

Jesus Mendieta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2053240/publications.pdf>

Version: 2024-02-01

53
papers

1,278
citations

279487

23
h-index

377514

34
g-index

55
all docs

55
docs citations

55
times ranked

1518
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | MEPSA: minimum energy pathway analysis for energy landscapes. <i>Bioinformatics</i> , 2015, 31, 3853-3855. | 1.8 | 84 |
| 2 | Cadmium-binding properties of glutathione: A chemometrical analysis of voltammetric data. <i>Journal of Inorganic Biochemistry</i> , 1997, 66, 29-36. | 1.5 | 77 |
| 3 | Application of Multivariate Curve Resolution to Voltammetric Data. <i>Analytical Biochemistry</i> , 1996, 240, 134-141. | 1.1 | 74 |
| 4 | Study of the zinc-binding properties of glutathione by differential pulse polarography and multivariate curve resolution. <i>Journal of Inorganic Biochemistry</i> , 1998, 70, 91-98. | 1.5 | 58 |
| 5 | Multivariate Curve Resolution: A Possible Tool in the Detection of Intermediate Structures in Protein Folding. <i>Biophysical Journal</i> , 1998, 74, 2876-2888. | 0.2 | 53 |
| 6 | Multivariate Curve Resolution of Cyclic Voltammetric Data: Application to the Study of the Cadmium-Binding Properties of Glutathione. <i>Analytical Chemistry</i> , 1999, 71, 4629-4636. | 3.2 | 53 |
| 7 | The Role of Gln61 in HRas GTP Hydrolysis: A Quantum Mechanics/Molecular Mechanics Study. <i>Biophysical Journal</i> , 2012, 102, 152-157. | 0.2 | 48 |
| 8 | Nanomechanics of the Cadherin Ectodomain. <i>Journal of Biological Chemistry</i> , 2011, 286, 9405-9418. | 1.6 | 45 |
| 9 | fireball/amber: An Efficient Local-Orbital DFT QM/MM Method for Biomolecular Systems. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2185-2193. | 2.3 | 42 |
| 10 | Soft- and Hard-Modeling Approaches for the Determination of Stability Constants of Metal-Peptide Systems by Voltammetry. <i>Analytical Biochemistry</i> , 2000, 279, 189-201. | 1.1 | 41 |
| 11 | Two-Phase Induction of the Nonnative β -Helical Form of β -Lactoglobulin in the Presence of Trifluoroethanol. <i>Biophysical Journal</i> , 1999, 76, 451-457. | 0.2 | 38 |
| 12 | Structural and Functional Model for Ionic (K ⁺ /Na ⁺) and pH Dependence of GTPase Activity and Polymerization of FtsZ, the Prokaryotic Ortholog of Tubulin. <i>Journal of Molecular Biology</i> , 2009, 390, 17-25. | 2.0 | 38 |
| 13 | Molecular dynamics simulations of the conformational changes of the glutamate receptor ligand-binding core in the presence of glutamate and kainate. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 44, 460-469. | 1.5 | 37 |
| 14 | Role of Histidine-85 in the Catalytic Mechanism of Thymidine Phosphorylase As Assessed by Targeted Molecular Dynamics Simulations and Quantum Mechanical Calculations. <i>Biochemistry</i> , 2004, 43, 405-414. | 1.2 | 34 |
| 15 | Electrochemical behavior of metallothioneins and related molecules. Part I: Lys-Cys-Thr-Cys-Cys-Ala thionein fragment [56-61] MT I. <i>Electroanalysis</i> , 1995, 7, 663-669. | 1.5 | 33 |
| 16 | Effect of water-DNA interactions on elastic properties of DNA self-assembled monolayers. <i>Scientific Reports</i> , 2017, 7, 536. | 1.6 | 33 |
| 17 | The electrochemical behaviour of Cd,Zn thioneins depending on the solution pH using differential pulse polarography. <i>Analitica Chimica Acta</i> , 1995, 305, 285-294. | 2.6 | 32 |
