

# Luis Gc Rego

## List of Publications by Citations

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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	Quantized Thermal Conductance of Dielectric Quantum Wires. <i>Physical Review Letters</i> , <b>1998</b> , 81, 232-235	7.4	556
55	Quantum dynamics simulations of interfacial electron transfer in sensitized TiO <sub>2</sub> semiconductors. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 7989-97	16.4	345
54	Influence of thermal fluctuations on interfacial electron transfer in functionalized TiO <sub>2</sub> semiconductors. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 18234-42	16.4	181
53	Quantum conductance in silver nanowires: Correlation between atomic structure and transport properties. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	140
52	Indication of unusual pentagonal structures in atomic-size Cu nanowires. <i>Physical Review Letters</i> , <b>2004</b> , 93, 126103	7.4	98
51	Surface Effects and Adsorption of Methoxy Anchors on Hybrid Lead Iodide Perovskites: Insights for Spiro-MeOTAD Attachment. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 26947-26954	3.8	95
50	Fractional exclusion statistics and the universal quantum of thermal conductance: A unifying approach. <i>Physical Review B</i> , <b>1999</b> , 59, 13080-13086	3.3	74
49	What Makes Hydroxamate a Promising Anchoring Group in Dye-Sensitized Solar Cells? Insights from Theoretical Investigation. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3992-9	6.4	58
48	Crucial Role of Nuclear Dynamics for Electron Injection in a Dye-Semiconductor Complex. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 2393-8	6.4	42
47	Model study of coherent quantum dynamics of hole states in functionalized semiconductor nanostructures. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 154709	3.9	40
46	Intramolecular Polarization Induces Electron-Hole Charge Separation in Light-Harvesting Molecular Triads. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 126-134	3.8	36
45	Study of Redox Species and Oxygen Vacancy Defects at TiO <sub>2</sub> /Electrolyte Interfaces. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 19433-19442	3.8	35
44	Subpicosecond Dynamics of Metal-to-Ligand Charge-Transfer Excited States in Solvated [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> Complexes. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 15617-15626	3.8	34
43	Interacting valence holes in p-type SiGe quantum disks in a magnetic field. <i>Physical Review B</i> , <b>1997</b> , 55, 15694-15700	3.3	34
42	Ultrafast Interfacial Charge-Transfer Dynamics in a Donor-Acceptor Chromophore Sensitized TiO <sub>2</sub> Nanocomposite. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 4824-4835	3.8	32
41	Coupled Electron-Hole Quantum Dynamics on Dye-Sensitized TiO <sub>2</sub> Semiconductors. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 21169-21178	3.8	32
40	Visible Light Sensitization of TiO <sub>2</sub> Surfaces with Alq <sub>3</sub> Complexes. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 1317-1325	3.8	32

39	Vibronic and Coherent Effects on Interfacial Electron Transfer Dynamics. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 4927-35	6.4	31
38	Coherent control of quantum dynamics with sequences of unitary phase-kick pulses. <i>Annual Review of Physical Chemistry</i> , <b>2009</b> , 60, 293-320	15.7	30
37	Magnetic properties of nanoparticles in the Bethe-Peierls approximation. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	24
36	Theoretical investigation of the adsorption, IR, and electron injection of hydroxamate anchor at the TiO <sub>2</sub> anatase (1 0 1) surface. <i>RSC Advances</i> , <b>2014</b> , 4, 19690-19693	3.7	23
35	A Nonadiabatic Excited State Molecular Mechanics/Extended H $\ddot{u}$ ckel Ehrenfest Method. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 27688-27698	3.8	17
34	Coherent control of tunnelling dynamics in functionalized semiconductor nanostructures: a quantum-control scenario based on stochastic unitary pulses. <i>Journal of Modern Optics</i> , <b>2006</b> , 53, 2519-2532	4.1	13
33	Quantum chaos in nanoelectromechanical systems. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	13
32	Quantum Dynamics Simulations of Excited State Energy Transfer in a Zinc-Free-Base Porphyrin Dyad. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 8075-8084	2.8	11
31	Charge Generation in Organic Solar Cells: Interplay of Quantum Dynamics, Decoherence, and Recombination. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 23276-23286	3.8	10
30	Modulating the Photoisomerization Mechanism of Semiconductor-Bound Azobenzene-Functionalized Compounds. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 5692-5698	3.8	10
29	Charge Transfer Driven Structural Relaxation in a Push-Pull Azobenzene Dye-Semiconductor Complex. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 5926-5933	6.4	10
28	Vibronic Effects in the Ultrafast Interfacial Electron Transfer of Perylene-Sensitized TiO <sub>2</sub> Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2019</b> ,	3.8	9
27	Diffusion, reaction and forced convection in electrochemical cells. <i>Journal of Electroanalytical Chemistry</i> , <b>2009</b> , 628, 21-26	4.1	9
26	Chapter 4:Modelling electron quantum dynamics in large molecular systems. <i>Chemical Modelling</i> , <b>2013</b> , 102-126	2	9
25	ElectronicVibrational Coupling and Electron Transfer. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 23760-23772	3.8	7
24	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> , <b>2015</b> , 27, 134206	1.8	7
23	Interface roughness localization in quantum wells and quantum wires. <i>Physical Review B</i> , <b>1998</b> , 58, 9876-9880	3.9	7
22	The two-dimensional Dirac complex in intense AC and strong magnetic fields. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>1998</b> , 3, 198-204	3	6

