# P Balgavy

## List of Publications by Year in descending order

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| 76 | 1,597 | 304743 22 | 315739 38 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 77 | 77 | 77 | 1624 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Location of the general anesthetic n-decane in model membranes. Journal of Molecular Liquids, 2019, 276, 624-629. | 4.9 | 3 |
| 2 | Partial molecular volumes of cholesterol and phosphatidylcholine in mixed bilayers. European Pharmaceutical Journal, 2017, 64, 1-3. | 0.3 | 4 |
| 3 | Effect of alkan-1-ols on the structure of dopc model membrane. European Pharmaceutical Journal, 2017, 64, 4-8. | 0.3 | 4 |
| 4 | DOPC-DOPE composition dependent LÎ±-HII thermotropic phase transition: SAXD study. Chemistry and Physics of Lipids, 2016, 198, 46-50. | 3.2 | 3 |
| 5 | Partial volumes of cholesterol and monounsaturated diacylphosphatidylcholines in mixed bilayers. Chemistry and Physics of Lipids, 2015, 190, 1-8. | 3.2 | 4 |
| 6 | Neutrons in studies of phospholipid bilayers and bilayerâ€“drug interaction. I. Basic principles and neutron diffraction. Acta Facultatis Pharmaceuticae Universitatis Comenianae, 2014, 61, 1-11. | 0.2 | 2 |
| 7 | Neutrons in studies of phospholipid bilayers and bilayerâ€“drug interaction. II. Small-angle scattering. Acta Facultatis Pharmaceuticae Universitatis Comenianae, 2014, 61, 12-20. | 0.2 | 1 |
| 8 | Effects of N,N-dimethyl-N-alkylamine-N-oxides on DOPC bilayers in unilamellar vesicles: small-angle neutron scattering study. European Biophysics Journal, 2014, 43, 179-189. | 2.2 | 9 |
| 9 | Molecular volumes of DOPC and DOPS in mixed bilayers of multilamellar vesicles. Physical Chemistry Chemical Physics, 2014, 16, 18211-18216. | 2.8 | 20 |
| 10 | Phase behavior of the DOPE + DOPC + alkanol system. Soft Matter, 2014, 10, 5842. | 2.7 | 5 |
| 11 | Molecular and component volumes of N,N-dimethyl-N-alkylamine N-oxides in DOPC bilayers. Chemistry and Physics of Lipids, 2014, 180, 1-6. | 3.2 | 4 |
| 12 | Lipid bilayer â€“ DNA interaction mediated by divalent metal cations: SANS and SAXD study. Journal of Physics: Conference Series, 2012, 351, 012011. | 0.4 | 13 |
| 13 | Study of interaction of long-chain n-alcohols with fluid DOPC bilayers by aÂlateral pressure sensitive fluorescence probe. General Physiology and Biophysics, 2012, 31, 225-227. | 0.9 | 4 |
| 14 | Cut-off Effect in Antimicrobial Activity and in Membrane Perturbation Efficiency of the Homologous Series of N,N-Dimethylalkylamine Oxides. Journal of Pharmacy and Pharmacology, 2011, 42, 790-794. | 2.4 | 80 |
| 15 | The effect of aliphatic alcohols on fluid bilayers in unilamellar DOPC vesicles â€” A small-angle neutron scattering and molecular dynamics study. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 2136-2146. | 2.6 | 28 |
| 16 | Influence of Cholesterol and Î²-Sitosterol on the Structure of EYPC Bilayers. Journal of Membrane Biology, 2011, 243, 1-13. | 2.1 | 19 |
| 17 | The effects of cholesterol and Î²-sitosterol on the structure of saturated diacylphosphatidylcholine bilayers. European Biophysics Journal, 2011, 40, 153-163. | 2.2 | 24 |
| 18 | DNA condensation and its thermal stability influenced by phospholipid bilayer and divalent cations. Colloids and Surfaces B: Biointerfaces, 2011, 86, 212-217. | 5.0 | 18 |

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|---|---|---|---|
| 19 | The need to revisit lipid areas. Journal of Physics: Conference Series, 2010, 251, 012043. | 0.4 | 1 |
