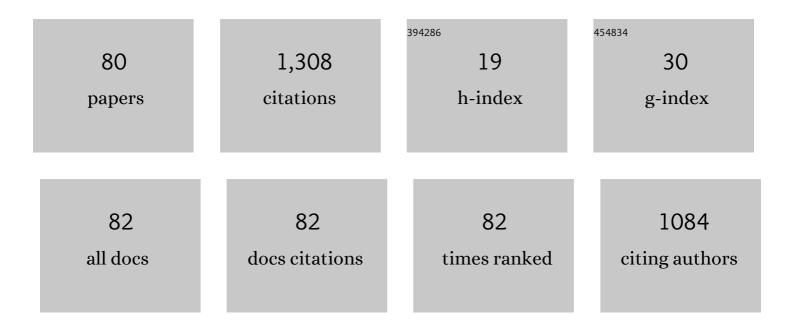
## Gerardo Odriozola

List of Publications by Year in descending order

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| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Revisiting the phase diagram of hard ellipsoids. Journal of Chemical Physics, 2012, 136, 134505.   | 1.2 | 60        |
| 2  | A probabilistic aggregation kernel for the computer-simulated transition from DLCA to RLCA.<br>Europhysics Letters, 2001, 53, 797-803.   | 0.7 | 58        |
| 3  | A Light Scattering Study of the Transition Region between Diffusion- and Reaction-Limited Cluster<br>Aggregation. Journal of Colloid and Interface Science, 2001, 240, 90-96.                            | 5.0 | 49        |
| 4  | Phase diagram of two-dimensional hard ellipses. Journal of Chemical Physics, 2014, 140, 204502.  | 1.2 | 45        |
| 5  | Entropy driven key-lock assembly. Journal of Chemical Physics, 2008, 129, 111101.  | 1.2 | 43        |
| 6  | Brownian dynamics simulations of Laponite colloid suspensions. Physical Review E, 2004, 70, 021405.  | 0.8 | 42        |
| 7  | Further details on the phase diagram of hard ellipsoids of revolution. Journal of Chemical Physics, 2013, 138, 064501.   | 1.2 | 41        |
| 8  | Constant bond breakup probability model for reversible aggregation processes. Physical Review E, 2002, 65, 031405.   | 0.8 | 40        |
| 9  | Multiple contact kernel for diffusionlike aggregation. Physical Review E, 2000, 62, 8335-8343.   | 0.8 | 39        |
| 10 | Simple effective rule to estimate the jamming packing fraction of polydisperse hard spheres. Physical<br>Review E, 2014, 89, 040302.   | 0.8 | 34        |
| 11 | Dynamic scaling concepts applied to numerical solutions of Smoluchowski's rate equation. Journal of Chemical Physics, 1999, 111, 7657-7667.  | 1.2 | 31        |
| 12 | Electrolyte distribution around two like-charged rods: Their effective attractive interaction and angular dependent charge reversal. Journal of Chemical Physics, 2006, 124, 134902.                     | 1.2 | 31        |
| 13 | Competition between excluded-volume and electrostatic interactions for nanogel swelling: effects of the counterion valence and nanogel charge. Physical Chemistry Chemical Physics, 2017, 19, 6838-6848. | 1.3 | 31        |
| 14 | Equilibrium equation of state of a hard sphere binary mixture at very large densities using replica exchange Monte Carlo simulations. Journal of Chemical Physics, 2011, 134, 054504.                    | 1.2 | 30        |
| 15 | Statistical Mechanics Approach to Lock-Key Supramolecular Chemistry Interactions. Physical Review<br>Letters, 2013, 110, 105701.   | 2.9 | 30        |
| 16 | Na-Montmorillonite Hydrates under Basin Conditions:Â Hybrid Monte Carlo and Molecular Dynamics<br>Simulations. Langmuir, 2004, 20, 2010-2016.  | 1.6 | 29        |
| 17 | The DLCA-RLCA transition arising in 2D-aggregation: simulations and mean field theory. European Physical Journal E, 2001, 5, 471-480.  | 0.7 | 25        |
| 18 | Replica exchange Monte Carlo applied to hard spheres. Journal of Chemical Physics, 2009, 131, 144107.  | 1.2 | 24        |

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|----|---|-----|-----------|
| 19 | Conformation change of an isotactic poly (N-isopropylacrylamide) membrane: Molecular dynamics.<br>Journal of Chemical Physics, 2017, 146, 194905.   | 1.2 | 22        |
