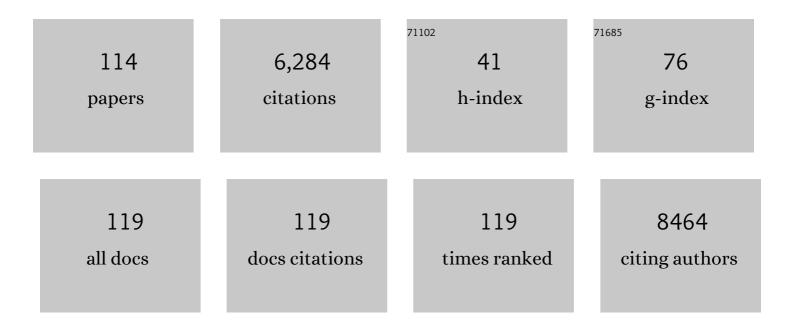
## **Dimitrios Stamou**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Molecular mechanism of formation of GPCR domains at the cell surface. Biophysical Journal, 2022, 121, 10a.	0.5	0
2	WASP integrates substrate topology and cell polarity to guide neutrophil migration. Journal of Cell Biology, 2022, 221, .	5.2	28
3	Pump, Rest and Repeat: Single Molecule Measurements Reveal Mode-Switching in the Mammalian Brain V-ATPase. Biophysical Journal, 2021, 120, 74a-75a.	0.5	0
4	Super-Resolving Membrane Geometry and Lipid Packing in Living Cells. Biophysical Journal, 2021, 120, 40a.	0.5	0
5	The WAVE complex associates with sites of saddle membrane curvature. Journal of Cell Biology, 2021, 220, .	5.2	36
6	Voices of chemical biology. Nature Chemical Biology, 2021, 17, 1-4.	8.0	7
7	How Membrane Geometry Regulates Protein Sorting Independently of Mean Curvature. ACS Central Science, 2020, 6, 1159-1168.	11.3	29
8	Superresolving the Membrane Topography of Live Cells. Biophysical Journal, 2020, 118, 187a.	0.5	0
9	Domains of Activated GPCRs Mediated by Membrane Curvature. Biophysical Journal, 2020, 118, 55a.	0.5	0
10	Quantitative investigation of negative membrane curvature sensing and generation by I-BARs in filopodia of living cells. Soft Matter, 2019, 15, 9829-9839.	2.7	15
11	Protons in small spaces: Discrete simulations of vesicle acidification. PLoS Computational Biology, 2019, 15, e1007539.	3.2	6
12	An Amphipathic Helix Directs Cellular Membrane Curvature Sensing and Function of the BAR Domain Protein PICK1. Cell Reports, 2018, 23, 2056-2069.	6.4	37
13	The 2018 biomembrane curvature and remodeling roadmap. Journal Physics D: Applied Physics, 2018, 51, 343001.	2.8	212
14	Single Proteoliposome High-Content Analysis Reveals Differences in the Homo-Oligomerization of GPCRs. Biophysical Journal, 2018, 115, 300-312.	0.5	19
15	Membrane curvature regulates ligand-specific membrane sorting of GPCRs in living cells. Nature Chemical Biology, 2017, 13, 724-729.	8.0	81
16	Live Cell Strategy for Detection of Curvature Dependent Sorting of Membrane Associated Proteins. Biophysical Journal, 2017, 112, 297a.	0.5	0
17	High Content Analysis of Intracellular Heterogeneity to Study GPCR Oligomerization. Biophysical Journal, 2017, 112, 88a.	0.5	0
18	Membrane Curvature and Lipid Composition Synergize To Regulate N-Ras Anchor Recruitment. Biophysical Journal, 2017, 113, 1269-1279.	0.5	26

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19	Resolving Active Ion Transport at the Single Molecule Level for the First Time. Biophysical Journal, 2016, 110, 179a.	0.5	0
20	tN-Ras, Synaptotagmin1 C2Ab, Annexinb12 and Amphiphysin NBAR can Discriminate Spherical from Cylindrical Membrane Curvature. Biophysical Journal, 2016, 110, 357a.	0.5	0
21	Direct observation of proton pumping by a eukaryotic P-type ATPase. Science, 2016, 351, 1469-1473.	12.6	81
22	Monitoring the Waiting Time Sequence of Single Ras GTPase Activation Events Using Liposome Functionalized Zero-Mode Waveguides. Nano Letters, 2016, 16, 2890-2895.	9.1	22
23	Links of Conformational Sampling to Functional Plasticity and Clinical Phenotypes by Single Molecule Studies. Biophysical Journal, 2016, 110, 397a.	0.5	0
24	N-RAS Lipid Anchor Adsorption to Membranes as a Function of Lipid Composition and Curvature. Biophysical Journal, 2016, 110, 579a.	0.5	1
