

Lus Gc Rego

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1573560/luis-gc-rego-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

56
papers

2,174
citations

21
h-index

46
g-index

59
ext. papers

2,291
ext. citations

4.4
avg, IF

4.98
L-index

#	Paper	IF	Citations
56	Energetics of the charge generation in organic donor-acceptor interfaces.. <i>Journal of Chemical Physics</i> , 2022 , 156, 024104	3.9	1
55	Conformational and Binding Effects on Interfacial Electron Transfer from Dual-Linker Sensitizers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8667-8676	3.8	1
54	Chirality-Induced Propagation Velocity Asymmetry. <i>Nano Letters</i> , 2021 , 21, 8190-8196	11.5	3
53	Synthesis and Properties of Perylene-Bridge-Anchored Chromophoric Compounds. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 6330-6343	2.8	2
52	Vibronic Effects in the Ultrafast Interfacial Electron Transfer of Perylene-Sensitized TiO ₂ Surfaces. <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	9
51	Modulating the Photoisomerization Mechanism of Semiconductor-Bound Azobenzene-Functionalized Compounds. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5692-5698	3.8	10
50	Electronic-Vibrational Coupling and Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23760-23772	3.8	7
49	Charge Transfer Driven Structural Relaxation in a Push-Pull Azobenzene Dye-Semiconductor Complex. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5926-5933	6.4	10
48	Inferring Protonation States of Hydroxamate Adsorbates on TiO ₂ Surfaces. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11985-11990	3.8	5
47	Charge Generation in Organic Solar Cells: Interplay of Quantum Dynamics, Decoherence, and Recombination. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23276-23286	3.8	10
46	Superconducting Qubits as Mechanical Quantum Engines. <i>Physical Review Letters</i> , 2017 , 119, 090601	7.4	4
45	A Nonadiabatic Excited State Molecular Mechanics/Extended H \ddot{u} ckel Ehrenfest Method. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 27688-27698	3.8	17
44	Quantum Dynamics Simulations of Excited State Energy Transfer in a Zinc-Free-Base Porphyrin Dyad. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 8075-8084	2.8	11
43	Vibronic and Coherent Effects on Interfacial Electron Transfer Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4927-35	6.4	31
42	Coupled quantum-classical method for long range charge transfer: relevance of the nuclear motion to the quantum electron dynamics. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 134206	1.8	7
41	Crucial Role of Nuclear Dynamics for Electron Injection in a Dye-Semiconductor Complex. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2393-8	6.4	42
40	Intramolecular Polarization Induces Electron-Hole Charge Separation in Light-Harvesting Molecular Triads. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 126-134	3.8	36

39	Surface Effects and Adsorption of Methoxy Anchors on Hybrid Lead Iodide Perovskites: Insights for Spiro-MeOTAD Attachment. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 26947-26954	3.8	95
38	What Makes Hydroxamate a Promising Anchoring Group in Dye-Sensitized Solar Cells? Insights from Theoretical Investigation. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3992-9	6.4	58
37	Theoretical investigation of the adsorption, IR, and electron injection of hydroxamate anchor at the TiO ₂ anatase (1 0 1) surface. <i>RSC Advances</i> , 2014 , 4, 19690-19693	3.7	23
36	Ultrafast Interfacial Charge-Transfer Dynamics in a Donor-Acceptor Chromophore Sensitized TiO ₂ Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4824-4835	3.8	32
35	Chapter 4:Modelling electron quantum dynamics in large molecular systems. <i>Chemical Modelling</i> , 2013 , 102-126	2	9
34	Decoherence effects on quantum control by reverse optimized pulse sequences. <i>Physical Review A</i> , 2012 , 86,	2.6	4
33	Coupled Electron-Hole Quantum Dynamics on Dye-Sensitized TiO ₂ Semiconductors. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21169-21178	3.8	32
32	Subpicosecond Dynamics of Metal-to-Ligand Charge-Transfer Excited States in Solvated [Ru(bpy) ₃] ²⁺ Complexes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15617-15626	3.8	34
31	Visible Light Sensitization of TiO ₂ Surfaces with Alq ₃ Complexes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1317-1325	3.8	32
30	Study of Redox Species and Oxygen Vacancy Defects at TiO ₂ Electrolyte Interfaces. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 19433-19442	3.8	35
29	Diffusion, reaction and forced convection in electrochemical cells. <i>Journal of Electroanalytical Chemistry</i> , 2009 , 628, 21-26	4.1	9
28	Coherent control of quantum dynamics with sequences of unitary phase-kick pulses. <i>Annual Review of Physical Chemistry</i> , 2009 , 60, 293-320	15.7	30
27	Effect of intermittent convection movements on voltammogram and current transients. <i>Journal of Chemical Physics</i> , 2008 , 128, 054501	3.9	1
26	Multiple unitary-pulses for coherent-control of tunnelling and decoherence. <i>Journal of Modern Optics</i> , 2007 , 54, 2617-2627	1.1	3
25	Heat capacity of suspended phonon cavities. <i>Physical Review B</i> , 2007 , 75,	3.3	4
24	Coherent control of tunnelling dynamics in functionalized semiconductor nanostructures: a quantum-control scenario based on stochastic unitary pulses. <i>Journal of Modern Optics</i> , 2006 , 53, 2519-2532	1.1	13
23	Quantum chaos in nanoelectromechanical systems. <i>Physical Review B</i> , 2006 , 73,	3.3	13
22	Model study of coherent quantum dynamics of hole states in functionalized semiconductor nanostructures. <i>Journal of Chemical Physics</i> , 2005 , 122, 154709	3.9	40

