

Charles Cranfield

List of Publications by Year in Descending Order

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Version: 2024-04-09

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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.

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|-------------------|-------------------------|----------------|-----------------|
| 58 papers | 938 citations | 18 h-index | 29 g-index |
| 68 ext. papers | 1,153 ext. citations | 3.8 avg, IF | 4.23 L-index |

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 58 | Preparing Ion Channel Switch Membrane-Based Biosensors. <i>Methods in Molecular Biology</i> , 2022 , 2402, 13-20 | 1.4 | |
| 57 | Langmuir-Schaefer Deposition to Create an Asymmetrical Lipopolysaccharide Sparsely Tethered Lipid Bilayer. <i>Methods in Molecular Biology</i> , 2022 , 2402, 21-30 | 1.4 | |
| 56 | Determining the Pore Size of Multimeric Peptide Ion Channels Using Cation Conductance Measures of Tethered Bilayer Lipid Membranes. <i>Methods in Molecular Biology</i> , 2022 , 2402, 81-92 | 1.4 | |
| 55 | A rationally designed synthetic antimicrobial peptide against Pseudomonas-associated corneal keratitis: Structure-function correlation. <i>Biophysical Chemistry</i> , 2022 , 106802 | 3.5 | 1 |
| 54 | Calcium Ion Binding at the Lipid-Water Interface Alters the Ion Permeability of Phospholipid Bilayers. <i>Langmuir</i> , 2021 , 37, 14026-14033 | 4 | 3 |
| 53 | Headspace analysis of E-cigarette fluids using comprehensive two dimensional GC/MS reveals the presence of volatile and toxic compounds. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021 , 196, 113930 | 3.5 | 1 |
| 52 | Mitochondrial uncoupler SHC517 reverses obesity in mice without affecting food intake. <i>Metabolism: Clinical and Experimental</i> , 2021 , 117, 154724 | 12.7 | 3 |
| 51 | Real-time monitoring of heat transfer between gold nanoparticles and tethered bilayer lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183334 | 3.8 | 3 |
| 50 | Effect of polar amino acid incorporation on Fmoc-diphenylalanine-based tetrapeptides. <i>Soft Matter</i> , 2020 , 16, 4800-4805 | 3.6 | 4 |
| 49 | Tethered Bilayer Lipid Membranes to Monitor Heat Transfer between Gold Nanoparticles and Lipid Membranes. <i>Journal of Visualized Experiments</i> , 2020 , | 1.6 | 1 |
| 48 | Role of Ion-Phospholipid Interactions in Zwitterionic Phospholipid Bilayer Ion Permeation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6353-6358 | 6.4 | 9 |
| 47 | The Role of Structure and Biophysical Properties in the Pleiotropic Effects of Statins. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 17 |
| 46 | Label-Free, Real-Time Phospholipase-A Isoform Assay. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 4714-4721 | 5.5 | 2 |
| 45 | Design, Synthesis and Biological Evaluation of Biphenylglyoxamide-Based Small Molecular Antimicrobial Peptide Mimics as Antibacterial Agents. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 3 |
| 44 | Structural Characterization of a Cation-Selective, Self-Assembled Peptide Pore in Planar Phospholipid Bilayers. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8152-8156 | 6.4 | 4 |
| 43 | Aryl urea substituted fatty acids: a new class of protonophoric mitochondrial uncoupler that utilises a synthetic anion transporter. <i>Chemical Science</i> , 2020 , 11, 12677-12685 | 9.4 | 8 |
| 42 | Neurological effects in the offspring after switching from tobacco cigarettes to e-cigarettes during pregnancy in a mouse model. <i>Toxicological Sciences</i> , 2019 , | 4.4 | 15 |

