# Giulia Rossi

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 73 papers | 4,551 citations | 87723 38 h-index | 102304 66 g-index |
| 74 all docs | 74 docs citations | 74 times ranked | 3899 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Polystyrene perturbs the structure, dynamics, and mechanical properties of DPPC membranes: An experimental and computational study. Journal of Colloid and Interface Science, 2022, 605, 110-119. | 5.0 | 15 |
| 2 | Membrane Phase Drives the Assembly of Gold Nanoparticles on Biomimetic Lipid Bilayers. Journal of Physical Chemistry C, 2022, 126, 4483-4494. | 1.5 | 15 |
| 3 | Ion-bridges and lipids drive aggregation of same-charge nanoparticles on lipid membranes. Nanoscale, 2022, 14, 6912-6921. | 2.8 | 9 |
| 4 | Non-disruptive uptake of anionic and cationic gold nanoparticles in neutral zwitterionic membranes. Scientific Reports, 2021, 11, 1256. | 1.6 | 20 |
| 5 | Cholesterol Hinders the Passive Uptake of Amphiphilic Nanoparticles into Fluid Lipid Membranes. Journal of Physical Chemistry Letters, 2021, 12, 8583-8590. | 2.1 | 12 |
| 6 | A Martini Coarse Grained Model of Citrate-Capped Gold Nanoparticles Interacting with Lipid Bilayers. Journal of Chemical Theory and Computation, 2021, 17, 6597-6609. | 2.3 | 22 |
| 7 | Amphiphilic nanoparticles generate curvature in lipid membranes and shape liposomeâ€“liposome interfaces. Nanoscale, 2021, 13, 16879-16884. | 2.8 | 13 |
| 8 | Amphiphilic gold nanoparticles perturb phase separation in multidomain lipid membranes. Nanoscale, 2020, 12, 19746-19759. | 2.8 | 23 |
| 9 | Water dynamics affects thermal transport at the surface of hydrophobic and hydrophilic irradiated nanoparticles. Nanoscale Advances, 2020, 2, 3181-3190. | 2.2 | 11 |
| 10 | Structure and orientation effects in the coalescence of Au clusters. Nanoscale, 2020, 12, 7688-7699. | 2.8 | 28 |
| 11 | Size-dependent aggregation of hydrophobic nanoparticles in lipid membranes. Nanoscale, 2020, 12, 9452-9461. | 2.8 | 13 |
| 12 | Role of Ligand Conformation on Nanoparticleâ€“Protein Interactions. Journal of Physical Chemistry B, 2019, 123, 1764-1769. | 1.2 | 23 |
| 13 | Anionic nanoparticle-lipid membrane interactions: the protonation of anionic ligands at the membrane surface reduces membrane disruption. RSC Advances, 2019, 9, 13992-13997. | 1.7 | 17 |
| 14 | A Martini coarse-grained model of the calcein fluorescent dye. Journal Physics D: Applied Physics, 2018, 51, 384002. | 1.3 | 20 |
| 15 | Transferable MARTINI Model of Poly(ethylene Oxide). Journal of Physical Chemistry B, 2018, 122, 7436-7449. | 1.2 | 99 |
| 16 | Combining shape-changing with exchange moves in the optimization of nanoalloys. Computational and Theoretical Chemistry, 2017, 1107, 66-73. | 1.1 | 35 |
| 17 | Au Nanoparticles in Lipid Bilayers: A Comparison between Atomistic and Coarse-Grained Models. Journal of Physical Chemistry C, 2017, 121, 10927-10935. | 1.5 | 61 |
| 18 | Interaction of hydrophobic polymers with model lipid bilayers. Scientific Reports, 2017, 7, 6357. | 1.6 | 56 |

