

Giorgio Sangiovanni

List of Publications by Year in descending order

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docs citations

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4111
citing authors

#	ARTICLE	IF	CITATIONS
1	Twofold van Hove singularity and origin of charge order in topological kagome superconductor CsV ₃ Sb ₅ . Nature Physics, 2022, 18, 301-308.	16.7	176
2	Evidence of a 2D Electron Gas in a Single Unit Cell of Anatase TiO ₂ (001). Advanced Science, 2022, 9, e2105114.	11.2	7
3	Toward Functionalized Ultrathin Oxide Films: The Impact of Surface Apical Oxygen. Advanced Electronic Materials, 2022, 8, .	5.1	5
4	Van Hove tuning of A V_3Sb_5 kagome metals under pressure and strain. Physical Review B, 2022, 105, .	8.2	17
5	Resistivity Exponents in 3D Dirac Semimetals From Electron-Electron Interaction. Physical Review Letters, 2021, 126, 206601.	7.8	5
6	Momentum-space signatures of Berry flux monopoles in the Weyl semimetal TaAs. Nature Communications, 2021, 12, 3650.	12.8	20
7	Fourth-order exceptional points in correlated quantum many-body systems. Physical Review B, 2021, 104, .	3.2	17
8	Design and realization of topological Dirac fermions on a triangular lattice. Nature Communications, 2021, 12, 5396.	12.8	19
9	Nature of Unconventional Pairing in the Kagome Superconductors V_3Sb_5		

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19	Orbital-Driven Rashba Effect in a Binary Honeycomb Monolayer AgTe. Physical Review Letters, 2020, 124, 176401.	7.8	33
20	Nonlocal annihilation of Weyl fermions in correlated systems. Physical Review Research, 2020, 2, .	3.6	12
21	Kondo screening in Co adatoms with full Coulomb interaction. Physical Review Research, 2020, 2, .	3.6	9
22	Single-Co Kondo effect in atomic Cu wires on Cu(111). Physical Review Research, 2020, 2, .	3.6	5
23	Symmetric improved estimators for continuous-time quantum Monte Carlo. Physical Review B, 2019, 100, .	3.2	25
24	Interplay of Dirac Nodes and Volkov-Pankratov Surface States in Compressively Strained HgTe. Physical Review X, 2019, 9, .	8.9	21
25	Towards topological quasifreestanding stanene via substrate engineering. Physical Review B, 2019, 99, .	3.2	17
26	Nonclassical Optical Properties of Mesoscopic Gold. Physical Review Letters, 2019, 122, 246802.	7.8	10
27	State and superstate sampling in hybridization-expansion continuous-time quantum Monte Carlo. Physical Review B, 2019, 99, .	3.2	12
28	Orbital Fingerprint of Topological Fermi Arcs in the Weyl Semimetal TaP. Physical Review Letters, 2019, 122, 116402.	7.8	22
29	Custodial glide symmetry of quantum spin Hall edge modes in monolayer WTe_2 . Physical Review B, 2019, 99, .	3.2	15
30	Electronic properties of candidate type-II Weyl semimetal WTe_2 . A review perspective. Electronic Structure, 2019, 1, 014003.	2.8	32
31	First-order topological quantum phase transition in a strongly correlated ladder. Physical Review B, 2019, 99, .	3.2	15
32	w2dynamics: Local one- and two-particle quantities from dynamical mean field theory. Computer Physics Communications, 2019, 235, 388-399.	7.5	86
33	Complementary views on electron spectra: From fluctuation diagnostics to real-space correlations. Physical Review B, 2018, 97, .	3.2	10
34	Reversible magnetic switching of high-spin molecules on a giant Rashba surface. Npj Quantum Materials, 2018, 3, .	5.2	15
35	Coexistence of metallic edge states and antiferromagnetic ordering in correlated topological insulators. Physical Review B, 2018, 98, .	3.2	15
36	Dynamical Mean Field Theory for Oxide Heterostructures. Springer Series in Materials Science, 2018, , 215-243.	0.6	0

