

Arkadiusz P Matwiczuk

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.

69

papers

775

citations

18

h-index

23

g-index

77

ext. papers

1,082

ext. citations

3.3

avg, IF

4.41

L-index

#	Paper	IF	Citations
69	Impact of Grape Variety, Yeast and Malolactic Fermentation on Volatile Compounds and Fourier Transform Infrared Spectra in Red Wines. <i>Polish Journal of Food and Nutrition Sciences</i> , 2022 , 38-55	3.1	0
68	Effect of Carrageenan and its acidic and enzymatic hydrolysates on ice crystal structure changes in model sucrose solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 643, 128744	5.1	2
67	Design, Spectroscopy, and Assessment of Cholinesterase Inhibition and Antimicrobial Activities of Novel Coumarin-Thiadiazole Hybrids. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 6314	6.3	0
66	Quality Assessment of Honey Powders Obtained by High- and Low-Temperature Spray Drying. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 224	2.6	6
65	The Influence of the Pressure-Thermal Agglomeration Methods of Corn Bran on Their Selected Physicochemical Properties and Biogas Efficiency. <i>Energies</i> , 2021 , 14, 6997	3.1	0
64	Physical Properties, Spectroscopic, Microscopic, X-ray, and Chemometric Analysis of Starch Films Enriched with Selected Functional Additives. <i>Materials</i> , 2021 , 14,	3.5	5
63	Biodirected Synthesis of Silver Nanoparticles Using Aqueous Honey Solutions and Evaluation of Their Antifungal Activity against Pathogenic Spp. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
62	Effect of Sea Buckthorn (<i>Hippophae rhamnoides</i> L.) Mousse on Properties of Probiotic Yoghurt. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 545	2.6	7
61	Insight into dual fluorescence effects induced by molecular aggregation occurring in membrane model systems containing 1,3,4-thiadiazole derivatives. <i>European Biophysics Journal</i> , 2021 , 50, 1083-1101	1.9	2
60	Novel Coumarin-Thiadiazole Hybrids and Their Cu(II) and Zn(II) Complexes as Potential Antimicrobial Agents and Acetylcholinesterase Inhibitors. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
59	Chemometric approach to characterization of the selected grape seed oils based on their fatty acids composition and FTIR spectroscopy. <i>Scientific Reports</i> , 2021 , 11, 19256	4.9	1
58	Influence of In Vitro Digestion on Composition, Bioaccessibility and Antioxidant Activity of Food Polyphenols-A Non-Systematic Review. <i>Nutrients</i> , 2020 , 12,	6.7	74
57	Anti-Hypochlorite, Antioxidant, and Catalytic Activity of Three Polyphenol-Rich Super-Foods Investigated with the Use of Coumarin-Based Sensors. <i>Biomolecules</i> , 2020 , 10,	5.9	5
56	Potato Starch Utilization in Ecological Loose-Fill Packaging Materials-Sustainability and Characterization. <i>Materials</i> , 2020 , 13,	3.5	6
55	Experimental Investigation of the Viscosity Parameters Ranges Case Study of Engine Oils in the Selected Viscosity Grade. <i>Energies</i> , 2020 , 13, 3152	3.1	1
54	Opuntia Fruits as Food Enriching Ingredient, the First Step towards New Functional Food Products. <i>Molecules</i> , 2020 , 25,	4.8	20
53	Spectroscopic and theoretical studies of fluorescence effects induced by the ESIPT process in a new derivative 2-Hydroxy-N-(2-phenylethyl)benzamide - Study on the effects of pH and medium polarity changes. <i>PLoS ONE</i> , 2020 , 15, e0229149	3.7	4

