

# Salvatore Chiantia

## List of Publications by Year in descending order

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64  
papers

5,691  
citations

201385

27  
h-index

149479

56  
g-index

76  
all docs

76  
docs citations

76  
times ranked

8967  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ceramide Triggers Budding of Exosome Vesicles into Multivesicular Endosomes. <i>Science</i> , 2008, 319, 1244-1247.	6.0	2,800
2	Effect of Line Tension on the Lateral Organization of Lipid Membranes. <i>Journal of Biological Chemistry</i> , 2007, 282, 33537-33544.	1.6	352
3	Effects of Ceramide on Liquid-Ordered Domains Investigated by Simultaneous AFM and FCS. <i>Biophysical Journal</i> , 2006, 90, 4500-4508.	0.2	225
4	Combined AFM and Two-Focus SFCS Study of Raft-Exhibiting Model Membranes. <i>ChemPhysChem</i> , 2006, 7, 2409-2418.	1.0	197
5	Accurate Determination of Membrane Dynamics with Line-Scan FCS. <i>Biophysical Journal</i> , 2009, 96, 1999-2008.	0.2	166
6	Fluorescence correlation spectroscopy in membrane structure elucidation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 225-233.	1.4	137
7	Pore Formation by a Bax-Derived Peptide: Effect on the Line Tension of the Membrane Probed by AFM. <i>Biophysical Journal</i> , 2007, 93, 103-112.	0.2	128
8	Raft Domain Reorganization Driven by Short- and Long-Chain Ceramide: A Combined AFM and FCS Study. <i>Langmuir</i> , 2007, 23, 7659-7665.	1.6	112
9	Asymmetric GUVs Prepared by M <sup>12</sup> CD-Mediated Lipid Exchange: An FCS Study. <i>Biophysical Journal</i> , 2011, 100, L1-L3.	0.2	109
10	Acyl Chain Length and Saturation Modulate Interleaflet Coupling in Asymmetric Bilayers: Effects on Dynamics and Structural Order. <i>Biophysical Journal</i> , 2012, 103, 2311-2319.	0.2	109
11	pH-Controlled Two-Step Uncoating of Influenza Virus. <i>Biophysical Journal</i> , 2014, 106, 1447-1456.	0.2	106
12	Proving Lipid Rafts Exist: Membrane Domains in the Prokaryote <i>Borrelia burgdorferi</i> Have the Same Properties as Eukaryotic Lipid Rafts. <i>PLoS Pathogens</i> , 2013, 9, e1003353.	2.1	96
13	Role of ceramide in membrane protein organization investigated by combined AFM and FCS. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2008, 1778, 1356-1364.	1.4	87
14	Optimal fluorescent protein tags for quantifying protein oligomerization in living cells. <i>Scientific Reports</i> , 2018, 8, 10634.	1.6	80
15	Analysis of Prototype Foamy Virus particle-host cell interaction with autofluorescent retroviral particles. <i>Retrovirology</i> , 2010, 7, 45.	0.9	63
16	Influenza A Matrix Protein M1 Multimerizes upon Binding to Lipid Membranes. <i>Biophysical Journal</i> , 2014, 107, 912-923.	0.2	62
17	Dehydration Damage of Domain-Exhibiting Supported Bilayers: An AFM Study on the Protective Effects of Disaccharides and Other Stabilizing Substances. <i>Langmuir</i> , 2005, 21, 6317-6323.	1.6	54
18	Asymmetric Supported Lipid Bilayer Formation via Methyl- $\beta$ -Cyclodextrin Mediated Lipid Exchange: Influence of Asymmetry on Lipid Dynamics and Phase Behavior. <i>Langmuir</i> , 2014, 30, 7475-7484.	1.6	54

