# Silvina Matysiak

List of Publications by Year
in descending order



| 40 | 1,034 | 516215 16 | 414034 32 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 41 | 41 | 41 | 1263 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Dynamics of Polymer Translocation through Nanopores: Theory Meets Experiment. Physical Review Letters, 2006, 96, 118103. | 2.9 | 119 |
| 2 | Balancing energy and entropy: A minimalist model for the characterization of protein folding landscapes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10141-10146. | 3.3 | 96 |
| 3 | Mesoporous Encapsulated Chiral Nanogold for Use in Enantioselective Reactions. Angewandte Chemie - International Edition, 2018, 57, 16791-16795. | 7.2 | 91 |
| 4 | Adaptive resolution simulation of liquid water. Journal of Physics Condensed Matter, 2007, 19, 292201. | 0.7 | 85 |
| 5 | Effect of pH on chitosan hydrogel polymer network structure. Chemical Communications, 2017, 53, 7373-7376. | 2.2 | 69 |
| 6 | Optimal Combination of Theory and Experiment for the Characterization of the Protein Folding Landscape of S6: How Far Can a Minimalist Model Go?. Journal of Molecular Biology, 2004, 343, 235-248. | 2.0 | 64 |
| 7 | Minimalist Protein Model as a Diagnostic Tool for Misfolding and Aggregation. Journal of Molecular Biology, 2006, 363, 297-308. | 2.0 | 56 |
| 8 | Acetylation within the First 17 Residues of Huntingtin Exon 1 Alters Aggregation and Lipid Binding. Biophysical Journal, 2016, 111, 349-362. | 0.2 | 55 |
| 9 | Role of Hydrophobic Hydration in Protein Stability: A 3D Water-Explicit Protein Model Exhibiting Cold and Heat Denaturation. Journal of Physical Chemistry B, 2012, 116, 8095-8104. | 1.2 | 52 |
| 10 | Looking at the Disordered Proteins through the Computational Microscope. ACS Central Science, 2018, 4, 534-542. | 5.3 | 46 |
| 11 | Dissecting the Energetics of Hydrophobic Hydration of Polypeptides. Journal of Physical Chemistry B, 2011, 115, 14859-14865. | 1.2 | 34 |
| 12 | Direct Characterization of Hydrophobic Hydration during Cold and Pressure Denaturation. Journal of Physical Chemistry B, 2012, 116, 5342-5348. | 1.2 | 25 |
| 13 | The Effects of Flanking Sequences in the Interaction of Polyglutamine Peptides with a Membrane Bilayer. Journal of Physical Chemistry B, 2014, 118, 6368-6379. | 1.2 | 25 |
| 14 | Multiscale Simulation of Liquid Water Using a Four-to-One Mapping for Coarse-Graining. Journal of Chemical Theory and Computation, 2013, 9, 5168-5175. | 2.3 | 19 |
| 15 | Effect of lipid head group interactions on membrane properties and membrane-induced cationic Î²-hairpin folding. Physical Chemistry Chemical Physics, 2016, 18, 17836-17850. | 1.3 | 19 |
| 16 | Mapping folding energy landscapes with theory and experiment. Archives of Biochemistry and Biophysics, 2008, 469, 29-33. | 1.4 | 17 |
| 17 | Dual mechanism of ionic liquid-induced protein unfolding. Physical Chemistry Chemical Physics, 2020, 22, 19779-19786. | 1.3 | 17 |
| 18 | Interplay between the hydrophobic effect and dipole interactions in peptide aggregation at interfaces. Physical Chemistry Chemical Physics, 2016, 18, 2449-2458. | 1.3 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Pathways of amyloid-beta absorption and aggregation in a membranous environment. Physical Chemistry Chemical Physics, 2019, 21, 8559-8568. | 1.3 | 16 |
