# Antonio Rey

List of Publications by Year
in descending order

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|---|---|---|---|
| 70<br>papers | 1,309<br>citations | 331259<br>21<br>h-index | 414034<br>32<br>g-index |
| 70<br>all docs | 70<br>docs citations | 70<br>times ranked | 714<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Behavior of Proteins under Pressure from Experimental Pressure-Dependent Structures. Journal of Physical Chemistry B, 2021, 125, 6179-6191. | 1.2 | 6 |
| 2 | Self-Consistent Mean Field Calculations of Polyelectrolyte-Surfactant Mixtures in Solution and upon Adsorption onto Negatively Charged Surfaces. Polymers, 2020, 12, 624. | 2.0 | 21 |
| 3 | Hydrophobic confinement modulates thermal stability and assists knotting in the folding of tangled proteins. Physical Chemistry Chemical Physics, 2019, 21, 11764-11775. | 1.3 | 18 |
| 4 | Design of a structure-based model for protein folding from flexible conformations. Physical Chemistry Chemical Physics, 2019, 21, 6544-6552. | 1.3 | 2 |
| 5 | Steric confinement and enhanced local flexibility assist knotting in simple models of protein folding. Physical Chemistry Chemical Physics, 2016, 18, 26391-26403. | 1.3 | 30 |
| 6 | How determinant is N-terminal to C-terminal coupling for protein folding?. Physical Chemistry Chemical Physics, 2015, 17, 3512-3524. | 1.3 | 14 |
| 7 | Design of a Rotamer Library for Coarse-Grained Models in Protein-Folding Simulations. Journal of Chemical Information and Modeling, 2014, 54, 302-313. | 2.5 | 6 |
| 8 | Intermediates in the folding equilibrium of repeat proteins from the TPR family. European Biophysics Journal, 2014, 43, 433-443. | 1.2 | 2 |
| 9 | Sketching protein aggregation with a physics-based toy model. Journal of Chemical Physics, 2013, 139, 115101. | 1.2 | 4 |
| 10 | Simple model for the simulation of peptide folding and aggregation with different sequences. Journal of Chemical Physics, 2012, 136, 215103. | 1.2 | 17 |
| 11 | Simulating protein unfolding under pressure with a coarse-grained model. Journal of Chemical Physics, 2012, 137, 185102. | 1.2 | 12 |
| 12 | Why Do Protein Folding Rates Correlate with Metrics of Native Topology?. PLoS ONE, 2012, 7, e35599. | 1.1 | 24 |
| 13 | Improvement of Structure-Based Potentials for Protein Folding by Native and Nonnative Hydrogen Bonds. Biophysical Journal, 2011, 101, 1474-1482. | 0.2 | 17 |
| 14 | A simple simulation model can reproduce the thermodynamic folding intermediate of apoflavodoxin. Proteins: Structure, Function and Bioinformatics, 2010, 78, 73-82. | 1.5 | 18 |
| 15 | The protein folding transition state: Insights from kinetics and thermodynamics. Journal of Chemical Physics, 2010, 133, 125102. | 1.2 | 14 |
| 16 | A refined hydrogen bond potential for flexible protein models. Journal of Chemical Physics, 2010, 132, 235102. | 1.2 | 25 |
| 17 | Topology-based potentials and the study of the competition between protein folding and aggregation. Journal of Chemical Physics, 2009, 130, 115101. | 1.2 | 7 |
| 18 | Topologyâ€based models and NMR structures in protein folding simulations. Journal of Computational Chemistry, 2009, 30, 1212-1219. | 1.5 | 16 |

