

Alvaro Ortega

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

2,807
citations

201674

27
h-index

182427

51
g-index

66
all docs

66
docs citations

66
times ranked

3975
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The role of solute binding proteins in signal transduction. Computational and Structural Biotechnology Journal, 2021, 19, 1786-1805. | 4.1 | 34 |
| 2 | Bacterial Sirtuins Overview: An Open Niche to Explore. Frontiers in Microbiology, 2021, 12, 744416. | 3.5 | 10 |
| 3 | Chemoreceptors with C-terminal pentapeptides for CheR and CheB binding are abundant in bacteria that maintain host interactions. Computational and Structural Biotechnology Journal, 2020, 18, 1947-1955. | 4.1 | 4 |
| 4 | How Bacterial Chemoreceptors Evolve Novel Ligand Specificities. MBio, 2020, 11, . | 4.1 | 52 |
| 5 | Determination of Ligand Profiles for Pseudomonas aeruginosa Solute Binding Proteins. International Journal of Molecular Sciences, 2019, 20, 5156. | 4.1 | 19 |
| 6 | The Molecular Mechanism of Nitrate Chemotaxis via Direct Ligand Binding to the PilJ Domain of McpN. MBio, 2019, 10, . | 4.1 | 40 |
| 7 | The activity of the C4-dicarboxylic acid chemoreceptor of Pseudomonas aeruginosa is controlled by chemoattractants and antagonists. Scientific Reports, 2018, 8, 2102. | 3.3 | 35 |
| 8 | High-Throughput Screening to Identify Chemoreceptor Ligands. Methods in Molecular Biology, 2018, 1729, 291-301. | 0.9 | 20 |
| 9 | Functional Annotation of Bacterial Signal Transduction Systems: Progress and Challenges. International Journal of Molecular Sciences, 2018, 19, 3755. | 4.1 | 19 |
| 10 | Structural Basis for Polyamine Binding at the dCACHE Domain of the McpU Chemoreceptor from Pseudomonas putida. Journal of Molecular Biology, 2018, 430, 1950-1963. | 4.2 | 33 |
| 11 | Methylation of Proteins: Biochemistry and Functional Consequences. , 2018, , 571-584. | | 0 |
| 12 | Crystallohydrodynamics of IgG. , 2018, , 1-8. | | 0 |
| 13 | Sensory Repertoire of Bacterial Chemoreceptors. Microbiology and Molecular Biology Reviews, 2017, 81, . | 6.6 | 158 |
| 14 | Purification and characterization of Pseudomonas aeruginosa LasR expressed in acyl-homoserine lactone free Escherichia coli cultures. Protein Expression and Purification, 2017, 130, 107-114. | 1.3 | 12 |
| 15 | Metabolic Value Chemoattractants Are Preferentially Recognized at Broad Ligand Range Chemoreceptor of Pseudomonas putida KT2440. Frontiers in Microbiology, 2017, 8, 990. | 3.5 | 34 |
| 16 | Hydrophobic Modifications of Biomolecules: An Introduction. , 2017, , 1-10. | | 0 |
| 17 | Identification of a Chemoreceptor in Pseudomonas aeruginosa That Specifically Mediates Chemotaxis Toward α -Ketoglutarate. Frontiers in Microbiology, 2016, 7, 1937. | 3.5 | 35 |
| 18 | <i>McpQ</i> is a specific citrate chemoreceptor that responds preferentially to citrate/metal ion complexes. Environmental Microbiology, 2016, 18, 3284-3295. | 3.8 | 39 |