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19	Ceramide kinase regulates phospholipase C and phosphatidylinositol 4, 5, bisphosphate in phototransduction. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20063-20068.	3.3	45
20	Purely Polysaccharide-Based Biofilm Matrix Provides Size-Selective Diffusion Barriers for Nanoparticles and Bacteriophages. Biomacromolecules, 2019, 20, 3842-3854.	2.6	45
21	Supported Lipid Bilayers on Spacious and pH-Responsive Polymer Cushions with Varied Hydrophilicity. Journal of Physical Chemistry B, 2008, 112, 6373-6378.	1.2	41
22	Domain Orientation in the N-Terminal PDZ Tandem from PSD-95 Is Maintained in the Full-Length Protein. Structure, 2011, 19, 810-820.	1.6	41
23	Perfringolysin O Association with Ordered Lipid Domains: Implications for Transmembrane Protein Raft Affinity. Biophysical Journal, 2010, 99, 3255-3263.	0.2	38
24	Self-Segregation of Myelin Membrane Lipids in Model Membranes. Biophysical Journal, 2011, 101, 2713-2720.	0.2	38
25	Phosphatidylserine Lateral Organization Influences the Interaction of Influenza Virus Matrix Protein 1 with Lipid Membranes. Journal of Virology, 2017, 91, .	1.5	38
26	Direct evidence of amyloid precursor-like protein 1 trans interactions in cell-cell adhesion platforms investigated via fluorescence fluctuation spectroscopy. Molecular Biology of the Cell, 2017, 28, 3609-3620.	0.9	34
27	Cholesterol Slows down the Lateral Mobility of an Oxidized Phospholipid in a Supported Lipid Bilayer. Langmuir, 2010, 26, 17322-17329.	1.6	32
28	Selective Association of Outer Surface Lipoproteins with the Lipid Rafts of Borrelia burgdorferi. MBio, 2014, 5, e00899-14.	1.8	31
29	Sphingolipids and Membrane Domains: Recent Advances. Handbook of Experimental Pharmacology, 2013, , 33-55.	0.9	29
30	Structural determinants of the interaction between influenza A virus matrix protein M1 and lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 1123-1134.	1.4	25
31	Amyloid precursor-like protein 1 (APLP1) exhibits stronger zinc-dependent neuronal adhesion than amyloid precursor protein and APLP2. Journal of Neurochemistry, 2016, 137, 266-276.	2.1	23
32	A novel leaflet-selective fluorescence labeling technique reveals differences between inner and outer leaflets at high bilayer curvature. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1284-1290.	1.4	21
33	Asymmetry determines the effects of natural ceramides on model membranes. Soft Matter, 2009, 5, 3279.	1.2	20
34	Anti-HIV-1 antibodies 2F5 and 4E10 interact differently with lipids to bind their epitopes. Aids, 2011, 25, 419-428.	1.0	20
35	Lipid Phase Transition in Saccharide-Coated Chololate-Containing Liposomes: Coupling to the Surrounding Matrix. Langmuir, 2005, 21, 4108-4116.	1.6	19
36	Influenza A matrix protein M1 induces lipid membrane deformation via protein multimerization. Bioscience Reports, 2019, 39, .	1.1	19