| 20 | Mesoporous Encapsulated Chiral Nanogold for Use in Enantioselective Reactions. Angewandte Chemie, 2018, 130, 17033-17037. | 1.6 | 14 |
| 21 | Computational insights into lipid assisted peptide misfolding and aggregation in neurodegeneration. Physical Chemistry Chemical Physics, 2019, 21, 22679-22694. | 1.3 | 14 |
| 22 | Long Distance Modulation of Disorder-to-Order Transitions in Protein Allostery. Biochemistry, 2017, 56, 4478-4488. | 1.2 | 12 |
| 23 | Influence of Monovalent Cation Size on Nanodomain Formation in Anionicâ€“Zwitterionic Mixed Bilayers. Journal of Physical Chemistry B, 2017, 121, 787-799. | 1.2 | 11 |
| 24 | Effects of Sequence and Solvation on the Temperature-Pressure Conformational Landscape of Proteinlike Heteropolymers. Physical Review Letters, 2013, 111, 058103. | 2.9 | 9 |
| 25 | Interplay of Dynamical Properties between Ionic Liquids and Ionic Surfactants: Mechanism and Aggregation. Journal of Physical Chemistry B, 2015, 119, 9925-9932. | 1.2 | 8 |
| 26 | How Hydrophobic Hydration Destabilizes Surfactant Micelles at Low Temperature: A Coarse-Grained Simulation Study. Langmuir, 2018, 34, 12590-12599. | 1.6 | 7 |
| 27 | Load-Bearing Nanostructures in Composites of Chitosan with Anionic Surfactants: Implications for Programmable Mechanomaterials. ACS Applied Nano Materials, 2022, 5, 6463-6473. | 2.4 | 7 |
| 28 | Superrepression through Altered Corepressorâ€“Activated Protein:Protein Interactions. Biochemistry, 2018, 57, 1119-1129. | 1.2 | 6 |
| 29 | Microscopic Picture of Calcium-Assisted Lipid Demixing and Membrane Remodeling Using Multiscale Simulations. Journal of Physical Chemistry B, 2020, 124, 7327-7335. | 1.2 | 6 |
| 30 | Tuning Allostery through Integration of Disorder to Order with a Residue Network. Biochemistry, 2020, 59, 790-801. | 1.2 | 6 |
| 31 | Effects of applied surface-tension on membrane-assisted AÎ² aggregation. Physical Chemistry Chemical Physics, 2021, 23, 20627-20633. | 1.3 | 5 |
| 32 | Phase Behavior of a Lattice Hydrophobic Oligomer in Explicit Water. Journal of Physical Chemistry B, 2012, 116, 9540-9548. | 1.2 | 3 |
| 33 | Interplay between Conformational Heterogeneity and Hydration in the Folding Landscape of a Designed Three-Helix Bundle. Journal of Physical Chemistry B, 2017, 121, 2731-2738. | 1.2 | 3 |
| 34 | Recovery of enzyme structure and activity following rehydration from ionic liquid. Physical Chemistry Chemical Physics, 2022, , . | 1.3 | 2 |
| 35 | Thermal Stability of Hydrophobic Helical Oligomers: A Lattice Simulation Study in Explicit Water. Journal of Physical Chemistry B, 2012, 116, 9963-9970. | 1.2 | 0 |
| 36 | Length and Sequence Dependence in the Association of Htt Protein with Lipid Bilayers. Biophysical Journal, 2013, 104, 431a. | 0.2 | 0 |

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|---|---|---|---|
| 37 | Quantifying the Relationship between Monovalent Cation Size and Lipid Domain Formation in Anionic-Zwitterionic Mixed Lipid Bilayers. Biophysical Journal, 2017, 112, 520a-521a. | 0.2 | 0 |
| 38 | Protein:Protein Interactions Control Sensitivity of a Transcription Response to Input Signal. Biophysical Journal, 2018, 114, 69a. | 0.2 | 0 |
| 39 | Dual Mechanism of Ionic Liquid-Induced Protein Unfolding. Biophysical Journal, 2021, 120, 201a. | 0.2 | 0 |
| 40 | Assessment of physiological environment on neurodegenerative peptide aggregation. Biophysical Journal, 2022, 121, 352a. | 0.2 | 0 |