acid. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2016 , 356, 514-24	4.7	26

106	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, 1390-7	5	18
105	Lipid droplets formation in human endothelial cells in response to polyunsaturated fatty acids and 1-methyl-nicotinamide (MNA); confocal Raman imaging and fluorescence microscopy studies. <i>Journal of Biophotonics</i> , 2016 , 9, 396-405	3.1	23
104	3D Raman imaging of systemic endothelial dysfunction in the murine model of metastatic breast cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 3381-7	4.4	20
103	Aggregation-Induced Resonance Raman Optical Activity (AIRROA): A New Mechanism for Chirality Enhancement. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 4028-33	3.4	29
102	Aggregation-Induced Resonance Raman Optical Activity (AIRROA) and Time-Dependent Helicity Switching of Astaxanthin Supramolecular Assemblies. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 7807-14	4.4	27
101	In Situ Studies of Carotenoids in Plants and Animals 2016 , 131-146		1
100	Interplay between carotenoids, hemoproteins and the "life band" origin studied in live <i>Rhodotorula mucilaginosa</i> cells by means of Raman microimaging. <i>Analyst, The</i> , 2015 , 140, 1809-13	5	4
99	Plasma biomarkers of pulmonary hypertension identified by Fourier transform infrared spectroscopy and principal component analysis. <i>Analyst, The</i> , 2015 , 140, 2273-9	5	26
98	Raman microscopy as a novel tool to detect endothelial dysfunction. <i>Pharmacological Reports</i> , 2015 , 67, 736-43	3.9	16
97	Complementary analysis of tissue homogenates composition obtained by Vis and NIR laser excitations and Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 147, 245-56	4.4	14
96	Prediction of ROA and ECD Related to Conformational Changes of Astaxanthin Enantiomers. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 12193-201	3.4	17
95	Comparison of FTIR transmission and transfection substrates for canine liver cancer detection. <i>Analyst, The</i> , 2015 , 140, 2402-11	5	31
94	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, 2164-70	5	12
93	SERS-based monitoring of the intracellular pH in endothelial cells: the influence of the extracellular environment and tumour necrosis factor- α . <i>Analyst, The</i> , 2015 , 140, 2321-9	5	67
92	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 Pt C, 1395-400	4.4	16
91	Raman spectroscopy analysis of lipid droplets content, distribution and saturation level in Non-Alcoholic Fatty Liver Disease in mice. <i>Journal of Biophotonics</i> , 2015 , 8, 597-609	3.1	39
90	Vibrational and theoretical study of diacetylenic acids. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 137, 652-60	4.4	5
89	Rhodamine 6G conjugated to gold nanoparticles as labels for both SERS and fluorescence studies on live endothelial cells. <i>Mikrochimica Acta</i> , 2015 , 182, 119-127	5.8	37

88	Micro-Attenuated Total Reflection Fourier Transform Infrared (Micro ATR FT-IR) Spectroscopic Imaging with Variable Angles of Incidence. <i>Applied Spectroscopy</i> , 2015 , 69, 1170-4	3.1	18
87	Vibrational analysis of cinchona alkaloids in the solid state and aqueous solutions. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 1041-1052	2.3	8
86	Vascular diseases investigated ex vivo by using Raman, FT-IR and complementary methods. <i>Pharmacological Reports</i> , 2015 , 67, 744-50	3.9	9
85	The liver-selective NO donor, V-PYRRO/NO, protects against liver steatosis and improves postprandial glucose tolerance in mice fed high fat diet. <i>Biochemical Pharmacology</i> , 2015 , 93, 389-400	6	31
84	Comparative endothelial profiling of doxorubicin and daunorubicin in cultured endothelial cells. <i>Toxicology in Vitro</i> , 2015 , 29, 512-21	3.6	37
83	High-resolution Raman imaging reveals spatial location of heme oxidation sites in single red blood cells of dried smears. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 76-83	2.3	32
82	Transmission versus transfection mode in FTIR analysis of blood plasma: is the electric field standing wave effect the only reason for observed spectral distortions?. <i>Analyst, The</i> , 2015 , 140, 2412-215	5	25