| 18 | A 3 \cdot (ET743)-DNA Complex That Both Resembles an RNA-DNA Hybrid and Mimicks Zinc Finger-Induced DNA Structural Distortions. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 871-880. | 2.9 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Binding of 5â€™-GMP to the GluR2 AMPA Receptor:Â Insight from Targeted Molecular Dynamics Simulationsâ€™. <i>Biochemistry</i> , 2005, 44, 14470-14476. | 1.2 | 28 |
| 20 | A Mg ²⁺ -induced conformational switch rendering a competent DNA polymerase catalytic complex. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 71, 565-574. | 1.5 | 28 |
| 21 | Complexation of cadmium by the C-terminal hexapeptide Lys-Cys-Thr-Cys-Cys-Ala from mouse metallothionein: study by differential pulse polarography and circular dichroism spectroscopy with multivariate curve resolution analysis. <i>Analytica Chimica Acta</i> , 1999, 390, 15-25. | 2.6 | 27 |
| 22 | Torsion and curvature of FtsZ filaments. <i>Soft Matter</i> , 2014, 10, 1977. | 1.2 | 27 |
| 23 | Electrochemical study of the binding properties of a metallothionein I related peptide with cadmium or/and zinc. <i>Electroanalysis</i> , 1996, 8, 473-479. | 1.5 | 25 |
| 24 | Phosphorylation modulates the alpha-helical structure and polymerization of a peptide from the third tau microtubule-binding repeat. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1721, 16-26. | 1.1 | 22 |
| 25 | In silico activation of Src tyrosine kinase reveals the molecular basis for intramolecular autophosphorylation. <i>Journal of Molecular Graphics and Modelling</i> , 2004, 23, 189-198. | 1.3 | 21 |
| 26 | Proton Transfer in Guanine-Cytosine Base Pairs in B-DNA. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 6984-6991. | 2.3 | 21 |
| 27 | Residues in human respiratory syncytial virus P protein that are essential for its activity on RNA viral synthesis. <i>Virus Research</i> , 2008, 132, 160-173. | 1.1 | 20 |
| 28 | Quantum Mechanics/Molecular Mechanics Free Energy Maps and Nonadiabatic Simulations for a Photochemical Reaction in DNA: Cyclobutane Thymine Dimer. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4391-4397. | 2.1 | 20 |
| 29 | Two-step ATP-driven opening of cohesin head. <i>Scientific Reports</i> , 2017, 7, 3266. | 1.6 | 19 |
| 30 | Mechanistic Basis of Zidovudine Hypersusceptibility and Lamivudine Resistance Conferred by the Deletion of Codon 69 in the HIV-1 Reverse Transcriptase Coding Region. <i>Journal of Molecular Biology</i> , 2008, 382, 327-341. | 2.0 | 18 |
| 31 | Zinc-binding properties of the C-terminal hexapeptide Lysâ€™Cysâ€™Thrâ€™Cysâ€™Cysâ€™Ala from mouse metallothionein: analysis by differential pulse polarography and multivariate curve resolution. <i>Analytica Chimica Acta</i> , 1999, 385, 353-363. | 2.6 | 17 |
| 32 | Technical phosphoproteomic and bioinformatic tools useful in cancer research. <i>Journal of Clinical Bioinformatics</i> , 2011, 1, 26. | 1.2 | 16 |
| 33 | Use of a Dominant rpsL Allele Conferring Streptomycin Dependence for Positive and Negative Selection in <i>Thermus thermophilus</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 5138-5145. | 1.4 | 14 |
| 34 | Thymidine Analogue Excision and Discrimination Modulated by Mutational Complexes Including Single Amino Acid Deletions of Asp-67 or Thr-69 in HIV-1 Reverse Transcriptase. <i>Journal of Biological Chemistry</i> , 2011, 286, 20615-20624. | 1.6 | 14 |
| 35 | Ligand-receptor interactions in affinity cell partitioning. <i>Journal of Chromatography A</i> , 1992, 594, 97-103. | 1.8 | 11 |