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| 41 | ABA/ASB Membrane Biophysics session II 2018. <i>Biophysical Reviews</i> , 2019 , 11, 281-282 | 3.7 | 1 |
| 40 | Competing for the same space: protons and alkali ions at the interface of phospholipid bilayers. <i>Biophysical Reviews</i> , 2019 , 11, 483-490 | 3.7 | 6 |
| 39 | A sponsorship action plan for increasing diversity in STEMM. <i>Ecology and Evolution</i> , 2019 , 9, 2340-2345 | 2.8 | 10 |
| 38 | The Use of Tethered Bilayer Lipid Membranes to Identify the Mechanisms of Antimicrobial Peptide Interactions with Lipid Bilayers. <i>Antibiotics</i> , 2019 , 8, | 4.9 | 30 |
| 37 | Decoupling the effects of hydrophilic and hydrophobic moieties at the neuron-nanofibre interface. <i>Chemical Science</i> , 2019 , 11, 1375-1382 | 9.4 | 4 |
| 36 | An examination of microcystin-LR accumulation and toxicity using tethered bilayer lipid membranes (tBLMs). <i>Toxicon</i> , 2019 , 158, 51-56 | 2.8 | 5 |
| 35 | Lipid Membrane Interactions of the Cationic Antimicrobial Peptide Chimeras Melimine and Cys-Melimine. <i>Langmuir</i> , 2018 , 34, 11586-11592 | 4 | 17 |
| 34 | Maternal E-Cigarette Exposure Results in Cognitive and Epigenetic Alterations in Offspring in a Mouse Model. <i>Chemical Research in Toxicology</i> , 2018 , 31, 601-611 | 4 | 78 |
| 33 | Design and synthesis of short amphiphilic cationic peptidomimetics based on biphenyl backbone as antibacterial agents. <i>European Journal of Medicinal Chemistry</i> , 2018 , 143, 1702-1722 | 6.8 | 20 |
| 32 | The effect of HO on the membrane morphology and hydrogen bonding of a phospholipid bilayer. <i>Biophysical Reviews</i> , 2018 , 10, 1371-1376 | 3.7 | 8 |
| 31 | Amphipathic guanidine-embedded glyoxamide-based peptidomimetics as novel antibacterial agents and biofilm disruptors. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 2033-2051 | 3.9 | 19 |
| 30 | Design, Synthesis and Biological Evaluation of N-Sulfonylphenyl glyoxamide-Based Antimicrobial Peptide Mimics as Novel Antimicrobial Agents. <i>ChemistrySelect</i> , 2017 , 2, 3452-3461 | 1.8 | 8 |
| 29 | Kalata B1 and Kalata B2 Have a Surfactant-Like Activity in Phosphatidylethanolamine-Containing Lipid Membranes. <i>Langmuir</i> , 2017 , 33, 6630-6637 | 4 | 24 |
| 28 | The effect of hydronium ions on the structure of phospholipid membranes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 20, 357-366 | 3.6 | 12 |
| 27 | Heterologously-expressed and Liposome-reconstituted Human Transient Receptor Potential Melastatin 4 Channel (TRPM4) is a Functional Tetramer. <i>Scientific Reports</i> , 2016 , 6, 19352 | 4.9 | 18 |
| 26 | Synthesis and biological evaluation of N-naphthoyl-phenylglyoxamide-based small molecular antimicrobial peptide mimics as novel antimicrobial agents and biofilm inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2016 , 14, 3623-37 | 3.9 | 23 |
| 25 | The Effect of Tethers on Artificial Cell Membranes: A Coarse-Grained Molecular Dynamics Study. <i>PLoS ONE</i> , 2016 , 11, e0162790 | 3.7 | 7 |
| 24 | Evidence of the Key Role of HO in Phospholipid Membrane Morphology. <i>Langmuir</i> , 2016 , 32, 10725-10734 | 4 | 27 |