52	Influence of Electromagnetic Stimulation of Seeds on the Photosynthetic Indicators in <i>Medicago sativa</i> L. Leaves at Various Stages of Development. <i>Agronomy</i> , 2020 , 10, 594	3.6	1
51	Effect of extrusion-cooking conditions on the pasting properties of extruded white and red bean seeds. <i>International Agrophysics</i> , 2020 , 1, 25-32	2	10
50	Identification of sugars and phenolic compounds in honey powders with the use of GC-MS, FTIR spectroscopy, and X-ray diffraction. <i>Scientific Reports</i> , 2020 , 10, 16269	4.9	18
49	The Influence of Corn Straw Extrusion Pretreatment Parameters on Methane Fermentation Performance. <i>Materials</i> , 2020 , 13,	3.5	8
48	Structural Features of 1,3,4-Thiadiazole-Derived Ligands and Their Zn(II) and Cu(II) Complexes Which Demonstrate Synergistic Antibacterial Effects with Kanamycin. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	11
47	ESIPT-Related Origin of Dual Fluorescence in the Selected Model 1,3,4-Thiadiazole Derivatives. <i>Molecules</i> , 2020 , 25,	4.8	9
46	Anti-Hypochlorite and Catalytic Activity of Commercially Available Diet Supplement. <i>Molecules</i> , 2019 , 24,	4.8	5
45	The Effect of Low-Temperature Spray Drying with Dehumidified Air on Phenolic Compounds, Antioxidant Activity, and Aroma Compounds of Rapeseed Honey Powders. <i>Food and Bioprocess Technology</i> , 2019 , 12, 919-932	5.1	26
44	Development and characterization of physical properties of honey-rich powder. <i>Food and Bioproducts Processing</i> , 2019 , 115, 78-86	4.9	20
43	Physical assessment, spectroscopic and chemometric analysis of starch-based foils with selected functional additives. <i>PLoS ONE</i> , 2019 , 14, e0212070	3.7	3
42	Content of Phenolic Compounds and Antioxidant Activity of New Gluten-Free Pasta with the Addition of Chestnut Flour. <i>Molecules</i> , 2019 , 24,	4.8	4
41	Spectroscopic Examination and Chemometric Analysis of Essential Oils Obtained from Peppermint Herb (<i>Mentha piperita</i> L.) and Caraway Fruit (<i>Carum carvi</i> L.) Subjected to Pulsed Electric Fields. <i>Processes</i> , 2019 , 7, 466	2.9	6
40	Spectroscopic and theoretical investigation into substituent- and aggregation-related dual fluorescence effects in the selected 2-amino-1,3,4-thiadiazoles. <i>Journal of Molecular Liquids</i> , 2019 , 291, 111261	6	10
39	Impact of storage temperature and time on Moldavian dragonhead oil [3] spectroscopic and chemometric analysis. <i>Open Chemistry</i> , 2019 , 17, 609-620	1.6	2
38	Effect of Stress Caused by Electromagnetic Stimulation on the Fluorescence Lifetime of Chlorophylls in Alfalfa Leaves. <i>Polish Journal of Environmental Studies</i> , 2019 , 28, 3133-3143	2.3	2
37	Effect of starch type and screw speed on mechanical properties of extrusion-cooked starch-based foams. <i>International Agrophysics</i> , 2019 , 33, 233-240	2	5
36	Use of FTIR Spectroscopy and Chemometrics with Respect to Storage Conditions of Moldavian Dragonhead Oil. <i>Sustainability</i> , 2019 , 11, 6414	3.6	16
35	The Influence of Copper and Silver Nanocolloids on the Quality of Pressed Spring Rapeseed Oil. <i>Agronomy</i> , 2019 , 9, 643	3.6	6

34	Non-Typical Fluorescence Effects and Biological Activity in Selected 1,3,4-thiadiazole Derivatives: Spectroscopic and Theoretical Studies on Substituent, Molecular Aggregation, and pH Effects. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	8
33	Spectroscopic and theoretical studies of dual fluorescence in 2-hydroxy-n-(2-phenylethyl)benzamide induced by ESIPT process [Solvent effects. <i>Journal of Luminescence</i> , 2019 , 208, 125-134	3.8	6
32	Fluorescence Quenching-Based Mechanism for Determination of Hypochlorite by Coumarin-Derived Sensors. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	24
31	Spectroscopic and theoretical studies of fluorescence effects in bio-active: 4-(5-(methyl-1,3,4-thiadiazol-2-yl))benzene-1,3-diol and 4-(5-(methylamino-1,3,4-thiadiazol-2-yl))benzene-1,3-diol compounds: Effect of molecular aggregation and amino group position. <i>Journal of Luminescence</i> , 2018 , 201, 44-56	3.8	7
30	Application of FTIR spectroscopy for analysis of the quality of honey. <i>BIO Web of Conferences</i> , 2018 , 10, 02008	0.4	19
29	Spectroscopic studies of the molecular organization of 4-([1,2,4] triazolo [4,3-a] pyridin-3-yl)-6-methylbenzene-1,3-diol in selected solvents. <i>Journal of Luminescence</i> , 2018 , 194, 208-218	3.8	6
28	Spectroscopic and Theoretical Studies of Fluorescence Effects in 2-Methylamino-5-(2,4-dihydroxyphenyl)-1,3,4-thiadiazole Induced by Molecular Aggregation. <i>Journal of Fluorescence</i> , 2018 , 28, 65-77	2.4	3
27	Characterization of membrane processed honey and the effect of ultrafiltration with diafiltration on subsequent spray drying. <i>Journal of Food Process Engineering</i> , 2018 , 41, e12818	2.4	7
26	Interplay of Inter- and Intramolecular Interactions in Crystal Structures of 1,3,4-Thiadiazole Resorcinol Derivatives. <i>Crystal Growth and Design</i> , 2018 , 18, 3851-3862	3.5	7
25	Synthesis and biological activity of novel benzoazoles, benzoazines and other analogs functionalized by 2,4-dihydroxyphenyl moiety. <i>Research on Chemical Intermediates</i> , 2018 , 44, 6169-6182	2.8	4
24	Profile of Fatty Acids and Spectroscopic Characteristics of Selected Vegetable Oils Extracted by Cold Maceration. <i>Agricultural Engineering</i> , 2018 , 22, 61-71	0.4	6
23	Otrzymywanie, spektroskopia i biologiczna aktywność kompleksów Cu(II) i Zn(II) z pochodnymi 1,3,4-tiadiazolu. <i>Przemysł Chemiczny</i> , 2018 , 1, 97-103	1.8	2
22	Spectroscopic Studies of Dual Fluorescence in 2-(4-Fluorophenylamino)-5-(2,4-dihydroxybenzeno)-1,3,4-thiadiazole: Effect of Molecular Aggregation in a Micellar System. <i>Molecules</i> , 2018 , 23,	4.8	15
21	Membrane Processing in the Sustainable Production of Low-Sugar Apple-Cranberry Cloudy Juice. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1082	2.6	7
20	Effect of polyols on the DMPC lipid monolayers and bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 2166-2174	3.8	7
19	Spectroscopic studies of the quality of WCO (Waste Cooking Oil) fatty acid methyl esters. <i>BIO Web of Conferences</i> , 2018 , 10, 02019	0.4	5
18	Effect of Solvent Polarizability on the Keto/Enol Equilibrium of Selected Bioactive Molecules from the 1,3,4-Thiadiazole Group with a 2,4-Hydroxyphenyl Function. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 1402-1411	2.8	33
17	Spectroscopic Studies of Fluorescence Effects in Bioactive 4-(5-Heptyl-1,3,4-Thiadiazol-2-yl)Benzene-1,3-Diol and 4-(5-Methyl-1,3,4-Thiadiazol-2-yl)Benzene-1,3-Diol Molecules Induced by pH Changes in Aqueous Solutions. <i>Journal of Fluorescence</i> , 2017 , 27, 1201-1212	2.4	18

