

Mariusz Gagos

List of Publications by Citations

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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.

81
papers

1,327
citations

22
h-index

31
g-index

82
ext. papers

1,495
ext. citations

3.5
avg. IF

4.48
L-index

#	Paper	IF	Citations
81	Binding of antibiotic amphotericin B to lipid membranes: monomolecular layer technique and linear dichroism-FTIR studies. <i>Molecular Membrane Biology</i> , 2005 , 22, 433-42	3.4	66
80	Binding of antibiotic amphotericin B to lipid membranes: a 1H NMR study. <i>FEBS Letters</i> , 2006 , 580, 2677-88	3.8	57
79	Spectrophotometric analysis of organisation of dipalmitoylphosphatidylcholine bilayers containing the polyene antibiotic amphotericin B. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001 , 1511, 90-8	3.8	57
78	Dimers of polyene antibiotic amphotericin B detected by means of fluorescence spectroscopy: molecular organization in solution and in lipid membranes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2003 , 69, 49-57	6.7	55
77	Organization of antibiotic amphotericin B in model lipid membranes. A mini review. <i>Cellular and Molecular Biology Letters</i> , 2003 , 8, 161-70	8.1	49
76	Polyene antibiotic amphotericin B in monomolecular layers: spectrophotometric and scanning force microscopic analysis. <i>FEBS Letters</i> , 2002 , 524, 92-6	3.8	38
75	Effect of antibiotic amphotericin B on structural and dynamic properties of lipid membranes formed with egg yolk phosphatidylcholine. <i>Chemistry and Physics of Lipids</i> , 2007 , 147, 78-86	3.7	36
74	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
73	Spectroscopic studies of molecular organization of antibiotic amphotericin B in monolayers and dipalmitoylphosphatidylcholine lipid multibilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010 , 1798, 2124-30	3.8	33
72	FTIR spectroscopic study of molecular organization of the antibiotic amphotericin B in aqueous solution and in DPPC lipid monolayers containing the sterols cholesterol and ergosterol. <i>European Biophysics Journal</i> , 2012 , 41, 663-73	1.9	31
71	Amphotericin B-copper(II) complex as a potential agent with higher antifungal activity against <i>Candida albicans</i> . <i>European Journal of Pharmaceutical Sciences</i> , 2013 , 49, 850-7	5.1	30
70	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
69	Xanthohumol inhibits the extracellular signal regulated kinase (ERK) signalling pathway and suppresses cell growth of lung adenocarcinoma cells. <i>Toxicology</i> , 2016 , 357-358, 65-73	4.4	28
68	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
67	Anomalously high aggregation level of the polyene antibiotic amphotericin B in acidic medium: implications for the biological action. <i>Biophysical Chemistry</i> , 2008 , 136, 44-9	3.5	27
66	The molecular organization of prenylated flavonoid xanthohumol in DPPC multibilayers: X-ray diffraction and FTIR spectroscopic studies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013 , 1828, 213-22	3.8	26
65	A new look at the antibiotic amphotericin B effect on <i>Candida albicans</i> plasma membrane permeability and cell viability functions. <i>European Biophysics Journal</i> , 2015 , 44, 77-90	1.9	25

64	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
63	Xanthohumol inhibits cell cycle progression and proliferation of larynx cancer cells in vitro. <i>Chemico-Biological Interactions</i> , 2015 , 240, 110-8	5	23
62	Controlled Crystallization, Structure, and Molecular Properties of Iodoacetyl amphotericin B. <i>Crystal Growth and Design</i> , 2012 , 12, 2336-2345	3.5	23
61	Molecular organization of antifungal antibiotic amphotericin B in lipid monolayers studied by means of Fluorescence Lifetime Imaging Microscopy. <i>Biophysical Chemistry</i> , 2009 , 143, 95-101	3.5	23
60	Secondary structure and orientation of the pore-forming toxin lysenin in a sphingomyelin-containing membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 872-9	3.8	23
59	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
58	Effect of cholesterol and ergosterol on the antibiotic amphotericin B interactions with dipalmitoylphosphatidylcholine monolayers: X-ray reflectivity study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 2947-53	3.8	21
57	Molecular organization of antibiotic amphotericin B in dipalmitoylphosphatidylcholine monolayers induced by K(+) and Na(+) ions: the Langmuir technique study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 2706-13	3.8	21
56	Synergistic antifungal interactions of amphotericin B with 4-(5-methyl-1,3,4-thiadiazole-2-yl) benzene-1,3-diol. <i>Scientific Reports</i> , 2019 , 9, 12945	4.9	20
55	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
54	Influence of K+ and Na+ ions on the aggregation processes of antibiotic amphotericin B: electronic absorption and FTIR spectroscopic studies. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 3185-92	3.4	19
53	Spectroscopic studies of amphotericin B-Cu ^{II} complexes. <i>BioMetals</i> , 2011 , 24, 915-22	3.4	19
52	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
51	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
50	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
49	Raman spectroscopic study of aggregation process of antibiotic amphotericin B induced by H+, Na+, and K+ ions. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 5032-6	3.4	18
48	Organization of polyene antibiotic amphotericin B at the argon-water interface. <i>Biophysical Chemistry</i> , 2008 , 137, 110-5	3.5	18
47	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

