

# P Balgavy

## List of Publications by Year in descending order

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76  
papers

1,597  
citations

304743

22  
h-index

315739

38  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1624  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cut-off effects in biological activities of surfactants. <i>Advances in Colloid and Interface Science</i> , 1996, 66, 23-63.	14.7	200
2	Bilayer thickness and lipid interface area in unilamellar extruded 1,2-diacylphosphatidylcholine liposomes: a small-angle neutron scattering study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2001, 1512, 40-52.	2.6	174
3	Areas of Monounsaturated Diacylphosphatidylcholines. <i>Biophysical Journal</i> , 2009, 97, 1926-1932.	0.5	94
4	Structural changes in dipalmitoylphosphatidylcholine bilayer promoted by Ca <sup>2+</sup> ions: a small-angle neutron scattering study. <i>Chemistry and Physics of Lipids</i> , 2008, 155, 80-89.	3.2	85
5	Stabilization of non-bilayer structures by the etherlipid ethanolamine plasmalogen. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1061, 132-140.	2.6	83
6	Cut-off Effect in Antimicrobial Activity and in Membrane Perturbation Efficiency of the Homologous Series of <i>N,N</i> -Dimethylalkylamine Oxides. <i>Journal of Pharmacy and Pharmacology</i> , 2011, 42, 790-794.	2.4	80
7	Influence of N-dodecyl-N,N-dimethylamine N-oxide on the activity of sarcoplasmic reticulum Ca <sup>2+</sup> -transporting ATPase reconstituted into diacylphosphatidylcholine vesicles: Effects of bilayer physical parameters. <i>Biophysical Chemistry</i> , 2006, 119, 69-77.	2.8	51
8	Component volumes of unsaturated phosphatidylcholines in fluid bilayers: a densitometric study. <i>Chemistry and Physics of Lipids</i> , 2007, 145, 97-105.	3.2	46
9	Effect of cholesterol on the bilayer thickness in unilamellar extruded DLPC and DOPC liposomes: SANS contrast variation study. <i>General Physiology and Biophysics</i> , 2004, 23, 113-28.	0.9	36
10	The interaction of $\beta_2$ -adrenoceptor blocking drugs with platelet aggregation, calcium displacement and fluidization of the membrane. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985, 821, 217-228.	2.6	35
11	Hydrophobic thickness, lipid surface area and polar region hydration in monounsaturated diacylphosphatidylcholine bilayers: SANS study of effects of cholesterol and $\beta_2$ -sitosterol in unilamellar vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 2627-2632.	2.6	34
12	Bilayer thickness in unilamellar extruded 1,2-dimyristoleoyl and 1,2-dierucoyl phosphatidylcholine vesicles: SANS contrast variation study of cholesterol effect. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 38, 11-14.	5.0	33
13	Interaction of gemini surfactants butane-1,4-diyl-bis(alkyldimethylammonium bromide) with DNA. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 42, 59-68.	5.0	33
14	Characterization of a novel K <sub>2</sub> CoMo/Al <sub>2</sub> O <sub>3</sub> water gas shift catalyst I. Laser Raman and infrared studies of oxidic precursors. <i>Journal of Catalysis</i> , 1988, 112, 93-106.	6.2	32
15	Effects of non-ionic surfactants N-alkyl-N,N-dimethylamine-N-oxides on the structure of a phospholipid bilayer: small-angle X-ray diffraction study. <i>Chemistry and Physics of Lipids</i> , 2004, 129, 31-41.	3.2	28
16	The structural diversity of DNA-neutral phospholipids-divalent metal cations aggregates: a small-angle synchrotron X-ray diffraction study. <i>European Biophysics Journal</i> , 2007, 36, 363-375.	2.2	28
17	The effect of aliphatic alcohols on fluid bilayers in unilamellar DOPC vesicles - A small-angle neutron scattering and molecular dynamics study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2136-2146.	2.6	28
18	Interaction of surfactants with model and biological membranes.. <i>Chemistry and Physics of Lipids</i> , 1990, 53, 231-241.	3.2	26

