Mariusz Gagos

List of Publications by Year in Descending Order

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	Influence of Silver Nanoparticles, Laser Light and Electromagnetic Stimulation of Seeds on Germination Rate and Photosynthetic Parameters in Pumpkin (Cucurbita pepo L.) Leaves. *Applied Sciences (Switzerland)*, **2021**, 11, 2780	2.6	1
80	Biodirected Synthesis of Silver Nanoparticles Using Aqueous Honey Solutions and Evaluation of Their Antifungal Activity against Pathogenic Spp. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
79	Effect of stearin and paraffin adulteration of beeswax on brood survival. *Apidologie*, **2021**, 52, 432-446	2.3	
78	Prostate and breast cancer cells death induced by xanthohumol investigated with Fourier transform infrared spectroscopy. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 231, 118112	4.4	10
77	ESIPT-Related Origin of Dual Fluorescence in the Selected Model 1,3,4-Thiadiazole Derivatives. *Molecules*, **2020**, 25,	4.8	9
76	Synergistic antifungal interactions of amphotericin B with 4-(5-methyl-1,3,4-thiadiazole-2-yl) benzene-1,3-diol. *Scientific Reports*, **2019**, 9, 12945	4.9	20
75	Antifungal effects of a 1,3,4-thiadiazole derivative determined by cytochemical and vibrational spectroscopic studies. *PLoS ONE*, **2019**, 14, e0222775	3.7	7
74	Effects of Ultrasound Technique on the Composition of Different Essential Oils. *Journal of Analytical Methods in Chemistry*, **2019**, 2019, 6782495	2	7
73	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. *Biochimica Et Biophysica Acta - General Subjects*, **2019**, 1863, 129408	4	14
72	Pseudomonas aeruginosa alkaline protease exhibits a high renaturation capability. *Acta Biochimica Polonica*, **2019**, 66, 91-100	2	1
71	Cremophor EL Nano-Emulsion Monomerizes Chlorophyll in Water Medium. *Biomolecules*, **2019**, 9,	5.9	4
70	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. *Journal of Luminescence*, **2018**, 201, 44-56	3.8	7
69	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. *Journal of Luminescence*, **2018**, 194, 208-218	3.8	6
68	Spectroscopic and Theoretical Studies of Fluorescence Effects in 2-Methylamino-5-(2,4-dihydroxyphenyl)-1,3,4-thiadiazole Induced by Molecular Aggregation. *Journal of Fluorescence*, **2018**, 28, 65-77	2.4	3
67	Interplay of Inter- and Intramolecular Interactions in Crystal Structures of 1,3,4-Thiadiazole Resorcinol Derivatives. *Crystal Growth and Design*, **2018**, 18, 3851-3862	3.5	7
66	Effect of polyols on the DMPC lipid monolayers and bilayers. *Biochimica Et Biophysica Acta - Biomembranes*, **2018**, 1860, 2166-2174	3.8	7
65	Spectroscopic studies of the quality of WCO (Waste Cooking Oil) fatty acid methyl esters. *BIO Web of Conferences*, **2018**, 10, 02019	0.4	5

64	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. *Journal of Physical Chemistry A*, **2017**, 121, 1402-1411	2.8	33
63	A kinetic study of xanthohumol cyclization to isoxanthohumol – A role of water. *Journal of Molecular Structure*, **2017**, 1139, 10-16	3.4	7
62	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. *Journal of Fluorescence*, **2017**, 27, 1201-1212	2.4	18
61	Differential expression of microRNAs and their predicted targets in renal cells exposed to amphotericin B and its complex with copper (II) ions. *Toxicology Mechanisms and Methods*, **2017**, 27, 537-543	3.6	
60	Amphotericin B-copper (II) complex alters transcriptional activity of genes encoding transforming growth factor-beta family members and related proteins in renal cells. *Pharmacological Reports*, **2017**, 69, 1308-1314	3.9	3