| 36 | Analysis by partitioning in aqueous two-phase systems of the loss of transferrin-binding capacity during maturation of rat reticulocytes. <i>Bioscience Reports</i> , 1989, 9, 541-548. | 1.1 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Combined Use of Differential Pulse Polarography and Multivariate Curve Resolution: As Applied to the Study of Metal Mixed Complexes of the Metallothionein Related Hexapeptide. <i>Electroanalysis</i> , 2002, 14, 50-56. | 1.5 | 10 |
| 38 | DNA sequence-specific recognition by a transcriptional regulator requires indirect readout of A-tracts. <i>Nucleic Acids Research</i> , 2007, 35, 3252-3261. | 6.5 | 10 |
| 39 | Molecular dynamics simulation of GTPase activity in polymers of the cell division protein FtsZ. <i>FEBS Letters</i> , 2012, 586, 1236-1239. | 1.3 | 9 |
| 40 | Amino acid residues in HIV-2 reverse transcriptase that restrict the development of nucleoside analogue resistance through the excision pathway. <i>Journal of Biological Chemistry</i> , 2018, 293, 2247-2259. | 1.6 | 9 |
| 41 | Simulation of Catalytic Water Activation in Mitochondrial F ₁ -ATPase Using a Hybrid Quantum Mechanics/Molecular Mechanics Approach: An Alternative Role for Î ² -Glu 188. <i>Biochemistry</i> , 2013, 52, 959-966. | 1.2 | 6 |
| 42 | Affinity-mediated modification of electrical charge on a cell surface: A new approach to the affinity partitioning of biological particles. <i>Analytical Biochemistry</i> , 1992, 200, 280-285. | 1.1 | 5 |
| 43 | A Practical Quantum Mechanics Molecular Mechanics Method for the Dynamical Study of Reactions in Biomolecules. <i>Advances in Protein Chemistry and Structural Biology</i> , 2015, 100, 67-88. | 1.0 | 5 |
| 44 | Functional Specificity of a Protein-DNA Complex Mediated by Two Arginines Bound to the Minor Groove. <i>Journal of Bacteriology</i> , 2012, 194, 4727-4735. | 1.0 | 4 |
| 45 | Towards New Thymidine Phosphorylase/PD-ECGF Inhibitors Based on the Transition State of the Enzyme Reaction. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 951-953. | 0.4 | 3 |
| 46 | Functional phosphoproteomics for current immunology research. <i>Journal of Integrated OMICS</i> , 2011, 1, . | 0.5 | 3 |
| 47 | Molecular basis of the association of H208Y and thymidine analogue resistance mutations M41L, L210W and T215Y in the HIV-1 reverse transcriptase of treated patients. <i>Antiviral Research</i> , 2014, 106, 42-52. | 1.9 | 3 |
| 48 | Molecular dynamics analysis of conformational change of paramyxovirus F protein during the initial steps of membrane fusion. <i>Biochemical and Biophysical Research Communications</i> , 2012, 420, 42-47. | 1.0 | 2 |
| 49 | Rat bone marrow erythroid cell fractionation by counter current distribution in non-charge-sensitive two-phase systems. <i>Bioscience Reports</i> , 1992, 12, 77-85. | 1.1 | 1 |
| 50 | Fractionation of erythroblasts with affinity-mediated modifications of their electrical properties using counter-current distribution. <i>Molecular and Cellular Biochemistry</i> , 1993, 121, 93-98. | 1.4 | 0 |
| 51 | Transferrin-Binding Capacity by Rat Bone Marrow Populations Containing Different Proportions of Erythroid Cells. <i>Biological Chemistry Hoppe-Seyler</i> , 1994, 375, 135-140. | 1.4 | 0 |
| 52 | Transferrin binding capacity as a marker of differentiation and maturation of rat erythroid cells fractionated by counter current distribution in aqueous polymer two-phase systems. <i>Bioscience Reports</i> , 1994, 14, 119-130. | 1.1 | 0 |
| 53 | [33] Charge-directed affinity partitioning of cells. <i>Methods in Enzymology</i> , 1994, 228, 363-368. | 0.4 | 0 |