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|----|---|------|-----------|
| 19 | Two different mechanisms mediate chemotaxis to inorganic phosphate in <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2016, 6, 28967. | 3.3 | 62 |
| 20 | So different and still so similar: The plant compound rosmarinic acid mimics bacterial homoserine lactone quorum sensing signals. <i>Communicative and Integrative Biology</i> , 2016, 9, e1156832. | 1.4 | 11 |
| 21 | Rosmarinic acid is a homoserine lactone mimic produced by plants that activates a bacterial quorum-sensing regulator. <i>Science Signaling</i> , 2016, 9, ra1. | 3.6 | 106 |
| 22 | Identification of ligands for bacterial sensor proteins. <i>Current Genetics</i> , 2016, 62, 143-147. | 1.7 | 8 |
| 23 | Multiple signals modulate the activity of the complex sensor kinase <i>TscS</i> . <i>Microbial Biotechnology</i> , 2015, 8, 103-115. | 4.2 | 12 |
| 24 | FAK dimerization controls its kinase-dependent functions at focal adhesions. <i>EMBO Journal</i> , 2014, 33, 356-370. | 7.8 | 101 |
| 25 | Influence of ionic strength on the flexibility of alginate studied by size exclusion chromatography. <i>Carbohydrate Polymers</i> , 2014, 102, 223-230. | 10.2 | 28 |
| 26 | The HBM domain: Introducing bimodularity to bacterial sensing. <i>Protein Science</i> , 2014, 23, 332-336. | 7.6 | 27 |
| 27 | Analytical ultracentrifugation studies of oligomerization and DNA-binding of TtCarH, a <i>Thermus thermophilus</i> coenzyme B12-based photosensory regulator. <i>European Biophysics Journal</i> , 2013, 42, 463-476. | 2.2 | 31 |
| 28 | Mechanisms of Site-Specific Functions of Focal Adhesion Kinase. <i>Biophysical Journal</i> , 2013, 104, 609a. | 0.5 | 1 |
| 29 | Prediction of Hydrodynamic and Other Solution Properties of Partially Disordered Proteins with a Simple, Coarse-Grained Model. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 1678-1685. | 5.3 | 23 |
| 30 | Paralogous chemoreceptors mediate chemotaxis towards protein amino acids and the non- α -protein amino acid γ -aminobutyrate (<i>GABA</i>). <i>Molecular Microbiology</i> , 2013, 88, 1230-1243. | 2.5 | 87 |
| 31 | HYDRO Suite of Computer Programs for Solution Properties of Rigid Macromolecules. , 2013, , 1002-1006. | | 1 |
| 32 | Crystallohydrodynamics of IgG. , 2013, , 397-403. | | 0 |
| 33 | HYDFIT and Related Packages for Linear Molecules. , 2013, , 998-1002. | | 0 |
| 34 | Characterization of low molecular mass thermosensitive diblock copolymers and their self-assembly by means of analytical ultracentrifugation. <i>Colloid and Polymer Science</i> , 2012, 290, 297-306. | 2.1 | 4 |
| 35 | Hydrodynamic Properties of Wormlike Macromolecules: Monte Carlo Simulation and Global Analysis of Experimental Data. <i>Macromolecules</i> , 2011, 44, 5788-5797. | 4.8 | 38 |
| 36 | Prediction of Hydrodynamic and Other Solution Properties of Rigid Proteins from Atomic- and Residue-Level Models. <i>Biophysical Journal</i> , 2011, 101, 892-898. | 0.5 | 569 |