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|---|---|---|---|
| 19 | Local Enhancement of Lipid Membrane Permeability Induced by Irradiated Gold Nanoparticles. ACS Nano, 2017, 11, 12553-12561. | 7.3 | 30 |
| 20 | Gold nanoparticles in model biological membranes: A computational perspective. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2380-2389. | 1.4 | 67 |
| 21 | Simulating the interaction of lipid membranes with polymer and ligand-coated nanoparticles. Advances in Physics: X, 2016, 1, 276-296. | 1.5 | 21 |
| 22 | Structures and segregation patterns of Agâ€“Cu and Agâ€“Ni nanoalloys adsorbed on MgO(0 0 1). Journal of Physics Condensed Matter, 2016, 28, 064005. | 0.7 | 23 |
| 23 | Calculating the free energy of transfer of small solutes into a model lipid membrane: Comparison between metadynamics and umbrella sampling. Journal of Chemical Physics, 2015, 143, 144108. | 1.2 | 57 |
| 24 | MARTINI Coarse-Grained Models of Polyethylene and Polypropylene. Journal of Physical Chemistry B, 2015, 119, 8209-8216. | 1.2 | 82 |
| 25 | Metastability of the atomic structures of size-selected gold nanoparticles. Nanoscale, 2015, 7, 6498-6503. | 2.8 | 94 |
| 26 | Monolayer-Protected Anionic Au Nanoparticles Walk into Lipid Membranes Step by Step. Journal of Physical Chemistry Letters, 2015, 6, 3175-3179. | 2.1 | 79 |
| 27 | Hydrophobic Compounds Reshape Membrane Domains. PLoS Computational Biology, 2014, 10, e1003873. | 1.5 | 58 |
| 28 | Modeling the effect of nano-sized polymer particles on the properties of lipid membranes. Journal of Physics Condensed Matter, 2014, 26, 503101. | 0.7 | 34 |
| 29 | Lipid Membranes as Solvents for Carbon Nanoparticles. Physical Review Letters, 2014, 112, 068102. | 2.9 | 61 |
| 30 | Polystyrene Nanoparticles Perturb Lipid Membranes. Journal of Physical Chemistry Letters, 2014, 5, 241-246. | 2.1 | 266 |
| 31 | Chemical ordering in magic-size Agâ€“Pd nanoparticles. Physical Chemistry Chemical Physics, 2014, 16, 26478-26484. | 1.3 | 28 |
| 32 | Tuning the Structure of Nanoparticles by Small Concentrations of Impurities. Chemistry of Materials, 2014, 26, 3354-3356. | 3.2 | 44 |
| 33 | Partitioning and solubility of C<sub>60</sub>fullerene in lipid membranes. Physica Scripta, 2013, 87, 058503. | 1.2 | 21 |
| 34 | Modeling self-organization of thin strained metallic overlayers from atomic to micron scales. Physical Review B, 2013, 88, . | 1.1 | 12 |
| 35 | Improved Angle Potentials for Coarse-Grained Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2013, 9, 3282-3292. | 2.3 | 67 |
| 36 | Dynamic Heterogeneity in Random and Gradient Copolymers: A Computational Investigation. Macromolecules, 2013, 46, 5066-5079. | 2.2 | 32 |

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|---|---|---|---|
| 37 | Patterning of Heteroepitaxial Overlayers from Nano to Micron Scales. Physical Review Letters, 2012, 108, 226102. | 2.9 | 54 |
| 38 | Molecular Dynamics Study of a MARTINI Coarse-Grained Polystyrene Brush in Good Solvent: Structure and Dynamics. Macromolecules, 2012, 45, 563-571. | 2.2 | 30 |
| 39 | Influence of nanoparticle size, loading, and shape on the mechanical properties of polymer nanocomposites. Journal of Chemical Physics, 2012, 137, 214901. | 1.2 | 77 |
| 40 | A Coarse-Grained MARTINI Model of Polyethylene Glycol and of Polyoxyethylene Alkyl Ether Surfactants. Journal of Physical Chemistry B, 2012, 116, 14353-14362. | 1.2 | 90 |
| 41 | Correlations between mechanical, structural, and dynamical properties of polymer nanocomposites. Physical Review E, 2012, 85, 041803. | 0.8 | 35 |
| 42 | A MARTINI Coarse-Grained Model of a Thermoset Polyester Coating. Macromolecules, 2011, 44, 6198-6208. | 2.2 | 66 |
| 43 | Coarse-graining polymers with the MARTINI force-field: polystyrene as a benchmark case. Soft Matter, 2011, 7, 698-708. | 1.2 | 216 |
| 44 | Structures of AgPd nanoclusters adsorbed on MgO(100): A computational study. Surface Science, 2011, 605, 483-488. | 0.8 | 24 |
| 45 | Stress release mechanisms for Cu on Pd(111) in the submonolayer and monolayer regimes. Physical Review B, 2010, 81, . | 1.1 | 13 |
| 46 | Exotic Supported CoPt Nanostructures: From Clusters to Wires. Journal of Physical Chemistry Letters, 2010, 1, 111-115. | 2.1 | 41 |
| 47 | Prediction of the structures of free and oxide-supported nanoparticles by means of atomistic approaches: the benchmark case of nickel clusters. Physical Chemistry Chemical Physics, 2010, 12, 8564. | 1.3 | 11 |
| 48 | Structures of gas-phase Agâ€“Pd nanoclusters: A computational study. Journal of Chemical Physics, 2010, 132, 234703. | 1.2 | 44 |
| 49 | Canonical molecular dynamics simulations for crystallization of metallic nanodroplets on MgO(100). Physical Review B, 2009, 79, . | 1.1 | 8 |
| 50 | Structures of metal nanoparticles adsorbed on MgO(001). II. Pt and Pd. Journal of Chemical Physics, 2009, 130, 174703. | 1.2 | 48 |
| 51 | Formation Pathways and Energetic Stability of Icosahedral Ag<SUB>shell</SUB>Co<SUB>core</SUB> Nanoclusters. Journal of Computational and Theoretical Nanoscience, 2009, 6, 841-848. | 0.4 | 27 |
| 52 | Searching for low-energy structures of nanoparticles: a comparison of different methods and algorithms. Journal of Physics Condensed Matter, 2009, 21, 084208. | 0.7 | 102 |
| 53 | Structures of metal nanoparticles adsorbed on MgO(001). I. Ag and Au. Journal of Chemical Physics, 2009, 130, 174702. | 1.2 | 75 |
| 54 | Structure and chemical ordering in CoPt nanoalloys. Faraday Discussions, 2008, 138, 193-210. | 1.6 | 109 |