| 20 | Molecular and component volumes of saturated n-alkanols in DOPC+DOPS bilayers. Chemistry and Physics of Lipids, 2010, 163, 498-505. | 3.2 | 10 |
| 21 | Partial area of cholesterol in monounsaturated diacylphosphatidylcholine bilayers. Chemistry and Physics of Lipids, 2010, 163, 765-770. | 3.2 | 12 |
| 22 | Interaction of long-chain n-alcohols with fluid DOPC bilayers: a neutron diffraction study. General Physiology and Biophysics, 2010, 29, 355-361. | 0.9 | 7 |
| 23 | The structural variety of DNA-DPPC-divalent metal cation aggregates: SAXD and SANS study. European Physical Journal: Special Topics, 2009, 167, 191-197. | 2.6 | 5 |
| 24 | Areas of Monounsaturated Diacylphosphatidylcholines. Biophysical Journal, 2009, 97, 1926-1932. | 0.5 | 94 |
| 25 | Structural changes in dipalmitoylphosphatidylcholine bilayer promoted by Ca2+ ions: a small-angle neutron scattering study. Chemistry and Physics of Lipids, 2008, 155, 80-89. | 3.2 | 85 |
| 26 | Hydrophobic thickness, lipid surface area and polar region hydration in monounsaturated diacylphosphatidylcholine bilayers: SANS study of effects of cholesterol and Î²-sitosterol in unilamellar vesicles. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 2627-2632. | 2.6 | 34 |
| 27 | Synchrotron SAX and WAX diffraction study of a hydrated very long-chain, dendritic amphiphile+DPPC mixture. Colloids and Surfaces B: Biointerfaces, 2007, 54, 160-164. | 5.0 | 10 |
| 28 | Component volumes of unsaturated phosphatidylcholines in fluid bilayers: a densitometric study. Chemistry and Physics of Lipids, 2007, 145, 97-105. | 3.2 | 46 |
| 29 | The structural diversity of DNAâ€“neutral phospholipidsâ€“divalent metal cations aggregates: a small-angle synchrotron X-ray diffraction study. European Biophysics Journal, 2007, 36, 363-375. | 2.2 | 28 |
| 30 | Influence of N-dodecyl-N,N-dimethylamine N-oxide on the activity of sarcoplasmic reticulum Ca2+-transporting ATPase reconstituted into diacylphosphatidylcholine vesicles: Effects of bilayer physical parameters. Biophysical Chemistry, 2006, 119, 69-77. | 2.8 | 51 |
| 31 | Interaction of gemini surfactants butane-1,4-diyl-bis(alkyldimethylammonium bromide) with DNA. Colloids and Surfaces B: Biointerfaces, 2005, 42, 59-68. | 5.0 | 33 |
| 32 | Effects of N-alkyl-N,N-dimethylamine-N-oxides on the activity of purified sarcoplasmic reticulum Ca(2+)-transporting ATPase. Die Pharmazie, 2005, 60, 135-7. | 0.5 | 2 |
| 33 | 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. Chemistry and Physics of Lipids, 2004, 129, 31-41. | 3.2 | 28 |
| 34 | Bilayer thickness in unilamellar phosphatidylcholine vesicles: small-angle neutron scattering using contrast variation. Physica B: Condensed Matter, 2004, 350, E639-E642. | 2.7 | 13 |
| 35 | Effects of gemini surfactants on egg phosphatidylcholine bilayers in the fluid lamellar phase. Colloids and Surfaces B: Biointerfaces, 2004, 34, 161-164. | 5.0 | 17 |
| 36 | Bilayer thickness in unilamellar extruded 1,2-dimyristoleoyl and 1,2-dierucoyl phosphatidylcholine vesicles: SANS contrast variation study of cholesterol effect. Colloids and Surfaces B: Biointerfaces, 2004, 38, 11-14. | 5.0 | 33 |

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| 37 | Influence of local anesthetics on the phosphatidylcholine model membrane: small-angle synchrotron X-ray diffraction and neutron scattering study. Biophysical Chemistry, 2004, 109, 361-373. | 2.8 | 5 |
| 38 | The structure of DNAâ€“DLPCâ€“cationic gemini surfactant aggregates: a small angle synchrotron X-ray diffraction study. Biophysical Chemistry, 2004, 111, 197-204. | 2.8 | 22 |