59	Acid-Base Properties of Xanthohumol: A Computational and Experimental Investigation. *Journal of Natural Products*, **2017**, 80, 3194-3202	4.9	9
58	Amphotericin B-copper(II) complex shows improved therapeutic index in vitro. *European Journal of Pharmaceutical Sciences*, **2017**, 97, 9-21	5.1	10
57	Isolation and spectroscopic characterization of Zn(II), Cu(II), and Pd(II) complexes of 1,3,4-thiadiazole-derived ligand. *Journal of Molecular Structure*, **2017**, 1128, 44-50	3.4	19
56	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. *Pharmacological Reports*, **2017**, 69, 22-28	3.9	7
55	Analysis of the physicochemical properties of post-manufacturing waste derived from production of methyl esters from rapeseed oil. *International Agrophysics*, **2017**, 31, 175-182	2	16
54	Microscopic and Spectroscopic Analyses of Selected Agricultural Formulations Containing Various nanostructures. *Polish Journal of Environmental Studies*, **2017**, 26, 1565-1573	2.3	2
53	Spectroscopic Studies of the Quality of Fatty Acid Methyl Esters Derived from Waste Cooking Oil. *Polish Journal of Environmental Studies*, **2017**, 26, 2643-2650	2.3	12
52	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. *Journal of Physical Chemistry B*, **2016**, 120, 7958-69	3.4	18
51	Comparison of Analytical Methods in Chemometric Fingerprinting of Metallicolous and Non-metallicolous Populations of Echium vulgare L. *Phytochemical Analysis*, **2016**, 27, 239-48	3.4	10
50	Effect of the Amphotericin B and Its Copper Complex on a Model of the Outer Leaflet of Human Erythrocyte Membrane. *Journal of Physical Chemistry B*, **2016**, 120, 11191-11204	3.4	3
49	Xanthohumol inhibits the extracellular signal regulated kinase (ERK) signalling pathway and suppresses cell growth of lung adenocarcinoma cells. *Toxicology*, **2016**, 357-358, 65-73	4.4	28
48	Catalytic effect of free iron ions and heme-iron on chromophore oxidation of a polyene antibiotic amphotericin B. *Journal of Molecular Structure*, **2016**, 1111, 69-75	3.4	6
47	Stimulation with a 130-mT magnetic field improves growth and biochemical parameters in lupin (Lupinus angustifolius L.). *Turkish Journal of Biology*, **2016**, 40, 699-705	3.1	7

46	In vitro evaluation of antifungal and cytotoxic activities as also the therapeutic safety of the oxidized form of amphotericin B. *Chemico-Biological Interactions*, **2016**, 256, 47-54	5	11
45	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. *Journal of Physical Chemistry B*, **2016**, 120, 12047-12063	3.4	25
44	Effectiveness of magnetic fluid hyperthermia against Candida albicans cells. *International Journal of Hyperthermia*, **2016**, 32, 842-857	3.7	16
43	A new look at the antibiotic amphotericin B effect on Candida albicans plasma membrane permeability and cell viability functions. *European Biophysics Journal*, **2015**, 44, 77-90	1.9	25
42	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. *Journal of Fluorescence*, **2015**, 25, 1867-74	2.4	17
41	Spectroscopic Studies of Dual Fluorescence in 2-((4-Fluorophenyl)amino)-5-(2,4-dihydroxybenzeno)-1,3,4-thiadiazole. *Journal of Physical Chemistry A*, **2015**, 119, 10791-805	2.8	21
40	Xanthohumol inhibits cell cycle progression and proliferation of larynx cancer cells in vitro. *Chemico-Biological Interactions*, **2015**, 240, 110-8	5	23
39	The influence of amphotericin B on the molecular organization and structural properties of DPPC lipid membranes modified by sterols. *Journal of Molecular Structure*, **2015**, 1082, 7-11	3.4	3