46	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
45	Effectiveness of magnetic fluid hyperthermia against <i>Candida albicans</i> cells. <i>International Journal of Hyperthermia</i> , 2016 , 32, 842-857	3.7	16
44	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
43	Xanthohumol exhibits anti-myeloma activity in vitro through inhibition of cell proliferation, induction of apoptosis via the ERK and JNK-dependent mechanism, and suppression of sIL-6R and VEGF production. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2019 , 1863, 129408	4	14
42	Oxidized forms of polyene antibiotic amphotericin B. <i>Chemical Physics Letters</i> , 2014 , 598, 5-9	2.5	13
41	Interaction of ferredoxin:NADP ⁺ oxidoreductase with model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 133-42	3.8	12
40	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
39	Expression profiles of genes related to melatonin and oxidative stress in human renal proximal tubule cells treated with antibiotic amphotericin B and its modified forms. <i>Turkish Journal of Biology</i> , 2015 , 39, 856-864	3.1	11
38	In vitro evaluation of antifungal and cytotoxic activities as also the therapeutic safety of the oxidized form of amphotericin B. <i>Chemico-Biological Interactions</i> , 2016 , 256, 47-54	5	11
37	Prostate and breast cancer cells death induced by xanthohumol investigated with Fourier transform infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 231, 118112	4.4	10
36	Comparison of Analytical Methods in Chemometric Fingerprinting of Metallicolous and Non-metallicolous Populations of <i>Echium vulgare</i> L. <i>Phytochemical Analysis</i> , 2016 , 27, 239-48	3.4	10
35	Amphotericin B-copper(II) complex shows improved therapeutic index in vitro. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 97, 9-21	5.1	10
34	The Effect of Amphotericin B on the Lifespan, Body-surface Protein Concentrations, and DNA Methylation Levels of Honey Bees (<i>Apis mellifera</i>). <i>Journal of Apicultural Science</i> , 2012 , 56, 107-113	1.1	10
33	Acid-Base Properties of Xanthohumol: A Computational and Experimental Investigation. <i>Journal of Natural Products</i> , 2017 , 80, 3194-3202	4.9	9
32	ESIPT-Related Origin of Dual Fluorescence in the Selected Model 1,3,4-Thiadiazole Derivatives. <i>Molecules</i> , 2020 , 25,	4.8	9
31	Spectroscopic evidence for self-organization of N-iodoacetyl amphotericin B in crystalline and amorphous phases. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 12706-13	3.4	8
30	A kinetic study of xanthohumol cyclization to isoxanthohumol: A role of water. <i>Journal of Molecular Structure</i> , 2017 , 1139, 10-16	3.4	7
29	Antifungal effects of a 1,3,4-thiadiazole derivative determined by cytochemical and vibrational spectroscopic studies. <i>PLoS ONE</i> , 2019 , 14, e0222775	3.7	7

