

Luiz A Ribeiro

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

655
citations

14
h-index

20
g-index

101
ext. papers

755
ext. citations

3.4
avg, IF

4.45
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 96 | Outcome of sex determination from ulnar and radial ridge densities of BraziliansRfingerprints: Applying an existing method to a new population.. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2022 , 62, 181-192 | 2 | 0 |
| 95 | Dynamics and structural transformations of carbon onion-like structures under high-velocity impacts. <i>Carbon</i> , 2022 , 189, 422-429 | 10.4 | 0 |
| 94 | Charge transport in cove-type graphene nanoribbons: The role of quasiparticles. <i>Synthetic Metals</i> , 2022 , 287, 117056 | 3.6 | 1 |
| 93 | On the Stabilization of Carbynes Encapsulated in Penta-Graphene Nanotubes: a DFT Study. <i>Journal of Molecular Modeling</i> , 2021 , 27, 318 | 2 | 1 |
| 92 | On the electronic structure of a recently synthesized graphene-like BCN monolayer from bis-BN cyclohexane with single-atom vacancies: a DFT study. <i>Electronic Structure</i> , 2021 , 3, 014006 | 2.6 | 0 |
| 91 | Charge localization and hopping in a topologically engineered graphene nanoribbon. <i>Scientific Reports</i> , 2021 , 11, 5142 | 4.9 | 2 |
| 90 | Intrinsic properties of bipolarons in armchair graphene nanoribbons. <i>Chemical Physics Letters</i> , 2021 , 769, 138387 | 2.5 | |
| 89 | Electronic and structural properties of Janus MoSSe/MoX ₂ (X = S,Se) in-plane heterojunctions: A DFT study. <i>Chemical Physics Letters</i> , 2021 , 771, 138495 | 2.5 | 1 |
| 88 | Predicting the energetic stabilization of Janus-MoSSe/AlN heterostructures: A DFT study. <i>Chemical Physics Letters</i> , 2021 , 771, 138465 | 2.5 | 2 |
| 87 | Optoelectronic properties of amorphous carbon-based nanotube and nanoscroll. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 130, 114683 | 3 | 3 |
| 86 | Polaron transport in porous graphene nanoribbons. <i>Computational Materials Science</i> , 2021 , 194, 110423 | 3.2 | |
| 85 | A DFT study on the electronic structure of in-plane heterojunctions of graphene and hexagonal boron nitride nanoribbons. <i>Electronic Structure</i> , 2021 , 3, 024005 | 2.6 | 0 |
| 84 | Theoretical prediction of electron mobility in birhodanine crystals and their sulfur analogs. <i>Chemical Physics Letters</i> , 2021 , 763, 138226 | 2.5 | |
| 83 | Self-folding and self-scrolling mechanisms of edge-deformed graphene sheets: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 15313-15318 | 3.6 | |
| 82 | On the adsorption mechanism of caffeine on MAPbI ₃ perovskite surfaces: a combined UMC-DFT study. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10807-10813 | 3.6 | 1 |
| 81 | O ₂ adsorption on defective Penta-Graphene lattices: A DFT study. <i>Chemical Physics Letters</i> , 2021 , 763, 138229 | 2.5 | 3 |
| 80 | A reactive molecular dynamics study on the mechanical properties of a recently synthesized amorphous carbon monolayer converted into a nanotube/nanoscroll. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 9089-9095 | 3.6 | 3 |