| 20 | Effect of Confinement on the Interaction between Two Like-Charged Rods. Physical Review Letters, 2006, 97, 018102.  | 2.9 | 20        |
| 21 | Colloidal aggregation with sedimentation: concentration effects. European Physical Journal E, 2004, 13, 165-178.  | 0.7 | 19        |
| 22 | Effect of Temperature on the Cononsolvency of Poly(N-isopropylacrylamide) (PNIPAM) in Aqueous<br>1-Propanol. ACS Applied Polymer Materials, 2019, 1, 2961-2972.                             | 2.0 | 19        |
| 23 | Towards understanding the empty liquid of colloidal platelets: vapour–liquid phase coexistence of square-well oblate ellipsoids. Soft Matter, 2013, 9, 5277.                                | 1.2 | 18        |
| 24 | Constant-force approach to discontinuous potentials. Journal of Chemical Physics, 2013, 138, 214105.  | 1.2 | 18        |
| 25 | A heuristic rule for classification of classical fluids: Master curves for Mie, Yukawa and square-well potentials. Chemical Physics Letters, 2015, 631-632, 26-29.                          | 1.2 | 18        |
| 26 | Simulated Reversible Aggregation Processes for Different Interparticle Potentials: The Cluster Aging<br>Phenomenon. Journal of Physical Chemistry B, 2003, 107, 2180-2188.                  | 1.2 | 17        |
| 27 | Irreversible versus reversible aggregation: Mean field theory and experiments. Journal of Chemical Physics, 2004, 121, 5468-5481.   | 1.2 | 17        |
| 28 | Na-montmorillonite hydrates under ethane rich reservoirs: NPzzT and μPzzT simulations. Journal of<br>Chemical Physics, 2004, 121, 4266-4275.  | 1.2 | 17        |
| 29 | Linking Phase Behavior and Reversible Colloidal Aggregation at Low Concentrations:Â Simulations and<br>Stochastic Mean Field Theory. Journal of Physical Chemistry B, 2007, 111, 5564-5572. | 1.2 | 17        |
| 30 | Corresponding states law for a generalized Lennard-Jones potential. Journal of Chemical Physics, 2015, 143, 024504.   | 1.2 | 17        |
| 31 | P-NIPAM in water–acetone mixtures: experiments and simulations. Physical Chemistry Chemical Physics, 2019, 21, 5106-5116.   | 1.3 | 17        |
| 32 | Population Inversion of a NAHS Mixture Adsorbed into a Cylindrical Pore. Journal of Physical Chemistry C, 2008, 112, 18028-18033.   | 1.5 | 16        |
| 33 | Modeling the aggregation of partially covered particles: Theory and simulation. Physical Review E, 2003, 68, 011404.  | 0.8 | 15        |
| 34 | Stability of Ca-montmorillonite hydrates: A computer simulation study. Journal of Chemical Physics, 2005, 123, 174708.  | 1.2 | 15        |
| 35 | Stability of K-Montmorillonite Hydrates:Â Hybrid MC Simulations. Journal of Chemical Theory and Computation, 2005, 1, 1211-1220.  | 2.3 | 15        |
| 36 | Scaling Laws in the Diffusive Release of Neutral Cargo from Hollow Hydrogel Nanoparticles:<br>Paclitaxel-Loaded Poly(4-vinylpyridine). ACS Nano, 2020, 14, 15227-15240.                     | 7.3 | 15        |

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|----|--|-----|-----------|
| 37 | Coupled aggregation and sedimentation processes: The sticking probability effect. Physical Review E, 2003, 67, 031401.                       | 0.8 | 14        |
| 38 | Coexistence and interfacial properties of triangle-well fluids. Molecular Physics, 2014, 112, 2114-2121.                                     | 0.8 | 13        |
| 39 | Phase diagram of hard squares in slit confinement. Scientific Reports, 2018, 8, 8886.  | 1.6 | 13        |
