# Paola Brocca

List of Publications by Year
in descending order



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|---|---|---|---|
| 61 papers | 1,209 citations | 361413 20 h-index | 414414 32 g-index |
| 63 all docs | 63 docs citations | 63 times ranked | 1793 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Conformation of the Oligosaccharide Chain of GM1 Ganglioside in a Carbohydrate-Enriched Surface. Biophysical Journal, 1998, 74, 309-318. | 0.5 | 74 |
| 2 | Chitosan-coupled solid lipid nanoparticles: Tuning nanostructure and mucoadhesion. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 110, 13-18. | 4.3 | 57 |
| 3 | Sugar Mimics:Â An Artificial Receptor for Cholera Toxin. Journal of the American Chemical Society, 1999, 121, 2032-2036. | 13.7 | 52 |
| 4 | Mechanistic Understanding of Gene Delivery Mediated by Highly Efficient Multicomponent Envelope-Type Nanoparticle Systems. Molecular Pharmaceutics, 2013, 10, 4654-4665. | 4.6 | 52 |
| 5 | Hybrid Lipid/Polymer Nanoparticles for Pulmonary Delivery of siRNA: Development and Fate Upon In Vitro Deposition on the Human Epithelial Airway Barrier. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2018, 31, 170-181. | 1.4 | 52 |
| 6 | Self-assembly in glycolipids. Current Opinion in Colloid and Interface Science, 2007, 12, 148-154. | 7.4 | 51 |
| 7 | Structure of Self-Organized Multilayer Nanoparticles for Drug Delivery. Langmuir, 2008, 24, 11378-11384. | 3.5 | 47 |
| 8 | Metabolic Processing of Gangliosides by Human Fibroblasts in Culture - Formation and Recycling of Separate Pools of Sphingosine. FEBS Journal, 1997, 250, 661-669. | 0.2 | 42 |
| 9 | Niosomes as Drug Nanovectors: Multiscale pH-Dependent Structural Response. Langmuir, 2016, 32, 1241-1249. | 3.5 | 42 |
| 10 | Modeling ganglioside headgroups by conformational analysis and molecular dynamics. Glycoconjugate Journal, 2000, 17, 283-299. | 2.7 | 39 |
| 11 | Hybrid Lipid/Polymer Nanoparticles to Tackle the Cystic Fibrosis Mucus Barrier in siRNA Delivery to the Lungs: Does PEGylation Make the Difference?. ACS Applied Materials & Interfaces, 2022, 14, 7565-7578. | 8.0 | 37 |
| 12 | Structural Basis for the Resistance of Tay-Sachs Ganglioside GM2 to Enzymatic Degradation. Journal of Biological Chemistry, 1999, 274, 10014-10018. | 3.4 | 33 |
| 13 | Structural aspects of ganglioside-containing membranes. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 202-208. | 2.6 | 33 |
| 14 | Doxycycline hinders phenylalanine fibril assemblies revealing a potential novel therapeutic approach in phenylketonuria. Scientific Reports, 2015, 5, 15902. | 3.3 | 33 |
| 15 | Shape Fluctuations of Large Unilamellar Lipid Vesicles Observed by Laser Light Scattering:Â Influence of the Small-Scale Structure. Langmuir, 2004, 20, 2141-2148. | 3.5 | 32 |
| 16 | PEGylated mucus-penetrating nanocrystals for lung delivery of a new FtsZ inhibitor against Burkholderia cenocepacia infection. Nanomedicine: Nanotechnology, Biology, and Medicine, 2020, 23, 102113. | 3.3 | 32 |
| 17 | AmyloidÎ² Peptides in interaction with raft-mime model membranes: a neutron reflectivity insight. Scientific Reports, 2016, 6, 20997. | 3.3 | 31 |
| 18 | Ganglioside GM1 forces the redistribution of cholesterol in a biomimetic membrane. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2860-2867. | 2.6 | 30 |