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| 23 | Nanoscale ion sequestration to determine the polarity selectivity of ion conductance in carriers and channels. <i>Langmuir</i> , 2015 , 31, 292-8 | 4 | 14 |
| 22 | The assembly and use of tethered bilayer lipid membranes (tBLMs). <i>Methods in Molecular Biology</i> , 2015 , 1232, 45-53 | 1.4 | 23 |
| 21 | Transient potential gradients and impedance measures of tethered bilayer lipid membranes: pore-forming peptide insertion and the effect of electroporation. <i>Biophysical Journal</i> , 2014 , 106, 182-9 | 2.9 | 42 |
| 20 | An engineered membrane to measure electroporation: effect of tethers and bioelectronic interface. <i>Biophysical Journal</i> , 2014 , 107, 1339-51 | 2.9 | 20 |
| 19 | Screening the Insertion of Families of Bioactive Microbial Metabolites into Tethered Bilayer Lipid Membranes (TBLMS). <i>Biophysical Journal</i> , 2014 , 106, 294a | 2.9 | |
| 18 | Bacterial mechanosensitive channels: models for studying mechanosensory transduction. <i>Antioxidants and Redox Signaling</i> , 2014 , 20, 952-69 | 8.4 | 31 |
| 17 | Fluorescence Methods for Monitoring Mechanosensitive Channels 2014 , 425-432 | | 1 |
| 16 | Patch clamp electrophysiology for the study of bacterial ion channels in giant spheroplasts of E. coli. <i>Methods in Molecular Biology</i> , 2013 , 966, 367-80 | 1.4 | 23 |
| 15 | Differential effects of lipids and lyso-lipids on the mechanosensitivity of the mechanosensitive channels MscL and MscS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 8770-5 | 11.5 | 131 |
| 14 | Force from Lipids: A Multidisciplinary Approach to Study Bacterial Mechanosensitive Ion Channels 2012 , 1-33 | | 1 |
| 13 | Molecular recognition of the antiretroviral drug abacavir: towards the development of a novel carbazole-based fluorosensor. <i>Journal of Fluorescence</i> , 2011 , 21, 1195-204 | 2.4 | 2 |
| 12 | Synthesis and sensing properties of a new carbazole fluorosensor for detection of abacavir. <i>Supramolecular Chemistry</i> , 2010 , 22, 598-602 | 1.8 | 5 |
| 11 | Intracellular ion monitoring using a gold-core polymer-shell nanosensor architecture. <i>Nanotechnology</i> , 2010 , 21, 055501 | 3.4 | 11 |
| 10 | New strategies to measure intracellular sodium concentrations 2010 , | | 4 |
| 9 | Three-dimensional nonlinear optical endoscopy. <i>Journal of Biomedical Optics</i> , 2007 , 12, 040501 | 3.5 | 58 |
| 8 | Mechanical strains induced in osteoblasts by use of point femtosecond laser targeting. <i>International Journal of Biomedical Imaging</i> , 2006 , 2006, 10427 | 5.2 | 3 |
| 7 | High-speed fluorescence imaging and intensity profiling of femtosecond-induced calcium transients. <i>International Journal of Biomedical Imaging</i> , 2006 , 2006, 93438 | 5.2 | 2 |
| 6 | Nonlinear optical endoscopy based on a double-clad photonic crystal fiber and a MEMS mirror. <i>Optics Express</i> , 2006 , 14, 1027-32 | 3.3 | 114 |

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| 5 | Biogenic magnetite in the nematode caenorhabditis elegans. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004 , 271 Suppl 6, S436-9 | 4.4 | 19 |
| 4 | Exposure of magnetic bacteria to simulated mobile phone-type RF radiation has no impact on mortality. <i>IEEE Transactions on Nanobioscience</i> , 2003 , 2, 146-9 | 3.4 | 6 |
| 3 | Preliminary evaluation of nanoscale biogenic magnetite-based ferromagnetic transduction mechanisms for mobile phone bioeffects. <i>IEEE Transactions on Nanobioscience</i> , 2003 , 2, 40-3 | 3.4 | 8 |
| 2 | Effects of mobile phone type signals on calcium levels within human leukaemic T-cells (Jurkat cells). <i>International Journal of Radiation Biology</i> , 2001 , 77, 1207-17 | 2.9 | 26 |
| 1 | Structure and Physiological Role of Ion Channels Studied by Fluorescence Spectroscopy 2000 , 1-26 | | |