| 39 | Effect of cholesterol on the bilayer thickness in unilamellar extruded DLPC and DOPC liposomes: SANS contrast variation study. General Physiology and Biophysics, 2004, 23, 113-28. | 0.9 | 36 |
| 40 | Bilayer thickness and lipid interface area in unilamellar extruded 1,2-diacylphosphatidylcholine liposomes: a small-angle neutron scattering study. Biochimica Et Biophysica Acta - Biomembranes, 2001, 1512, 40-52. | 2.6 | 174 |
| 41 | Small-angle neutron scattering study of N-dodecyl-N,N-dimethylamine N-oxide induced solubilization of dioleoylphosphatidylcholine bilayers in liposomes. General Physiology and Biophysics, 2001, 20, 183-9. | 0.9 | 11 |
| 42 | X-ray diffraction and neutron scattering studies of amphiphile-lipid bilayer organization. Cellular and Molecular Biology Letters, 2001, 6, 283-90. | 7.0 | 1 |
| 43 | Small-angle neutron scattering study of the n-decane effect on the bilayer thickness in extruded unilamellar dioleoylphosphatidylcholine liposomes. Biophysical Chemistry, 2000, 88, 165-170. | 2.8 | 24 |
| 44 | Interaction of local anesthetic heptacaine homologs with phosphatidylcholine bilayers: spin label ESR study. Biochimica Et Biophysica Acta - Biomembranes, 1997, 1325, 189-196. | 2.6 | 6 |
| 45 | Effect of N,N-dimethylalkylamine N-oxides on the activity of purified sarcoplasmic reticulum (Ca-Mg)ATPase. Die Pharmazie, 1997, 52, 240-2. | 0.5 | 4 |
| 46 | Effect of N-lauryl-N,N-dimethylamine N-oxide on dimyristoyl phosphatidylcholine bilayer thickness: a small-angle neutron scattering study. General Physiology and Biophysics, 1997, 16, 175-88. | 0.9 | 14 |
| 47 | Cut-off effects in biological activities of surfactants. Advances in Colloid and Interface Science, 1996, 66, 23-63. | 14.7 | 200 |
| 48 | Effect of local anesthetic [2-(alkyloxy)phenyl]-2-(1-piperidinyl)ethyl esters of carbamic acid on the activity of purified sarcoplasmic reticulum (Ca-Mg)ATPase. Die Pharmazie, 1996, 51, 242-5. | 0.5 | 4 |
| 49 | Interaction of the pyridoindole stobadine with alkoxyl and stable free radicals. Redox Report, 1995, 1, 369-372. | 4.5 | 11 |
| 50 | Interaction of tertiary amine anesthetics with phosphatidylcholine bilayers. , 1993, , 184-185. | | 3 |
| 51 | Interaction of [2-(alkyloxy)-phenyl]-2-(1-piperidinyl)ethyl esters of carbamic acid with dipalmitoylphosphatidylglycerol model membranes: a calorimetric study. General Physiology and Biophysics, 1993, 12, 357-70. | 0.9 | 10 |
| 52 | Mathematical model of the cut-off effect in the homologous series of tertiary amine local anesthetics. Die Pharmazie, 1993, 48, 446-50. | 0.5 | 4 |
| 53 | Effect of lipid autoperoxidation on the activity of the sarcoplasmic reticulum (Ca2+-Mg2+)ATPase reconstituted into egg yolk phosphatidylcholine bilayers. General Physiology and Biophysics, 1993, 12, 55-68. | 0.9 | 10 |
| 54 | Biphasic effect of local anesthetic carbisocaine on fluidity of phosphatidylcholine bilayer. Die Pharmazie, 1992, 47, 444-8. | 0.5 | 6 |

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|---|---|---|---|
| 55 | 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. Die Pharmazie, 1992, 47, 873-4. | 0.5 | 6 |
| 56 | Partition of piperidinoethylesters of 2-alkyloxyphenylcarbamic acid in unilamellar phosphatidylcholine liposomes. General Physiology and Biophysics, 1992, 11, 269-72. | 0.9 | 4 |
| 57 | Stabilization of non-bilayer structures by the etherlipid ethanolamine plasmalogen. Biochimica Et Biophysica Acta - Biomembranes, 1991, 1061, 132-140. | 2.6 | 83 |