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37	Cell cycle dependent changes in the plasma membrane organization of mammalian cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 350-359.	1.4	18
38	A Fluorescence Fluctuation Spectroscopy Assay of Protein-Protein Interactions at Cell-Cell Contacts. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	15
39	Self-association and subcellular localization of Puumala hantavirus envelope proteins. <i>Scientific Reports</i> , 2019, 9, 707.	1.6	15
40	Multicolor fluorescence fluctuation spectroscopy in living cells via spectral detection. <i>ELife</i> , 2021, 10, .	2.8	15
41	Mandipropamid as a chemical inducer of proximity for in vivo applications. <i>Nature Chemical Biology</i> , 2022, 18, 64-69.	3.9	15
42	±Env-decorated phosphatidylserine liposomes trigger phagocytosis of HIV-virus-like particles in macrophages. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, e981-e989.	1.7	14
43	Influenza A M2 recruits M1 to the plasma membrane: A fluorescence fluctuation microscopy study. <i>Biophysical Journal</i> , 2021, 120, 5478-5490.	0.2	13
44	Fluorescence microscopy methods for the study of protein oligomerization. <i>Progress in Molecular Biology and Translational Science</i> , 2020, 169, 1-41.	0.9	11
45	Effect of Erufosine on Membrane Lipid Order in Breast Cancer Cell Models. <i>Biomolecules</i> , 2020, 10, 802.	1.8	11
46	Time-controlled phagocytosis of asymmetric liposomes: Application to phosphatidylserine immunoliposomes binding HIV-1 virus-like particles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1985-1992.	1.7	10
47	Differentially-Charged Liposomes Interact with Alphaherpesviruses and Interfere with Virus Entry. <i>Pathogens</i> , 2020, 9, 359.	1.2	8
48	Detection of Envelope Glycoprotein Assembly from Old World Hantaviruses in the Golgi Apparatus of Living Cells. <i>Journal of Virology</i> , 2021, 95, .	1.5	7
49	Cholesterol and host cell surface proteins contribute to cell-cell fusion induced by the Burkholderia type VI secretion system 5. <i>PLoS ONE</i> , 2017, 12, e0185715.	1.1	7
50	Pantoea stewartii WceF is a glycan biofilm-modifying enzyme with a bacteriophage tailspike-like fold. <i>Journal of Biological Chemistry</i> , 2021, 296, 100286.	1.6	5
51	Self-assembly of a cholesteryl-modified nucleoside into tubular structures from giant unilamellar vesicles. <i>RSC Advances</i> , 2015, 5, 4502-4510.	1.7	4
52	Connectivity pattern modifies excited state relaxation dynamics of fluorophoreâ€“photoswitch molecular dyads. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4010-4018.	1.3	4
53	Lipid Bilayer Asymmetry. , 2013, , 1250-1253.		3
54	Characterization of Hantavirus N Protein Intracellular Dynamics and Localization. <i>Viruses</i> , 2022, 14, 457.	1.5	3

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55	Influenza A virus hemagglutinin prevents extensive membrane damage upon dehydration. <i>BBA Advances</i> , 2022, 2, 100048.	0.7	3
56	Spectral Detection Enables Multi-Color Fluorescence Fluctuation Spectroscopy Studies in Living Cells. <i>Biophysical Journal</i> , 2021, 120, 356a.	0.2	1
57	Protein-Lipid Interaction and Domain Formation in Asymmetric Membranes. <i>Biophysical Journal</i> , 2010, 98, 668a.	0.2	0
58	Inter-Leaflet Coupling and Domain Formation in Asymmetric Giant Unilamellar Vesicles. <i>Biophysical Journal</i> , 2012, 102, 295a.	0.2	0
59	Lipid Raft Formation and Properties are Necessary and Sufficient to Explain the Properties of Membrane Domains in <i>B. Burgdorferi</i> and are Necessary for its Membrane Integrity. <i>Biophysical Journal</i> , 2012, 102, 27a.	0.2	0
60	Role of M1 Self-Organization in Influenza Virus Assembly: A Combined Rics and AFM Study. <i>Biophysical Journal</i> , 2014, 106, 61a.	0.2	0
61	Asymmetry Determines the Effect of Ceramides on Model Membranes. In <i>Natural Membranes Too?</i> . <i>Biophysical Journal</i> , 2014, 106, 82a.	0.2	0
62	Mimicking Apoptosis using Asymmetric Liposomes: A Therapeutic Approach Against Hiv-1 Infection. <i>Biophysical Journal</i> , 2014, 106, 622a.	0.2	0
63	Direct Evidence of APLP1 Trans Interactions in Cell-Cell Adhesion Platforms Investigated via Fluorescence Fluctuation Spectroscopy. <i>Biophysical Journal</i> , 2018, 114, 373a.	0.2	0
64	Oligomerization and Nuclear Shuttling Dynamics of Viral Proteins Studied by Quantitative Molecular Brightness Analysis using Fluorescence Correlation Spectroscopy. <i>Biophysical Journal</i> , 2018, 114, 350a.	0.2	0