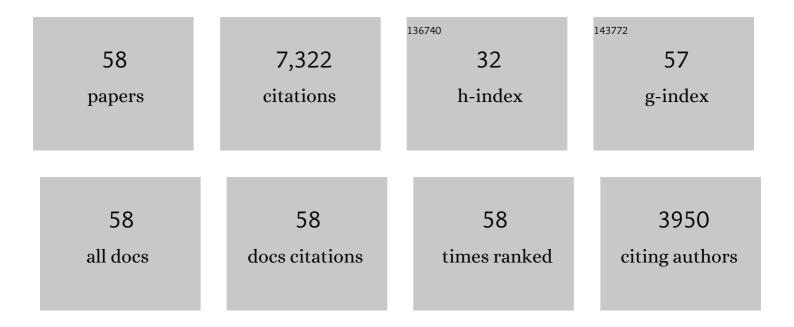
## Susana F Huelga

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	Capacity of non-Markovianity to boost the efficiency of molecular switches. Physical Review A, 2022, 105, .	1.0	9
2	Transfer-tensor description of memory effects in open-system dynamics and multi-time statistics. Quantum Science and Technology, 2022, 7, 025005.	2.6	6
3	Criticality-Enhanced Quantum Sensing via Continuous Measurement. PRX Quantum, 2022, 3, .	3.5	39
4	Entanglement spectrum in general free fermionic systems. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 135001.	0.7	1
5	Exact simulation of pigment-protein complexes unveils vibronic renormalization of electronic parameters in ultrafast spectroscopy. Nature Communications, 2022, 13, .	5.8	14
6	Efficient construction of matrix-product representations of many-body Gaussian states. Physical Review A, 2021, 104, .	1.0	1
7	When Is a Non-Markovian Quantum Process Classical?. Physical Review X, 2020, 10, .	2.8	36
8	Optimized auxiliary oscillators for the simulation of general open quantum systems. Physical Review A, 2020, 101, .	1.0	47
9	Universal Anti-Kibble-Zurek Scaling in Fully Connected Systems. Physical Review Letters, 2020, 124, 230602.	2.9	27
10	A Complex Comprising a Cyanine Dye Rotaxane and a Porphyrin Nanoring as a Model Lightâ€Harvesting System. Angewandte Chemie, 2020, 132, 16597-16600.	1.6	8
11	A Complex Comprising a Cyanine Dye Rotaxane and a Porphyrin Nanoring as a Model Lightâ€Harvesting System. Angewandte Chemie - International Edition, 2020, 59, 16455-16458.	7.2	36
12	Efficient simulation of open quantum systems coupled to a fermionic bath. Physical Review B, 2020, 101,	1.1	28
13	Limited-control metrology approaching the Heisenberg limit without entanglement preparation. Physical Review A, 2020, 101, .	1.0	3
14	Experimental control of the degree of non-classicality via quantum coherence. Quantum Science and Technology, 2020, 5, 04LT01.	2.6	9
15	Efficient Simulation of Finite-Temperature Open Quantum Systems. Physical Review Letters, 2019, 123, 090402.	2.9	83
16	Dissipation-Assisted Matrix Product Factorization. Physical Review Letters, 2019, 123, 100502.	2.9	35
17	Multicolor Quantum Control for Suppressing Ground State Coherences in Two-Dimensional Electronic Spectroscopy. Physical Review Letters, 2019, 123, 233201.	2.9	9
18	Improving the precision of frequency estimation via long-time coherences. Quantum Science and Technology, 2019, 4, 025004.	2.6	9