25	Functional Analysis of Proton-Transporter at Single Molecule Level. Biophysical Journal, 2015, 108, 147a.	0.5	0
26	Development of a Fluorescence-Based Assay for Functional Studies of Transporter Proteins on the Single Molecule Level. Biophysical Journal, 2015, 108, 187a.	0.5	0
27	Single Molecule Activity Measurements of Cytochrome P450 Oxidoreductase Reveal the Existence of Two Discrete Functional States. Biophysical Journal, 2015, 108, 224a-225a.	0.5	0
28	Membrane Curvature Regulates the Localization of G Protein Coupled Receptors and Ras Isoforms. Biophysical Journal, 2015, 108, 95a-96a.	0.5	0
29	Membrane curvature enables N-Ras lipid anchor sorting to liquid-ordered membrane phases. Nature Chemical Biology, 2015, 11, 192-194.	8.0	108
30	Interferometric Detection of Single Gold Nanoparticles Calibrated against TEM Size Distributions. Small, 2015, 11, 3550-3555.	10.0	4
31	Membrane curvature bends the laws of physics and chemistry. Nature Chemical Biology, 2015, 11, 822-825.	8.0	75
32	CALM Regulates Clathrin-Coated Vesicle Size and Maturation by Directly Sensing and Driving Membrane Curvature. Developmental Cell, 2015, 33, 163-175.	7.0	187
33	Single Enzyme Experiments Reveal a Long-Lifetime Proton Leak State in a Heme-Copper Oxidase. Journal of the American Chemical Society, 2015, 137, 16055-16063.	13.7	42
34	Single Liposomes Used to Study the Activity of Individual Transporters. Biophysical Journal, 2014, 106, 229a.	0.5	0
35	Single Proteoliposome Assay to Monitor Opsin and Cannabinoid Gpcr Homo-Oligomerization. Biophysical Journal, 2014, 106, 103a-104a.	0.5	0
36	Single Molecule Activity Measurements of Cytochrome P450 Oxidoreductase Reveal the Existence of Two Discrete Functional States. ACS Chemical Biology, 2014, 9, 630-634.	3.4	55

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37	Geometrical Membrane Curvature as an Allosteric Regulator of Membrane Protein Structure and Function. Biophysical Journal, 2014, 106, 201-209.	0.5	44
38	Nanoscale high-content analysis using compositional heterogeneities of single proteoliposomes. Nature Methods, 2014, 11, 931-934.	19.0	64
39	Ras activation by SOS: Allosteric regulation by altered fluctuation dynamics. Science, 2014, 345, 50-54.	12.6	126
40	Sensing and Stiffening of Tubular Membranes by the Syndapin 1 FBAR. Biophysical Journal, 2014, 106, 714a.	0.5	0
41	How Membrane Curvature Drives the Up-Concentration of N-Ras Proteins to Ordered Lipid Domains : Correlation of In Vivo and In Vitro Experiments with Mean Field Theory Calculations and Coarse Grain Simulations. Biophysical Journal, 2014, 106, 713a.	0.5	Ο
42	Fractional Binding: A Molecular Analog-To-Digital Converter in Ca++ Regulated Vesicle Differentiation. Biophysical Journal, 2014, 106, 529a-530a.	0.5	0
43	Single vesicle biochips for ultra-miniaturized nanoscale fluidics and single molecule bioscience. Lab on A Chip, 2013, 13, 3613.	6.0	17
44	FBAR Syndapin 1 recognizes and stabilizes highly curved tubular membranes in a concentration dependent manner. Scientific Reports, 2013, 3, 1565.	3.3	55
45	A Computational Investigation of the Effect of Membrane Curvature on G-Protein Coupled Receptor Oligomerization. Biophysical Journal, 2013, 104, 114a.	0.5	Ο
46	Membrane-Sculpting BAR Domains Generate Stable Lipid Microdomains. Cell Reports, 2013, 4, 1213-1223.	6.4	134