16	Isolation and spectroscopic characterization of Zn(II), Cu(II), and Pd(II) complexes of 1,3,4-thiadiazole-derived ligand. <i>Journal of Molecular Structure</i> , 2017 , 1128, 44-50	3.4	19
15	Analysis of the physicochemical properties of post-manufacturing waste derived from production of methyl esters from rapeseed oil. <i>International Agrophysics</i> , 2017 , 31, 175-182	2	16
14	Microscopic and Spectroscopic Analyses of Selected Agricultural Formulations Containing Various nanostructures. <i>Polish Journal of Environmental Studies</i> , 2017 , 26, 1565-1573	2.3	2
13	Spectroscopic Studies of the Quality of Fatty Acid Methyl Esters Derived from Waste Cooking Oil. <i>Polish Journal of Environmental Studies</i> , 2017 , 26, 2643-2650	2.3	12
12	Solvent Effects on Molecular Aggregation in 4-(5-Heptyl-1,3,4-thiadiazol-2-yl)benzene-1,3-diol and 4-(5-Methyl-1,3,4-thiadiazol-2-yl)benzene-1,3-diol. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 7958-69	3.4	18
11	Molecular Organization of Dipalmitoylphosphatidylcholine Bilayers Containing Bioactive Compounds 4-(5-Heptyl-1,3,4-thiadiazol-2-yl) Benzene-1,3-diol and 4-(5-Methyl-1,3,4-thiadiazol-2-yl) Benzene-1,3-diols. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12047-12063	3.4	25
10	Influence of Solvent Polarizability on the Keto-Enol Equilibrium in 4-[5-(naphthalen-1-ylmethyl)-1,3,4-thiadiazol-2-yl]benzene-1,3-diol. <i>Journal of Fluorescence</i> , 2015 , 25, 1867-74	2.4	17
9	Spectroscopic Studies of Dual Fluorescence in 2-((4-Fluorophenyl)amino)-5-(2,4-dihydroxybenzeno)-1,3,4-thiadiazole. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 10791-805	2.8	21
8	Lessons from chlorophylls: modifications of porphyrinoids towards optimized solar energy conversion. <i>Molecules</i> , 2014 , 19, 15938-54	4.8	30
7	On polymorphism of 2-(4-fluorophenylamino)-5-(2,4-dihydroxybenzeno)-1,3,4-thiadiazole (FABT) DMSO solvates. <i>CrystEngComm</i> , 2013 , 15, 1978	3.3	27
6	Effect of 2-(4-fluorophenylamino)-5-(2,4-dihydroxyphenyl)-1,3,4-thiadiazole on the molecular organisation and structural properties of the DPPC lipid multibilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 2850-9	3.8	18
5	Effect of magnetic field on seed germination and seedling growth of sunflower. <i>International Agrophysics</i> , 2012 , 26, 271-278	2	29
4	Spectroscopic studies of intramolecular proton transfer in 2-(4-fluorophenylamino)-5-(2,4-dihydroxybenzeno)-1,3,4-thiadiazole. <i>Journal of Fluorescence</i> , 2011 , 21, 1-10	2.4	15
3	Solvatomorphism of 2-(4-Fluorophenylamino)-5-(2,4-dihydroxybenzeno)-1,3,4-thiadiazole Chloride. <i>Crystal Growth and Design</i> , 2010 , 10, 3480-3488	3.5	29
2	Use of physicochemical, FTIR and chemometric analysis for quality assessment of selected monofloral honeys. <i>Journal of Apicultural Research</i> , 1-10	2	3
1	Spray drying of pure kiwiberry pulp in dehumidified air. <i>Drying Technology</i> , 1-15	2.6	2