

Enrico Arrigoni

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Variational cluster approach to spontaneous symmetry breaking: The itinerant antiferromagnet in two dimensions. <i>Physical Review B</i> , 2004, 70, .	3.2	146
2	Antiferromagnetic to superconducting phase transition in the hole- and electron-doped Hubbard model at zero temperature. <i>Physical Review B</i> , 2006, 74, .	3.2	129
3	Fate of the false Mott-Hubbard transition in two dimensions. <i>Physical Review B</i> , 2015, 91, .	3.2	129
4	Model for the Magnetic Order and Pairing Channels in Fe Pnictide Superconductors. <i>Physical Review Letters</i> , 2008, 101, 237004.	7.8	127
5	Nonequilibrium Dynamical Mean-Field Theory: An Auxiliary Quantum Master Equation Approach. <i>Physical Review Letters</i> , 2013, 110, 086403.	7.8	105
6	Nonquasiparticle States in CoMnSi Evidenced through Magnetic Tunnel Junction Spectroscopy Measurements. <i>Physical Review Letters</i> , 2008, 100, 086402.	7.8	98
7	Antiferromagnetism and Hole Pair Checkerboard in the Vortex State of High T_c Superconductors. <i>Physical Review Letters</i> , 2002, 89, 137004.	7.8	85
8	Doping-induced incommensurate antiferromagnetism in a Mott-Hubbard insulator. <i>Physical Review B</i> , 1991, 44, 7455-7465.	3.2	81
9	Mechanism of high-temperature superconductivity in a striped Hubbard model. <i>Physical Review B</i> , 2004, 69, .	3.2	79
10	Variational cluster approach to the Hubbard model: Phase-separation tendency and finite-size effects. <i>Physical Review B</i> , 2006, 74, .	3.2	77
11	Auxiliary master equation approach to nonequilibrium correlated impurities. <i>Physical Review B</i> , 2014, 89, .	3.2	73
12	Half-metallic ferromagnetism and spin polarization in CrO_2 . <i>Physical Review B</i> , 2007, 75, .	3.2	67
13	Stripes in Doped Antiferromagnets: Single-Particle Spectral Weight. <i>Physical Review Letters</i> , 2000, 85, 2585-2588.	7.8	66
14	Electron Correlations and the Minority-Spin Band Gap in Half-Metallic Heusler Alloys. <i>Physical Review Letters</i> , 2006, 96, 137203.	7.8	61
15	Auxiliary master equation approach within matrix product states: Spectral properties of the nonequilibrium Anderson impurity model. <i>Physical Review B</i> , 2015, 92, .	3.2	58
16	Phase separation and competition of superconductivity and magnetism in the two-dimensional Hubbard model: From strong to weak coupling. <i>Physical Review B</i> , 2007, 76, .	3.2	57
17	Absence of Hole Confinement in Transition-Metal Oxides with Orbital Degeneracy. <i>Physical Review Letters</i> , 2008, 100, 066403.	7.8	57
18	Systematic numerical study of spin-charge separation in one dimension. <i>Physical Review B</i> , 1998, 57, 6370-6375.	3.2	56