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19	A spin label study of the perturbation effect of tertiary amine anesthetics on brain lipid liposomes and synaptosomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1983, 732, 627-635.	2.6	25
20	Small-angle neutron scattering study of the n-decane effect on the bilayer thickness in extruded unilamellar dioleoylphosphatidylcholine liposomes. <i>Biophysical Chemistry</i> , 2000, 88, 165-170.	2.8	24
21	The effects of cholesterol and $\hat{1}^2$ -sitosterol on the structure of saturated diacylphosphatidylcholine bilayers. <i>European Biophysics Journal</i> , 2011, 40, 153-163.	2.2	24
22	The structure of DNAâ€™DLPCâ€™ cationic gemini surfactant aggregates: a small angle synchrotron X-ray diffraction study. <i>Biophysical Chemistry</i> , 2004, 111, 197-204.	2.8	22
23	Effect of N-alkyl-N,N,N-trimethylammonium ions on phosphatidylcholine model membrane structure as studied by $^{31}\text{P}$ -NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1984, 772, 58-64.	2.6	20
24	Molecular volumes of DOPC and DOPS in mixed bilayers of multilamellar vesicles. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18211-18216.	2.8	20
25	Influence of Cholesterol and $\hat{1}^2$ -Sitosterol on the Structure of EYPC Bilayers. <i>Journal of Membrane Biology</i> , 2011, 243, 1-13.	2.1	19
26	DNA condensation and its thermal stability influenced by phospholipid bilayer and divalent cations. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 86, 212-217.	5.0	18
27	Effects of gemini surfactants on egg phosphatidylcholine bilayers in the fluid lamellar phase. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 34, 161-164.	5.0	17
28	A spin label study of perturbation effects of N-(1-methyldodecyl)-N, N, N-trimethylammonium bromide and N-(1-methyldodecyl)-N, N-dimethylamine oxide on model membranes prepared from Escherichia coli-isolated lipids. <i>General Physiology and Biophysics</i> , 1989, 8, 133-56.	0.9	17
29	Spin label study of the perturbation effect of the local anaesthetics tetracaine and dibucaine on synaptosomes at pharmacological concentrations. <i>Biochemical Pharmacology</i> , 1987, 36, 3999-4005.	4.4	14
30	Effect of N-lauryl-N,N-dimethylamine N-oxide on dimyristoyl phosphatidylcholine bilayer thickness: a small-angle neutron scattering study. <i>General Physiology and Biophysics</i> , 1997, 16, 175-88.	0.9	14
31	Bilayer thickness in unilamellar phosphatidylcholine vesicles: small-angle neutron scattering using contrast variation. <i>Physica B: Condensed Matter</i> , 2004, 350, E639-E642.	2.7	13
32	Lipid bilayer â€™ DNA interaction mediated by divalent metal cations: SANS and SAXD study. <i>Journal of Physics: Conference Series</i> , 2012, 351, 012011.	0.4	13
33	Partial area of cholesterol in monounsaturated diacylphosphatidylcholine bilayers. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 765-770.	3.2	12
34	Interaction of the pyridoindole stobadine with alkoxy and stable free radicals. <i>Redox Report</i> , 1995, 1, 369-372.	4.5	11
35	Small-angle neutron scattering study of N-dodecyl-N,N-dimethylamine N-oxide induced solubilization of dioleoylphosphatidylcholine bilayers in liposomes. <i>General Physiology and Biophysics</i> , 2001, 20, 183-9.	0.9	11
36	Synchrotron SAX and WAX diffraction study of a hydrated very long-chain, dendritic amphiphile+DPPC mixture. <i>Colloids and Surfaces B: Biointerfaces</i> , 2007, 54, 160-164.	5.0	10