81	An impact of the ring substitution in nicorandil on its adsorption on silver nanoparticles. Surface-enhanced Raman spectroscopy studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 129, 624-31	4.4	4
80	A novel approach to investigate vascular wall in 3D: Combined Raman spectroscopy and atomic force microscopy for aorta en face imaging. <i>Vibrational Spectroscopy</i> , 2014 , 75, 39-44	2.1	15
79	Bisignate resonance Raman optical activity: a pseudo breakdown of the single electronic state model of RROA?. <i>Journal of Raman Spectroscopy</i> , 2014 , 45, 859-862	2.3	15
78	Raman imaging providing insights into chemical composition of lipid droplets of different size and origin: in hepatocytes and endothelium. <i>Analytical Chemistry</i> , 2014 , 86, 6666-74	7.8	55
77	Rapid approach to analyze biochemical variation in rat organs by ATR FTIR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 118, 981-6	4.4	51
76	Red blood cells polarize green laser light revealing hemoglobin's enhanced non-fundamental Raman modes. <i>ChemPhysChem</i> , 2014 , 15, 3963-8	3.2	25
75	(-)-R-mevalonolactone studied by ROA and SERS spectroscopy. <i>Chirality</i> , 2014 , 26, 453-61	2.1	3
74	Visualization of the biochemical markers of atherosclerotic plaque with the use of Raman, IR and AFM. <i>Journal of Biophotonics</i> , 2014 , 7, 744-56	3.1	51
73	Endothelium in spots—high-content imaging of lipid rafts clusters in db/db mice. <i>PLoS ONE</i> , 2014 , 9, e106065	5.05	28
72	General Overview on Vibrational Spectroscopy Applied in Biology and Medicine. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2014 , 3-14	0.7	5
71	Pathological changes in the biochemical profile of the liver in atherosclerosis and diabetes assessed by Raman spectroscopy. <i>Analyst, The</i> , 2013 , 138, 3885-90	5	37

70	Vibrational and theoretical study of selected diacetylenes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 115, 493-503	4.4	7
69	Secondary structure of proteins analyzed ex vivo in vascular wall in diabetic animals using FT-IR spectroscopy. <i>Analyst, The</i> , 2013 , 138, 7400-10	5	15
68	Quantification of plaque area and characterization of plaque biochemical composition with atherosclerosis progression in ApoE/LDLR(-/-) mice by FT-IR imaging. <i>Analyst, The</i> , 2013 , 138, 6645-52	5	23
67	3D confocal Raman imaging of endothelial cells and vascular wall: perspectives in analytical spectroscopy of biomedical research. <i>Analyst, The</i> , 2013 , 138, 603-10	5	60
66	Structural changes of β -carotene and some retinoid pharmaceuticals induced by environmental factors. <i>Journal of Molecular Structure</i> , 2013 , 1037, 99-108	3.4	9
65	Calcification of aortic human valves studied in situ by Raman microimaging: following mineralization from small grains to big deposits. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1222-1229	2.3	17
64	Electric field standing wave effects in FT-IR transfection spectra of biological tissue sections: Simulated models of experimental variability. <i>Vibrational Spectroscopy</i> , 2013 , 69, 84-92	2.1	32
63	Carbamazepine polymorphs: Theoretical and experimental vibrational spectroscopy studies. <i>Vibrational Spectroscopy</i> , 2013 , 65, 12-23	2.1	32
62	Imaging of macrophages by Surface Enhanced Raman Spectroscopy (SERS). <i>Biomedical Spectroscopy and Imaging</i> , 2013 , 2, 349-357	1.3	4
61	Multi-methodological insight into the vessel wall cross-section: Raman and AFM imaging combined with immunohistochemical staining. <i>Biomedical Spectroscopy and Imaging</i> , 2013 , 2, 191-197	1.3	7
60	Recent Advances in Raman Analysis of Plants: Alkaloids, Carotenoids, and Polyacetylenes. <i>Current Analytical Chemistry</i> , 2013 , 9, 108-127	1.7	60
59	A comprehensive approach to study liver tissue: Spectroscopic imaging and histochemical staining. <i>Biomedical Spectroscopy and Imaging</i> , 2013 , 2, 331-337	1.3	5
58	An effect of anticoagulants on the FTIR spectral profile of mice plasma. <i>Biomedical Spectroscopy and Imaging</i> , 2013 , 2, 317-330	1.3	4
57	Raman optical activity of cinchona alkaloids. <i>Biomedical Spectroscopy and Imaging</i> , 2013 , 2, 359-365	1.3	1
56	The uptake of gold nanoparticles by endothelial cells studied by surface-enhanced Raman spectroscopy. <i>Biomedical Spectroscopy and Imaging</i> , 2013 , 2, 183-189	1.3	5