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|---|---|---|---|
| 55 | Global optimisation and growth simulation of AuCu clusters. Faraday Discussions, 2008, 138, 49-58. | 1.6 | 47 |
| 56 | Interface-Stabilized Phases of Metal-on-Oxide Nanodots. ACS Nano, 2008, 2, 1849-1856. | 7.3 | 58 |
| 57 | Melting of core-shell Ag-Ni and Ag-Co nanoclusters studied via molecular dynamics simulations. Physical Review B, 2008, 77, . | 1.1 | 75 |
| 58 | Freezing of gold nanoclusters into poly-decahedral structures. Nanotechnology, 2007, 18, 225706. | 1.3 | 53 |
| 59 | Epitaxy, Truncations, and Overhangs in Palladium Nanoclusters Adsorbed on MgO(001). Physical Review Letters, 2007, 98, 156101. | 2.9 | 38 |
| 60 | Chapter 2 Structural properties of pure and binary nanoclusters investigated by computer simulations. Theoretical and Computational Chemistry, 2007, , 35-58. | 0.2 | 0 |
| 61 | Structure, Melting, and Thermal Stability of 55 Atom Agâ^'Au Nanoalloys. Journal of Physical Chemistry C, 2007, 111, 9157-9165. | 1.5 | 76 |
| 62 | Theoretical study of structure and segregation in 38-atom Ag-Au nanoalloys. European Physical Journal D, 2007, 43, 53-56. | 0.6 | 35 |
| 63 | Global Optimization Study of Small (10 â‰¤Nâ‰¤ 120) Pd Clusters Supported on MgO(100). Journal of Physical Chemistry B, 2006, 110, 7436-7442. | 1.2 | 21 |
| 64 | Electronic and Structural Shell Closure in AgCu and AuCu Nanoclusters. Journal of Physical Chemistry B, 2006, 110, 23197-23203. | 1.2 | 90 |
| 65 | Global optimization by excitable walkers. Chemical Physics Letters, 2006, 423, 17-22. | 1.2 | 69 |
| 66 | Quantum effects on the structure of pure and binary metallic nanoclusters. Physical Review B, 2005, 72, . | 1.1 | 174 |
| 67 | Global optimization of bimetallic cluster structures. I. Size-mismatched Agâ€“Cu, Agâ€“Ni, and Auâ€“Cu systems. Journal of Chemical Physics, 2005, 122, 194308. | 1.2 | 307 |
| 68 | Global optimization of bimetallic cluster structures. II. Size-matched Ag-Pd, Ag-Au, and Pd-Pt systems. Journal of Chemical Physics, 2005, 122, 194309. | 1.2 | 192 |
| 69 | Single Impurity Effect on the Melting of Nanoclusters. Physical Review Letters, 2005, 95, 035501. | 2.9 | 182 |
| 70 | Melting of metallic nanoclusters: Alloying and support effects. European Journal of Control, 2005, 30, 303-313. | 1.6 | 4 |
| 71 | Dynamical effects in the formation of magic cluster structures. Physical Review B, 2004, 69, . | 1.1 | 64 |
| 72 | Growth and energetic stability of AgNi coreâ€“shell clusters. Surface Science, 2004, 566-568, 192-196. | 0.8 | 66 |

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|---|---|---|---|
| 73 | Magic Polyicosahedral Core-Shell Clusters. Physical Review Letters, 2004, 93, 105503. | 2.9 | 361 |