| 40 | Ordering, clustering, and wetting of hard rods in extreme confinement. Physical Review Research, 2020, 2, .                                  | 1.3 | 13        |
| 41 | Aggregation kinetics of latex microspheres in alcohol–water media. Journal of Colloid and Interface<br>Science, 2007, 310, 471-480.          | 5.0 | 12        |
| 42 | Ion-induced reversibility in the aggregation of hydrophobic colloids. Soft Matter, 2010, 6, 1114.  | 1.2 | 12        |
| 43 | Vapor–liquid surface tension of strong short-range Yukawa fluid. Journal of Chemical Physics, 2011,<br>134, 154702.                          | 1.2 | 12        |
| 44 | Title is missing!. European Physical Journal E, 2002, 7, 153-161.  | 0.7 | 12        |
| 45 | Entropy effects in self-assembling mechanisms: Also a view from the information theory. Journal of<br>Molecular Liquids, 2011, 164, 87-100.  | 2.3 | 11        |
| 46 | Hard ellipsoids: Analytically approaching the exact overlap distance. Journal of Chemical Physics, 2011, 135, 084508.                        | 1.2 | 11        |
| 47 | Stability mechanisms for plate-like nanoparticles immersed in a macroion dispersion. Journal of Physics Condensed Matter, 2009, 21, 424107.  | 0.7 | 10        |
| 48 | Empty liquid state and self-assembly of high valence non-spherical colloidal systems. Soft Matter, 2013, 9, 11178.                           | 1.2 | 10        |
| 49 | Empty liquid phase of colloidal ellipsoids: The role of shape and interaction anisotropy. Journal of<br>Chemical Physics, 2014, 140, 134905. | 1.2 | 10        |
| 50 | Effect of orientational restriction on monolayers of hard ellipsoids. Physical Chemistry Chemical<br>Physics, 2016, 18, 4547-4556.           | 1.3 | 10        |
| 51 | Anomalous structural transition of confined hard squares. Physical Review E, 2016, 94, 050603.   | 0.8 | 9         |
| 52 | Three-step melting of hard superdisks in two dimensions. Physical Review E, 2020, 102, 062603.   | 0.8 | 9         |
| 53 | Communication: Equation of state of hard oblate ellipsoids by replica exchange Monte Carlo. Journal of Chemical Physics, 2011, 134, 201103.  | 1.2 | 8         |
| 54 | Thermodynamic properties of triangle-well fluids in two dimensions: MC and MD simulations. Journal of Chemical Physics, 2016, 145, 174505.   | 1.2 | 8         |

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|----|--|-----|-----------|
| 55 | Entropy Driven Self-Assembly in Charged Lock–Key Particles. Journal of Physical Chemistry B, 2016, 120,<br>5966-5974.  | 1.2 | 8         |
| 56 | Anisotropy-independent packing of confined hard ellipses. Journal of Molecular Liquids, 2021, 333, 115896.   | 2.3 | 8         |
| 57 | Coupled aggregation and sedimentation processes: stochastic mean field theory. Physica A: Statistical<br>Mechanics and Its Applications, 2004, 335, 35-46.                     | 1.2 | 7         |
| 58 | A coil-to-globule transition capable coarse-grained model for poly( <i>N</i> -isopropylacrylamide).<br>Physical Chemistry Chemical Physics, 2020, 22, 17913-17921.             | 1.3 | 7         |
| 59 | Enhanced two-dimensional nematic order in slit-like pores. New Journal of Physics, 2021, 23, 063053.   | 1.2 | 7         |
| 60 | Two rods confined by positive plates: effective forces and charge distribution profiles. Journal of Physics Condensed Matter, 2006, 18, S2335-S2352.                           | 0.7 | 6         |
| 61 | Phase behaviour and separation kinetics of symmetric non-additive hard discs. Molecular Simulation, 2010, 36, 175-185.   | 0.9 | 6         |