55	Attenuated total reflection Fourier transform infrared (ATR-FTIR) spectroscopy of a single endothelial cell. <i>Analyst, The</i> , 2012 , 137, 4135-9	5	29
54	Nicotinamide and trigonelline studied with surface-enhanced FT-Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2012 , 63, 469-476	2.1	11
53	Protein profile in vascular wall of atherosclerotic mice analyzed ex vivo using FT-IR spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 96, 940-5	4.4	14

52	On two alizarin polymorphs. <i>CrystEngComm</i> , 2012 , 14, 3667	3.3	14
51	Recent Advances in Raman Analysis of Plants: Alkaloids, Carotenoids, and Polyacetylenes. <i>Current Analytical Chemistry</i> , 2012 , 9, 108-127	1.7	4
50	Nondestructive Raman analysis of polyacetylenes in apiaceae vegetables. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 7647-53	5.7	26
49	Imaging of lipids in atherosclerotic lesion in aorta from ApoE/LDLR-/- mice by FT-IR spectroscopy and Hierarchical Cluster Analysis. <i>Analyst, The</i> , 2011 , 136, 5247-55	5	58
48	Structural changes of carotenoid astaxanthin in a single algal cell monitored in situ by Raman spectroscopy. <i>Analytical Chemistry</i> , 2011 , 83, 7763-70	7.8	63
47	In situ Raman imaging of astaxanthin in a single microalgal cell. <i>Analyst, The</i> , 2011 , 136, 1109-12	5	76
46	Spectroscopic studies on bioactive polyacetylenes and other plant components in wild carrot root. <i>Journal of Natural Products</i> , 2011 , 74, 1757-63	4.9	33
45	Impact of sunflower and mustard leave extracts on the growth and dark respiration of mustard seedlings. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 104, 187-192	4.1	9
44	FT-Raman spectroscopy: a rapid and reliable quantification protocol for the determination of natural indigo dye in <i>Polygonum tinctorium</i> . <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 551-557	2.3	17
43	Discrimination of carotenoid and flavonoid content in petals of pansy cultivars (<i>Viola x wittrockiana</i>) by FT-Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1240-1247	2.3	41
42	Application of FT-Raman spectroscopy for in situ detection of microorganisms on the surface of textiles. <i>Journal of Environmental Monitoring</i> , 2011 , 13, 2983-7		15
41	Theoretical modeling of molecular spectra parameters of disubstituted diacetylenes. <i>Journal of Chemical Information and Modeling</i> , 2011 , 51, 283-95	6.1	21
40	In situ detection of a single carotenoid crystal in a plant cell using Raman microspectroscopy. <i>Vibrational Spectroscopy</i> , 2011 , 56, 166-169	2.1	31
39	Natural monoacetylenes studied by quantum-chemical chemistry. <i>Spectroscopy</i> , 2010 , 24, 417-420		3
38	Applications of Vibrational Spectroscopy to Oilseeds Analysis 2010 ,		1
37	In situ Raman and IR spectroscopic analysis of indigo dye. <i>Analytical Methods</i> , 2010 , 2, 1372	3.2	69
36	Pyridine on Colloidal Silver. Polarization of Surface Studied by Surface-Enhanced Raman Scattering and Density Functional Theory Methods. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3909-3917	3.8	38
35	Relationship between structure and entropy contributions in an anthraquinone mercapto derivative. <i>Journal of Molecular Modeling</i> , 2010 , 16, 1549-57	2	4

34	The potential application of FT-Raman spectroscopy for the quantification and mapping of the steroidal glycoside P57 in <i>Hoodia gordonii</i> . <i>Phytochemistry Letters</i> , 2010 , 3, 156-160	1.9	4
33	Raman optical activity: a powerful technique to investigate essential oil components. <i>Natural Product Communications</i> , 2010 , 5, 1417-20	0.9	5
32	Fruits and Vegetables 2009 , 321-353		2
31	The sequence of deprotonation of pyridine-6-phospho-4-carboxylic acid. <i>Computational and Theoretical Chemistry</i> , 2009 , 905, 81-85		1
30	The influence of sunflower and mustard leaf extracts on the germination of mustard seeds. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 95, 727-730	4.1	12
29	Determination of alkaloids through infrared and Raman spectroscopy. <i>The Alkaloids Chemistry and Biology</i> , 2009 , 67, 217-55	4.8	14
28	Discrimination between nongenetically modified (Non-GM) and GM plant tissue expressing cysteine-rich polypeptide using FT-Raman spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2008 , 56, 4491-6	5.7	10