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|---|---|---|---|
| 19 | Energy minimizations with a combination of two knowledgeâ€based potentials for protein folding. Journal of Computational Chemistry, 2008, 29, 1684-1692. | 1.5 | 7 |
| 20 | Simulations of the protein folding process using topology-based models depend on the experimental structure. Journal of Chemical Physics, 2008, 129, 115101. | 1.2 | 8 |
| 21 | Influence of the chain stiffness on the thermodynamics of a GÅ•type model for protein folding. Journal of Chemical Physics, 2007, 126, 165103. | 1.2 | 12 |
| 22 | Influence of the native topology on the folding barrier for small proteins. Journal of Chemical Physics, 2007, 127, 175101. | 1.2 | 30 |
| 23 | Evaluation of coarse grained models for hydrogen bonds in proteins. Journal of Computational Chemistry, 2007, 28, 1187-1199. | 1.5 | 11 |
| 24 | Evaluation of a mean field potential for protein folding with different interaction centers. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 449-462. | 1.2 | 3 |
| 25 | Assessment of protein folding potentials with an evolutionary method. Journal of Chemical Physics, 2006, 125, 014904. | 1.2 | 4 |
| 26 | Evolutionary method for the assembly of rigid protein fragments. Journal of Computational Chemistry, 2005, 26, 131-141. | 1.5 | 6 |
| 27 | Thermodynamics of GÅ•type models for protein folding. Journal of Chemical Physics, 2005, 123, 154903. | 1.2 | 35 |
| 28 | Influence of the Helical Backbone in the Behavior of a Simple Model for Dimeric Coiled-Coil Proteins. Macromolecular Theory and Simulations, 2003, 12, 669-678. | 0.6 | 1 |
| 29 | Influence of the hydrophobic face width on the degree of association of coiledâ€“coil proteins. Journal of Chemical Physics, 2002, 117, 10321-10328. | 1.2 | 4 |
| 30 | Peptide length dependence of a simplified model for the folding of regular two-stranded coiled-coils. Macromolecular Theory and Simulations, 2000, 9, 534-542. | 0.6 | 3 |
| 31 | Thermodynamic aspects in a simplified model for the folding of two-stranded coiled-coils. Journal of Chemical Physics, 2000, 113, 11343-11354. | 1.2 | 2 |
| 32 | Simplified model for the analysis of interaction types in two-stranded coiled-coils. Journal of Chemical Physics, 1999, 111, 2311-2321. | 1.2 | 3 |
| 33 | Relaxation of flexible chains in dilute and non-dilute systems. Dynamic Monte Carlo results for linear and star chains. Macromolecular Theory and Simulations, 1999, 8, 321-327. | 0.6 | 6 |
| 34 | Intramolecular Reaction Rates of Flexible Polymers. 2. Comparison with the Renormalization Group Theory. Macromolecules, 1998, 31, 8363-8369. | 2.2 | 14 |
| 35 | Intramolecular Reaction Rates of Flexible Polymers. 1. Simulation Results and the Classical Theory. Macromolecules, 1998, 31, 8356-8362. | 2.2 | 19 |
| 36 | Conformational properties of flexible polymer chains in highly confined environments. Journal of Chemical Physics, 1997, 106, 5720-5730. | 1.2 | 11 |

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| 37 | Numerical simulation of the scattering form factor of star polymers. Computational and Theoretical Polymer Science, 1997, 7, 243-252. | 1.1 | 6 |
| 38 | On the use of the gaussian chain as a monte carlo simulation model for the equilibrium properties of polymer solutions. Macromolecular Theory and Simulations, 1997, 6, 271-286. | 0.6 | 2 |
| 39 | Conformation of A2B and A3B Miktoarm Star Copolymers in Dilute Solutions. Macromolecules, 1996, 29, 5599-5604. | 2.2 | 13 |
| 40 | Dynamics of chains in excluded volume conditions: Frequencyâ€dependent viscosity of regular star chains. Journal of Chemical Physics, 1996, 104, 758-766. | 1.2 | 6 |
| 41 | Frequencyâ€dependent viscosity of linear polymer chains. Influence of nonâ€Gaussian effects. Journal of Chemical Physics, 1995, 102, 6900-6907. | 1.2 | 6 |
| 42 | Dynamic scattering function for diblock copolymer chains in dilute solutions. Journal of Chemical Physics, 1994, 101, 2455-2462. | 1.2 | 6 |
| 43 | Dynamicâ€mechanical and light scattering study of the glass transition of poly(vinylacetate) and a poly(vinylacetate) +poly(4â€hydroxystyrene) blend. Journal of Chemical Physics, 1994, 100, 3258-3267. | 1.2 | 14 |
| 44 | Computer simulation of the folding of coiled coils. Journal of Chemical Physics, 1994, 100, 2267-2276. | 1.2 | 16 |
| 45 | Computer modeling and folding of four-helix bundles. Proteins: Structure, Function and Bioinformatics, 1993, 16, 8-28. | 1.5 | 39 |
| 46 | A method for predicting protein structure from sequence. Current Biology, 1993, 3, 414-423. | 1.8 | 80 |
| 47 | Effect of double bonds on the dynamics of hydrocarbon chains. Journal of Chemical Physics, 1992, 97, 1240-1249. | 1.2 | 36 |
| 48 | Radius of gyration and viscosity of linear and star polymers in different regimes. Macromolecules, 1992, 25, 1311-1315. | 2.2 | 24 |
| 49 | Monte Carlo simulation of the dynamics and quasielastic scattering in many-chain polymer systems. Macromolecules, 1992, 25, 3266-3272. | 2.2 | 14 |
| 50 | Brownian dynamics simulation of flexible polymer chains with excluded volume and hydrodynamic interactions. A comparison with Monte Carlo and theoretical results. Polymer, 1992, 33, 3477-3481. | 1.8 | 27 |
| 51 | Efficient algorithm for the reconstruction of a protein backbone from the ?-carbon coordinates. Journal of Computational Chemistry, 1992, 13, 443-456. | 1.5 | 49 |
| 52 | Investigation of the endâ€toâ€end vector distribution function for linear polymers in different regimes. Journal of Chemical Physics, 1991, 95, 4589-4592. | 1.2 | 28 |
| 53 | Numerical simulation of the cyclization dynamics for flexible chains with excluded volume. Macromolecules, 1991, 24, 4673-4678. | 2.2 | 23 |
| 54 | Translational diffusion, relaxation times, and quasi-elastic scattering of flexible chains with excluded volume and fluctuating hydrodynamic interactions: a Brownian dynamics study. Macromolecules, 1991, 24, 4666-4672. | 2.2 | 20 |