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37	Electronic structure of single layer 1T-NbSe ₂ : interplay of lattice distortions, non-local exchange, and Mott-Hubbard correlations. Journal of Physics Condensed Matter, 2018, 30, 325601.	1.8	25
38	Atomically Precise Lateral Modulation of a Two-Dimensional Electron Liquid in Anatase TiO ₂ Thin Films. Nano Letters, 2017, 17, 2561-2567.	9.1	28
39	Realizing double Dirac particles in the presence of electronic interactions. Physical Review B, 2017, 96, .	3.2	23
40	Chromium analogs of iron-based superconductors. Physical Review B, 2017, 95, .	3.2	22
41	Breakdown of Traditional Many-Body Theories for Correlated Electrons. Physical Review Letters, 2017, 119, 056402.	7.8	61
42	DFT+DMFT study on soft moment magnetism and covalent bonding in SrRuO_6 . Physical Review B, 2017, 96, .	3.2	18
43	Local magnetic moments in iron and nickel at ambient and Earth's core conditions. Nature Communications, 2017, 8, 16062.	12.8	80
44	Three-Dimensional Electronic Structure of the Type-II Weyl Semimetal WTe_2 . Physical Review Letters, 2017, 119, 026403.	7.8	55
45	Realistic theory of electronic correlations in nanoscopic systems. European Physical Journal: Special Topics, 2017, 226, 2615-2640.	2.6	21
46	Edge state reconstruction from strong correlations in quantum spin Hall insulators. Physical Review B, 2017, 95, .	3.2	31
47	Weakly-Correlated Nature of Ferromagnetism in Nonsymmorphic CrO_2 Revealed by Bulk-Sensitive Soft-X-Ray ARPES. Physical Review X, 2017, 7, .	8.9	19
48	Dimensionality-Driven Metal-Insulator Transition in Spin-Orbit-Coupled SrIrO_3 . Physical Review Letters, 2017, 119, 256404.	7.8	81
49	Robust spin-polarized midgap states at step edges of topological crystalline insulators. Science, 2016, 354, 1269-1273.	12.6	91
50	Worm-improved estimators in continuous-time quantum Monte Carlo. Physical Review B, 2016, 94, .	3.2	39
51	Many-body effects on Cr(001) surfaces: An LDA+DMFT study. Physical Review B, 2016, 93, .	3.2	6
52	Parquet decomposition calculations of the electronic self-energy. Physical Review B, 2016, 93, .	3.2	43
53	Strong correlation effects on topological quantum phase transitions in three dimensions. Physical Review B, 2016, 93, .	3.2	38
54	Nonperturbative landscape of the Mott-Hubbard transition: Multiple divergence lines around the critical endpoint. Physical Review B, 2016, 94, .	3.2	59

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55	Tunable site- and orbital-selective Mott transition and quantum confinement effects in LaMnO_3 . Physical Review B, 2015, 92, .	3.2	16
56	Continuous-time quantum Monte Carlo using worm sampling. Physical Review B, 2015, 92, .	3.2	43
57	Screened moments and absence of ferromagnetism in FeAl. Physical Review B, 2015, 92, .	3.2	29
58	Interacting weak topological insulators and their transition to Dirac semimetal phases. Physical Review B, 2015, 92, .	3.2	9
59	First-Order Character and Observable Signatures of Topological Quantum Phase Transitions. Physical Review Letters, 2015, 114, 185701.	7.8	86
60	Nickel-titanium double perovskite: A three-dimensional spin-1 Heisenberg antiferromagnet. Physical Review B, 2015, 91, .	3.2	8
61	State identification and tunable Kondo effect of MnPc on Ag(001). Physical Review B, 2015, 91, .	3.2	26
62	Electronics with Correlated Oxides: SrVO_3 as a Mott Transistor. Physical Review Letters, 2015, 114, 246401.	7.8	17
63	Fluctuation Diagnostics of the Electron Self-Energy: Origin of the Pseudogap Physics. Physical Review Letters, 2015, 114, 236402.	7.8	95
64	Dynamical vertex approximation in its parquet implementation: Application to Hubbard nanorings. Physical Review B, 2015, 91, .	3.2	78
65	Importance of d - p Coulomb interaction for high T_c cuprates and other oxides. New Journal of Physics, 2014, 16, 033009.	2.9	44
66	Bands, resonances, edge singularities and excitons in core level spectroscopy investigated within the dynamical mean-field theory. Europhysics Letters, 2014, 108, 57004.	2.0	78
67	Quantized electronic fine structure with large anisotropy in ferromagnetic Fe films. Physical Review B, 2014, 90, .	3.2	2
68	Relevance of Hybridization and Filling of 3d Orbitals for the Kondo Effect in Transition Metal Phthalocyanines. Nano Letters, 2014, 14, 3895-3902.	9.1	53
69	Raman-Scattering Measurements and Theory of the Energy-Momentum Spectrum for Underdoped $\text{Bi}_2\text{Sr}_2\text{CaCuO}_8+x$ Superconductors: Evidence of anisotropic Wave Structure for the Pseudogap. Physical Review Letters, 2013, 111, 107001.	7.8	64
70	Comparing quasiparticle GW+DMFT and LDA+DMFT for the test bed material SrVO_3 . Physical Review B, 2013, 88, .	3.2	56
71	Oxide Heterostructures for Efficient Solar Cells. Physical Review Letters, 2013, 110, 078701.	7.8	113
72	Divergent Precursors of the Mott-Hubbard Transition at the Two-Particle Level. Physical Review Letters, 2013, 110, 246405.	7.8	98