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|----|---|------|-----------|
| 37 | Global fit and structure optimization of flexible and rigid macromolecules and nanoparticles from analytical ultracentrifugation and other dilute solution properties. <i>Methods</i> , 2011, 54, 115-123. | 3.8 | 11 |
| 38 | Brownian dynamics simulation of analytical ultracentrifugation experiments. <i>BMC Biophysics</i> , 2011, 4, 6. | 4.4 | 10 |
| 39 | Multi-scale calculation and global-fit analysis of hydrodynamic properties of biological macromolecules: determination of the overall conformation of antibody IgG molecules. <i>European Biophysics Journal</i> , 2010, 39, 361-370. | 2.2 | 12 |
| 40 | Intrinsic viscosity of bead models for macromolecules and nanoparticles. <i>European Biophysics Journal</i> , 2010, 39, 381-388. | 2.2 | 20 |
| 41 | Methods and Tools for the Prediction of Hydrodynamic Coefficients and Other Solution Properties of Flexible Macromolecules in Solution. A Tutorial Minireview. <i>Macromolecular Bioscience</i> , 2010, 10, 721-730. | 4.1 | 9 |
| 42 | Analytical Ultracentrifugation Studies of Phage Φ 29 Protein p6 Binding to DNA. <i>Journal of Molecular Biology</i> , 2009, 385, 1616-1629. | 4.2 | 11 |
| 43 | SIMUFLEX: Algorithms and Tools for Simulation of the Conformation and Dynamics of Flexible Molecules and Nanoparticles in Dilute Solution. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2606-2618. | 5.3 | 30 |
| 44 | Molecular Flexibility of Methylcelluloses of Differing Degree of Substitution by Combined Sedimentation and Viscosity Analysis. <i>Macromolecular Bioscience</i> , 2008, 8, 1108-1115. | 4.1 | 33 |
| 45 | Global hydrodynamic analysis of the molecular flexibility of galactomannans. <i>Carbohydrate Polymers</i> , 2008, 72, 356-360. | 10.2 | 44 |
| 46 | Global conformation analysis of irradiated xyloglucans. <i>Carbohydrate Polymers</i> , 2008, 74, 845-851. | 10.2 | 49 |
| 47 | Molecular flexibility of citrus pectins by combined sedimentation and viscosity analysis. <i>Food Hydrocolloids</i> , 2008, 22, 1435-1442. | 10.7 | 78 |
| 48 | Characterization of the Control Catabolite Protein of Gluconeogenic Genes Repressor by Fluorescence Cross-Correlation Spectroscopy and Other Biophysical Approaches. <i>Biophysical Journal</i> , 2008, 95, 4403-4415. | 0.5 | 15 |
| 49 | Improved Calculation of Rotational Diffusion and Intrinsic Viscosity of Bead Models for Macromolecules and Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2007, 111, 955-961. | 2.6 | 141 |
| 50 | Equivalent Radii and Ratios of Radii from Solution Properties as Indicators of Macromolecular Conformation, Shape, and Flexibility. <i>Biomacromolecules</i> , 2007, 8, 2464-2475. | 5.4 | 86 |
| 51 | Fructose-1,6-bisphosphate Acts Both as an Inducer and as a Structural Cofactor of the Central Glycolytic Genes Repressor (CggR). <i>Biochemistry</i> , 2007, 46, 14996-15008. | 2.5 | 25 |
| 52 | Inducer-Modulated Cooperative Binding of the Tetrameric CggR Repressor to Operator DNA. <i>Biophysical Journal</i> , 2007, 92, 3215-3227. | 0.5 | 30 |
| 53 | Solution Conformation of Wild-Type and Mutant IgG3 and IgG4 Immunoglobulins Using Crystallohydrodynamics: Possible Implications for Complement Activation. <i>Biophysical Journal</i> , 2007, 93, 3733-3744. | 0.5 | 59 |
| 54 | Crystallohydrodynamics of Protein Assemblies: Combining Sedimentation, Viscometry, and X-Ray Scattering. <i>Biophysical Journal</i> , 2006, 91, 1688-1697. | 0.5 | 17 |

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|----|---|------|-----------|
| 55 | MULTIHYDRO and MONTEHYDRO: Conformational search and Monte Carlo calculation of solution properties of rigid or flexible bead models. <i>Biophysical Chemistry</i> , 2005, 116, 121-128. | 2.8 | 27 |
| 56 | Efficient, Accurate Calculation of Rotational Diffusion and NMR Relaxation of Globular Proteins from Atomic-Level Structures and Approximate Hydrodynamic Calculations. <i>Journal of the American Chemical Society</i> , 2005, 127, 12764-12765. | 13.7 | 26 |
| 57 | Studying Antibody Conformations by Ultracentrifugation and Hydrodynamic Modeling. , 2004, 248, 93-114. | | 7 |
| 58 | Calculation of the solution properties of flexible macromolecules: methods and applications. <i>European Biophysics Journal</i> , 2003, 32, 477-486. | 2.2 | 35 |
| 59 | Estimating domain orientation of two human antibody IgG4 chimeras by crystallohydrodynamics. <i>European Biophysics Journal</i> , 2003, 32, 503-510. | 2.2 | 13 |
| 60 | Hydrodynamic properties of rodlike and disklike particles in dilute solution. <i>Journal of Chemical Physics</i> , 2003, 119, 9914-9919. | 3.0 | 279 |
| 61 | Multiple Linear Least-Squares Fits with a Common Intercept: Determination of the Intrinsic Viscosity of Macromolecules in Solution. <i>Journal of Chemical Education</i> , 2003, 80, 1036. | 2.3 | 13 |
| 62 | Calculation of hydrodynamic properties of small nucleic acids from their atomic structure. <i>Nucleic Acids Research</i> , 2002, 30, 1782-1788. | 14.5 | 73 |
| 63 | Use of the sedimentation coefficient for modelling antibodies. Refinements to the crystallohydrodynamics approach. , 0, , 113-118. | | 1 |