

Alessandro Silva

List of Publications by Year in descending order

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66
papers

5,276
citations

117625

34
h-index

106344

65
g-index

66
all docs

66
docs citations

66
times ranked

2821
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Colloquium</i>: Nonequilibrium dynamics of closed interacting quantum systems. Reviews of Modern Physics, 2011, 83, 863-883.	45.6	2,081
2	Statistics of the Work Done on a Quantum Critical System by Quenching a Control Parameter. Physical Review Letters, 2008, 101, 120603.	7.8	274
3	Effective Thermal Dynamics Following a Quantum Quench in a Spin Chain. Physical Review Letters, 2009, 102, 127204.	7.8	183
4	Dynamical Quantum Phase Transitions in Spin Chains with Long-Range Interactions: Merging Different Concepts of Nonequilibrium Criticality. Physical Review Letters, 2018, 120, 130601.	7.8	179
5	Periodic Steady Regime and Interference in a Periodically Driven Quantum System. Physical Review Letters, 2012, 109, 257201.	7.8	148
6	Quantum quenches, thermalization, and many-body localization. Physical Review B, 2011, 83, .	3.2	126
7	Prethermalization in a Nonintegrable Quantum Spin Chain after a Quench. Physical Review Letters, 2013, 111, 197203.	7.8	126
8	Scrambling and entanglement spreading in long-range spin chains. Physical Review B, 2018, 98, .	3.2	125
9	Long time dynamics following a quench in an integrable quantum spin chain: Local versus nonlocal operators and effective thermal behavior. Physical Review B, 2010, 82, .	3.2	118
10	Dynamics in many-body localized quantum systems without disorder. Physical Review B, 2015, 91, .	3.2	112
11	Large Deviations and Universality in Quantum Quenches. Physical Review Letters, 2012, 109, 250602.	7.8	109
12	Adiabatic Dynamics in Open Quantum Critical Many-Body Systems. Physical Review Letters, 2008, 101, 175701.	7.8	90
13	Signs of quantum dotâ€œlead matrix elements: The effect on transport versus spectral properties. Physical Review B, 2002, 66, .	3.2	76
14	Floquet time crystals in clock models. Physical Review B, 2019, 99, .	3.2	69
15	Exploring dynamical phase transitions and prethermalization with quantum noise of excitations. Physical Review B, 2015, 91, .	3.2	65
16	Total correlations of the diagonal ensemble herald the many-body localization transition. Physical Review B, 2015, 92, .	3.2	64
17	Measuring entanglement entropies in many-body systems. Physical Review A, 2006, 74, .	2.5	63
18	Relaxation, prethermalization, and diffusion in a noisy quantum Ising chain. Physical Review B, 2012, 86, .	3.2	61

#	ARTICLE	IF	CITATIONS
19	Statistics of the work done by splitting a one-dimensional quasicondensate. <i>Physical Review E</i> , 2013, 87, 052129.	2.1	59
20	Work distribution and edge singularities for generic time-dependent protocols in extended systems. <i>Physical Review E</i> , 2013, 88, 042109.	2.1	57
21	Dynamical phase transitions and Loschmidt echo in the infinite-range XY model. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150160.	3.4	57
22	Chaotic Dynamical Ferromagnetic Phase Induced by Nonequilibrium Quantum Fluctuations. <i>Physical Review Letters</i> , 2018, 120, 130603.	7.8	54
23	Impact of nonequilibrium fluctuations on prethermal dynamical phase transitions in long-range interacting spin chains. <i>Physical Review B</i> , 2019, 99, .	3.2	54
24	Charge oscillations in quantum dots: Renormalization group and Hartree method calculations. <i>Physical Review B</i> , 2005, 72, .	3.2	52
25	Adiabatic dynamics of a quantum critical system coupled to an environment: Scaling and kinetic equation approaches. <i>Physical Review B</i> , 2009, 80, .	3.2	51
26	Quasilocalized excitations induced by long-range interactions in translationally invariant quantum spin chains. <i>Physical Review B</i> , 2019, 99, .	3.2	48
27	Applicability of the generalized Gibbs ensemble after a quench in the quantum Ising chain. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P07015.	2.3	45
28	Dynamical quantum phase transitions in systems with continuous symmetry breaking. <i>Physical Review B</i> , 2017, 96, .	3.2	44
29	Relaxation Dynamics of Disordered Spin Chains: Localization and the Existence of a Stationary State. <i>Physical Review Letters</i> , 2012, 109, 247205.	7.8	36
30	Nonequilibrium dynamics of a noisy quantum Ising chain: Statistics of work and prethermalization after a sudden quench of the transverse field. <i>Physical Review B</i> , 2014, 89, .	3.2	36
31	From localization to anomalous diffusion in the dynamics of coupled kicked rotors. <i>Physical Review E</i> , 2018, 97, 022202.	2.1	36
32	Phase Coherence, Inelastic Scattering, and Interaction Corrections in Pumping Through Quantum Dots. <i>Physical Review Letters</i> , 2008, 100, 236803.	7.8	35
33	Quantum quenches in the Dicke model: Statistics of the work done and of other observables. <i>Physical Review E</i> , 2009, 80, 061130.	2.1	35
34	Prethermal quantum many-body Kapitza phases of periodically driven spin systems. <i>Physical Review B</i> , 2019, 100, .	3.2	35
35	Controlled Dephasing of a Quantum Dot in the Kondo Regime. <i>Physical Review Letters</i> , 2004, 92, 156801.	7.8	34
36	Multipartite Entanglement Structure in the Eigenstate Thermalization Hypothesis. <i>Physical Review Letters</i> , 2020, 124, 040605.	7.8	30

#	ARTICLE	IF	CITATIONS
55	Prethermalization of weakly interacting bosons after a sudden interaction quench. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P05035.	2.3	12
56	Taking the temperature of a pure quantum state. Physical Review A, 2022, 105, .	2.5	12
57	Instanton Analysis of Hysteresis in the Three-Dimensional Random-Field Ising Model. Physical Review Letters, 2006, 96, 117202.	7.8	11
58	Crossover from fast to slow dynamics in a long range interacting Ising chain. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 094017.	2.3	7
59	The Role of Quantum Work Statistics in Many-Body Physics. Fundamental Theories of Physics, 2018, , 317-336.	0.3	7
60	Multiphoton processes in driven mesoscopic systems. Physical Review B, 2007, 76, .	3.2	6
61	Comment on "Do Intradot Electron-Electron Interactions Induce Dephasing?" Physical Review Letters, 2005, 94, 179701; author reply 179702.	7.8	4
62	Dynamical phase transition in the transverse field Ising chain characterized by the transverse magnetization spectral function. Physical Review B, 2019, 100, .	3.2	4
63	Tail states below the Thouless gap in superconductor"normal-metal"superconductor junctions: Classical fluctuations. Physical Review B, 2005, 72, .	3.2	3
64	Absence of thermalization in a Fermi liquid. Physical Review B, 2014, 90, .	3.2	3
65	Nonadiabatic stationary behavior in a driven low-dimensional gapped system. Physical Review B, 2014, 90, .	3.2	2
66	Phase measurements in Quantum Dots. , 2003, , 149-172.		0