27	Vibrational study of calcium salt of pyridine-2-phospho-4-carboxylic acid. <i>Chemical Physics Letters</i> , 2008 , 451, 127-131	2.5	0
26	Raman mapping of caffeine alkaloid. <i>Vibrational Spectroscopy</i> , 2008 , 48, 153-157	2.1	31
25	¹ H and ¹³ C NMR spectroscopy of structural isomers of pyridinephosphonic acids. <i>Journal of Molecular Structure</i> , 2008 , 876, 278-287	3.4	1
24	Nondestructive analysis of single rapeseeds by means of Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 301-308	2.3	34
23	Identification and quantification of valuable plant substances by IR and Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2007 , 43, 13-25	2.1	596
22	In situ flavonoid analysis by FT-Raman spectroscopy: identification, distribution, and quantification of aspalathin in green rooibos (<i>Aspalathus linearis</i>). <i>Analytical Chemistry</i> , 2006 , 78, 7716-21	7.8	45
21	Structural changes of polyacetylenes in American ginseng root can be observed in situ by using Raman spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2006 , 54, 3629-35	5.7	27
20	Investigation of eucalyptus essential oil by using vibrational spectroscopy methods. <i>Vibrational Spectroscopy</i> , 2006 , 42, 341-345	2.1	38
19	Tissue-specific accumulation of carotenoids in carrot roots. <i>Planta</i> , 2006 , 224, 1028-37	4.7	92
18	Characterization of peppercorn, pepper oil, and pepper oleoresin by vibrational spectroscopy methods. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 3358-63	5.7	80
17	Spatial tissue distribution of polyacetylenes in carrot root. <i>Analyst, The</i> , 2005 , 130, 855-9	5	59

16	In situ simultaneous analysis of polyacetylenes, carotenoids and polysaccharides in carrot roots. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 6565-71	5.7	89
15	Non-destructive Raman analyses--polyacetylenes in plants. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005 , 61, 1395-401	4.4	18
14	Characterisation of essential oil plants from Turkey by IR and Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2005 , 39, 249-256	2.1	166
13	Changes in carotenoid content and distribution in living plant tissue can be observed and mapped in situ using NIR-FT-Raman spectroscopy. <i>Planta</i> , 2005 , 222, 448-57	4.7	99
12	Chemotaxonomic characterisation of essential oil plants by vibrational spectroscopy measurements. <i>Vibrational Spectroscopy</i> , 2004 , 35, 81-86	2.1	79
11	New solid state Ni(II)-famotidine square-planar complex: powder diffraction and spectroscopic studies. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 995-1001	4.2	12
10	FT-Raman study of (hydroxypyridin-3-yl-methyl)phosphonic acid with varying pH: 2D correlation method. <i>Vibrational Spectroscopy</i> , 2004 , 35, 233-237	2.1	5
9	Identification of secondary metabolites in medicinal and spice plants by NIR-FT-Raman microspectroscopic mapping. <i>Analyst, The</i> , 2004 , 129, 926-30	5	77
8	Determination of alkaloids in capsules, milk and ethanolic extracts of poppy (<i>Papaver somniferum</i> L.) by ATR-FT-IR and FT-Raman spectroscopy. <i>Analyst, The</i> , 2004 , 129, 917-20	5	56
7	Experimental and calculated ¹ H, ¹³ C and ³¹ P NMR spectra of (hydroxypyridin-3-yl-methyl)phosphonic acid. <i>Journal of Molecular Structure</i> , 2003 , 651-653, 729-737	3.4	10
6	Experimental and calculated ¹ H, ¹³ C and ³¹ P NMR spectra of pyridine-2-phosphono-4-carboxylic acid. <i>Journal of Molecular Structure</i> , 2003 , 648, 215-224	3.4	16
5	Vibrational and structural analysis of (hydroxypyridin-3-yl-methyl)phosphonic acid. <i>Journal of Molecular Structure</i> , 2003 , 658, 229-239	3.4	1
4	FT-IR and FT-Raman study of selected pyridinephosphonocarboxylic acids. <i>Vibrational Spectroscopy</i> , 2003 , 31, 295-311	2.1	38
3	Single crystal structure and vibrational study of pyridinephosphonocarboxylic acid. <i>Vibrational Spectroscopy</i> , 2003 , 32, 199-206	2.1	10
2	Vibrational and quantum-chemical study of pH dependent molecular structures of (hydroxypyridin-4-yl-methyl)phosphonic acid. <i>Vibrational Spectroscopy</i> , 2003 , 33, 83-92	2.1	4
1	A study on the nickel II-famotidine complexes. <i>Journal of Inorganic Biochemistry</i> , 2002 , 92, 112-20	4.2	19