47	Single Enzyme Studies Reveal the Existence of Discrete Functional States for Monomeric Enzymes and How they are "Selected―upon Allosteric Regulation. Biophysical Journal, 2013, 104, 231a.	0.5	Ο
48	Membrane Curvature Regulates the Oligomerization of Human $\hat{I}^22$ -Adrenergic Receptors. Biophysical Journal, 2013, 104, 42a.	0.5	3
49	Biochemical and Biophysical Studies of Membrane Deformation by Bar-Domain Proteins. Biophysical Journal, 2013, 104, 94a.	0.5	Ο
50	Lipid-Anchored Ras is Sorted by Membrane Curvature Both InÂVitro and in Living Cells. Biophysical Journal, 2013, 104, 96a.	0.5	0
51	Superresolution Inter-Surface Interaction Energy Mapping using Particle Tracking Microscopy (PTE). Biophysical Journal, 2013, 104, 503a.	0.5	0
52	Single Proton Pump Activity Measurements on Single Vesicles for a Quinol Heme-Copper Oxidase. Biophysical Journal, 2013, 104, 277a-278a.	0.5	3
53	Developing an Assay to Probe Activtion and Conformational Dynamics of β2-Adrenergic Receptor on Single Molecule Level. Biophysical Journal, 2013, 104, 61a.	0.5	4
54	Sorting of tN-Ras by Membrane Curvature in Lipid Vesicles and Tubes. Biophysical Journal, 2013, 104, 549a.	0.5	0

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55	PICK1 Deficiency Impairs Secretory Vesicle Biogenesis and Leads to Growth Retardation and Decreased Glucose Tolerance. PLoS Biology, 2013, 11, e1001542.	5.6	73
56	Molecular basis for SNX-BAR-mediated assembly of distinct endosomal sorting tubules. EMBO Journal, 2012, 31, 4466-4480.	7.8	157
57	Monitoring Shifts in the Conformation Equilibrium of the Membrane Protein Cytochrome P450 Reductase (POR) in Nanodiscs. Journal of Biological Chemistry, 2012, 287, 34596-34603.	3.4	59
58	Composition and structure of mixed phospholipid supported bilayers formed by POPC and DPPC. Soft Matter, 2012, 8, 5658.	2.7	77
59	Mixing subattolitre volumes in a quantitative and highly parallel manner with soft matter nanofluidics. Nature Nanotechnology, 2012, 7, 51-55.	31.5	57
60	Influence of the Preparation Route on the Supramolecular Organization of Lipids in a Vesicular System. Journal of the American Chemical Society, 2012, 134, 1918-1921.	13.7	68
61	Observation of Inhomogeneity in the Lipid Composition of Individual Nanoscale Liposomes. Biophysical Journal, 2012, 102, 426a.	0.5	2
62	Creating a Proteoliposome Assay for Single Photosystem I Activity Assessment. Biophysical Journal, 2012, 102, 626a-627a.	0.5	1
63	Soft Matter Based Nanofluidic Platform for Highly Parallel Mixing of Sub-Attoliter Total Volumes. Biophysical Journal, 2012, 102, 600a-601a.	0.5	Ο
64	Single Enzyme Studies Reveal the Existence of Discrete Functional States for Monomeric Enzymes and How They Are "Selected―upon Allosteric Regulation. Journal of the American Chemical Society, 2012, 134, 9296-9302.	13.7	38
65	Synergy of Liquid Ordered "Raft Like―Domains and Membrane Curvature in Promoting Sorting of Lipidated Proteins Such As NRas. Biophysical Journal, 2012, 102, 18a-19a.	0.5	0
66	Highly Accurate Quantification of the Oligomerization of the β2 Adrenergic Receptor using FRET. Biophysical Journal, 2012, 102, 232a-233a.	0.5	0
67	Cooperative All-Or-None Recruitment of Synaptotagmin C2AB on Single Vesicles Explains Why Ca2+ Regulates the Amplitude of SNARE Mediated Vesicle Fusion. Biophysical Journal, 2012, 102, 318a-319a.	0.5	Ο
68	Induced dye leakage by PAMAM G6 does not imply dendrimer entry into vesicle lumen. Soft Matter, 2012, 8, 8972.	2.7	26