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|----|---|------|----|
| 79 | Transport of quasiparticles in coronene-based graphene nanoribbons. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12100-12107 | 7.1 | 5 |
| 78 | Polaron Diffusion in Pentathienoacene Crystals. <i>Scientific Reports</i> , 2020 , 10, 7665 | 4.9 | 1 |
| 77 | Bosonic Charge Carriers in Necklace-like Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5538-5543 | 6.4 | 1 |
| 76 | On the Mechanical Properties and Thermal Stability of a Recently Synthesized Monolayer Amorphous Carbon. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14855-14860 | 3.8 | 7 |
| 75 | Structural and electronic properties of defective AlN/GaN hybrid nanostructures. <i>Computational Materials Science</i> , 2020 , 183, 109860 | 3.2 | 2 |
| 74 | Tuning Penta-Graphene Electronic Properties Through Engineered Line Defects. <i>Scientific Reports</i> , 2020 , 10, 8014 | 4.9 | 5 |
| 73 | Ultrafast direct generation of quasiparticles in graphene nanoribbons. <i>Carbon</i> , 2020 , 158, 553-558 | 10.4 | 12 |
| 72 | Charge Transport Mechanism in Chevron-Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22392-22398 | 3.8 | 3 |
| 71 | On the Elastic Properties and Fracture Patterns of MoX ₂ (X = S, Se, Te) Membranes: A Reactive Molecular Dynamics Study. <i>Condensed Matter</i> , 2020 , 5, 73 | 1.8 | 3 |
| 70 | On the elastic properties of single-walled phagraphene nanotubes. <i>Chemical Physics Letters</i> , 2020 , 756, 137830 | 2.5 | 1 |
| 69 | Temperature Effects on the Fracture Dynamics and Elastic Properties of Popgraphene Membranes. <i>ChemPhysChem</i> , 2020 , 21, 1918-1924 | 3.2 | 1 |
| 68 | Thermomechanical insight into the stability of nanoporous graphene membranes. <i>FlatChem</i> , 2020 , 24, 100196 | 5.1 | 2 |
| 67 | Tuning magnetic properties of penta-graphene bilayers through doping with boron, nitrogen, and oxygen. <i>Scientific Reports</i> , 2020 , 10, 16748 | 4.9 | 4 |
| 66 | Electronic structure properties of transition metal dichalcogenide nanotubes: a DFT benchmark. <i>Journal of Molecular Modeling</i> , 2019 , 25, 290 | 2 | 5 |
| 65 | Dynamical exciton decay in organic materials: the role of bimolecular recombination. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 1711-1716 | 3.6 | 1 |
| 64 | Stationary polaron properties in organic crystalline semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 2727-2733 | 3.6 | 6 |
| 63 | Polaron properties in pentathienoacene crystals. <i>Synthetic Metals</i> , 2019 , 253, 34-39 | 3.6 | 5 |
| 62 | Tuning the electronic structure properties of MoS monolayers with carbon doping. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 11168-11174 | 3.6 | 7 |

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|----|---|-----|----|
| 61 | Stationary and Dynamical Properties of Polarons in Anisotropic C60-Crystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13410-13418 | 3.8 | 4 |
| 60 | Bloch Oscillations in Fibonacci lattices: polaron formation. <i>Journal of Molecular Modeling</i> , 2019 , 25, 102 | 2 | 1 |
| 59 | Polaron formation at impurity-endowed lattices. <i>Journal of Molecular Modeling</i> , 2019 , 25, 95 | 2 | |
| 58 | Electronic and structural properties of vacancy endowed BCN heterostructures. <i>Chemical Physics Letters</i> , 2019 , 724, 103-109 | 2.5 | 6 |
| 57 | Defective graphene domains in boron nitride sheets. <i>Journal of Molecular Modeling</i> , 2019 , 25, 230 | 2 | 5 |
| 56 | Role of Exciton Density in Organic Materials: Diffusion Length, Lifetime, and Quantum Efficiency. <i>Chemistry of Materials</i> , 2019 , 31, 6818-6823 | 9.6 | 6 |
| 55 | Stability conditions of armchair graphene nanoribbon bipolarons. <i>Journal of Molecular Modeling</i> , 2019 , 25, 245 | 2 | 7 |
| 54 | Polaron properties in 2D organic molecular crystals: directional dependence of non-local electron-phonon coupling. <i>Journal of Molecular Modeling</i> , 2019 , 25, 149 | 2 | 1 |
| 53 | Inferring changes in π -stack mobility induced by aging from vibronic transitions in poly(3-hexylthiophene-2,5-diyl) films. <i>Synthetic Metals</i> , 2019 , 247, 276-284 | 3.6 | 2 |
| 52 | Bipolaron Dynamics in Graphene Nanoribbons. <i>Scientific Reports</i> , 2019 , 9, 2909 | 4.9 | 12 |
| 51 | Modeling Polaron Diffusion in Oligoacene-like Crystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4715-4720 | 3.2 | 5 |
| 50 | Dynamical Mechanism of Polarons and Bipolarons in Poly(p-Phenylene Vinylene). <i>Scientific Reports</i> , 2019 , 9, 18131 | 4.9 | 2 |
| 49 | Adsorption of carbon dioxide and ammonia in transition metal-doped boron nitride nanotubes. <i>Journal of Molecular Modeling</i> , 2019 , 25, 359 | 2 | 2 |
| 48 | Effective Mass of Quasiparticles in Armchair Graphene Nanoribbons. <i>Scientific Reports</i> , 2019 , 9, 17990 | 4.9 | 4 |
| 47 | Electronic couplings and rates of excited state charge transfer processes at poly(thiophene-co-quinoxaline)-PCBM interfaces: two- versus multi-state treatments. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25606-25625 | 3.6 | 4 |
| 46 | Concentration effects on the thermally-activated transport of polarons in conducting polymers. <i>Chemical Physics Letters</i> , 2019 , 716, 162-166 | 2.5 | 5 |
| 45 | Quasiparticle description of transition metal dichalcogenide nanoribbons. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 7 |
| 44 | On the Angular Distribution of the H+Li Cross Sections: a Converged Time-Independent Quantum Scattering Study. <i>Scientific Reports</i> , 2018 , 8, 1044 | 4.9 | 3 |

