Superradiance transition in one-dimensional nanostruc
Hamiltonian formalism

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Citation Report

#	Article	IF	Citations
1	Resonance scattering and singularities of the scattering function. European Physical Journal D, 2010, 58, 53-56.	1.3	6
2	Randomness and order in many-body dynamics. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 064024.	3.6	1
3	Electrically tunable Dicke effect in a double-ring resonator. Physical Review A, 2010, 81, .	2.5	10
4	Transport through nanostructures with asymmetric coupling to the leads. Physical Review B, 2010, 82, .	3.2	42
5	Super-radiant dynamics, doorways and resonances in nuclei and other open mesoscopic systems. Reports on Progress in Physics, 2011, 74, 106301.	20.1	95
6	Distribution of Resonance Widths and Dynamics of Continuum Coupling. Physical Review Letters, 2011, 106, 042501.	7.8	42
7	Non-Markovian stochastic SchrÃ¶dinger description of transport in quantum networks. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 245501.	1.5	10
8	Coherent transport in multibranch quantum circuits. Physical Review B, 2012, 85, .	3.2	24
9	Wave scattering on a domain wall in a chain ofPT-symmetric couplers. Physical Review A, 2012, 85, .	2.5	40
10	From closed to open one-dimensional Anderson model: Transport versus spectral statistics. Physical Review E, 2012, 86, 011142.	2.1	36
11	Superradiance Transition in Photosynthetic Light-Harvesting Complexes. Journal of Physical Chemistry C, 2012, 116, 22105-22111.	3.1	56
12	Interplay of superradiance and disorder in the Anderson Model. Fortschritte Der Physik, 2013, 61, 250-260.	4.4	33
13	Quantum signal transmission through a single-qubit chain. European Physical Journal B, 2013, 86, 1.	1.5	10
14	Subradiant hybrid states in the open 3D Anderson-Dicke model. Europhysics Letters, 2013, 103, 57009.	2.0	31
15	Fluctuations in quantum one-dimensional thermostatted systems with off-diagonal disorder. Journal of Statistical Mechanics: Theory and Experiment, 2013, 2013, P02009.	2.3	5
16	Chiral and nonorthogonal eigenstate pairs in open quantum systems with weak backscattering between counterpropagating traveling waves. Physical Review A, 2014, 89, .	2.5	42
17	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
18	Dicke Phase Transition with Multiple Superradiant States in Quantum Chaotic Resonators. Physical Review X, 2014, 4, .	8.9	15

#	Article	IF	Citations
19	Continuum shell model and nuclear physics at the edge of stability. Physics of Atomic Nuclei, 2014, 77, 969-982.	0.4	25
20	Quantum Biological Switch Based on Superradiance Transitions. Journal of Physical Chemistry C, 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. Physical Review B, 2014, 90, .	3.2	45
22	A superradiance-based biological switch. , 2014, , .		0
23	Hidden modes in open disordered media: analytical, numerical, and experimental results. New Journal of Physics, 2015, 17, 113009.	2.9	2
24	Open quantum systems and random matrix theory. Physical Review C, 2015, 91, .	2.9	4
25	Non-Hermitian Hamiltonian approach to quantum transport in disordered networks with sinks: Validity and effectiveness. Physical Review B, 2015, 91, .	3.2	31
26	Superradiance Transition and Nonphotochemical Quenching in Photosynthetic Complexes. Journal of Physical Chemistry C, 2015, 119, 22289-22296.	3.1	11
27	PT-symmetry breaking in resonant tunneling heterostructures. JETP Letters, 2016, 103, 769-773.	1.4	11
28	Non-Hermitian approach of edge states and quantum transport in a magnetic field. Physical Review B, 2016, 94, .	3.2	14
29	Collective couplings: Rectification and supertransmittance. Physical Review E, 2016, 94, 032135.	2.1	13
30	Transmission resonances anomaly in one-dimensional disordered quantum systems. Physical Review B, 2016, 94, .	3.2	0
31	Sensors operating at exceptional points: General theory. Physical Review A, 2016, 93, .	2.5	286
32	Optimal efficiency of quantum transport in a disordered trimer. Physical Review E, 2016, 93, 032136.	2.1	9
33	Phosphorene confined systems in magnetic field, quantum transport, and superradiance in the quasiflat band. Physical Review B, 2016, 93, .	3.2	37
34	Behavior of three modes of decay channels and their self-energies of elliptic dielectric microcavity. Physical Review A, 2016, 94, .	2.5	3
35	Environment-protected solid-state-based distributed charge qubit. Physical Review B, 2016, 94, .	3.2	8
36	Non-Hermitian Hamiltonian and Lamb shift in circular dielectric microcavity. Optics Communications, 2016, 368, 190-196.	2.1	8