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19	Weak phase separation and the pseudogap in the electron-doped cuprates. <i>Europhysics Letters</i> , 2005, 72, 117-123.	2.0	54
20	Characterization of Mott-insulating and superfluid phases in the one-dimensional Bose-Hubbard model. <i>Physical Review A</i> , 2012, 85, .	2.5	50
21	Emission characteristics of laser-driven dissipative coupled-cavity systems. <i>Physical Review A</i> , 2011, 83, .	2.5	47
22	Projected SO(5) models. <i>Physical Review B</i> , 1999, 60, 13070-13084.	3.2	46
23	Crossover from Luttinger- to Fermi-Liquid Behavior in Strongly Anisotropic Systems in Large Dimensions. <i>Physical Review Letters</i> , 1999, 83, 128-131.	7.8	44
24	Evolution of the stripe phase as a function of doping from a theoretical analysis of angle-resolved photoemission data. <i>Physical Review B</i> , 2002, 65, .	3.2	44
25	Phase diagram and single-particle spectrum of CuO_2 high- T_c layers: variational cluster approach to the three-band Hubbard model. <i>New Journal of Physics</i> , 2009, 11, 055066.	2.9	44
26	Lindblad-driven discretized leads for nonequilibrium steady-state transport in quantum impurity models: Recovering the continuum limit. <i>Physical Review B</i> , 2016, 94, .	3.2	40
27	Half-Metallic Ferromagnetism Induced by Dynamic Electron Correlations in VAs. <i>Physical Review Letters</i> , 2006, 96, 197203.	7.8	37
28	Spin and charge excitations in a three-legs fermionic ladder: a renormalization-group study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996, 215, 91-96.	2.1	36
29	Correct formulation of the $1/N$ expansion for the slave-boson approach within the functional integral. <i>Physical Review B</i> , 1994, 50, 2700-2703.	3.2	34
30	Nonequilibrium steady state for strongly correlated many-body systems: Variational cluster approach. <i>Physical Review B</i> , 2011, 84, .	3.2	33
31	Pair phase fluctuations and the pseudogap. <i>Physical Review B</i> , 2002, 66, .	3.2	32
32	Titanium nitride: A correlated metal at the threshold of a Mott transition. <i>Physical Review B</i> , 2009, 79, .	3.2	32
33	Nonequilibrium spatiotemporal formation of the Kondo screening cloud on a lattice. <i>Physical Review B</i> , 2015, 91, .	3.2	31
34	Optimized auxiliary representation of non-Markovian impurity problems by a Lindblad equation. <i>New Journal of Physics</i> , 2017, 19, 063005.	2.9	31
35	Beyond the Gutzwiller approximation in the slave-boson approach: Inclusion of fluctuations with the correct continuum limit of the functional integral. <i>Physical Review Letters</i> , 1993, 71, 3178-3181.	7.8	29
36	Functional-integral formulation of the slave-boson approach: Beyond the mean-field treatment with the correct continuum limit. <i>Physics Reports</i> , 1994, 241, 291-369.	25.6	29

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37	Crossover to Fermi-liquid behavior for weakly coupled Luttinger liquids in the anisotropic large-dimension limit. <i>Physical Review B</i> , 2000, 61, 7909-7929.	3.2	29
38	Stripes and superconducting pairing in the t - J model with Coulomb interactions. <i>Physical Review B</i> , 2002, 65, .	3.2	29
39	The 3-band Hubbard-model versus the 1-band model for the high- T_c cuprates: Pairing dynamics, superconductivity and the ground-state phase diagram. <i>European Physical Journal: Special Topics</i> , 2010, 188, 15-32.	2.6	29
40	Spectral properties of strongly correlated bosons in two-dimensional optical lattices. <i>Physical Review B</i> , 2010, 81, .	3.2	29
41	Renormalized $SO(5)$ Symmetry in Ladders with Next-Nearest-Neighbor Hopping. <i>Physical Review Letters</i> , 1999, 82, 2115-2118.	7.8	27
42	Superconducting Gap in the Hubbard Model and the Two-Gap Energy Scales of High- T_c Cuprate Superconductors. <i>Physical Review Letters</i> , 2007, 99, 257002.	7.8	26
43	Variational cluster approach for strongly correlated lattice bosons in the superfluid phase. <i>Physical Review B</i> , 2011, 83, .	3.2	26
44	Spectral properties of coupled cavity arrays in one dimension. <i>Physical Review B</i> , 2010, 81, .	3.2	25
45	Phase Diagram and Dynamics of the Projected $SO(5)$ Symmetric Model of High- T_c Superconductivity. <i>Physical Review Letters</i> , 2002, 88, 057003.	7.8	23
46	Majority-spin nonquasiparticle states in half-metallic ferrimagnet Mn_2VAl . <i>Physical Review B</i> , 2009, 79, .	3.2	22
47	Thermoelectric response of a correlated impurity in the nonequilibrium Kondo regime. <i>Physical Review B</i> , 2016, 94, .	3.2	22
48	Nonequilibrium Kondo effect in a magnetic field: auxiliary master equation approach. <i>New Journal of Physics</i> , 2018, 20, 013030.	2.9	22
49	Markovian treatment of non-Markovian dynamics of open Fermionic systems. <i>New Journal of Physics</i> , 2019, 21, 123035.	2.9	22
50	Interrelation of Superconducting and Antiferromagnetic Gaps in High- T_c Compounds: A Test Case for the $SO(5)$ Theory. <i>Physical Review Letters</i> , 2000, 85, 824-827.	7.8	21
51	Transport through a correlated interface: Auxiliary master equation approach. <i>Physical Review B</i> , 2015, 92, .	3.2	21
52	Impact ionization processes in the steady state of a driven Mott-insulating layer coupled to metallic leads. <i>Physical Review B</i> , 2018, 97, .	3.2	21
53	Half-metallicity in $NiMnSb$: A variational cluster approach with i parameters. <i>Physical Review B</i> , 2010, 81, .	3.2	20
54	Interchain Coherence of Coupled Luttinger Liquids at all Orders in Perturbation Theory. <i>Physical Review Letters</i> , 1998, 80, 790-793.	7.8	19