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| 43 | Spin-Orbit Effects on the Dynamical Properties of Polarons in Graphene Nanoribbons. <i>Scientific Reports</i> , 2018 , 8, 1914 | 4.9 | 7 |
| 42 | Charge Carrier Scattering in Polymers: A New Neutral Coupled Soliton Channel. <i>Scientific Reports</i> , 2018 , 8, 6595 | 4.9 | 3 |
| 41 | Dynamic Formation of Bipolaron-Exciton Complexes in Conducting Polymers. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3866-3872 | 2.8 | 1 |
| 40 | Kinetics of the OH+HCl- \rightarrow H ₂ O+Cl reaction: Rate determining roles of stereodynamics and roaming and of quantum tunneling. <i>Journal of Computational Chemistry</i> , 2018 , 39, 2508-2516 | 3.5 | 15 |
| 39 | Influence of quasi-particle density over polaron mobility in armchair graphene nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 16712-16718 | 3.6 | 14 |
| 38 | Krypton-methanol spectroscopic study: Assessment of the complexation dynamics and the role of the van der Waals interaction. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 205, 179-185 | 4.4 | 3 |
| 37 | Modeling optical properties of polymer-solvent complexes: the chloroform influence on the P3HT and N2200 absorption spectra. <i>Journal of Molecular Modeling</i> , 2017 , 23, 37 | 2 | |
| 36 | Polaron stability in oligoacene crystals. <i>Journal of Molecular Modeling</i> , 2017 , 23, 89 | 2 | 3 |
| 35 | Electron-phonon coupling effects on intrachain polaron recombination in conjugated polymers. <i>Journal of Molecular Modeling</i> , 2017 , 23, 42 | 2 | 2 |
| 34 | Optimally tuned functionals improving the description of optical and electronic properties of the phthalocyanine molecule. <i>Journal of Molecular Modeling</i> , 2017 , 23, 71 | 2 | 10 |
| 33 | Bipolaron assisted Bloch-like oscillations in organic lattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 1915-1919 | 2.3 | 1 |
| 32 | Nonadiabatic dynamics of injected holes in conjugated polymers. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 10000-10008 | 3.6 | 5 |
| 31 | Bloch oscillations in organic and inorganic polymers. <i>Journal of Chemical Physics</i> , 2017 , 146, 144903 | 3.9 | 1 |
| 30 | Optical and electronic structure description of metal-doped phthalocyanines. <i>Journal of Molecular Modeling</i> , 2017 , 23, 172 | 2 | 1 |
| 29 | Combined UMC- DFT prediction of electron-hole coupling in unit cells of pentacene crystals. <i>Journal of Molecular Modeling</i> , 2017 , 23, 153 | 2 | 3 |
| 28 | Polaron dynamics in anisotropic Holstein-Peierls systems. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 4078-4084 | 3.6 | 9 |
| 27 | Bond length pattern associated with charge carriers in armchair graphene nanoribbons. <i>Journal of Molecular Modeling</i> , 2017 , 23, 293 | 2 | 8 |
| 26 | Optical properties of P3HT and N2200 polymers: a performance study of an optimally tuned DFT functional. <i>Journal of Molecular Modeling</i> , 2017 , 24, 32 | 2 | 1 |