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37	Molecular and component volumes of saturated n-alkanols in DOPC+DOPS bilayers. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 498-505.	3.2	10
38	Interaction of [2-(alkyloxy)-phenyl]-2-(1-piperidinyl)ethyl esters of carbamic acid with dipalmitoylphosphatidylglycerol model membranes: a calorimetric study. <i>General Physiology and Biophysics</i> , 1993, 12, 357-70.	0.9	10
39	Effect of lipid autoperoxidation on the activity of the sarcoplasmic reticulum (Ca <sup>2+</sup> -Mg <sup>2+</sup> )ATPase reconstituted into egg yolk phosphatidylcholine bilayers. <i>General Physiology and Biophysics</i> , 1993, 12, 55-68.	0.9	10
40	Effects of N,N-dimethyl-N-alkylamine-N-oxides on DOPC bilayers in unilamellar vesicles: small-angle neutron scattering study. <i>European Biophysics Journal</i> , 2014, 43, 179-189.	2.2	9
41	Perturbation effect of local anaesthetics on synaptosomes: variation with depth of the spin label probe. <i>General Physiology and Biophysics</i> , 1984, 3, 327-37.	0.9	8
42	Interaction of long-chain n-alcohols with fluid DOPC bilayers: a neutron diffraction study. <i>General Physiology and Biophysics</i> , 2010, 29, 355-361.	0.9	7
43	Interaction of local anesthetic heptacaine homologs with phosphatidylcholine bilayers: spin label ESR study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1325, 189-196.	2.6	6
44	Biphasic effect of local anesthetic carbisocaine on fluidity of phosphatidylcholine bilayer. <i>Die Pharmazie</i> , 1992, 47, 444-8.	0.5	6
45	Calorimetric study of the interaction of local anesthetics and beta-blockers, [2-(alkyloxy)phenyl]-2-(1-piperidinyl)ethyl esters of carbamic acid, with dipalmitoylphosphatidylcholine liposomes. <i>Die Pharmazie</i> , 1992, 47, 873-4.	0.5	6
46	Proton chemical shifts in NMR spectra of diamagnetic metal-aminopolycarboxylate complexes. <i>Inorganica Chimica Acta</i> , 1980, 39, 233-235.	2.4	5
47	Effect of phase transitions in hydrated 1,2-dipalmitoylphosphatidylethanolamine bilayers on the spin probe order parameter. <i>FEBS Letters</i> , 1987, 224, 283-286.	2.8	5
48	Influence of local anesthetics on the phosphatidylcholine model membrane: small-angle synchrotron X-ray diffraction and neutron scattering study. <i>Biophysical Chemistry</i> , 2004, 109, 361-373.	2.8	5
49	The structural variety of DNA-DPPC-divalent metal cation aggregates: SAXD and SANS study. <i>European Physical Journal: Special Topics</i> , 2009, 167, 191-197.	2.6	5
50	Phase behavior of the DOPE + DOPC + alkanol system. <i>Soft Matter</i> , 2014, 10, 5842.	2.7	5
51	Study of interaction of long-chain n-alcohols with fluid DOPC bilayers by a lateral pressure sensitive fluorescence probe. <i>General Physiology and Biophysics</i> , 2012, 31, 225-227.	0.9	4
52	Molecular and component volumes of N,N-dimethyl-N-alkylamine N-oxides in DOPC bilayers. <i>Chemistry and Physics of Lipids</i> , 2014, 180, 1-6.	3.2	4
53	Partial volumes of cholesterol and monounsaturated diacylphosphatidylcholines in mixed bilayers. <i>Chemistry and Physics of Lipids</i> , 2015, 190, 1-8.	3.2	4
54	Partial molecular volumes of cholesterol and phosphatidylcholine in mixed bilayers. <i>European Pharmaceutical Journal</i> , 2017, 64, 1-3.	0.3	4