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73	Fluctuation-driven topological Hund insulators. Physical Review B, 2013, 87, .	3.2	65
74	Double exchange model for nanoscopic clusters. European Physical Journal B, 2013, 86, 1.	1.5	4
75	Effective crystal field and Fermi surface topology: A comparison of d - and d -orbital models. Physical Review B, 2013, 88, .	3.2	34
76	Mott-Hubbard transition in V_2O_3 revisited. Physica Status Solidi (B): Basic Research, 2013, 250, 1251-1264.	1.5	70
77	Correlation effects in transport properties of interacting nanostructures. Physical Review B, 2012, 86, .	3.2	24
78	Enhancement of the effective disorder potential and thermopower in $NaxCoO_2$ through electron-phonon coupling. Physical Review B, 2012, 86, .	3.2	6
79	Cluster-size dependence in cellular dynamical mean-field theory. Physical Review B, 2012, 85, .	3.2	55
80	Atomic and itinerant effects at the transition-metal x-ray absorption pre-edge exemplified in the case of VK	3.2	13
81	Opening of the superconducting gap in the hole pockets of $Ba(Fe_{1-x}Co_x)_2As_2$ as seen via angle-resolved photoelectron spectroscopy. Physical Review B, 2012, 85, .	3.2	5
82	Signature of antiferromagnetic long-range order in the optical spectrum of strongly correlated electron systems. Physical Review B, 2012, 85, .	3.2	43
83	Spin State of Negative Charge-Transfer Material $SrCoO_{3-x}$. Physical Review Letters, 2012, 109, 117206.	7.8	54
84	Reply. Physical Review Letters, 2012, 108, .	7.8	3
85	Quantum dynamical screening of the local magnetic moment in Fe-based superconductors. Physical Review B, 2012, 86, .	3.2	65
86	Conserved quantities of $SU(2)$ -invariant interactions for correlated fermions and the advantages for quantum Monte Carlo simulations. Physical Review B, 2012, 86, .	3.2	78
87	Microscopic understanding of the orbital splitting and its tuning at oxide interfaces. Europhysics Letters, 2012, 99, 37011.	2.0	19
88	Isotope effect in the pseudogap state of high-temperature copper oxide superconductors. Physical Review B, 2011, 84, .	3.2	2
89	Size Control of Charge-Orbital Order in Half-Doped Manganite $La_{0.5-x}Ca_xMnO_3$. Physical Review Letters, 2011, 107, 197402.	7.8	43
90	Evolution of the electronic structure of a Mott system across its phase diagram: X-ray absorption spectroscopy study of $(V_{1-x}Ti_x)VO_4$. Physical Review Letters, 2011, 107, 197402.	3.2	22