38	Antibiotic amphotericin B DPPC lipid complex: X-ray diffraction and FTIR studies. *Journal of Molecular Structure*, **2015**, 1080, 57-62	3.4	4
37	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. *Turkish Journal of Biology*, **2015**, 39, 856-864	3.1	11
36	Effect of cholesterol and ergosterol on the antibiotic amphotericin B interactions with dipalmitoylphosphatidylcholine monolayers: X-ray reflectivity study. *Biochimica Et Biophysica Acta - Biomembranes*, **2014**, 1838, 2947-53	3.8	21
35	Oxidized forms of polyene antibiotic amphotericin B. *Chemical Physics Letters*, **2014**, 598, 5-9	2.5	13
34	Single Crystal X-ray Diffraction, Spectroscopic and Mass Spectrometric Studies of Furanocoumarin Peucedanin. *Natural Product Communications*, **2014**, 9, 1934578X1400900	0.9	
33	On polymorphism of 2-(4-fluorophenylamino)-5-(2,4-dihydroxybenzeno)-1,3,4-thiadiazole (FABT) DMSO solvates. *CrystEngComm*, **2013**, 15, 1978	3.3	27
32	Amphotericin B-copper(II) complex as a potential agent with higher antifungal activity against Candida albicans. *European Journal of Pharmaceutical Sciences*, **2013**, 49, 850-7	5.1	30
31	The molecular organization of prenylated flavonoid xanthohumol in DPPC multibilayers: X-ray diffraction and FTIR spectroscopic studies. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 213-22	3.8	26
30	The Effect of Amphotericin B on the Lifespan, Body-surface Protein Concentrations, and DNA Methylation Levels of Honey Bees (Apis mellifera). *Journal of Apicultural Science*, **2012**, 56, 107-113	1.1	10
29	Controlled Crystallization, Structure, and Molecular Properties of Iodoacetylamphotericin B. *Crystal Growth and Design*, **2012**, 12, 2336-2345	3.5	23

28	Spectroscopic evidence for self-organization of N-iodoacetylamphotericin B in crystalline and amorphous phases. *Journal of Physical Chemistry B*, **2012**, 116, 12706-13	3.4	8
27	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. *European Biophysics Journal*, **2012**, 41, 663-73	1.9	31
26	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. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 2850-9	3.8	18
25	Cadmium inhibitory action leads to changes in structure of ferredoxin:NADP(+) oxidoreductase. *Journal of Biological Physics*, **2012**, 38, 415-28	1.6	3
24	Influence of K+ and Na+ ions on the aggregation processes of antibiotic amphotericin B: electronic absorption and FTIR spectroscopic studies. *Journal of Physical Chemistry B*, **2011**, 115, 3185-92	3.4	19
23	Molecular organization of antibiotic amphotericin B in dipalmitoylphosphatidylcholine monolayers induced by K(+) and Na(+) ions: the Langmuir technique study. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 2706-13	3.8	21
22	Spectroscopic studies of intramolecular proton transfer in 2-(4-fluorophenylamino)-5-(2,4-dihydroxybenzeno)-1,3,4-thiadiazole. *Journal of Fluorescence*, **2011**, 21, 1-10	2.4	15
21	Spectroscopic studies of amphotericin B-Cu□+ complexes. *BioMetals*, **2011**, 24, 915-22	3.4	19
20	Raman spectroscopic study of aggregation process of antibiotic amphotericin B induced by H+, Na+, and K+ ions. *Journal of Physical Chemistry B*, **2011**, 115, 5032-6	3.4	18
19	Solvatomorphism of 2-(4-Fluorophenylamino)-5-(2,4-dihydroxybenzeno)-1,3,4-thiadiazole Chloride. *Crystal Growth and Design*, **2010**, 10, 3480-3488	3.5	29