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55	Effect of alkan-1-ols on the structure of dopc model membrane. <i>European Pharmaceutical Journal</i> , 2017, 64, 4-8.	0.3	4
56	Partition of piperidinoethylesters of 2-alkyloxyphenylcarbamic acid in unilamellar phosphatidylcholine liposomes. <i>General Physiology and Biophysics</i> , 1992, 11, 269-72.	0.9	4
57	The lateral order of dipalmitoylphosphatidylcholine model membranes in the presence of N-alkyl-N,N,N-trimethylammonium ions as studied by Raman spectroscopy. <i>General Physiology and Biophysics</i> , 1988, 7, 633-42.	0.9	4
58	Mathematical model of the cut-off effect in the homologous series of tertiary amine local anesthetics. <i>Die Pharmazie</i> , 1993, 48, 446-50.	0.5	4
59	Effect of local anesthetic [2-(alkyloxy)phenyl]-2-(1-piperidiny)ethyl esters of carbamic acid on the activity of purified sarcoplasmic reticulum (Ca-Mg)ATPase. <i>Die Pharmazie</i> , 1996, 51, 242-5.	0.5	4
60	Effect of N,N-dimethylalkylamine N-oxides on the activity of purified sarcoplasmic reticulum (Ca-Mg)ATPase. <i>Die Pharmazie</i> , 1997, 52, 240-2.	0.5	4
61	Thymine dimer excision and DNA degradation after thymine starvation and ultraviolet irradiation in <i>Escherichia coli</i> B/r Hcr+. <i>Nucleic Acids and Protein Synthesis</i> , 1975, 390, 24-27.	1.7	3
62	Interaction of tertiary amine anesthetics with phosphatidylcholine bilayers. , 1993, , 184-185.		3
63	DOPC-DOPE composition dependent L $\alpha$ -HII thermotropic phase transition: SAXD study. <i>Chemistry and Physics of Lipids</i> , 2016, 198, 46-50.	3.2	3
64	Location of the general anesthetic n-decane in model membranes. <i>Journal of Molecular Liquids</i> , 2019, 276, 624-629.	4.9	3
65	Inhibition of Excision Repair without Influence upon UV-Sensitivity and UV-Mutability in <i>Escherichia coli</i> B/r Hcr+. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 1975, 30, 406-411.	1.4	2
66	Elimination of lethal and pre-mutational DNA lesions during the photoreactivation of UV-irradiated <i>Escherichia coli</i> . <i>Folia Microbiologica</i> , 1976, 21, 1-9.	2.3	2
67	Location of terminal methyl groups of acyl chains in the bilayer of unilamellar phosphatidylcholine liposomes: a <sup>13</sup> C-NMR study. <i>Chemistry and Physics of Lipids</i> , 1988, 47, 69-74.	3.2	2
68	Neutrons in studies of phospholipid bilayers and bilayerâ€“drug interaction. I. Basic principles and neutron diffraction. <i>Acta Facultatis Pharmaceuticae Universitatis Comenianae</i> , 2014, 61, 1-11.	0.2	2
69	Effect of potassium nitrate on photoreactivation of <i>Escherichia coli</i> cells. <i>Zeitschrift FÃ¼r Naturforschung Teil C: Biochemie, Biophysik, Biologie, Virologie</i> , 1973, 28, 757-60.	0.2	2
70	Effects of N-alkyl-N,N-dimethylamine-N-oxides on the activity of purified sarcoplasmic reticulum Ca(2+)-transporting ATPase. <i>Die Pharmazie</i> , 2005, 60, 135-7.	0.5	2
71	Role of post-replication and excision repair mechanism in the induction of Trp + revertants of UV-irradiated <i>Escherichia coli</i> . <i>Folia Microbiologica</i> , 1976, 21, 90-99.	2.3	1
72	Effect of subtransition in 1,2-dipalmitoylphosphatidylcholine model membrane on the spin probe motion. <i>FEBS Letters</i> , 1989, 255, 354-357.	2.8	1

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73	The need to revisit lipid areas. <i>Journal of Physics: Conference Series</i> , 2010, 251, 012043.	0.4	1
74	Neutrons in studies of phospholipid bilayers and bilayer-drug interaction. II. Small-angle scattering. <i>Acta Facultatis Pharmaceuticae Universitatis Comenianae</i> , 2014, 61, 12-20.	0.2	1
75	X-ray diffraction and neutron scattering studies of amphiphile-lipid bilayer organization. <i>Cellular and Molecular Biology Letters</i> , 2001, 6, 283-90.	7.0	1
76	The broth effect and mutation frequency decline in cells of <i>Escherichia coli</i> after irradiation with UV-light. <i>Folia Microbiologica</i> , 1976, 21, 342-354.	2.3	0