28	Effects of Ultrasound Technique on the Composition of Different Essential Oils. <i>Journal of Analytical Methods in Chemistry</i> , 2019 , 2019, 6782495	2	7
27	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
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	A new form of amphotericin B - the complex with copper (II) ions - downregulates sTNFR1 shedding and changes the activity of genes involved in TNF-induced pathways: AmB-Cu downregulates sTNFR1 shedding and changes the activity of genes involved in TNF-induced pathways.	3.9	7
24	Molecular organization of 2-(2,4-dihydroxyphenyl)-5,6-dichloro 1,3-benzothiazole in monomolecular layers formed with diphytanoylphosphatidylcholine: a linear dichroism-FTIR study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008 , 1778, 2520-5	3.8	7
23	Organization of two-component monomolecular layers formed with dipalmitoylphosphatidylcholine and the carotenoid pigment, canthaxanthin. <i>Molecular Membrane Biology</i> , 2007 , 24, 431-41	3.4	7
22	Stimulation with a 130-mT magnetic field improves growth and biochemical parameters in lupin (<i>Lupinus angustifolius</i> L.). <i>Turkish Journal of Biology</i> , 2016 , 40, 699-705	3.1	7
21	Effect of polyols on the DMPC lipid monolayers and bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 2166-2174	3.8	7
20	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
19	Catalytic effect of free iron ions and heme-iron on chromophore oxidation of a polyene antibiotic amphotericin B. <i>Journal of Molecular Structure</i> , 2016 , 1111, 69-75	3.4	6
18	Molecular organization of the antifungal and anticancer drug 2-(2,4-dihydroxyphenyl)-5,6-dichlorobenzothiazole in solution and in monolayers: an effect of pH. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2005 , 80, 101-6	6.7	5
17	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
16	Antibiotic amphotericin B/DPPC lipid complex: X-ray diffraction and FTIR studies. <i>Journal of Molecular Structure</i> , 2015 , 1080, 57-62	3.4	4
15	Molecular organization of the antifungal and anticancer drug 2-(2,4-dihydroxyphenyl)-5,6-dichlorobenzothiazole (dHBBT) in solution and in lipid membranes studied by means of electronic absorption spectroscopy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2004 , 75, 83-10	6.7	4
14	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
13	Cremophor EL Nano-Emulsion Monomerizes Chlorophyll in Water Medium. <i>Biomolecules</i> , 2019 , 9,	5.9	4
12	The influence of amphotericin B on the molecular organization and structural properties of DPPC lipid membranes modified by sterols. <i>Journal of Molecular Structure</i> , 2015 , 1082, 7-11	3.4	3
11	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

10	Effect of the Amphotericin B and Its Copper Complex on a Model of the Outer Leaflet of Human Erythrocyte Membrane. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 11191-11204	3.4	3
9	Amphotericin B-copper (II) complex alters transcriptional activity of genes encoding transforming growth factor-beta family members and related proteins in renal cells. <i>Pharmacological Reports</i> , 2017 , 69, 1308-1314	3.9	3
8	Cadmium inhibitory action leads to changes in structure of ferredoxin:NADP(+) oxidoreductase. <i>Journal of Biological Physics</i> , 2012 , 38, 415-28	1.6	3
7	Molecular organization of the antifungal and anticancer drug 2-(2,4-dihydroxyphenyl)-5,6-dichlorobenzothiazole (dHBBT) in solution and in lipid membranes studied by means of electronic absorption spectroscopy. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2004 , 76, 33-40	6.7	3
6	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
5	<i>Pseudomonas aeruginosa</i> alkaline protease exhibits a high renaturation capability. <i>Acta Biochimica Polonica</i> , 2019 , 66, 91-100	2	1
4	Influence of Silver Nanoparticles, Laser Light and Electromagnetic Stimulation of Seeds on Germination Rate and Photosynthetic Parameters in Pumpkin (<i>Cucurbita pepo</i> L.) Leaves. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2780	2.6	1
3	Differential expression of microRNAs and their predicted targets in renal cells exposed to amphotericin B and its complex with copper (II) ions. <i>Toxicology Mechanisms and Methods</i> , 2017 , 27, 537-543	2.6	3
2	Single Crystal X-ray Diffraction, Spectroscopic and Mass Spectrometric Studies of Furanocoumarin Peucedanin. <i>Natural Product Communications</i> , 2014 , 9, 1934578X1400900	0.9	
1	Effect of stearin and paraffin adulteration of beeswax on brood survival. <i>Apidologie</i> , 2021 , 52, 432-446	2.3	