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55	Steady-state spectra, current, and stability diagram of a quantum dot: A nonequilibrium variational cluster approach. Physical Review B, 2012, 86, .	3.2	19
56	Nonequilibrium self-energy functional theory. Physical Review B, 2013, 88, .	3.2	18
57	Critical properties of projected SO(5) models at finite temperatures. Physical Review B, 2000, 62, 11770-11777.	3.2	17
58	Benchmarking the variational cluster approach by means of the one-dimensional Bose-Hubbard model. Physical Review B, 2010, 81, .	3.2	15
59	Spectral Properties of High-Tc Cuprates via a Cluster-Perturbation Approach. Journal of Low Temperature Physics, 2002, 126, 949-959.	1.4	14
60	Quantum phase transition and excitations of the Tavis-Cummings lattice model. Physical Review B, 2010, 82, .	3.2	14
61	Extended self-energy functional approach for strongly correlated lattice bosons in the superfluid phase. Physical Review B, 2011, 84, .	3.2	14
62	Steady-state and quench-dependent relaxation of a quantum dot coupled to one-dimensional leads. Physical Review B, 2013, 88, .	3.2	14
63	Dispersive spectrum and orbital order of spinless p -band fermions in an optical lattice. Physical Review B, 2009, 80, 040401.	3.2	13
64	Electronic correlations in short-period (CrAs) _n (GaAs) _n heterostructures. Physical Review B, 2015, 91, 040401.	3.2	13
65	Nonequilibrium pseudogap Anderson impurity model: A master equation tensor network approach. Physical Review B, 2020, 101, .	3.2	13
66	Antiferromagnetism of CuO ₂ layers within a slave-boson approach. Physical Review B, 1990, 41, 4838-4841.	3.2	12
67	Correct continuum limit of the functional-integral representation for the four-slave-boson approach to the Hubbard model: Paramagnetic phase. Physical Review B, 1995, 52, 2428-2462.	3.2	12
68	Phase diagram of three fermionic chains: A renormalization group study. Physica Status Solidi (B): Basic Research, 1996, 195, 425-432.	1.5	12
69	Current characteristics of a one-dimensional Hubbard chain: Role of correlation and dissipation. Physical Review B, 2015, 92, .	3.2	12
70	Variational cluster approach to the single-impurity Anderson model. Physical Review B, 2012, 85, .	3.2	11
71	Theory of two-particle excitations and the magnetic susceptibility in high-T _c cuprate superconductors. Europhysics Letters, 2010, 89, 27005.	2.0	10
72	Universal scaling behavior of coupled chains of interacting fermions. Physical Review B, 1998, 57, 6360-6369.	3.2	9

