

# Sylwester Mazurek

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,210  
citations

394421

19  
h-index

377865

34  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1572  
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial Transfer Hydrogenases Based on the Biotin <sup>~</sup> (Strept)avidin Technology: Fine Tuning the Selectivity by Saturation Mutagenesis of the Host Protein. <i>Journal of the American Chemical Society</i> , 2006, 128, 8320-8328.	13.7	147
2	Quantitative determination of acetylsalicylic acid and acetaminophen in tablets by FT-Raman spectroscopy. Electronic Supplementary Information available. See <a href="http://www.rsc.org/suppdata/an/b1/b108240j/">http://www.rsc.org/suppdata/an/b1/b108240j/</a> . <i>Analyst</i> , 2002, 127, 144-148.	3.5	134
3	Quantitative determination of captopril and prednisolone in tablets by FT-Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 40, 1225-1230.	2.8	96
4	Transmission Fourier transform infrared microspectroscopy allows simultaneous assessment of cutin and cell wall polysaccharides of <i>Arabidopsis</i> petals. <i>Plant Journal</i> , 2013, 74, 880-891.	5.7	81
5	Quantitative determination of diclofenac sodium and aminophylline in injection solutions by FT-Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 40, 1235-1242.	2.8	67
6	The ABCG transporter PEC1/ABCG32 is required for the formation of the developing leaf cuticle in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2016, 209, 192-201.	7.3	59
7	(Strept)avidin as Host for Biotinylated Coordination Complexes: Stability, Chiral Discrimination, and Cooperativity. <i>Inorganic Chemistry</i> , 2006, 45, 660-668.	4.0	53
8	Analysis of milk by FT-Raman spectroscopy. <i>Talanta</i> , 2015, 138, 285-289.	5.5	51
9	Quantitative determination of diclofenac sodium in solid dosage forms by FT-Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 814-821.	2.8	45
10	Quantification of atorvastatin calcium in tablets by FT-Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2009, 49, 168-172.	2.8	40
11	FT-Raman quantitative determination of ambroxol in tablets. <i>Journal of Molecular Structure</i> , 2004, 704, 229-233.	3.6	39
12	Connecting the Molecular Structure of Cutin to Ultrastructure and Physical Properties of the Cuticle in Petals of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2017, 173, 1146-1163.	4.8	38
13	Quantification of aspartame in commercial sweeteners by FT-Raman spectroscopy. <i>Food Chemistry</i> , 2011, 125, 1051-1057.	8.2	37
14	Microheterogeneity in binary mixtures of methanol with aliphatic alcohols: ATR-IR/NIR spectroscopic, chemometrics and DFT studies. <i>RSC Advances</i> , 2016, 6, 37195-37202.	3.6	30
15	Quantification of gluten in wheat flour by FT-Raman spectroscopy. <i>Food Chemistry</i> , 2016, 211, 560-563.	8.2	27
16	Application of infrared reflection and Raman spectroscopy for quantitative determination of fat in potato chips. <i>Journal of Molecular Structure</i> , 2016, 1126, 213-218.	3.6	22
17	Determination of nutritional parameters of bee pollen by Raman and infrared spectroscopy. <i>Talanta</i> , 2020, 212, 120790.	5.5	22
18	Quantification of active ingredients in <i>Potentilla tormentilla</i> by Raman and infrared spectroscopy. <i>Talanta</i> , 2018, 189, 308-314.	5.5	21

#	ARTICLE	IF	CITATIONS
19	Microheterogeneity in binary mixtures of water with CH <sub>3</sub> OH and CD <sub>3</sub> OH: ATR-IR spectroscopic, chemometric and DFT studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 197, 88-94.	3.9	20
20	Quantitative analysis of topical gels and ointments by FT-Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2016, 83, 1-7.	2.2	16
21	Microheterogeneity in binary mixtures of aliphatic alcohols and alkanes: ATR-IR/NIR spectroscopic and chemometric studies. <i>RSC Advances</i> , 2016, 6, 94294-94300.	3.6	13
22	Counter propagation artificial neural networks modeling of an enantioselectivity of artificial metalloenzymes. <i>Molecular Diversity</i> , 2007, 11, 141-152.	3.9	12
23	Quantification of active ingredients in suppositories by FT-Raman spectroscopy. <i>Drug Testing and Analysis</i> , 2013, 5, 126-129.	2.6	12
24	A quantitative analysis of liquid hydrocarbon mixtures on the basis of FT-Raman spectra registered under unstable conditions. <i>Journal of Molecular Structure</i> , 2004, 704, 235-245.	3.6	11
25	The influence of sample area on diclofenac sodium quantification by diffuse reflectance IR spectroscopy. <i>Talanta</i> , 2011, 84, 583-586.	5.5	11
26	Microheterogeneity in CH <sub>3</sub> OH/CD <sub>3</sub> OH mixture. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 188, 349-354.	3.9	11
27	Comparison of infrared attenuated total reflection and Raman spectroscopy in the quantitative analysis of diclofenac sodium in tablets. <i>Vibrational Spectroscopy</i> , 2011, 57, 157-157.	2.2	10
28	Quantitative Determination of Prednisone in Tablets by Infrared Attenuated Total Reflection and Raman Spectroscopy. <i>Journal of AOAC INTERNATIONAL</i> , 2012, 95, 744-750.	1.5	10
29	Quantitative analysis of thiamine hydrochloride in tablets—Comparison of infrared attenuated total reflection, diffuse reflectance infrared and Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2012, 62, 10-16.	2.2	10
30	Determination of nutritional parameters of yoghurts by FT Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 196, 413-417.	3.9	9
31	Antioxidant and Antiglycation Effects of <i>Cistus Æ— incanus</i> Water Infusion, Its Phenolic Components, and Respective Metabolites. <i>Molecules</i> , 2022, 27, 2432.	3.8	9
32	Determination of Antioxidant Activity and Polyphenols Content in Chips by Raman and IR Spectroscopy. <i>Food Analytical Methods</i> , 2017, 10, 3964-3971.	2.6	8
33	Quantification of active ingredients in pharmaceutical suspensions by FT Raman spectroscopy. <i>Vibrational Spectroscopy</i> , 2017, 93, 57-64.	2.2	8
34	Simple transformation of spectra to effectively reduce quantification errors in FT-Raman multivariate analysis of complex systems. <i>Vibrational Spectroscopy</i> , 2009, 49, 298-302.	2.2	7
35	Quantitative Determination of Vitamins A and E in Ointments Using Raman Spectroscopy. <i>Processes</i> , 2021, 9, 8.	2.8	6
36	Anharmonicity and Spectra—Structure Correlations in MIR and NIR Spectra of Crystalline Menadione (Vitamin K <sub>3</sub> ). <i>Molecules</i> , 2021, 26, 6779.	3.8	5

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37	Modeling of Antioxidant Activity, Polyphenols and Macronutrients Content of Bee Pollen Applying Solid-State <sup>13</sup> C NMR Spectra. <i>Antioxidants</i> , 2021, 10, 1123.	5.1	4
38	Quantification of Salicylates and Flavonoids in Poplar Bark and Leaves Based on IR, NIR, and Raman Spectra. <i>Molecules</i> , 2022, 27, 3954.	3.8	4
39	Quantitative analysis of solid samples using modified specular reflectance accessory. <i>Talanta</i> , 2016, 161, 655-659.	5.5	3
40	ATR-IR Spectroscopy Application to Diagnostic Screening of Advanced Endometriosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-13.	4.0	2