21	Influence of thermal fluctuations on interfacial electron transfer in functionalized TiO ₂ semiconductors. <i>Journal of the American Chemical Society</i> , 2005 , 127, 18234-42	16.4	181
20	Anomalous quantum chaotic behaviour in suspended electromechanical nanostructures. <i>Journal of Physics A</i> , 2005 , 38, L639-L645		6
19	Coherent optical control of electronic excitations in functionalized semiconductor nanostructures. <i>Quantum Information and Computation</i> , 2005 , 5, 318-334	0.9	5
18	Indication of unusual pentagonal structures in atomic-size Cu nanowires. <i>Physical Review Letters</i> , 2004 , 93, 126103	7.4	98
17	Quantum dynamics simulations of interfacial electron transfer in sensitized TiO ₂ semiconductors. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7989-97	16.4	345
16	Quantum conductance in silver nanowires: Correlation between atomic structure and transport properties. <i>Physical Review B</i> , 2002 , 65,	3.3	140
15	Thermal Transport in the Quantum Regime. <i>Physica Status Solidi A</i> , 2001 , 187, 239-251		5
14	Magnetic properties of nanoparticles in the Bethe-Peierls approximation. <i>Physical Review B</i> , 2001 , 64,	3.3	24
13	A new principle for electronic cooling of mesoscopic systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000 , 6, 840-843	3	1
12	Thermodynamics of half-filled Landau levels: A study of the composite fermion mass. <i>Physical Review B</i> , 2000 , 62, 1544-1547	3.3	1
11	Fractional exclusion statistics and the universal quantum of thermal conductance: A unifying approach. <i>Physical Review B</i> , 1999 , 59, 13080-13086	3.3	74
10	Electrostatic mechanism for cooling semiconductor heterostructures. <i>Applied Physics Letters</i> , 1999 , 75, 2262-2264	3.4	3
9	Electronic structure of holes in modulation doped p-Si _{1-x} Gex/Si strained quantum wells in a magnetic field. <i>Solid State Communications</i> , 1998 , 105, 139-144	1.6	1
8	Multi-charged acceptor centers in p-doped Si/Si _{1-x} Gex/Si quantum wells in the presence of a magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998 , 2, 785-788	3	5
7	The two-dimensional D ⁺ complex in intense AC and strong magnetic fields. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1998 , 3, 198-204	3	6
6	Quantized Thermal Conductance of Dielectric Quantum Wires. <i>Physical Review Letters</i> , 1998 , 81, 232-235	7.4	556
5	Interface roughness localization in quantum wells and quantum wires. <i>Physical Review B</i> , 1998 , 58, 9876-9880	3.9	7
4	Rego and Kirczenow Reply:. <i>Physical Review Letters</i> , 1998 , 81, 5038-5038	7.4	5

- | | | | |
|---|--|-----|----|
| 3 | Interacting valence holes in p-type SiGe quantum disks in a magnetic field. <i>Physical Review B</i> , 1997 , 55, 15694-15700 | 3.3 | 34 |
| 2 | Mechanism for LO-phonon temperature overshoot in GaAs. <i>Physical Review B</i> , 1994 , 49, 7257-7261 | 3.3 | 3 |
| 1 | Model calculation of the femtosecond carrier dynamics in Al _{0.48} Ga _{0.52} As. <i>Journal of Applied Physics</i> , 1994 , 76, 3749-3753 | 2.5 | |