

Adriana Pietropaolo

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,765
citations

304602

22
h-index

302012

39
g-index

58
all docs

58
docs citations

58
times ranked

2078
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Promoting transparency and reproducibility in enhanced molecular simulations. <i>Nature Methods</i> , 2019, 16, 670-673. | 9.0 | 655 |
| 2 | Copper(I) and Copper(II) Inhibit A β Peptides Proteolysis by Insulin-Degrading Enzyme Differently: Implications for Metallostatics Alteration in Alzheimer's Disease. <i>Chemistry - A European Journal</i> , 2011, 17, 2752-2762. | 1.7 | 68 |
| 3 | Molecular Mechanism of Polyacrylate Helix Sense Switching across Its Free Energy Landscape. <i>Journal of the American Chemical Society</i> , 2013, 135, 5509-5512. | 6.6 | 65 |
| 4 | Metal ions affect insulin-degrading enzyme activity. <i>Journal of Inorganic Biochemistry</i> , 2012, 117, 351-358. | 1.5 | 48 |
| 5 | Predicting the Switchable Screw Sense in Fluorene-Based Polymers. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2688-2692. | 7.2 | 48 |
| 6 | Ubiquitin binds the amyloid β peptide and interferes with its clearance pathways. <i>Chemical Science</i> , 2019, 10, 2732-2742. | 3.7 | 46 |
| 7 | The switching mechanism of the mitochondrial ADP/ATP carrier explored by free-energy landscapes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 772-781. | 0.5 | 44 |
| 8 | Copper(II) complexes with chicken prion repeats: influence of proline and tyrosine residues on the coordination features. <i>Journal of Biological Inorganic Chemistry</i> , 2005, 10, 463-475. | 1.1 | 42 |
| 9 | A chirality index for investigating protein secondary structures and their time evolution. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 667-677. | 1.5 | 37 |
| 10 | Formation of insulin fragments by insulin-degrading enzyme: the role of zinc(II) and cystine bridges. <i>Journal of Mass Spectrometry</i> , 2013, 48, 135-140. | 0.7 | 36 |
| 11 | Copper, BDNF and Its N-terminal Domain: Inorganic Features and Biological Perspectives. <i>Chemistry - A European Journal</i> , 2012, 18, 15618-15631. | 1.7 | 35 |
| 12 | Rationalizing the design and implementation of chiral hybrid perovskites. <i>CheM</i> , 2022, 8, 1231-1253. | 5.8 | 35 |
| 13 | Unusual Cyclodextrin Derivatives as a New Avenue to Modulate Self- and Metal-Induced A β Aggregation. <i>Chemistry - A European Journal</i> , 2015, 21, 14047-14059. | 1.7 | 33 |
| 14 | Copper(II) complexes with an avian prion N-terminal region and their potential SOD-like activity. <i>Journal of Inorganic Biochemistry</i> , 2009, 103, 195-204. | 1.5 | 27 |
| 15 | The inorganic perspectives of neurotrophins and Alzheimer's disease. <i>Journal of Inorganic Biochemistry</i> , 2012, 111, 130-137. | 1.5 | 27 |
| 16 | Zinc(II) Interactions with Brain-Derived Neurotrophic Factor N-Terminal Peptide Fragments: Inorganic Features and Biological Perspectives. <i>Inorganic Chemistry</i> , 2013, 52, 11075-11083. | 1.9 | 27 |
| 17 | The insulin degrading enzyme activates ubiquitin and promotes the formation of K48 and K63 diubiquitin. <i>Chemical Communications</i> , 2015, 51, 15724-15727. | 2.2 | 26 |
| 18 | The Inorganic Side of NGF: Copper(II) and Zinc(II) Affect the NGF Mimicking Signaling of the N-Terminus Peptides Encompassing the Recognition Domain of TrkA Receptor. <i>Frontiers in Neuroscience</i> , 2016, 10, 569. | 1.4 | 26 |