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19	Coherence and non-classicality of quantum Markov processes. Quantum Science and Technology, 2019, 4, 01LT01.	2.6	39
20	Nonperturbative Treatment of non-Markovian Dynamics of Open Quantum Systems. Physical Review Letters, 2018, 120, 030402.	2.9	101
21	Fundamental limits to frequency estimation: a comprehensive microscopic perspective. New Journal of Physics, 2018, 20, 053009.	1.2	43
22	Controllable Non-Markovianity for a Spin Qubit in Diamond. Physical Review Letters, 2018, 121, 060401.	2.9	38
23	Theory of Excitonic Delocalization for Robust Vibronic Dynamics in LH2. Journal of Physical Chemistry Letters, 2018, 9, 3446-3453.	2.1	20
24	A trapped-ion simulator for spin-boson models with structured environments. New Journal of Physics, 2018, 20, 073002.	1.2	42
25	Regulating the Energy Flow in a Cyanobacterial Light-Harvesting Antenna Complex. Journal of Physical Chemistry B, 2017, 121, 1240-1247.	1.2	23
26	Open Systems with Error Bounds: Spin-Boson Model with Spectral Density Variations. Physical Review Letters, 2017, 118, 100401.	2.9	23
27	Quantum Redirection of Antenna Absorption to Photosynthetic Reaction Centers. Journal of Physical Chemistry Letters, 2017, 8, 6015-6021.	2.1	13
28	Precision Limits in Quantum Metrology with Open Quantum Systems. Quantum Measurements and Quantum Metrology, 2016, 5, 13-39.	3.3	36
29	Efficient simulation of non-Markovian system-environment interaction. New Journal of Physics, 2016, 18, 023035.	1.2	60
30	Tracking the coherent generation of polaron pairs in conjugated polymers. Nature Communications, 2016, 7, 13742.	5.8	149
31	Phase-dependent exciton transport and energy harvesting from thermal environments. Physical Review A, 2016, 93, .	1.0	28
32	Sensing in the presence of an observed environment. Physical Review A, 2016, 93, .	1.0	26
33	Ultimate Precision Limits for Noisy Frequency Estimation. Physical Review Letters, 2016, 116, 120801.	2.9	114
34	Experimental Detection of Quantum Coherent Evolution through the Violation of Leggett-Garg-Type Inequalities. Physical Review Letters, 2015, 115, 113002.	2.9	56
35	Enhancing light-harvesting power with coherent vibrational interactions: A quantum heat engine picture. Journal of Chemical Physics, 2015, 143, 155102.	1.2	75
36	Vibronic origin of long-lived coherence in an artificial molecular light harvester. Nature Communications, 2015, 6, 7755.	5.8	129

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37	Optical Signatures of Quantum Delocalization over Extended Domains in Photosynthetic Membranes. Journal of Physical Chemistry A, 2015, 119, 9043-9050.	1.1	3
38	Bloch-Redfield equations for modeling light-harvesting complexes. Journal of Chemical Physics, 2015, 142, 064104.	1.2	68
39	Mappings of open quantum systems onto chain representations and Markovian embeddings. Journal of Mathematical Physics, 2014, 55, .	0.5	89
40	Quantum non-Markovianity: characterization, quantification and detection. Reports on Progress in Physics, 2014, 77, 094001.	8.1	702
41	A vibrant environment. Nature Physics, 2014, 10, 621-622.	6.5	21
42	Quantum dynamics in photonic crystals. Physical Review A, 2013, 87, .	1.0	33
43	The role of non-equilibrium vibrational structures in electronic coherence and recoherence in pigment–protein complexes. Nature Physics, 2013, 9, 113-118.	6.5	481
44	Origin of long-lived oscillations in 2D-spectra of a quantum vibronic model: Electronic versus vibrational coherence. Journal of Chemical Physics, 2013, 139, 235102.	1.2	119
45	Quantum Metrology in Non-Markovian Environments. Physical Review Letters, 2012, 109, 233601.	2.9	477
46	Open Quantum Systems. SpringerBriefs in Physics, 2012, , .	0.2	460
47	Generalized Polaron Ansatz for the Ground State of the Sub-Ohmic Spin-Boson Model: An Analytic Theory of the Localization Transition. Physical Review Letters, 2011, 107, 160601.	2.9	95
48	Violation of a Temporal Bell Inequality for Single Spins in a Diamond Defect Center. Physical Review Letters, 2011, 107, 090401.	2.9	113
49	Focus on quantum effects and noise in biomolecules. New Journal of Physics, 2011, 13, 115002.	1.2	30
50	Entanglement and Non-Markovianity of Quantum Evolutions. Physical Review Letters, 2010, 105, 050403.	2.9	765
51	Noise-assisted energy transfer in quantum networks and light-harvesting complexes. New Journal of Physics, 2010, 12, 065002.	1.2	262
52	Exact mapping between system-reservoir quantum models and semi-infinite discrete chains using orthogonal polynomials. Journal of Mathematical Physics, 2010, 51, .	0.5	214
53	Efficient Simulation of Strong System-Environment Interactions. Physical Review Letters, 2010, 105, 050404.	2.9	348
54	Dephasing-assisted transport: quantum networks and biomolecules. New Journal of Physics, 2008, 10, 113019.	1.2	762

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55	Improvement of Frequency Standards with Quantum Entanglement. Physical Review Letters, 1997, 79, 3865-3868.	2.9	782
56	Temporal Bell-type inequalities for two-level Rydberg atoms coupled to a high-Qresonator. Physical Review A, 1996, 54, 1798-1807.	1.0	29
57	Proposed test for realist theories using Rydberg atoms coupled to a high-Qresonator. Physical Review A, 1995, 52, R2497-R2500.	1.0	47
58	Accessible coherence in open quantum system dynamics. Quantum - the Open Journal for Quantum Science, 0, 4, 249.	0.0	7