

# Giuseppe L Celardo

## List of Publications by Year in descending order

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30  
papers

625  
citations

623734

14  
h-index

580821

25  
g-index

30  
all docs

30  
docs citations

30  
times ranked

502  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Chirality-Based Quantum Leap. ACS Nano, 2022, 16, 4989-5035.	14.6	74
2	Broken Ergodicity in Classically Chaotic Spin Systems. Journal of Statistical Physics, 2004, 116, 1435-1447.	1.2	59
3	Superradiance Transition in Photosynthetic Light-Harvesting Complexes. Journal of Physical Chemistry C, 2012, 116, 22105-22111.	3.1	56
4	Cooperative Shielding in Many-Body Systems with Long-Range Interaction. Physical Review Letters, 2016, 116, 250402.	7.8	51
5	Cooperative robustness to static disorder: Superradiance and localization in a nanoscale ring to model light-harvesting systems found in nature. Physical Review B, 2014, 90, .	3.2	45
6	Disorder-Enhanced and Disorder-Independent Transport with Long-Range Hopping: Application to Molecular Chains in Optical Cavities. Physical Review Letters, 2021, 126, 153201.	7.8	41
7	Subradiant hybrid states in the open 3D Anderson-Dicke model. Europhysics Letters, 2013, 103, 57009.	2.0	31
8	Non-Hermitian Hamiltonian approach to quantum transport in disordered networks with sinks: Validity and effectiveness. Physical Review B, 2015, 91, .	3.2	31
9	Thermal Decoherence of Superradiance in Lead Halide Perovskite Nanocrystal Superlattices. Nano Letters, 2020, 20, 7382-7388.	9.1	29
10	Quantum Biological Switch Based on Superradiance Transitions. Journal of Physical Chemistry C, 2014, 118, 20-26.	3.1	28
11	Cooperative robustness to dephasing: Single-exciton superradiance in a nanoscale ring to model natural light-harvesting systems. Physical Review B, 2014, 90, .	3.2	23
12	Interplay of different environments in open quantum systems: Breakdown of the additive approximation. Physical Review E, 2017, 96, 012113.	2.1	23
13	Opening-assisted coherent transport in the semiclassical regime. Physical Review E, 2017, 95, 022122.	2.1	21
14	Internal chaos in an open quantum system: From Ericson to conductance fluctuations. Europhysics Letters, 2009, 88, 27003.	2.0	19
15	Collective couplings: Rectification and supertransmittance. Physical Review E, 2016, 94, 032135.	2.1	13
16	Optimal dephasing for ballistic energy transfer in disordered linear chains. Physical Review E, 2017, 96, 052103.	2.1	12
17	Macroscopic coherence as an emergent property in molecular nanotubes. New Journal of Physics, 2019, 21, 013019.	2.9	12
18	Towards high-temperature coherence-enhanced transport in heterostructures of a few atomic layers. Physical Review B, 2019, 100, .	3.2	11

#	ARTICLE	IF	CITATIONS
19	Optimal efficiency of quantum transport in a disordered trimer. <i>Physical Review E</i> , 2016, 93, 032136.	2.1	9
20	Aggregation and fractal formation of Au and TiO <sub>2</sub> nanostructures obtained by fs-pulsed laser deposition: experiment and simulation. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	9
21	Real and imaginary energy gaps: a comparison between single excitation Superradiance and Superconductivity and robustness to disorder. <i>European Physical Journal B</i> , 2019, 92, 1.	1.5	8
22	STABILITY OF THE QUANTUM FOURIER TRANSFORMATION ON THE ISING QUANTUM COMPUTER. <i>International Journal of Quantum Information</i> , 2005, 03, 441-462.	1.1	6
23	Electric-field assisted optimal quantum transport of photo-excitations in polar heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 120, 114023.	2.7	4
24	Efficient light harvesting and photon sensing via engineered cooperative effects. <i>New Journal of Physics</i> , 2022, 24, 013027.	2.9	4
25	Dynamics of random dipoles: chaos versus ferromagnetism. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P05013.	2.3	2
26	Channel cross correlations in transport through complex media. <i>Physical Review B</i> , 2016, 94, .	3.2	2
27	Bio-inspired natural sunlight-pumped lasers. <i>New Journal of Physics</i> , 0, , .	2.9	2
28	Enhancement of the magnetic anisotropy barrier in critical long range spin systems. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 106006.	1.8	0
29	A superradiance-based biological switch. , 2014, , .		0
30	Transport efficiency in open quantum systems with static and dynamical disorder. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0