18	Spectroscopic studies of molecular organization of antibiotic amphotericin B in monolayers and dipalmitoylphosphatidylcholine lipid multibilayers. *Biochimica Et Biophysica Acta - Biomembranes*, **2010**, 1798, 2124-30	3.8	33
17	Molecular organization of antifungal antibiotic amphotericin B in lipid monolayers studied by means of Fluorescence Lifetime Imaging Microscopy. *Biophysical Chemistry*, **2009**, 143, 95-101	3.5	23
16	Interaction of ferredoxin:NADP+ oxidoreductase with model membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 133-42	3.8	12
15	Secondary structure and orientation of the pore-forming toxin lysenin in a sphingomyelin-containing membrane. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 872-9	3.8	23
14	Molecular organization of 2-(2,4-dihydroxylphenyl)-5,6-dichlor 1,3-benzothiazole in monomolecular layers formed with diphytanoylphosphatidylcholine: a linear dichroism-FTIR study. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 2520-5	3.8	7
13	Anomalously high aggregation level of the polyene antibiotic amphotericin B in acidic medium: implications for the biological action. *Biophysical Chemistry*, **2008**, 136, 44-9	3.5	27
12	Organization of polyene antibiotic amphotericin B at the argon-water interface. *Biophysical Chemistry*, **2008**, 137, 110-5	3.5	18
11	Effect of antibiotic amphotericin B on structural and dynamic properties of lipid membranes formed with egg yolk phosphatidylcholine. *Chemistry and Physics of Lipids*, **2007**, 147, 78-86	3.7	36

10	Organization of two-component monomolecular layers formed with dipalmitoylphosphatidylcholine and the carotenoid pigment, canthaxanthin. *Molecular Membrane Biology*, **2007**, 24, 431-41	3.4	7
9	Binding of antibiotic amphotericin B to lipid membranes: a 1H NMR study. *FEBS Letters*, **2006**, 580, 2677-88	3.4	57
8	Binding of antibiotic amphotericin B to lipid membranes: monomolecular layer technique and linear dichroism-FTIR studies. *Molecular Membrane Biology*, **2005**, 22, 433-42	3.4	66
7	Molecular organization of the antifungal and anticancer drug 2-(2,4-dihydroxyphenylo)-5,6-dichlorobenzothiazole in solution and in monolayers: an effect of pH. *Journal of Photochemistry and Photobiology B: Biology*, **2005**, 80, 101-6	6.7	5
6	Molecular organization of the antifungal and anticancer drug 2-(2,4-dihydroxyphenylo)-5,6-dichlorobenzothiazole (dHBBT) in solution and in lipid membranes studied by means of electronic absorption spectroscopy. *Journal of Photochemistry and Photobiology B: Biology*, **2004**, 76, 33-40	6.7	4
5	Molecular organization of the antifungal and anticancer drug 2-(2,4-dihydroxyphenylo)-5,6-dichlorobenzothiazole (dHBBT) in solution and in lipid membranes studied by means of electronic absorption spectroscopy. *Journal of Photochemistry and Photobiology B: Biology*, **2004**, 76, 33-40	6.7	3
4	Dimers of polyene antibiotic amphotericin B detected by means of fluorescence spectroscopy: molecular organization in solution and in lipid membranes. *Journal of Photochemistry and Photobiology B: Biology*, **2003**, 69, 49-57	6.7	55
3	Organization of antibiotic amphotericin B in model lipid membranes. A mini review. *Cellular and Molecular Biology Letters*, **2003**, 8, 161-70	8.1	49
2	Polyene antibiotic amphotericin B in monomolecular layers: spectrophotometric and scanning force microscopic analysis. *FEBS Letters*, **2002**, 524, 92-6	3.8	38
1	Spectrophotometric analysis of organisation of dipalmitoylphosphatidylcholine bilayers containing the polyene antibiotic amphotericin B. *Biochimica Et Biophysica Acta - Biomembranes*, **2001**, 1511, 90-8	3.8	57