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|---|---|---|---|
| 19 | Molecular Dynamics Simulation of a GM3 Ganglioside Bilayer. Journal of Physical Chemistry B, 2004, 108, 20322-20330. | 2.6 | 24 |
| 20 | Nuclear Overhauser effect investigation on GM1 ganglioside containingN-glycolyl-neuraminic acid (II3Neu5GcGgOse4Cer). Glycoconjugate Journal, 1996, 13, 57-62. | 2.7 | 22 |
| 21 | Direct comparison of elastic incoherent neutron scattering experiments with molecular dynamics simulations of DMPC phase transitions. European Physical Journal E, 2016, 39, 48. | 1.6 | 20 |
| 22 | Novel O/W nanoemulsions for nasal administration: Structural hints in the selection of performing vehicles with enhanced mucopenetration. Colloids and Surfaces B: Biointerfaces, 2019, 183, 110439. | 5.0 | 20 |
| 23 | 1H-NMR study on ganglioside amide protons: evidence that the deuterium exchange kinetics are affected by the preparation of samples. Glycoconjugate Journal, 1993, 10, 441-446. | 2.7 | 17 |
| 24 | Aggregation properties of semisynthetic GD1a ganglioside (IV3Neu5ACII3Neu5AcGgOse4Cer) containing an acetyl group as acyl moiety. Chemistry and Physics of Lipids, 1995, 77, 41-49. | 3.2 | 17 |
| 25 | Nanoscale structure of protamine/DNA complexes for gene delivery. Applied Physics Letters, 2013, 102, . | 3.3 | 16 |
| 26 | Pathogenic AÎ² A2V versus protective AÎ² A2T mutation: Early stage aggregation and membrane interaction. Biophysical Chemistry, 2017, 229, 11-18. | 2.8 | 16 |
| 27 | Building a biomimetic membrane for neutron reflectivity investigation: Complexity, asymmetry and contrast. Biophysical Chemistry, 2017, 229, 135-141. | 2.8 | 16 |
| 28 | Decoration of Nanovesicles with pH (Low) Insertion Peptide (pHLIP) for Targeted Delivery. Nanoscale Research Letters, 2018, 13, 391. | 5.7 | 16 |
| 29 | Structural insights into fusion mechanisms of small extracellular vesicles with model plasma membranes. Nanoscale, 2021, 13, 5224-5233. | 5.6 | 16 |
| 30 | Multilevel structuring of ganglioside-containing aggregates: From simple micelles to complex biomimetic membranes. Advances in Colloid and Interface Science, 2014, 205, 177-186. | 14.7 | 15 |
| 31 | Intermicellar Interactions May Induce Anomalous Size Behavior in Micelles Carrying out Bulky Heads with Multiple Spatial Arrangements. Langmuir, 2007, 23, 3067-3074. | 3.5 | 14 |
| 32 | Short-Range Structure of a GM3 Ganglioside Membrane:â€‰Comparison between Experimental WAXS and Computer Simulation Results. Journal of Physical Chemistry B, 2007, 111, 10965-10969. | 2.6 | 14 |
| 33 | Isolation and Structural Characterization of N-Acetyl- and N-Glycolylneuraminic-Acid-Containing GalNAc-GD1a Isomers, IV4GalNAcIV3Neu5AcII3Neu5GcGgOse4Cer and IV4GalNAcIV3Neu5AcII3Neu5AcGgOse4Cer, from Bovine Brain. FEBS Journal, 1995, 234, 786-793. | 0.2 | 13 |
| 34 | Nanoscale structural response of gangliosideâ€containing aggregates to the interaction with sialidase. Journal of Neurochemistry, 2011, 116, 833-839. | 3.9 | 13 |
| 35 | Directional K+ channel insertion in a single phospholipid bilayer: Neutron reflectometry and electrophysiology in the joint exploration of a model membrane functional platform. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1742-1750. | 2.4 | 13 |
| 36 | Collective phenomena in confined micellar systems of gangliosides. Physica A: Statistical Mechanics and Its Applications, 2002, 304, 177-190. | 2.6 | 12 |

