

Giorgio Sangiovanni

List of Publications by Year in descending order

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126
docs citations

126
times ranked

4111
citing authors

#	ARTICLE	IF	CITATIONS
1	Twofold van Hove singularity and origin of charge order in topological kagome superconductor CsV3Sb5. Nature Physics, 2022, 18, 301-308.	16.7	176
2	A microscopic view on the Mott transition in chromium-doped V2O3. Nature Communications, 2010, 1, 105. Nature of Unconventional Pairing in the Kagome Superconductors	12.8	129
3	$A \langle \langle V \rangle \rangle^3$		

#	ARTICLE	IF	CITATIONS
19	Phase Separation Close to the Density-Driven Mott Transition in the Hubbard-Holstein Model. Physical Review Letters, 2004, 92, 106401.	7.8	75
20	Static versus dynamical mean-field theory of Mott antiferromagnets. Physical Review B, 2006, 73, .	3.2	74
21	Quasiparticle evolution and pseudogap formation in V_2O_3 : An infrared spectroscopy study. Physical Review B, 2008, 77, .	3.2	73
22	Mott-Hubbard transition in V_2O_3 revisited. Physica Status Solidi (B): Basic Research, 2013, 250, 1251-1264.	1.5	70
23	Inequivalent Routes across the Mott Transition in V_2O_3 Explored by X-Ray Absorption. Physical Review Letters, 2010, 104, 047401.	7.8	66
24	Quantum dynamical screening of the local magnetic moment in Fe-based superconductors. Physical Review B, 2012, 86, .	3.2	65
25	Fluctuation-driven topological Hund insulators. Physical Review B, 2013, 87, .	3.2	65
26	Photoemission kinks and phonons in cuprates. Nature, 2008, 455, E6-E7.	27.8	64
27	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
28	Breakdown of Traditional Many-Body Theories for Correlated Electrons. Physical Review Letters, 2017, 119, 056402.	7.8	61
29	Nonperturbative landscape of the Mott-Hubbard transition: Multiple divergence lines around the critical endpoint. Physical Review B, 2016, 94, .	3.2	59
30	Comparing quasiparticle GW+DMFT and LDA+DMFT for the test bed material SrVO_3 . Physical Review B, 2013, 88, .	3.2	56
31	Electron-Phonon Interaction and Antiferromagnetic Correlations. Physical Review Letters, 2006, 97, 046404.	7.8	55
32	Cluster-size dependence in cellular dynamical mean-field theory. Physical Review B, 2012, 85, .	3.2	55
33	Three-Dimensional Electronic Structure of the Type-II Weyl Semimetal WTe_2 . Physical Review Letters, 2017, 119, 026403.	7.8	55
34	Spin State of Negative Charge-Transfer Material SrCoO_3 . Physical Review Letters, 2012, 109, 117206.	7.8	54
35	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
36	Dynamical Vertex Approximation for Nanoscopic Systems. Physical Review Letters, 2010, 104, 246402.	7.8	50

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37	Importance of d - p Coulomb interaction for high T_C cuprates and other oxides. New Journal of Physics, 2014, 16, 033009.	2.9	44
38	Size Control of Charge-Orbital Order in Half-Doped Manganite $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ Physical Review Letters, 2011, 107, 197202.	7.8	43
39	Signature of antiferromagnetic long-range order in the optical spectrum of strongly correlated electron systems. Physical Review B, 2012, 85, .	3.2	43
40	Continuous-time quantum Monte Carlo using worm sampling. Physical Review B, 2015, 92, .	3.2	43
41	Parquet decomposition calculations of the electronic self-energy. Physical Review B, 2016, 93, .	3.2	43
42	Analytical continuation of imaginary axis data for optical conductivity. Physical Review B, 2010, 82, .	3.2	42
43	Worm-improved estimators in continuous-time quantum Monte Carlo. Physical Review B, 2016, 94, .	3.2	39
44	Strong correlation effects on topological quantum phase transitions in three dimensions. Physical Review B, 2016, 93, .	3.2	38
45	Relevance of phonon dynamics in strongly correlated systems coupled to phonons: Dynamical mean-field theory analysis. Physical Review B, 2006, 73, .	3.2	37
46	Analytical continuation of imaginary axis data using maximum entropy. Physical Review B, 2010, 81, .	3.2	36
47	Pressure and alloying effects on the metal to insulator transition in NiS_2 by infrared spectroscopy. Physical Review B, 2009, 80, .	3.2	35
48	Effective crystal field and Fermi surface topology: A comparison of d - and d - p -orbital models. Physical Review B, 2013, 88, .	3.2	34
49	Custodial glide symmetry of quantum spin Hall edge modes in monolayer WTe_2 . Physical Review B, 2019, 99, .	3.2	33
50	Orbital-Driven Rashba Effect in a Binary Honeycomb Monolayer AgTe . Physical Review Letters, 2020, 124, 176401.	7.8	33
51	Electronic properties of candidate type-II Weyl semimetal WTe_2 . A review perspective. Electronic Structure, 2019, 1, 014003.	2.8	32
52	Edge state reconstruction from strong correlations in quantum spin Hall insulators. Physical Review B, 2017, 95, .	3.2	31
53	Screened moments and absence of ferromagnetism in FeAl . Physical Review B, 2015, 92, .	3.2	29
54	Phonon softening and dispersion in the 1D Holstein model of spinless fermions. European Physical Journal B, 2005, 44, 175-181.	1.5	28