69	Improving membrane binding as a design strategy for amphipathic peptide hormones: 2â€helix variants of PYY3â€36. Journal of Peptide Science, 2012, 18, 579-587.	1.4	7
70	Monitoring the Aggregation of Single Casein Micelles Using Fluorescence Microscopy. Langmuir, 2011, 27, 866-869.	3.5	9
71	Observation of Inhomogeneity in the Lipid Composition of Individual Nanoscale Liposomes. Journal of the American Chemical Society, 2011, 133, 10685-10687.	13.7	108
72	Regulation of Enzymatic Activity Occurs by Selection of Discrete Activity States. Biophysical Journal, 2011, 100, 194a.	0.5	0

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73	Single Vesicle Assaying of SNARE-Synaptotagmin-Driven Fusion Reveals Fast and Slow Modes of Both Docking and Fusion and Intrasample Heterogeneity. Biophysical Journal, 2011, 100, 957-967.	0.5	24
74	Intermembrane Docking Reactions Are Regulated by Membrane Curvature. Biophysical Journal, 2011, 101, 2693-2703.	0.5	10
75	Heat Profiling of Three-Dimensionally Optically Trapped Gold Nanoparticles using Vesicle Cargo Release. Nano Letters, 2011, 11, 888-892.	9.1	143
76	Fluorescence Anisotropy Based Single Liposome Assay to Measure Molecule–Membrane Interactions. Analytical Chemistry, 2011, 83, 8169-8176.	6.5	23
77	A structural analysis of M protein in coronavirus assembly and morphology. Journal of Structural Biology, 2011, 174, 11-22.	2.8	625
78	Membrane Curvature Sensing by Amphipathic Helices. Journal of Biological Chemistry, 2011, 286, 42603-42614.	3.4	108
79	Synapsin I Senses Membrane Curvature by an Amphipathic Lipid Packing Sensor Motif. Journal of Neuroscience, 2011, 31, 18149-18154.	3.6	38
80	Vesicle Arrays as Model-Membranes and Biochemical Reactor Systems. Biological and Medical Physics Series, 2011, , 87-112.	0.4	0
81	David versus Goliath. Nanomedicine: Nanotechnology, Biology, and Medicine, 2010, 6, 504-509.	3.3	3
82	BAR domains, amphipathic helices and membraneâ€anchored proteins use the same mechanism to sense membrane curvature. FEBS Letters, 2010, 584, 1848-1855.	2.8	79
83	Fully integrated monolithic optoelectronic transducer for real-time protein and DNA detection: The NEMOSLAB approach. Biosensors and Bioelectronics, 2010, 26, 1528-1535.	10.1	24
84	Membrane Curvature Induction and Tubulation Are Common Features of Synucleins and Apolipoproteins. Journal of Biological Chemistry, 2010, 285, 32486-32493.	3.4	278
85	Sensing-Applications of Surface-Based Single Vesicle Arrays. Sensors, 2010, 10, 11352-11368.	3.8	47
86	The Language of Shape: Biological Reactions are Dramatically Affected byÂthe Shape of Lipid Membranes. Biophysical Journal, 2010, 98, 618a.	0.5	0
87	Influence of Lipid Heterogeneity and Phase Behavior on Phospholipase A2 Action at the Single Molecule Level. Biophysical Journal, 2010, 98, 1873-1882.	0.5	48
88	A unifying mechanism accounts for sensing of membrane curvature by BAR domains, amphipathic helices and membrane-anchored proteins. Seminars in Cell and Developmental Biology, 2010, 21, 381-390.	5.0	99
89	Optically Induced Linking of Protein and Nanoparticles to Gold Surfaces. Bioconjugate Chemistry, 2010, 21, 1056-1061.	3.6	6
90	Quantification of nano-scale intermembrane contact areas by using fluorescence resonance energy transfer. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12341-12346.	7.1	64