21	Anomalous quantum chaotic behaviour in suspended electromechanical nanostructures. <i>Journal of Physics A</i> , <b>2005</b> , 38, L639-L645		6
20	Inferring Protonation States of Hydroxamate Adsorbates on TiO <sub>2</sub> Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 11985-11990	3.8	5
19	Multi-charged acceptor centers in p-doped Si/Si <sub>1-x</sub> Gex/Si quantum wells in the presence of a magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>1998</b> , 2, 785-788	3	5
18	Thermal Transport in the Quantum Regime. <i>Physica Status Solidi A</i> , <b>2001</b> , 187, 239-251		5
17	Rego and Kirczenow Reply:. <i>Physical Review Letters</i> , <b>1998</b> , 81, 5038-5038	7.4	5
16	Coherent optical control of electronic excitations in functionalized semiconductor nanostructures. <i>Quantum Information and Computation</i> , <b>2005</b> , 5, 318-334	0.9	5
15	Superconducting Qubits as Mechanical Quantum Engines. <i>Physical Review Letters</i> , <b>2017</b> , 119, 090601	7.4	4
14	Decoherence effects on quantum control by reverse optimized pulse sequences. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	4
13	Heat capacity of suspended phonon cavities. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	4
12	Multiple unitary-pulses for coherent-control of tunnelling and decoherence. <i>Journal of Modern Optics</i> , <b>2007</b> , 54, 2617-2627	1.1	3
11	Electrostatic mechanism for cooling semiconductor heterostructures. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2262-2264	3.4	3
10	Mechanism for LO-phonon temperature overshoot in GaAs. <i>Physical Review B</i> , <b>1994</b> , 49, 7257-7261	3.3	3
9	Chirality-Induced Propagation Velocity Asymmetry. <i>Nano Letters</i> , <b>2021</b> , 21, 8190-8196	11.5	3
8	Synthesis and Properties of Perylene-Bridge-Anchor Chromophoric Compounds. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 6330-6343	2.8	2
7	Electronic structure of holes in modulation doped p-Si <sub>1-x</sub> Gex/Si strained quantum wells in a magnetic field. <i>Solid State Communications</i> , <b>1998</b> , 105, 139-144	1.6	1
6	Effect of intermittent convection movements on voltammogram and current transients. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 054501	3.9	1
5	A new principle for electronic cooling of mesoscopic systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 6, 840-843	3	1
4	Thermodynamics of half-filled Landau levels: A study of the composite fermion mass. <i>Physical Review B</i> , <b>2000</b> , 62, 1544-1547	3.3	1

3	Energetics of the charge generation in organic donor-acceptor interfaces.. <i>Journal of Chemical Physics</i> , <b>2022</b> , 156, 024104	3.9	1
2	Conformational and Binding Effects on Interfacial Electron Transfer from Dual-Linker Sensitizers. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 8667-8676	3.8	1
1	Model calculation of the femtosecond carrier dynamics in Al <sub>0.48</sub> Ga <sub>0.52</sub> As. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 3749-3753	2.5	