## Raphael F 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.

47
papers

2,397
citations

24
h-index

9-index

3,026
ext. papers

27
24
papers

9
L-index

#	Paper	IF	Citations
47	Catalysis by Dark States in Vibropolaritonic Chemistry <i>Physical Review Letters</i> , <b>2022</b> , 128, 096001	7.4	16
46	Driving chemical reactions with polariton condensates <i>Nature Communications</i> , <b>2022</b> , 13, 1645	17.4	4
45	Enantioselective Topological Frequency Conversion <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 2434-2	2444	0
44	Microcavity-like exciton-polaritons can be the primary photoexcitation in bare organic semiconductors. <i>Nature Communications</i> , <b>2021</b> , 12, 6519	17.4	5
43	Generalization of the Tavistummings model for multi-level anharmonic systems. <i>New Journal of Physics</i> , <b>2021</b> , 23, 063081	2.9	6
42	Enhanced optical nonlinearities under collective strong light-matter coupling. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	7
41	Nonequilibrium effects of cavity leakage and vibrational dissipation in thermally activated polariton chemistry. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 084108	3.9	15
40	Purcell Effect of Plasmonic Surface Lattice Resonances and Its Influence on Energy Transfer. <i>ACS Photonics</i> , <b>2021</b> , 8, 2211-2219	6.3	2
39	Polaritonic normal modes in transition state theory. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 161101	3.9	41
38	Intermolecular vibrational energy transfer enabled by microcavity strong light-matter coupling. <i>Science</i> , <b>2020</b> , 368, 665-667	33.3	63
37	Exploiting chemistry and molecular systems for quantum information science. <i>Nature Reviews Chemistry</i> , <b>2020</b> , 4, 490-504	34.6	87
36	Optical Activity from the Exciton Aharonov <b>B</b> ohm Effect: A Floquet Engineering Approach. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 4206-4214	3.8	5
35	Manipulating molecules with strong coupling: harvesting triplet excitons in organic exciton microcavities. <i>Chemical Science</i> , <b>2020</b> , 11, 343-354	9.4	55
34	Polariton Assisted Down-Conversion of Photons via Nonadiabatic Molecular Dynamics: A Molecular Dynamical Casimir Effect. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 152-159	6.4	17
33	Computational method for highly constrained molecular dynamics of rigid bodies: Coarse-grained simulation of auxetic two-dimensional protein crystals. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 244102	3.9	
32	Active Plasmonics and Active Chiral Plasmonics through Orientation-Dependent Multipolar Interactions. <i>ACS Nano</i> , <b>2020</b> , 14, 11518-11532	16.7	7
31	Triplet harvesting in the polaritonic regime: A variational polaron approach. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 054106	3.9	27

## (2017-2019)

30	State-Selective Polariton to Dark State Relaxation Dynamics. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 5918-5927	2.8	36
29	Remote Control of Chemistry in Optical Cavities. <i>CheM</i> , <b>2019</b> , 5, 1167-1181	16.2	52
28	Polariton chemistry: Thinking inside the (photon) box. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 5214-5216	11.5	20
27	Resonant catalysis of thermally activated chemical reactions with vibrational polaritons. <i>Nature Communications</i> , <b>2019</b> , 10, 4685	17.4	97
26	Manipulating optical nonlinearities of molecular polaritons by delocalization. <i>Science Advances</i> , <b>2019</b> , 5, eaax5196	14.3	39
25	Inverting singlet and triplet excited states using strong light-matter coupling. <i>Science Advances</i> , <b>2019</b> , 5, eaax4482	14.3	57
24	Two-dimensional infrared spectroscopy of vibrational polaritons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 4845-4850	11.5	85
23	Polariton-Assisted Singlet Fission in Acene Aggregates. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 1951-1957	6.4	68
22	Can Ultrastrong Coupling Change Ground-State Chemical Reactions?. ACS Photonics, 2018, 5, 167-176	6.3	58
21	Deriving uniform semiclassical approximations for one-dimensional fermionic systems. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 194103	3.9	5
20	Continuous vibronic symmetries in Jahn-Teller models. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 333001	1.8	3
19	Theory for polariton-assisted remote energy transfer. <i>Chemical Science</i> , <b>2018</b> , 9, 6659-6669	9.4	101
18	Polariton chemistry: controlling molecular dynamics with optical cavities. <i>Chemical Science</i> , <b>2018</b> , 9, 632	25 <sub>9</sub> 6433	9 233
17	Vibronic Ground-State Degeneracies and the Berry Phase: A Continuous Symmetry Perspective. Journal of Physical Chemistry Letters, <b>2018</b> , 9, 242-247	6.4	2
16	Comment on Quantum theory of collective strong coupling of molecular vibrations with a microcavity mode <i>New Journal of Physics</i> , <b>2018</b> , 20, 018002	2.9	3
15	Molecular Emission near Metal Interfaces: The Polaritonic Regime. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 6511-6516	6.4	16
14	Theory for Nonlinear Spectroscopy of Vibrational Polaritons. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3766-3771	6.4	47
13	Leading corrections to local approximations. II. The case with turning points. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	9

12	Plexciton Dirac points and topological modes. <i>Nature Communications</i> , <b>2016</b> , 7, 11783	17.4	52
11	Corrections to Thomas-Fermi densities at turning points and beyond. <i>Physical Review Letters</i> , <b>2015</b> , 114, 050401	7.4	17
10	Coherent exciton dynamics in supramolecular light-harvesting nanotubes revealed by ultrafast quantum process tomography. <i>ACS Nano</i> , <b>2014</b> , 8, 5527-34	16.7	41
9	Topologically protected excitons in porphyrin thin films. <i>Nature Materials</i> , <b>2014</b> , 13, 1026-32	27	47
8	Practical witness for electronic coherences. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 244109	3.9	12
7	Remarks on time-dependent [current]-density functional theory for open quantum systems. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 12626-36	3.6	3
6	Does Coherence Enhance Transport in Photosynthesis?. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 362-7	6.4	129
5	Use of solution-phase vibrational frequencies in continuum models for the free energy of solvation. Journal of Physical Chemistry B, <b>2011</b> , 115, 14556-62	3.4	625
4	The solvation, partitioning, hydrogen bonding, and dimerization of nucleotide bases: a multifaceted challenge for quantum chemistry. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 10908-22	3.6	39
3	Prediction of SAMPL2 aqueous solvation free energies and tautomeric ratios using the SM8, SM8AD, and SMD solvation models. <i>Journal of Computer-Aided Molecular Design</i> , <b>2010</b> , 24, 317-33	4.2	79
2	Solvent Dependence of (14)N Nuclear Magnetic Resonance Chemical Shielding Constants as a Test of the Accuracy of the Computed Polarization of Solute Electron Densities by the Solvent. <i>Journal of Chemical Theory and Computation</i> , <b>2009</b> , 5, 2284-300	6.4	9
1	Ultrafast Spectroscopy		28