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91	Amphipathic motifs in BAR domains are essential for membrane curvature sensing. EMBO Journal, 2009, 28, 3303-3314.	7.8	230
92	How curved membranes recruit amphipathic helices and protein anchoring motifs. Nature Chemical Biology, 2009, 5, 835-841.	8.0	352
93	Chemically Specific Laserâ`'Induced Patterning of Alkanethiol SAMs: Characterization by SEM and AFM. Langmuir, 2009, 25, 12819-12824.	3.5	17
94	Manipulating The Environment Of a Single Lipase Molecule. Biophysical Journal, 2009, 96, 28a.	0.5	0
95	Phase Transitions in Single Nano-Vesicles. Biophysical Journal, 2009, 96, 148a.	0.5	0
96	Constructing Size Distributions of Liposomes from Single-Object Fluorescence Measurements. Methods in Enzymology, 2009, 465, 143-160.	1.0	29
97	Screening the Sensing of Membrane Curvature by BAR domains on Single Liposome Arrays. Biophysical Journal, 2009, 96, 570a.	0.5	1
98	An Integrated Selfâ€Assembled Nanofluidic System for Controlled Biological Chemistries. Angewandte Chemie - International Edition, 2008, 47, 5544-5549.	13.8	144
99	Membrane Localization is Critical for Activation of the PICK1 BAR Domain. Traffic, 2008, 9, 1327-1343.	2.7	46
100	A Fluorescence-Based Technique to Construct Size Distributions from Single-Object Measurements: Application to the Extrusion of Lipid Vesicles. Biophysical Journal, 2008, 95, 1176-1188.	0.5	133
101	Templated Protein Assembly on Micro-Contact-Printed Surface Patterns. Use of the SNAP-tag Protein Functionality. Langmuir, 2008, 24, 6375-6381.	3.5	38
102	Encapsulation Efficiency Measured on Single Small Unilamellar Vesicles. Journal of the American Chemical Society, 2008, 130, 14372-14373.	13.7	87
103	Surface-based lipid vesicle reactor systems: fabrication and applications. Soft Matter, 2007, 3, 828.	2.7	122
104	Subnanometer Actuation of a Tethered Lipid Bilayer Monitored with Fluorescence Resonance Energy Transfer. Journal of the American Chemical Society, 2006, 128, 11328-11329.	13.7	14
105	Sample patterning on NMR surface microcoils. Journal of Magnetic Resonance, 2006, 178, 96-105.	2.1	24
106	Synthesis of Nanoscopic Optical Fibers Using Lipid Membranes as Templates. Angewandte Chemie - International Edition, 2005, 44, 4957-4960.	13.8	6
107	Site-Directed Molecular Assembly on Templates Structured with Electron-Beam Lithography. Langmuir, 2004, 20, 3495-3497.	3.5	15
108	Integrated Nanoreactor Systems:Â Triggering the Release and Mixing of Compounds Inside Single Vesicles. Journal of the American Chemical Society, 2004, 126, 8594-8595.	13.7	163

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109	Highly Fluorescent Streptavidin-Coated CdSe Nanoparticles:Â Preparation in Water, Characterization, and Micropatterning. Langmuir, 2004, 20, 3828-3831.	3.5	87
110	Self-Assembled Microarrays of Attoliter Molecular Vessels. Angewandte Chemie - International Edition, 2003, 42, 5580-5583.	13.8	198
111	Long-range attraction between colloidal spheres at the air-water interface: The consequence of an irregular meniscus. Physical Review E, 2000, 62, 5263-5272.	2.1	377
112	Self-assembling functionalized templates in biosensor technology. Polymer Bulletin, 1998, 40, 151-157.	3.3	4
113	Functionalisation of gold surfaces via topological templates. Tetrahedron, 1998, 54, 3725-3734.	1.9	16
114	Friction Anisotropy and Asymmetry of a Compliant Monolayer Induced by a Small Molecular Tilt. Science, 1998, 280, 273-275.	12.6	151