# GermÃ¡n A Rojas-Lorenzo

List of Publications by Year
in descending order

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| 35 | 382 | 840776 11 | 794594 19 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 35 | 35 | 35 | 192 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The medium response to an impulsive redistribution of charge in solid argon: Molecular dynamics simulations and normal mode analysis. Journal of Chemical Physics, 2001, 114, 5264-5272. | 3.0 | 39 |
| 2 | Ultrafast structural dynamics in electronically excited solid neon. II.â€ƒMolecular-dynamics simulations of the electronic bubble formation. Physical Review B, 2003, 67, . | 3.2 | 38 |
| 3 | Ultrafast expansion and vibrational coherences of electronic `Bubbles' in solid neon. Chemical Physics Letters, 2002, 362, 31-38. | 2.6 | 37 |
| 4 | Theoeretical study of the physical adsorption of aspirin on natural clinoptilolite. Microporous and Mesoporous Materials, 1998, 23, 247-252. | 4.4 | 28 |
| 5 | The intermolecular potential of NO(A2Î£)â€“Ne: An ab initio study. Chemical Physics Letters, 2006, 421, 389-394. | 2.6 | 26 |
| 6 | Dissipative Bohmian mechanics within the Caldirolaâ€“Kanai framework: A trajectory analysis of wave-packet dynamics in viscid media. Annals of Physics, 2014, 347, 1-20. | 2.8 | 26 |
| 7 | Linear response theory of activated surface diffusion with interacting adsorbates. Chemical Physics, 2010, 370, 180-193. | 1.9 | 24 |
| 8 | Dissipative geometric phase and decoherence in parity-violating chiral molecules. Journal of Chemical Physics, 2012, 136, 174505. | 3.0 | 16 |
| 9 | Study of the structural photoinduced dynamics of a solid Kr matrix with an NO impurity. European Physical Journal D, 2003, 25, 149-155. | 1.3 | 15 |
| 10 | Nonadiabatic Dynamics of Excited Hg(3P1) in Ar Matrixesâ€. Journal of Physical Chemistry A, 2003, 107, 8225-8231. | 2.5 | 15 |
| 11 | An effective temperature approach for molecular dynamics simulations of quantum solids. Chemical Physics Letters, 2006, 429, 450-456. | 2.6 | 14 |
| 12 | 2-Chloromalonaldehyde, a model system of resonance-assisted hydrogen bonding: vibrational investigation. Physical Chemistry Chemical Physics, 2018, 20, 12888-12897. | 2.8 | 10 |
| 13 | Dynamics of structural relaxation upon Rydberg excitation of an NO impurity in rare gas solid matrices. Physica Status Solidi (B): Basic Research, 2005, 242, 1747-1753. | 1.5 | 9 |
| 14 | Two-bath model for activated surface diffusion of interacting adsorbates. Journal of Chemical Physics, 2010, 132, 054704. | 3.0 | 9 |
| 15 | NO in Kr and Xe solids: Molecular dynamics and normal mode analysis. Computational and Theoretical Chemistry, 2005, 730, 255-261. | 1.5 | 8 |
| 16 | Quantum reflection of rare-gas atoms and clusters from a grating. Physical Review A, 2018, 98, . | 2.5 | 8 |
| 17 | Dynamics of exciplex formation in rare gas media. Chemical Physics, 2009, 362, 34-40. | 1.9 | 7 |
| 18 | Photoinduced Dynamics with Constrained Vibrational Motion: FrozeNM Algorithm. Journal of Chemical Theory and Computation, 2020, 16, 7289-7298. | 5.3 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Cluster analysis from molecular similarity matrices using a non-linear neural network. Journal of Mathematical Chemistry, 1996, 20, 385-394. | 1.5 | 6 |
| 20 | A Langevin Canonical Approach to the Dynamics of Chiral Systems: Populations and Coherences. Chirality, 2013, 25, 514-520. | 2.6 | 6 |
| 21 | Quantum threshold reflection of He-atom beams from rough surfaces. Physical Review A, 2020, 101, . | 2.5 | 6 |
| 22 | Charge-transfer molecular dynamics of aluminium nitride. Chemical Physics Letters, 2002, 356, 127-132. | 2.6 | 4 |
| 23 | On the Local Relaxation of Solid Neon upon Rydberg Excitation of a NO Impurity: The Role of the NO(A)â^Ne Interaction Potential and Zero-Point Quantum Delocalization. Journal of Physical Chemistry A, 2009, 113, 14399-14406. | 2.5 | 4 |
| 24 | Effects of trapping site on the spectroscopy of 1P1 excited group 12 metal atoms in rare gas matrices. Low Temperature Physics, 2019, 45, 697-706. | 0.6 | 4 |
| 25 | Quantum Zeno and anti-Zeno effects in surface diffusion of interacting adsorbates. Journal of Physics Condensed Matter, 2012, 24, 104013. | 1.8 | 3 |
| 26 | Hgâ€“Xe Exciplex Formation in Mixed Xe/Ar Matrices: Molecular Dynamics and Luminescence Study. Journal of Physical Chemistry A, 2015, 119, 2307-2317. | 2.5 | 3 |
| 27 | A Langevin Canonical Approach to the Dynamics of Chiral Systems: Thermal Averages and Heat Capacity. Chirality, 2014, 26, 319-325. | 2.6 | 2 |
| 28 | Surface Diffusion by Means of Stochastic Wave Functions. The Ballistic Regime. Mathematics, 2021, 9, 362. | 2.2 | 2 |
| 29 | Surface diffusion within the Caldeiraâ€“Leggett formalism. Physical Chemistry Chemical Physics, 2022, 24, 15871-15890. | 2.8 | 2 |
| 30 | Testing LiAr interaction through the relaxation dynamics of lithium doped argon matrices: Intermediate energy barrier of the C2Î£+ state. Chemical Physics Letters, 2006, 426, 318-323. | 2.6 | 1 |
| 31 | Femtosecond response in rare gas matrices doped with NO impurities: A stochastic approach. Chemical Physics Letters, 2010, 484, 349-353. | 2.6 | 1 |
| 32 | A Langevin Canonical Approach to the Study of Quantum Stochastic Resonance in Chiral Molecules. Entropy, 2016, 18, 354. | 2.2 | 1 |
| 33 | Dynamics of NO(A2Î£+ â†•X2Î) photoexcitation in rare gas and H2 solid matrices. European Physical Journal D, 2018, 72, 1. | 1.3 | 1 |
| 34 | Topical Issue on atomic cluster collisions. European Physical Journal D, 2019, 73, 1. | 1.3 | 0 |
| 35 | Theoretical study of â€œtrapping sitesâ€•in cryogenic rare gas solids doped with Î²-dicarbonyl molecules. Low Temperature Physics, 2019, 45, 317-324. | 0.6 | 0 |