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| 25 | Polaron dynamics in oligoacene stacks. <i>Journal of Molecular Modeling</i> , 2017 , 23, 257 | 2 | 4 |
| 24 | A DFT study of a set of natural dyes for organic electronics. <i>Journal of Molecular Modeling</i> , 2017 , 23, 3432 | | 12 |
| 23 | Experimental and theoretical description of the optical properties of Myrcia sylvatica essential oil. <i>Journal of Molecular Modeling</i> , 2017 , 23, 196 | 2 | 2 |
| 22 | Impact of the electron-phonon coupling symmetry on the polaron stability and mobility in organic molecular semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1386-91 | 3.6 | 17 |
| 21 | Trap-assisted charge transport at conjugated polymer interfaces. <i>Chemical Physics Letters</i> , 2016 , 644, 121-126 | 2.5 | 5 |
| 20 | Impact of the Electron-Phonon Interactions on the Polaron Dynamics in Graphene Nanoribbons. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 4901-6 | 2.8 | 16 |
| 19 | Modeling the Emission Spectra of Organic Molecules: A Competition between Franck-Condon and Nuclear Ensemble Methods. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 5380-8 | 2.8 | 9 |
| 18 | Concentration effects on intrachain polaron recombination in conjugated polymers. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1299-308 | 3.6 | 6 |
| 17 | Polaron stability in molecular semiconductors: theoretical insight into the impact of the temperature, electric field and the system dimensionality. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8973-82 | 3.6 | 30 |
| 16 | Impurity effects on polaron dynamics in graphene nanoribbons. <i>Carbon</i> , 2015 , 91, 171-177 | 10.4 | 24 |
| 15 | Encapsulated β -carotene in ZnO nanotubes: Theoretical insight into the stabilization dynamics. <i>Chemical Physics Letters</i> , 2015 , 636, 62-66 | 2.5 | 6 |
| 14 | Transport of Polarons in Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 510-4 | 6.4 | 36 |
| 13 | Critical temperature and products of intrachain polaron recombination in conjugated polymers. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 17072-80 | 3.6 | 33 |
| 12 | Temperature effects on the scattering of polarons and bipolarons in organic conductors. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 6272-7 | 2.8 | 9 |
| 11 | Reactive Scattering between Excitons and Charge Carriers in Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23451-23458 | 3.8 | 12 |
| 10 | Singlet-singlet exciton recombination: theoretical insight into the influence of high density regime of excitons in conjugated polymers. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 5250-7 | 3.4 | 7 |
| 9 | Temperature effects on intrachain recombination of bipolarons in conjugated polymers. <i>Chemical Physics Letters</i> , 2014 , 614, 151-155 | 2.5 | 11 |
| 8 | Effects of temperature and electric field induced phase transitions on the dynamics of polarons and bipolarons. <i>New Journal of Chemistry</i> , 2013 , 37, 2829 | 3.6 | 41 |

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| 7 | Impurity effects and temperature influence on the exciton dissociation dynamics in conjugated polymers. <i>Chemical Physics Letters</i> , 2013 , 580, 108-114 | 2.5 | 19 |
| 6 | Predicting the equilibrium structure of organic semiconductors with genetic algorithms. <i>Chemical Physics Letters</i> , 2013 , 555, 168-172 | 2.5 | 15 |
| 5 | Dynamical study of impurity effects on bipolaron-bipolaron and bipolaron-polaron scattering in conjugated polymers. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 11801-11 | 3.4 | 17 |
| 4 | Impurity effects on polaron-exciton formation in conjugated polymers. <i>Journal of Chemical Physics</i> , 2013 , 139, 174903 | 3.9 | 18 |
| 3 | Spectroscopic properties of the molecular ion in the $8k_B T$ and $10k_B T$ electronic states. <i>Journal of Molecular Spectroscopy</i> , 2012 , 273, 26-29 | 1.3 | 11 |
| 2 | Dynamics of Photogenerated Polaron-Excitons in Organic Semiconductors. <i>Physics Procedia</i> , 2012 , 28, 112-116 | | 14 |
| 1 | Exciton dissociation and charge carrier recombination processes in organic semiconductors. <i>Journal of Chemical Physics</i> , 2011 , 135, 224901 | 3.9 | 30 |