#	Article	IF	Citations
37	Time reversal of a discrete system coupled to a continuum based on non-Hermitian flip. Science Bulletin, 2017, 62, 869-874.	9.0	5
38	Opening-assisted coherent transport in the semiclassical regime. Physical Review E, 2017, 95, 022122.	2.1	21
39	Coalescence of resonances in dissipationless resonant tunneling structures and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si23.gif" display="inline" overflow="scroll"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetry breaking. Annals of Physics, 2017, 376, 353-371.	2.8	14
40	Non-Hermitian bidirectional robust transport. Physical Review B, 2017, 95, .	3.2	23
41	Interplay of different environments in open quantum systems: Breakdown of the additive approximation. Physical Review E, 2017, 96, 012113.	2.1	23
42	Anti- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> symmetry in dissipatively coupled optical systems. Physical Review A, 2017, 96, .	2.5	123
43	Optimal dephasing for ballistic energy transfer in disordered linear chains. Physical Review E, 2017, 96, 052103.	2.1	12
44	Transport efficiency in open quantum systems with static and dynamical disorder. AIP Conference Proceedings, 2017, , .	0.4	0
45	Scattering theory of efficient quantum transport across finite networks. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 224003.	1.5	2
46	Plasmonic superradiant antennas. AIP Conference Proceedings, 2017, , .	0.4	1
47	Continuous-time quantum walk on an extended star graph: Trapping and superradiance transition. Physical Review E, 2018, 97, 022304.	2.1	8
48	Quantum thermostatted disordered systems and sensitivity under compression. Physica A: Statistical Mechanics and Its Applications, 2018, 493, 370-383.	2.6	2
49	Role of nonorthogonality of energy eigenstates in quantum systems with localized losses. Physical Review A, 2018, 98, .	2.5	6
50	Bi-squeezed states arising from pseudo-bosons. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 455204.	2.1	10
51	Non-Hermiticity and conservation of orthogonal relation in dielectric microcavity. Journal of Physics Communications, 2018, 2, 075007.	1.2	5
52	Scattering Approach to Efficient Transport. Springer Theses, 2018, , 145-169.	0.1	0
53	Critical points in two-channel quantum systems. European Physical Journal D, 2018, 72, 1.	1.3	2
54	Non-Hermitian Operator Modelling of Basic Cancer Cell Dynamics. Entropy, 2018, 20, 270.	2.2	27

#	Article	IF	Citations
55	Shannon entropy and avoided crossings in closed and open quantum billiards. Physical Review E, 2018, 97, 062205.	2.1	9
56	Macroscopic coherence as an emergent property in molecular nanotubes. New Journal of Physics, 2019, 21, 013019.	2.9	12
57	Towards high-temperature coherence-enhanced transport in heterostructures of a few atomic layers. Physical Review B, 2019, 100, .	3.2	11
58	Information Entropy of Tight-Binding Random Networks with Losses and Gain: Scaling and Universality. Entropy, 2019, 21, 86.	2.2	6
59	Complex energies of open one-dimensional disordered wires. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 110, 59-67.	2.7	1
60	On the existence of superradiant excitonic states in microtubules. New Journal of Physics, 2019, 21, 023005.	2.9	19
61	Relative Entropy as a Measure of Difference between Hermitian and Non-Hermitian Systems. Entropy, 2020, 22, 809.	2.2	3
62	Eigenvalues of nonâ€Hermitian matrices: A dynamical and an iterative approachâ€"Application to a truncated Swanson model. Mathematical Methods in the Applied Sciences, 2020, 43, 5758-5775.	2.3	2
63	Continuous-time quantum walk on an extended star graph: Disorder-enhanced trapping process. Physical Review E, 2020, 101, 012310.	2.1	3
64	Electric-field assisted optimal quantum transport of photo-excitations in polar heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 120, 114023.	2.7	4
65	Non-Hermitian plasmonic antennas and waveguides: Superradiant and dark states. Photonics and Nanostructures - Fundamentals and Applications, 2021, 43, 100879.	2.0	0
66	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
67	Physics of thermalization and level density in an isolated system of strongly interacting particles. European Physical Journal: Special Topics, 2021, 230, 755-769.	2.6	0
68	Coupling-induced nonunitary and unitary scattering in anti- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> -symmetric non-Hermitian systems. Physical Review A, 2021, 104, .	2.5	6
69	Many-Body Quantum Zeno Effect and Measurement-Induced Subradiance Transition. Quantum - the Open Journal for Quantum Science, 0, 5, 528.	0.0	62
70	Population dynamics based on ladder bosonic operators. Applied Mathematical Modelling, 2021, 96, 39-52.	4.2	5
71	Non-Hermitian physics. Advances in Physics, 2020, 69, 249-435.	14.4	695
72	Efficient computation of spontaneous emission dynamics in arbitrary photonic structures. Journal of Optics (United Kingdom), 2015, 17, 125203.	2.2	1

#	Article	IF	Citations
73	Nonorthogonality constraints in open quantum and wave systems. Physical Review Research, 2019, 1, .	3.6	15
74	Protection of parity-time symmetry in topological many-body systems: Non-Hermitian toric code and fracton models. Physical Review Research, 2020, 2, .	3.6	23
75	Review of exceptional point-based sensors. Photonics Research, 2020, 8, 1457.	7.0	174
76	Van Hove bound states in the continuum: Localized subradiant states in finite open lattices. Physical Review B, 2020, 101, .	3.2	3
77	Time scaling and quantum speed limit in non-Hermitian Hamiltonians. Physical Review A, 2021, 104, .	2.5	7
78	Efficient light harvesting and photon sensing via engineered cooperative effects. New Journal of Physics, 2022, 24, 013027.	2.9	4
79	Simulating a catalyst induced quantum dynamical phase transition of a Heyrovsky reaction with different models for the environment. Journal of Physics Condensed Matter, 2022, 34, 214006.	1.8	1
80	Directional transport along an atomic chain. Physical Review A, 2022, 105, .	2.5	1
81	Response strengths of open systems at exceptional points. Physical Review Research, 2022, 4, .	3.6	14
82	Extended star graph as a light-harvesting-complex prototype: Excitonic absorption speedup by peripheral energy defect tuning. Physical Review E, 2022, 106, .	2.1	1
83	Localization of light in three dimensions: A mobility edge in the imaginary axis in non-Hermitian Hamiltonians. Europhysics Letters, 2024, 145, 35002.	2.0	1