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|---|---|---|---|
| 37 | Neutrons for rafts, rafts for neutrons. European Physical Journal E, 2013, 36, 73. | 1.6 | 12 |
| 38 | Curved single-bilayers in the region of the anomalous swelling: Effect of curvature and chain length. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 291, 63-68. | 4.7 | 11 |
| 39 | Microscopic Structure of Phospholipid Bilayers:Â Comparison between Molecular Dynamics Simulations and Wide-Angle X-ray Spectra. Journal of Physical Chemistry B, 2007, 111, 2484-2489. | 2.6 | 11 |
| 40 | What the cell surface does not see: The gene vector under the protein corona. Colloids and Surfaces B: Biointerfaces, 2016, 141, 170-178. | 5.0 | 11 |
| 41 | Headgroup and chain melting transition in dispersed bilayers of GM3 ganglioside. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 259, 125-133. | 4.7 | 10 |
| 42 | Mucin Thin Layers: A Model for Mucus-Covered Tissues. International Journal of Molecular Sciences, 2019, 20, 3712. | 4.1 | 10 |
| 43 | Thermal fluctuations of small vesicles: observation by dynamic light scattering. , 2000, , 181-185. | | 10 |
| 44 | Dynamics of ganglioside micellar solutions by quasielastic neutron scattering. Physica B: Condensed Matter, 2004, 350, E619-E622. | 2.7 | 9 |
| 45 | Lamellar Stacking Split by In-Membrane Clustering of Bulky Glycolipids. Langmuir, 2009, 25, 4190-4197. | 3.5 | 7 |
| 46 | Protein Adsorption at the Airâ€“Water Interface by a Charge Sensing Interferometric Technique. Langmuir, 2019, 35, 16087-16100. | 3.5 | 6 |
| 47 | DC13PC bilayers from anomalous swelling to main transition: An X-ray scattering investigation. Journal of Colloid and Interface Science, 2007, 312, 34-41. | 9.4 | 5 |
| 48 | Transient Step-Like Kinetics of Enzyme Reaction on Fragmented-Condensed Substrates. Journal of Physical Chemistry B, 2012, 116, 9570-9579. | 2.6 | 5 |
| 49 | Membrane restructuring following in situ sialidase digestion of gangliosides: Complex model bilayers by synchrotron radiation reflectivity. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 845-851. | 2.6 | 5 |
| 50 | Interferometric investigation of the gas-state monolayer of mono-rhamnolipid adsorbing at an oil/water interface. Journal of Molecular Liquids, 2018, 266, 687-691. | 4.9 | 5 |
| 51 | Cooperative behavior of ganglioside molecules in model systems. Neurochemical Research, 2002, 27, 559-563. | 3.3 | 4 |
| 52 | Hierarchical Ordering of Sugar Based Amphiphiles. Molecular Crystals and Liquid Crystals, 2009, 500, 155-165. | 0.9 | 4 |
| 53 | Optimizing the Crowding Strategy: Sugar-Based Ionic Micelles in the Dilute-to-Condensed Regime. Langmuir, 2014, 30, 9157-9164. | 3.5 | 4 |
| 54 | Water response to ganglioside GM1 surface remodelling. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3573-3580. | 2.4 | 4 |

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|---|---|---|---|
| 55 | Carbohydrate-carbohydrate interaction drives the preferential insertion of dirhamnolipid into glycosphingolipid enriched membranes. Journal of Colloid and Interface Science, 2022, 616, 739-748. | 9.4 | 4 |
| 56 | Interferometric detection of hydrodynamic bubbleâ€“bubble interactions. Journal of Fluid Mechanics, 2022, 942, . | 3.4 | 4 |
| 57 | The Structural Basis for the Susceptibility of Gangliosides to Enzymatic Degradation. Bioscience Reports, 1999, 19, 163-168. | 2.4 | 2 |
| 58 | Calorimetry of extracellular vesicles fusion to single phospholipid membrane. Biomolecular Concepts, 2022, 13, 148-155. | 2.2 | 2 |
| 59 | Some Structural Features of Cluster-Coordinating Cysteines of Clostridium pasteurianum Ferredoxin Are Revealed by 2D TOCSY 1H NMR on the Oxidized Protein. Biochemical and Biophysical Research Communications, 1994, 202, 591-595. | 2.1 | 1 |
| 60 | Scattering Techniques and Ganglioside Aggregates: Laser Light, Neutron, and X-Ray Scattering. Methods in Molecular Biology, 2018, 1804, 57-82. | 0.9 | 0 |
| 61 | Correction: Structural insights into fusion mechanisms of small extracellular vesicles with model plasma membranes. Nanoscale, 2021, 13, 13158-13158. | 5.6 | 0 |