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73	Renormalization of the electron-spin-fluctuation interaction in the $t\text{-}U$ Hubbard model. Physical Review B, 2006, 74, .	3.2	9
74	Excitations in disordered bosonic optical lattices. Physical Review A, 2010, 82, .	2.5	9
75	Vibration-mediated correlation effects in the transport properties of a benzene molecule. Physical Review B, 2013, 88, .	3.2	9
76	Strong enhancement of d -wave superconducting state in the three-band Hubbard model coupled to an apical oxygen phonon. Physical Review B, 2011, 83, .	3.2	8
77	Time-reversal symmetry breaking phase in the Hubbard model: A variational cluster approach study. Physical Review B, 2012, 85, .	3.2	8
78	Quasiparticle excitations in steady state transport across a correlated layer. Journal of Physics: Conference Series, 2016, 696, 012003.	0.4	8
79	Charge redistribution in correlated heterostructures within nonequilibrium real-space dynamical mean-field theory. Physical Review B, 2018, 98, .	3.2	8
80	Resonance effects in correlated multilayer heterostructures. Physical Review B, 2016, 94, .	3.2	7
81	First-principles quantum transport simulation of CuPc on Au(111) and Ag(111). Physical Review B, 2019, 99, .	3.2	7
82	Rare-earth impurities in Co_2P improving half-metallicity at finite temperatures. Physical Review B, 2009, 80, .	3.2	6
83	Master equation based steady-state cluster perturbation theory. Physical Review B, 2015, 92, .	3.2	6
84	Efficient energy resolved quantum master equation for transport calculations in large strongly correlated systems. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 075301.	2.1	6
85	STRIPES IN DOPED ANTIFERROMAGNETS: BOND-CENTERED VERSUS SITE-CENTERED. International Journal of Modern Physics B, 2000, 14, 3783-3790.	2.0	5
86	Where do holes go in doped antiferromagnets and what is their relationship to superconductivity?. Journal of Physics and Chemistry of Solids, 2002, 63, 2207-2212.	4.0	5
87	Role of vertex corrections in the spin-fluctuation mediated pairing mechanism. Europhysics Letters, 2005, 71, 959-965.	2.0	5
88	Correlated band structure of electron-doped cuprate materials. Low Temperature Physics, 2006, 32, 457-461.	0.6	5
89	Thermoelectric properties of a strongly correlated layer. Physical Review B, 2017, 96, .	3.2	5
90	Auxiliary master equation approach within stochastic wave functions: Application to the interacting resonant level model. Physical Review E, 2019, 99, 043303.	2.1	5

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91	Electron Transport in Coupled Chains of Interacting Fermions with Impurities. <i>Physical Review Letters</i> , 1997, 79, 2297-2300.	7.8	4
92	Correlated band structure and the ground-state phase diagram in high- T_c cuprates. <i>Physica B: Condensed Matter</i> , 2006, 378-380, 60-63.	2.7	4
93	Exact criterion for choosing the hopping operator in the four-slave-boson approach. <i>Physical Review B</i> , 1995, 52, 13707-13710.	3.2	3
94	SO(5) theory of high- T_c superconductivity: models and experiments. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 317-318, 175-184.	1.2	3
95	Effects of electronic correlations and magnetic field on a molecular ring out of equilibrium. <i>Physical Review B</i> , 2014, 89, .	3.2	3
96	First-principles molecular transport calculation for the benzenedithiolate molecule. <i>New Journal of Physics</i> , 2017, 19, 103007.	2.9	3
97	Spin-wave spectrum of a two-dimensional itinerant-electron antiferromagnet based on a CuO_2 layer: Approximate mapping onto an effective Heisenberg model. <i>Physical Review B</i> , 1992, 45, 7816-7827.	3.2	2
98	Interplane magnetic coupling effects in the multilattice compound $\text{Y}_2\text{Ba}_4\text{Cu}_7\text{O}_{15}$. <i>Physical Review B</i> , 1999, 59, R685-R688.	3.2	2
99	Magnetic properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ in a self-consistent approach: Comparison with quantum Monte Carlo simulations and experiments. <i>Physical Review B</i> , 1999, 59, 6534-6544.	3.2	2
100	Magnetic fluctuations in coupled inequivalent Hubbard layers as a model for. <i>European Physical Journal B</i> , 1999, 8, 195-205.	1.5	2
101	Projected SO(5)-theory and the interrelation of superconducting and antiferromagnetic gaps in high- T_c compounds. <i>Physica B: Condensed Matter</i> , 2000, 280, 184-188.	2.7	2
102	Polaritonic properties of the Jaynes-Cummings lattice model in two dimensions. <i>Computer Physics Communications</i> , 2011, 182, 2036-2040.	7.5	2
103	Non-linear transport through a strongly correlated quantum dot. , 2012, , .		2
104	Nonequilibrium Green's functions and their relation to the negative differential conductance in the interacting resonant level model. <i>Physical Review B</i> , 2019, 99, .	3.2	2
105	Bayesian source separation of electrical bioimpedance signals. <i>Biomedical Signal Processing and Control</i> , 2021, 67, 102541.	5.7	2
106	Anomalous pressure dependence of the La_2CuO_4 superexchange interaction: An evidence of band antiferromagnetism?. <i>Solid State Communications</i> , 1993, 87, 237-240.	1.9	1
107	Spin-wave spectrum of a two-dimensional itinerant electron system: Analytic results for the incommensurate spiral phase in the strong-coupling limit. <i>European Physical Journal B</i> , 2001, 19, 433-448.	1.5	1
108	Dynamical properties and the phase diagram of the projected SO(5)-symmetric model of high- T_c superconductors. <i>Journal of Physics and Chemistry of Solids</i> , 2002, 63, 1365-1370.	4.0	1