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|----|--|-----|-----------|
| 19 | Structural Role of Compensatory Amino Acid Replacements in the \hat{I} -Synuclein Protein. <i>Biochemistry</i> , 2011, 50, 6994-7001. | 1.2 | 25 |
| 20 | A chirality-based metrics for free-energy calculations in biomolecular systems. <i>Journal of Computational Chemistry</i> , 2011, 32, 2627-2637. | 1.5 | 25 |
| 21 | The copper(II) and zinc(II) coordination mode of HExxH and HxxEH motif in small peptides: The role of carboxylate location and hydrogen bonding network. <i>Journal of Inorganic Biochemistry</i> , 2014, 130, 92-102. | 1.5 | 25 |
| 22 | The Copper(II)-Assisted Connection between NGF and BDNF by Means of Nerve Growth Factor-Mimicking Short Peptides. <i>Cells</i> , 2019, 8, 301. | 1.8 | 25 |
| 23 | Intramolecular Weak Interactions in the Thermodynamic Stereoselectivity of Copper(II) Complexes with Carnosine-Trehalose Conjugates. <i>Chemistry - A European Journal</i> , 2011, 17, 9448-9455. | 1.7 | 24 |
| 24 | Synergistic Approach of Ultrafast Spectroscopy and Molecular Simulations in the Characterization of Intramolecular Charge Transfer in Push-Pull Molecules. <i>Molecules</i> , 2020, 25, 430. | 1.7 | 24 |
| 25 | Unveiling the Role of Histidine and Tyrosine Residues on the Conformation of the Avian Prion Hexarepeat Domain. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5182-5188. | 1.2 | 21 |
| 26 | Prion Proteins Leading to Neurodegeneration. <i>Current Alzheimer Research</i> , 2008, 5, 579-590. | 0.7 | 20 |
| 27 | A Small Linear Peptide Encompassing the NGF N-Terminus Partly Mimics the Biological Activities of the Entire Neurotrophin in PC12 Cells. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1379-1392. | 1.7 | 20 |
| 28 | Different zinc(II) complex species and binding modes at \hat{A}^2 N-terminus drive distinct long range cross-talks in the \hat{A}^2 monomers. <i>Journal of Inorganic Biochemistry</i> , 2015, 153, 367-376. | 1.5 | 18 |
| 29 | Zinc Complexes of Cyclodextrin-bearing 8-Hydroxyquinoline Ligands: A Comparative Study. <i>Chemistry - an Asian Journal</i> , 2017, 12, 110-115. | 1.7 | 15 |
| 30 | Pyrazolones Activate the Proteasome by Gating Mechanisms and Protect Neuronal Cells from \hat{I}^2 -Amyloid Toxicity. <i>ChemMedChem</i> , 2020, 15, 302-316. | 1.6 | 15 |
| 31 | Trehalose-8-hydroxyquinoline conjugates as antioxidant modulators of \hat{A}^2 aggregation. <i>RSC Advances</i> , 2016, 6, 47229-47236. | 1.7 | 14 |
| 32 | Temperature-dependent UV absorption of biphenyl based on intra-molecular rotation investigated within a combined experimental and TD-DFT approach. <i>Liquid Crystals</i> , 2018, 45, 2048-2053. | 0.9 | 13 |
| 33 | An NMR and molecular dynamics investigation of the avian prion hexarepeat conformational features in solution. <i>Chemical Physics Letters</i> , 2007, 442, 110-118. | 1.2 | 12 |
| 34 | A Versatile Computational Strategy To Characterize the Free-Energy Landscape of Excited States in Oligofluorenes. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 5441-5445. | 2.3 | 12 |
| 35 | Copper, differently from zinc, affects the conformation, oligomerization state and activity of bradykinin. <i>Metallomics</i> , 2016, 8, 750-761. | 1.0 | 11 |
| 36 | Free-energy predictions and absorption spectra calculations for supramolecular nanocarriers and their photoactive cargo. <i>Nanoscale</i> , 2017, 9, 4989-4994. | 2.8 | 11 |