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55	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
56	Observation of tunable single-atom Yu-Shiba-Rusinov states. Physical Review B, 2020, 102, .	3.2	28
57	State identification and tunable Kondo effect of MnPc on Ag(001). Physical Review B, 2015, 91, .	3.2	26
58	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
59	Symmetric improved estimators for continuous-time quantum Monte Carlo. Physical Review B, 2019, 100, .	3.2	25
60	Correlation effects in transport properties of interacting nanostructures. Physical Review B, 2012, 86, .	3.2	24
61	Attractive Effect of a Strong Electronic Repulsion: The Physics of Vertex Divergences. Physical Review Letters, 2020, 125, 196403.	7.8	24
62	Realizing double Dirac particles in the presence of electronic interactions. Physical Review B, 2017, 96, Evolution of the electronic structure of a Mott system across its phase diagram: X-ray absorption spectroscopy study of ($\sqrt{3} \times \sqrt{3}$) V_2O_5 . Physical Review B, 2019, 100, 040402.	3.2	23
63		3.2	22
64	Chromium analogs of iron-based superconductors. Physical Review B, 2017, 95, .	3.2	22
65	Orbital Fingerprint of Topological Fermi Arcs in the Weyl Semimetal TaP. Physical Review Letters, 2019, 122, 116402.	7.8	22
66	Interplay between local response and vertex divergences in many-fermion systems with on-site attraction. Physical Review B, 2020, 101, .	3.2	22
67	Realistic theory of electronic correlations in nanoscopic systems. European Physical Journal: Special Topics, 2017, 226, 2615-2640.	2.6	21
68	Interplay of Dirac Nodes and Volkov-Pankratov Surface States in Compressively Strained HgTe. Physical Review X, 2019, 9, .	8.9	21
69	Characteristic Timescales of the Local Moment Dynamics in Hund's Metals. Physical Review Letters, 2020, 125, 086402.	7.8	21
70	Effects of electronic correlations and disorder on the thermopower of Na ₂ CoO ₂ . Physical Review B, 2011, 84, .	3.2	20
71	Momentum-space signatures of Berry flux monopoles in the Weyl semimetal TaAs. Nature Communications, 2021, 12, 3650.	12.8	20
72	High-Temperature Optical Spectral Weight and Fermi-liquid Renormalization in Bi-Based Cuprate Superconductors. Physical Review Letters, 2010, 105, 077002.	7.8	19

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73	Microscopic understanding of the orbital splitting and its tuning at oxide interfaces. Europhysics Letters, 2012, 99, 37011.	2.0	19
74	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
75	Design and realization of topological Dirac fermions on a triangular lattice. Nature Communications, 2021, 12, 5396.	12.8	19
76	DFT+DMFT study on soft moment magnetism and covalent bonding in SrRuO_6 . Physical Review B, 2017, 96, .	3.2	18
77	Towards topological quasifreestanding stanene via substrate engineering. Physical Review B, 2019, 99, .	3.2	17
78	Fourth-order exceptional points in correlated quantum many-body systems. Physical Review B, 2021, 104, .	3.2	17
79	Van Hove tuning of AV_3Sb_5 Kagome metals under pressure and strain. Physical Review B, 2022, 105, .	3.2	17
80	Tunable site- and orbital-selective Mott transition and quantum confinement effects in LaMnO_3 . Physical Review B, 2015, 92, .	3.2	16
81	Reversible magnetic switching of high-spin molecules on a giant Rashba surface. Npj Quantum Materials, 2018, 3, .	5.2	15
82	Coexistence of metallic edge states and antiferromagnetic ordering in correlated topological insulators. Physical Review B, 2018, 98, .	3.2	15
83	First-order topological quantum phase transition in a strongly correlated ladder. Physical Review B, 2019, 99, .	3.2	15
84	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
85	Atomic and itinerant effects at the transition-metal x-ray absorption pre-edge exemplified in the case of VK_2O_6 . Physical Review B, 2017, 95, .	3.2	13
86	Deconfinement of Mott localized electrons into topological and spin-orbit-coupled Dirac fermions. Npj Quantum Materials, 2020, 5, .	5.2	13
87	State and superstate sampling in hybridization-expansion continuous-time quantum Monte Carlo. Physical Review B, 2019, 99, .	3.2	12
88	Nonlocal annihilation of Weyl fermions in correlated systems. Physical Review Research, 2020, 2, .	3.6	12
89	Kagome metal-organic frameworks as a platform for strongly correlated electrons. JPhys Materials, 2020, 3, 025001.	4.2	11
90	Complementary views on electron spectra: From fluctuation diagnostics to real-space correlations. Physical Review B, 2018, 97, .	3.2	10

