

Giuseppe L Celardo

List of Publications by Year in descending order

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Version: 2024-02-01

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	Efficient light harvesting and photon sensing via engineered cooperative effects. <i>New Journal of Physics</i> , 2022, 24, 013027.	2.9	4
2	A Chirality-Based Quantum Leap. <i>ACS Nano</i> , 2022, 16, 4989-5035.	14.6	74
3	Disorder-Enhanced and Disorder-Independent Transport with Long-Range Hopping: Application to Molecular Chains in Optical Cavities. <i>Physical Review Letters</i> , 2021, 126, 153201.	7.8	41
4	Thermal Decoherence of Superradiance in Lead Halide Perovskite Nanocrystal Superlattices. <i>Nano Letters</i> , 2020, 20, 7382-7388.	9.1	29
5	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
6	Macroscopic coherence as an emergent property in molecular nanotubes. <i>New Journal of Physics</i> , 2019, 21, 013019.	2.9	12
7	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
8	Towards high-temperature coherence-enhanced transport in heterostructures of a few atomic layers. <i>Physical Review B</i> , 2019, 100, .	3.2	11
9	Opening-assisted coherent transport in the semiclassical regime. <i>Physical Review E</i> , 2017, 95, 022122.	2.1	21
10	Interplay of different environments in open quantum systems: Breakdown of the additive approximation. <i>Physical Review E</i> , 2017, 96, 012113.	2.1	23
11	Aggregation and fractal formation of Au and TiO ₂ nanostructures obtained by fs-pulsed laser deposition: experiment and simulation. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	9
12	Optimal dephasing for ballistic energy transfer in disordered linear chains. <i>Physical Review E</i> , 2017, 96, 052103.	2.1	12
13	Transport efficiency in open quantum systems with static and dynamical disorder. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
14	Collective couplings: Rectification and supertransmittance. <i>Physical Review E</i> , 2016, 94, 032135.	2.1	13
15	Optimal efficiency of quantum transport in a disordered trimer. <i>Physical Review E</i> , 2016, 93, 032136.	2.1	9
16	Cooperative Shielding in Many-Body Systems with Long-Range Interaction. <i>Physical Review Letters</i> , 2016, 116, 250402.	7.8	51
17	Channel cross correlations in transport through complex media. <i>Physical Review B</i> , 2016, 94, .	3.2	2
18	Non-Hermitian Hamiltonian approach to quantum transport in disordered networks with sinks: Validity and effectiveness. <i>Physical Review B</i> , 2015, 91, .	3.2	31

#	ARTICLE	IF	CITATIONS
19	Cooperative robustness to dephasing: Single-exciton superradiance in a nanoscale ring to model natural light-harvesting systems. <i>Physical Review B</i> , 2014, 90, .	3.2	23
20	Quantum Biological Switch Based on Superradiance Transitions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20-26.	3.1	28
21	Cooperative robustness to static disorder: Superradiance and localization in a nanoscale ring to model light-harvesting systems found in nature. <i>Physical Review B</i> , 2014, 90, .	3.2	45
22	A superradiance-based biological switch. , 2014, , .		0
23	Subradiant hybrid states in the open 3D Anderson-Dicke model. <i>Europhysics Letters</i> , 2013, 103, 57009.	2.0	31
24	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
25	Superradiance Transition in Photosynthetic Light-Harvesting Complexes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 22105-22111.	3.1	56
26	Dynamics of random dipoles: chaos versus ferromagnetism. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P05013.	2.3	2
27	Internal chaos in an open quantum system: From Ericson to conductance fluctuations. <i>Europhysics Letters</i> , 2009, 88, 27003.	2.0	19
28	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
29	Broken Ergodicity in Classically Chaotic Spin Systems. <i>Journal of Statistical Physics</i> , 2004, 116, 1435-1447.	1.2	59
30	Bio-inspired natural sunlight-pumped lasers. <i>New Journal of Physics</i> , 0, , .	2.9	2