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109	Phase separation and pseudogap in electron-doped cuprates: A variational cluster perturbation analysis. <i>Physica B: Condensed Matter</i> , 2006, 378-380, 432-433.	2.7	1
110	Variational cluster treatment of the three-band Hubbard model: Electron vs. hole doping. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 981-982.	1.2	1
111	Single-particle spectral function of the Hubbard chain: frustration induced. <i>Chinese Physics B</i> , 2009, 18, 2475-2480.	1.4	1
112	Correlation-induced Suppression of Bilayer Splitting in High-T _c Cuprates: A Variational Cluster Approach. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 1769-1774.	1.8	1
113	Nonequilibrium variational cluster perturbation theory: Quench dynamics of the quantum Ising model. <i>Physical Review B</i> , 2016, 94, .	3.2	1
114	Master Equations Versus Keldysh Green's Functions for Correlated Quantum Systems Out of Equilibrium. <i>Springer Series in Solid-state Sciences</i> , 2018, , 121-188.	0.3	1
115	Itinerant vs. localized antiferromagnetism of CuO 2 layers. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 162-164, 785-786.	1.2	0
116	Incommensurate antiferromagnetism within a slave-boson approach to a two-dimensional Hubbard Hamiltonian. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 185-189, 1691-1692.	1.2	0
117	Implementing the four-slave-boson approach with the correct continuum limit of the functional integral. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 2255-2256.	1.2	0
118	Electron transport in dirty multi-channel systems. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1996, 103, 177-180.	1.1	0
119	t-U-W model of dx ₂ -y ₂ superconductor in the proximity of an antiferromagnetic Mott insulator: Diagrammatic studies versus quantum Monte Carlo simulations. <i>Physical Review B</i> , 2000, 62, 12395-12407.	3.2	0
120	Antiferromagnetic and superconducting gaps and their interrelation in high-T _c cuprates. <i>Annalen Der Physik</i> , 2003, 12, 320-338.	2.4	0
121	Object-Oriented C++ Class Library for Many Body Physics on Finite Lattices and a First Application to High-Temperature Superconductivity. , 2003, , 307-326.		0
122	Phase diagram and Scaling Properties of the Projected SO(5) Model in Three Dimensions. , 2005, , 289-300.		0
123	Competition between charge-density waves and superconductivity in striped systems. <i>Physica B: Condensed Matter</i> , 2005, 359-361, 623-625.	2.7	0
124	A controlled route to the competing phases and the single-particle spectral function in the ground state of the 2D Hubbard model. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 248-251.	1.2	0
125	Enhancement of anisotropic electron-phonon coupling in the cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 1119-1120.	1.2	0
126	Electron-phonon interaction in the strongly correlated Hubbard model. <i>Physica C: Superconductivity and Its Applications</i> , 2007, 460-462, 1117-1118.	1.2	0

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127	Electron spin-fluctuation interaction in the 2D one-band Hubbard model. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1061-1062.	1.2	0
128	Spin injection and filtering in halfmetal/semiconductor (CrAs/GaAs) heterostructures. , 2013, , .		0
129	PLANCKS 2017 Physics League Across Numerous Countries for Kick-Ass Students. European Journal of Physics, 2018, 39, 064001.	0.6	0
130	The Cluster-Perturbation-Theory and its Application to Strongly-Correlated Materials. , 2003, , 289-305.		0
131	CUHE: Electron-Spin Interaction in High-Tc Superconductors. , 2005, , 205-212.		0
132	OOPCV: Phasediagram and Scaling Properties of the Projected SO(5) Model in Three Dimensions. , 2005, , 263-273.		0
133	Self-Organized Quasi-One Dimensional Structures in High-Temperature Superconductors: the Stripe Phase. , 2002, , 307-318.		0