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91	Nonclassical Optical Properties of Mesoscopic Gold. Physical Review Letters, 2019, 122, 246802.	7.8	10
92	Osmates on the Verge of a Hund's-Mott Transition: The Different Fates of NaOsO_3 and LiOsO_3 . Physical Review Letters, 2020, 125, 166402.	7.8	10
93	Sum rules and vertex corrections for electron-phonon interactions. Physical Review B, 2007, 75, .	3.2	9
94	Interacting weak topological insulators and their transition to Dirac semimetal phases. Physical Review B, 2015, 92, .	3.2	9
95	Kondo screening in Co adatoms with full Coulomb interaction. Physical Review Research, 2020, 2, .	3.6	9
96	Doping-driven transition to a time-reversal breaking state in the phase diagram of the cuprates. Physical Review B, 2003, 67, .	3.2	8
97	Nickel-titanium double perovskite: A three-dimensional spin-1 Heisenberg antiferromagnet. Physical Review B, 2015, 91, .	3.2	8
98	Fourier transformation and response functions. Physical Review B, 2010, 82, .	3.2	7
99	Evidence of a 2D Electron Gas in a Single Unit Cell of Anatase TiO_2 (001). Advanced Science, 2022, 9, e2105114.	11.2	7
100	Enhancement of the effective disorder potential and thermopower in Na_xCoO_2 through electron-phonon coupling. Physical Review B, 2012, 86, .	3.2	6
101	Many-body effects on Cr(001) surfaces: An LDA+DMFT study. Physical Review B, 2016, 93, .	3.2	6
102	Opening of the superconducting gap in the hole pockets of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ as seen via angle-resolved photoelectron spectroscopy. Physical Review B, 2012, 85, .	3.2	5
103	Resistivity Exponents in 3D Dirac Semimetals From Electron-Electron Interaction. Physical Review Letters, 2021, 126, 206601.	7.8	5
104	Single-Co Kondo effect in atomic Cu wires on Cu(111). Physical Review Research, 2020, 2, .	3.6	5
105	Toward Functionalized Ultrathin Oxide Films: The Impact of Surface Apical Oxygen. Advanced Electronic Materials, 2022, 8, .	5.1	5
106	Pairing and polarization in electron-boson systems with retarded interactions via dynamical mean-field theory. Physical Review B, 2006, 73, .	3.2	4
107	Possible secondary component of the order parameter observed in London penetration depth measurements. Physical Review B, 2010, 82, .	3.2	4
108	Double exchange model for nanoscopic clusters. European Physical Journal B, 2013, 86, 1.	1.5	4

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109	Local versus nonlocal correlation effects in interacting quantum spin Hall insulators. Physical Review B, 2021, 104, .	3.2	4
110	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
111	Dataset Reply. Physical Review Letters, 2012, 108, .	7.8	3
112	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
113	Electron-phonon interaction in strongly correlated electron systems: relevance of antiferromagnetic correlations. Journal of Physics: Conference Series, 2008, 108, 012012.	0.4	2
114	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
115	Isotope effect in the pseudogap state of high-temperature copper oxide superconductors. Physical Review B, 2011, 84, .	3.2	2
116	Quantized electronic fine structure with large anisotropy in ferromagnetic Fe films. Physical Review B, 2014, 90, .	3.2	2
117	Electronic structure of epitaxial perovskite films in the two-dimensional limit: Role of the surface termination. Applied Physics Letters, 2020, 116, 201601.	3.3	2
118	Electron-phonon interaction in proximity of a Mott transition. Physica B: Condensed Matter, 2005, 359-361, 636-638.	2.7	1
119	Polaron formation in cuprates. Physica C: Superconductivity and Its Applications, 2007, 460-462, 263-266.	1.2	1
120	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
121	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
122	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
123	Detecting pairing and polarization crossovers in systems with retarded interactions. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1157-1158.	1.2	0
124	Dynamical Mean Field Theory for Oxide Heterostructures. Springer Series in Materials Science, 2018, , 215-243.	0.6	0