| 62 | Expansion of Natural Na <sup>+</sup> – and Ca <sup>2+</sup> –Montmorillonites in the Presence of<br>NaCl and Surfactant Solutions. Energy & Fuels, 2012, 26, 2578-2584.        | 2.5 | 6         |
| 63 | Coexistence and interfacial properties of a triangle-well mimicking the Lennard-Jones fluid and a comparison with noble gases. Journal of Chemical Physics, 2015, 142, 074706. | 1.2 | 6         |
| 64 | Colloid-polymer mixtures under slit confinement. Journal of Chemical Physics, 2017, 146, 104903.   | 1.2 | 6         |
| 65 | Critical behavior of hard squares in strong confinement. Physical Review E, 2017, 95, 042610.  | 0.8 | 6         |
| 66 | Massive replica exchange Monte Carlo algorithm: a tool to access high pressure thermodynamics of hard systems. Physical Chemistry Chemical Physics, 2018, 20, 27490-27500.     | 1.3 | 6         |
| 67 | Assisted crystal growing by tempering metastable vapor–liquid fluids. Chemical Physics Letters, 2011,<br>501, 466-469.   | 1.2 | 5         |
| 68 | Wall–particle interactions and depletion forces in narrow slits. Current Opinion in Colloid and<br>Interface Science, 2015, 20, 24-31.   | 3.4 | 5         |
| 69 | Equivalence between particles and fields: A general statistical mechanics theory for short and long<br>range manyâ€body forces. Fortschritte Der Physik, 2017, 65, 1600072.    | 1.5 | 5         |
| 70 | Ion-specific colloidal aggregation: Population balance equations and potential of mean force. Journal of Chemical Physics, 2011, 135, 134704.                                  | 1.2 | 4         |
| 71 | Phase behaviour of short range triangle well fluids: A comparison with lysozyme suspensions.<br>Journal of Molecular Liquids, 2017, 225, 723-729.                              | 2.3 | 4         |
| 72 | Structure and coexistence properties of shoulder–square well fluids. Journal of Molecular Liquids,<br>2013, 185, 70-75.  | 2.3 | 2         |

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|----|--|-----|-----------|
| 73 | Molecular dynamics simulations of brine-surfactant lamellas surrounded by nitrogen at different reservoir conditions. Journal of Molecular Liquids, 2018, 256, 480-488.  | 2.3 | 2         |
| 74 | Using a Parallel Genetic Algorithm to Fit a Pulsed Townsend Discharge Simulation to Experiments.<br>Communications in Computer and Information Science, 2016, , 343-355. | 0.4 | 2         |
| 75 | Extended law of corresponding states: square-well oblates. Journal of Physics Condensed Matter, 2022, 34, 104002.  | 0.7 | 2         |
| 76 | Coupled aggregation and sedimentation processes: Three-dimensional off-lattice simulations.<br>European Physical Journal E, 2002, 7, 153-161.                            | 0.7 | 1         |
| 77 | Ethane clathrates using different water–ethane models: Molecular dynamics. Physica A: Statistical<br>Mechanics and Its Applications, 2018, 491, 89-100.                  | 1.2 | 1         |
| 78 | The kinetics of irreversible aggregation processes. , 2001, , 87-90.   |     | 1         |
| 79 | The role of the second virial coefficient in the vapor-liquid phase coexistence of anisotropic square-well particles. Journal of Molecular Liquids, 2022, 360, 119528.   | 2.3 | 1         |
| 80 | Parallel Replica Exchange Monte Carlo Applied to Hard Systems. Communications in Computer and<br>Information Science, 2016, , 392-418.                                   | 0.4 | 0         |