| 58 | Interaction of surfactants with model and biological membranes.. Chemistry and Physics of Lipids, 1990, 53, 231-241. | 3.2 | 26 |
| 59 | Effect of subtransition in 1,2-dipalmitoylphosphatidylcholine model membrane on the spin probe motion. FEBS Letters, 1989, 255, 354-357. | 2.8 | 1 |
| 60 | 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. General Physiology and Biophysics, 1989, 8, 133-56. | 0.9 | 17 |
| 61 | Location of terminal methyl groups of acyl chains in the bilayer of unilamellar phosphatidylcholine liposomes: a 13C-NMR study. Chemistry and Physics of Lipids, 1988, 47, 69-74. | 3.2 | 2 |
| 62 | Characterization of a novel K$z.sbnd;Co$z.sbnd;Mo/Al2O3 water gas shift catalyst I. Laser Raman and infrared studies of oxidic precursors. Journal of Catalysis, 1988, 112, 93-106. | 6.2 | 32 |
| 63 | The lateral order of dipalmitoylphosphatidylcholine model membranes in the presence of N-alkyl-N,N,N-trimethylammonium ions as studied by Raman spectroscopy. General Physiology and Biophysics, 1988, 7, 633-42. | 0.9 | 4 |
| 64 | Spin label study of the perturbation effect of the local anaesthetics tetracaine and dibucaine on synaptosomes at pharmacological concentrations. Biochemical Pharmacology, 1987, 36, 3999-4005. | 4.4 | 14 |
| 65 | Effect of phase transitions in hydrated 1,2-dipalmitoylphosphatidylethanolamine bilayers on the spin probe order parameter. FEBS Letters, 1987, 224, 283-286. | 2.8 | 5 |
| 66 | The interaction of Î²-adrenoceptor blocking drugs with platelet aggregation, calcium displacement and fluidization of the membrane. Biochimica Et Biophysica Acta - Biomembranes, 1985, 821, 217-228. | 2.6 | 35 |
| 67 | Effect of N-alkyl-N,N,N-trimethylammonium ions on phosphatidylcholine model membrane structure as studied by 31P-NMR. Biochimica Et Biophysica Acta - Biomembranes, 1984, 772, 58-64. | 2.6 | 20 |
| 68 | Perturbation effect of local anaesthetics on synaptosomes: variation with depth of the spin label probe. General Physiology and Biophysics, 1984, 3, 327-37. | 0.9 | 8 |
| 69 | A spin label study of the perturbation effect of tertiary amine anesthetics on brain lipid liposomes and synaptosomes. Biochimica Et Biophysica Acta - Biomembranes, 1983, 732, 627-635. | 2.6 | 25 |
| 70 | Proton chemical shifts in NMR spectra of diamagnetic metal-aminopolycarboxylate complexes. Inorganica Chimica Acta, 1980, 39, 233-235. | 2.4 | 5 |
| 71 | The broth effect and mutation frequency decline in cells ofEscherichia coli after irradiation with UV-light. Folia Microbiologica, 1976, 21, 342-354. | 2.3 | 0 |
| 72 | Role of post-replication and excision repair mechanism in the induction ofTrp + revenants of UV-irradiatedEscherichia coli. Folia Microbiologica, 1976, 21, 90-99. | 2.3 | 1 |

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|---|---|---|---|
| 73 | Elimination of lethal and pre-mutational DNA lesions during the photoreactivation of UV-irradiatedEscherichia coli. Folia Microbiologica, 1976, 21, 1-9. | 2.3 | 2 |
| 74 | Inhibition of Excision Repair without Influence upon UV-Sensitivity and UV-Mutability in Escherichia coli B/r Hcr+. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1975, 30, 406-411. | 1.4 | 2 |
| 75 | Thymine dimer excision and DNA degradation after thymine starvation and ultraviolet irradiation in Escherichia coli B/r Hcr+. Nucleic Acids and Protein Synthesis, 1975, 390, 24-27. | 1.7 | 3 |
| 76 | Effect of potassium nitrate on photoreactivation of Escherichia coli cells. Zeitschrift FÃ¼r Naturforschung Teil C: Biochemie, Biophysik, Biologie, Virologie, 1973, 28, 757-60. | 0.2 | 2 |