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| 55 | Dimensions and intrinsic viscosities of long linear and star chains in good- and Î˜-solvent conditions. Macromolecules, 1991, 24, 6494-6499. | 2.2 | 35 |
| 56 | Experimental and theoretical study of the equation of state of trifluoromethane in the near-critical region. The Journal of Physical Chemistry, 1991, 95, 3351-3357. | 2.9 | 30 |
| 57 | Comparison of lattice Monte Carlo dynamics and Brownian dynamics folding pathways of Î±-helical hairpins. Chemical Physics, 1991, 158, 199-219. | 0.9 | 71 |
| 58 | The shape of linear and star polymers with and without excluded volume. Journal of Chemical Physics, 1991, 94, 4009-4011. | 1.2 | 35 |
| 59 | The shape of twoâ€dimensional linear and star polymers with and without excluded volume. Journal of Chemical Physics, 1991, 95, 608-611. | 1.2 | 15 |
| 60 | Lower bounds for the intrinsic viscosity of flexible polymers. Comparison with Brownian dynamics simulation results for different types of chains. Computer Physics Communications, 1990, 61, 297-303. | 3.0 | 17 |
| 61 | Frequencyâ€dependent viscosity of linear, ring, and star Gaussian chains with fluctuating hydrodynamic interactions. Journal of Chemical Physics, 1990, 92, 6278-6282. | 1.2 | 7 |
| 62 | Brownian dynamics of nonlinear Gaussian chains with fluctuating hydrodynamic interactions. 2. Rings. Macromolecules, 1990, 23, 3953-3957. | 2.2 | 3 |
| 63 | Brownian dynamics of nonlinear Gaussian chains with fluctuating hydrodynamic interactions. 1. Star chains. Macromolecules, 1990, 23, 3948-3953. | 2.2 | 16 |
| 64 | Cyclization dynamics of flexible polymers. Numerical results from Brownian trajectories. Macromolecules, 1990, 23, 2057-2061. | 2.2 | 15 |
| 65 | Brownian dynamics of a flexible polymer. Internal modes and quaiselastic scattering function. Journal of Chemical Physics, 1989, 90, 2035-2041. | 1.2 | 21 |
| 66 | Crosslinking of poly(allylamine) with esters of diimidic acids in aqueous media. Die Makromolekulare Chemie Rapid Communications, 1989, 10, 675-681. | 1.1 | 5 |
| 67 | Monte Carlo calculations for linear chains and star polymers with intramolecular interactions. 4. Dimensions and hydrodynamic properties below the .THETA. state. Macromolecules, 1987, 20, 2385-2390. | 2.2 | 25 |
| 68 | Monte Carlo calculations for linear chains and star polymers with intermolecular interactions. 3. Dimensions and hydrodynamic properties in good solvent conditions. Macromolecules, 1987, 20, 342-346. | 2.2 | 69 |
| 69 | Monte Carlo calculations for linear and star polymers with intramolecular interactions. 2. Nonpreaveraged study of hydrodynamic properties at the Î¸ state. Macromolecules, 1986, 19, 457-462. | 2.2 | 44 |
| 70 | Monte Carlo calculations for linear and star polymers with intramolecular interactions. 1. Dimensions. Macromolecules, 1986, 19, 452-457. | 2.2 | 60 |