

# Henri G Franquelim

## List of Publications by Year in Descending Order

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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.

44  
papers

1,690  
citations

19  
h-index

41  
g-index

52  
ext. papers

1,999  
ext. citations

8.4  
avg, IF

4.77  
L-index

#	Paper	IF	Citations
44	3D printed protein-based robotic structures actuated by molecular motor assemblies. <i>Nature Materials</i> , <b>2022</b> , 21, 703-709	27	2
43	DNA Origami Voltage Sensors for Transmembrane Potentials with Single-Molecule Sensitivity. <i>Nano Letters</i> , <b>2021</b> , 21, 8634-8641	11.5	5
42	Probing Biomolecular Interactions by a Pattern-Forming Peptide-Conjugate Sensor. <i>Bioconjugate Chemistry</i> , <b>2021</b> , 32, 172-181	6.3	
41	Features of MOG required for recognition by patients with MOG antibody-associated disorders. <i>Brain</i> , <b>2021</b> , 144, 2375-2389	11.2	4
40	Reversible membrane deformations by straight DNA origami filaments. <i>Soft Matter</i> , <b>2021</b> , 17, 276-287	3.6	16
39	Non-Equilibrium Large-Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 6570-6576	3.6	
38	Non-Equilibrium Large-Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 6496-6502	16.4	4
37	Membrane-coated 3D architectures for bottom-up synthetic biology. <i>Soft Matter</i> , <b>2021</b> , 17, 5456-5466	3.6	1
36	Hydration Layer of Only a Few Molecules Controls Lipid Mobility in Biomimetic Membranes. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 14551-14562	16.4	4
35	Shaping Giant Membrane Vesicles in 3D-Printed Protein Hydrogel Cages. <i>Small</i> , <b>2020</b> , 16, e1906259	11	8
34	3D Printing: Shaping Giant Membrane Vesicles in 3D-Printed Protein Hydrogel Cages (Small 27/2020). <i>Small</i> , <b>2020</b> , 16, 2070151	11	
33	Synthetic cell division via membrane-transforming molecular assemblies. <i>BMC Biology</i> , <b>2019</b> , 17, 43	7.3	30
32	Design of Sealable Custom-Shaped Cell Mimicries Based on Self-Assembled Monolayers on CYTOP Polymer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 21372-21380	9.5	4
31	Optical manipulation of sphingolipid biosynthesis using photoswitchable ceramides. <i>ELife</i> , <b>2019</b> , 8,	8.9	12
30	Membrane sculpting by curved DNA origami scaffolds. <i>Nature Communications</i> , <b>2018</b> , 9, 811	17.4	105
29	Control of Membrane Binding and Diffusion of Cholesteryl-Modified DNA Origami Nanostructures by DNA Spacers. <i>Langmuir</i> , <b>2018</b> , 34, 14921-14931	4	23
28	Revolving around constriction by ESCRT-III. <i>Nature Cell Biology</i> , <b>2017</b> , 19, 754-756	23.4	2

27	Optical Control of Lipid Rafts with Photoswitchable Ceramides. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 12981-12986	16.4	46
26	Effect of anchor positioning on binding and diffusion of elongated 3D DNA nanostructures on lipid membranes. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 194001	3	24
25	DNA Nanostructures on Membranes as Tools for Synthetic Biology. <i>Biophysical Journal</i> , <b>2016</b> , 110, 1698-1707	17.0	62
24	Amphipathic DNA Origami Nanoparticles to Scaffold and Deform Lipid Membrane Vesicles. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 6601-6605	3.6	13
23	Amphipathic DNA origami nanoparticles to scaffold and deform lipid membrane vesicles. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 6501-5	16.4	73
22	Sucrose prevents protein fibrillation through compaction of the tertiary structure but hardly affects the secondary structure. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2015</b> , 83, 2039-51	4.2	13
21	Dps from <i>Deinococcus radiodurans</i> : oligomeric forms of Dps1 with distinct cellular functions and Dps2 involved in metal storage. <i>FEBS Journal</i> , <b>2015</b> , 282, 4307-27	5.7	20
20	Molecular mechanism of autophagic membrane-scaffold assembly and disassembly. <i>Cell</i> , <b>2014</b> , 156, 469-81	36.2	162
19	Antimicrobial protein rBPI21-induced surface changes on Gram-negative and Gram-positive bacteria. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 543-51	6	58
18	N-terminal AH2 segment of protein NS4B from hepatitis C virus. Binding to and interaction with model biomembranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2013</b> , 1828, 1938-52	3.8	8
17	The antimicrobial activity of Sub3 is dependent on membrane binding and cell-penetrating ability. <i>ChemBioChem</i> , <b>2013</b> , 14, 2013-22	3.8	43
16	Design and characterization of novel antimicrobial peptides, R-BP100 and RW-BP100, with activity against Gram-negative and Gram-positive bacteria. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2013</b> , 1828, 944-55	3.8	116
15	Decoding distinct membrane interactions of HIV-1 fusion inhibitors using a combined atomic force and fluorescence microscopy approach. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2013</b> , 1828, 1777-85	3.8	11
14	Extracellular alpha-synuclein oligomers modulate synaptic transmission and impair LTP via NMDA-receptor activation. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 11750-62	6.6	180
13	Antimicrobial properties of analgesic kyotorphin peptides unraveled through atomic force microscopy. <i>Biochemical and Biophysical Research Communications</i> , <b>2012</b> , 420, 676-9	3.4	17
12	Arginine-rich self-assembling peptides as potent antibacterial gels. <i>Biomaterials</i> , <b>2012</b> , 33, 8907-16	15.6	168
11	HIV vs. HIV: Turning HIV-Derived Peptides into Drugs <b>2011</b> , 209-229		1
10	Anti-HIV-1 antibodies 2F5 and 4E10 interact differently with lipids to bind their epitopes. <i>Aids</i> , <b>2011</b> , 25, 419-28	3.5	17

9	Cationic liposomes are possible drug-delivery systems for HIV fusion inhibitor sifuvirtide. <i>Soft Matter</i> , <b>2011</b> , 7, 11089	3.6	6
8	Decoding the membrane activity of the cyclotide kalata B1: the importance of phosphatidylethanolamine phospholipids and lipid organization on hemolytic and anti-HIV activities. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 24231-41	5.4	122
7	Escherichia coli cell surface perturbation and disruption induced by antimicrobial peptides BP100 and pepR. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 27536-44	5.4	169
6	Unravelling the molecular basis of the selectivity of the HIV-1 fusion inhibitor sifuvirtide towards phosphatidylcholine-rich rigid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2010</b> , 1798, 1234-43	3.8	28
5	Quantitative assessment of peptide-lipid interactions. Ubiquitous fluorescence methodologies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2010</b> , 1798, 1999-2012	3.8	54
4	Sifuvirtide screens rigid membrane surfaces. establishment of a correlation between efficacy and membrane domain selectivity among HIV fusion inhibitor peptides. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 6215-23	16.4	48
3	Molecular interaction studies of peptides using steady-state fluorescence intensity. Static (de)quenching revisited. <i>Journal of Peptide Science</i> , <b>2008</b> , 14, 401-6	2.1	9
2	Membrane-Mediated Self-Organization of Rod-Like DNA Origami on Supported Lipid Bilayers. <i>Advanced Materials Interfaces</i> , 2101094	4.6	0
1	Hydration layer of only few molecules controls lipid mobility in biomimetic membranes		1