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|----|--|-----|-----------|
| 37 | Metal ion coordination in peptide fragments of neurotrophins: A crucial step for understanding the role and signaling of these proteins in the brain. <i>Coordination Chemistry Reviews</i> , 2021, 435, 213790. | 9.5 | 11 |
| 38 | Predicting the Switchable Screw Sense in Fluorene-Based Polymers. <i>Angewandte Chemie</i> , 2015, 127, 2726-2730. | 1.6 | 10 |
| 39 | From Peptide Fragments to Whole Protein: Copper(II) Load and Coordination Features of IAPP. <i>Chemistry - A European Journal</i> , 2017, 23, 17898-17902. | 1.7 | 10 |
| 40 | Blue circularly polarized luminescent amorphous molecules with single-handed propeller chirality induced by circularly polarized light irradiation. <i>Chemical Communications</i> , 2021, 57, 1794-1797. | 2.2 | 10 |
| 41 | Conformational Preferences of the Full Chicken Prion Protein in Solution and Its Differences with Respect to Mammals. <i>ChemPhysChem</i> , 2009, 10, 1500-1510. | 1.0 | 8 |
| 42 | A quantitative measure of chirality inside nucleic acid databank. <i>Chirality</i> , 2011, 23, 534-542. | 1.3 | 7 |
| 43 | Right-handed 2/1 helical arrangement of benzene molecules in cholic acid crystal established by experimental and theoretical circular dichroism spectroscopy. <i>RSC Advances</i> , 2015, 5, 101110-101114. | 1.7 | 6 |
| 44 | Zinc Interactions with a Soluble Mutated Rat Amylin to Mimic Whole Human Amylin: An Experimental and Simulation Approach to Understand Stoichiometry, Speciation and Coordination of the Metal Complexes. <i>Chemistry - A European Journal</i> , 2020, 26, 13072-13084. | 1.7 | 6 |
| 45 | Multi-replica biased sampling for photoswitchable π -conjugated polymers. <i>Journal of Chemical Physics</i> , 2021, 154, 174108. | 1.2 | 6 |
| 46 | Aggregation-induced chirality amplification of optically active fluorescent polyurethane and a cyclic dimer in the ground and excited states. <i>Chemical Communications</i> , 2022, 58, 1029-1032. | 2.2 | 6 |
| 47 | Effect of Different Z ²⁺ Inducers on the Stabilization of Z Portion in BZ-DNA Sequence: Correlation Between Experimental and Simulation Data. <i>Chirality</i> , 2015, 27, 773-778. | 1.3 | 5 |
| 48 | Photo racemization of 2,2'-dihydroxy-1,1'-binaphthyl derivatives. <i>Chirality</i> , 2022, 34, 317-324. | 1.3 | 5 |
| 49 | The curious case of opossum prion: a physicochemical study on copper(II) binding to the bis-decapeptide fragment from the protein N-terminal domain. <i>Dalton Transactions</i> , 2019, 48, 17533-17543. | 1.6 | 4 |
| 50 | Learning how planarization can affect dichroic patterns in polyfluorenes. <i>Chirality</i> , 2020, 32, 661-666. | 1.3 | 4 |
| 51 | Exploring metal-driven stereoselectivity of glycopeptides by free-energy calculations. <i>Pure and Applied Chemistry</i> , 2012, 84, 1919-1930. | 0.9 | 3 |
| 52 | Binding of Zn(II) to Tropomyosin Receptor Kinase A in Complex with Its Cognate Nerve Growth Factor: Insights from Molecular Simulation and <i>in Vitro</i> Essays. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1095-1103. | 1.7 | 3 |
| 53 | Optically Active Polymers with Cationic Units Connected through Neutral Spacers: Helical Conformation and Chirality Transfer to External Molecules. <i>Macromolecules</i> , 2020, 53, 9916-9928. | 2.2 | 3 |
| 54 | Molecular Simulations of Biological Nanoswitches. , 2020, , 1-5. | | 1 |

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|----|---|-----|-----------|
| 55 | Dataset of the AAC2 conformations in the c-, intermediate- and m-states obtained from free-energy simulations. Data in Brief, 2016, 7, 1355-1357. | 0.5 | 0 |
| 56 | Shape factors in the binding of soft fluorescent nanoshuttles with target receptors. Molecular Systems Design and Engineering, 2021, 6, 281-285. | 1.7 | 0 |
| 57 | Chirality analysis of helical polymers. Chemistry Teacher International, 2021, 3, 131-140. | 0.9 | 0 |