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91	Effects of electronic correlations and disorder on the thermopower of NaCo_2O_4 . Physical Review B, 2011, 84, .	3.2	20
92	Why standard estimates of electron-phonon coupling in cuprates do not work. Journal of Electron Spectroscopy and Related Phenomena, 2010, 181, 20-22.	1.7	1
93	High-Temperature Optical Spectral Weight and Fermi-liquid Renormalization in Bi-Based Cuprate Superconductors. Physical Review Letters, 2010, 105, 077002.	7.8	19
94	Low-energy kink in the nodal dispersion of copper oxide superconductors: Insights from dynamical mean-field theory. Physical Review B, 2010, 82, .	3.2	14
95	Dynamical Vertex Approximation for Nanoscopic Systems. Physical Review Letters, 2010, 104, 246402.	7.8	50
96	Analytical continuation of imaginary axis data using maximum entropy. Physical Review B, 2010, 81, .	3.2	36
97	Dichotomy between Large Local and Small Ordered Magnetic Moments in Iron-Based Superconductors. Physical Review Letters, 2010, 104, 197002.	7.8	111
98	A microscopic view on the Mott transition in chromium-doped V_2O_3 . Nature Communications, 2010, 1, 105.	12.8	129
99	Spectral properties of the Mott Hubbard insulator ($\text{Cr}_{0.011}\text{V}_{0.989}\text{O}_2$) calculated by LDA+DMFT. Journal of Physics: Conference Series, 2010, 200, 012208.	0.4	3
100	Fourier transformation and response functions. Physical Review B, 2010, 82, .	3.2	7
101	Inequivalent Routes across the Mott Transition in VO_3 Explored by X-Ray Absorption. Physical Review Letters, 2010, 104, 047401.	7.8	66
102	Possible secondary component of the order parameter observed in London penetration depth measurements. Physical Review B, 2010, 82, .	3.2	4
103	Analytical continuation of imaginary axis data for optical conductivity. Physical Review B, 2010, 82, .	3.2	42
104	Pressure and alloying effects on the metal to insulator transition in NiS_2 by infrared spectroscopy. Physical Review B, 2009, 80, .	3.2	35
105	Electronic correlations in V_2O_3 studied with K-edge X-ray absorption spectroscopy. Journal of Physics: Conference Series, 2009, 190, 012092.	0.4	2
106	Photoemission kinks and phonons in cuprates. Nature, 2008, 455, E6-E7.	27.8	64
107	Quasiparticle evolution and pseudogap formation in V_2O_3 : An infrared spectroscopy study. Physical Review B, 2008, 77, .	3.2	73
108	Sum rules and bath parametrization for quantum cluster theories. Physical Review B, 2008, 78, .	3.2	83

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109	Electron-phonon interaction in strongly correlated electron systems: relevance of antiferromagnetic correlations.. Journal of Physics: Conference Series, 2008, 108, 012012.	0.4	2
110	Sum rules and vertex corrections for electron-phonon interactions. Physical Review B, 2007, 75, .	3.2	9
111	Polaron formation in cuprates. Physica C: Superconductivity and Its Applications, 2007, 460-462, 263-266.	1.2	1
112	Detecting pairing and polarization crossovers in systems with retarded interactions. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1157-1158.	1.2	0
113	Electron-Phonon Interaction and Antiferromagnetic Correlations. Physical Review Letters, 2006, 97, 046404.	7.8	55
114	Relevance of phonon dynamics in strongly correlated systems coupled to phonons: Dynamical mean-field theory analysis. Physical Review B, 2006, 73, .	3.2	37
115	Pairing and polarization in electron-boson systems with retarded interactions via dynamical mean-field theory. Physical Review B, 2006, 73, .	3.2	4
116	Static versus dynamical mean-field theory of Mott antiferromagnets. Physical Review B, 2006, 73, .	3.2	74
117	Polaron crossover and bipolaronic metal-insulator transition in the half-filled Holstein model. Physica B: Condensed Matter, 2005, 359-361, 813-815.	2.7	0
118	Phonon softening and dispersion in the 1D Holstein model of spinless fermions. European Physical Journal B, 2005, 44, 175-181.	1.5	28
119	Electron-phonon interaction in proximity of a Mott transition. Physica B: Condensed Matter, 2005, 359-361, 636-638.	2.7	1
120	Electron-Phonon Interaction Close to a Mott Transition. Physical Review Letters, 2005, 94, 026401.	7.8	102
121	Phase Separation Close to the Density-Driven Mott Transition in the Hubbard-Holstein Model. Physical Review Letters, 2004, 92, 106401.	7.8	75
122	The effects of the electron-phonon interaction on a Mott insulator. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E301-E302.	2.3	0
123	Doping-driven transition to a time-reversal breaking state in the phase diagram of the cuprates. Physical Review B, 2003, 67, .	3.2	8
124	TIME REVERSAL BREAKING SUPERCONDUCTING STATE IN THE PHASE DIAGRAM OF THE CUPRATES. International Journal of Modern Physics B, 2003, 17, 614-620.	2.0	2