

Shiro Sakai

List of Publications by Year in descending order

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39
papers

1,149
citations

331259

21
h-index

377514

34
g-index

39
all docs

39
docs citations

39
times ranked

1020
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of Electronic Structure of Doped Mott Insulators: Reconstruction of Poles and Zeros of Green's Function. Physical Review Letters, 2009, 102, 056404.	2.9	164
2	Doped high- T_c superconductors elucidated in the light of zeros and poles of the electronic Green's function. Physical Review B, 2010, 82, .	1.1	92
3	Unified understanding of superconductivity and Mott transition in alkali-doped fullerenes from first principles. Science Advances, 2015, 1, e1500568.	4.7	90
4	Giant thermoelectric power factor in ultrathin FeSe superconductor. Nature Communications, 2019, 10, 825.	5.8	61
5	Effective on-site interaction for dynamical mean-field theory. Physical Review B, 2012, 86, .	1.1	60
6	Numerical algorithm for the double-orbital Hubbard model: d -wave pairing symmetry in the doped case. Physical Review B, 2004, 70, .	1.1	56
7	Cluster-size dependence in cellular dynamical mean-field theory. Physical Review B, 2012, 85, .	1.1	55
8	Hidden Fermionic Excitation Boosting High-Temperature Superconductivity in Cuprates. Physical Review Letters, 2016, 116, 057003.	2.9	55
9	Superconductivity on a quasiperiodic lattice: Extended-to-localized crossover of Cooper pairs. Physical Review B, 2017, 95, .	1.1	47
10	Exotic s -wave superconductivity in alkali-doped fullerenes. Journal of Physics Condensed Matter, 2016, 28, 153001.	0.7	46
11	Quantum Monte Carlo study for multiorbital systems with preserved spin and orbital rotational symmetries. Physical Review B, 2006, 74, .	1.1	38
12	Exotic pairing state in quasicrystalline superconductors under a magnetic field. Physical Review Research, 2019, 1, .	1.3	35
13	ab -initio downfolding study of the iron-based ladder superconductor BaFe_2S_3 . Physical Review B, 2015, 92, .	1.1	28
14	Correlation-Driven Lifshitz Transition at the Emergence of the Pseudogap Phase in the Two-Dimensional Hubbard Model. Physical Review Letters, 2018, 120, 067002.	2.9	28
15	Itinerant Ferromagnetism in the Multiorbital Hubbard Model: A Dynamical Mean-Field Study. Physical Review Letters, 2007, 99, 216402.	2.9	26
16	Multiorbital cluster dynamical mean-field theory with an improved continuous-time quantum Monte Carlo algorithm. Physical Review B, 2014, 89, .	1.1	25
17	Hidden-fermion representation of self-energy in pseudogap and superconducting states of the two-dimensional Hubbard model. Physical Review B, 2016, 94, .	1.1	25
18	Observation of small Fermi pockets protected by clean CuO_2 sheets of a high- T_c superconductor. Science, 2020, 369, 833-838.	6.0	25

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19	Physical properties of weak-coupling quasiperiodic superconductors. Physical Review B, 2020, 102, .	1.1	25
20	Nonlocal correlations induced by Hund's coupling: A cluster DMFT study. Physical Review B, 2015, 91, .	1.1	24
21	Nonempirical Calculation of Superconducting Transition Temperatures in Light-Element Superconductors. Advanced Materials, 2017, 29, 1602421.	11.1	22
22	Unconventional High-Energy-State Contribution to the Cooper Pairing in the Underdoped Copper-Oxide Superconductor HgBa_2O_8 . Physical Review Letters, 2016, 116, 197001.	2.9	17
23	Observation of Bogoliubov Band Hybridization in the Optimally Doped Trilayer $\text{Sr}_2\text{Bi}_2\text{O}_7$. Physical Review Letters, 2017, 118, 017001.	1.4	14
24	Direct connection between Mott insulators and d -wave high-temperature superconductors revealed by continuous evolution of self-energy poles. Physical Review B, 2018, 98, .	1.1	14
25	Hidden fermionic excitation in the superconductivity of the strongly attractive Hubbard model. Physical Review B, 2015, 92, .	1.1	13
26	Theory of Pseudogap in Underdoped Cuprates. Journal of Physics: Conference Series, 2013, 449, 012005.	0.3	11
27	Effect of Electron-Electron Interactions on Metallic State in Quasicrystals. Materials Transactions, 2021, 62, 380-385.	0.4	11
28	Roles of zeros of the Green function in Fermi arc and non-Fermi liquid in the two-dimensional Hubbard model. Physica B: Condensed Matter, 2009, 404, 3183-3186.	1.3	9
29	Hyperuniform electron distributions controlled by electron interactions in quasicrystals. Physical Review B, 2022, 105, .	1.1	6
30	Calculation of plasmon excitations in the quasi-one-dimensional organic compound (TMTSF) PF_6 .	1.1	5
31	Fermi Surface Expansion above Critical Temperature in a Hund Ferromagnet. Physical Review Letters, 2022, 128, .	2.9	5
32	Application of the perturbation series expansion quantum Monte Carlo method to multi-orbital systems having Hund's coupling. Physica B: Condensed Matter, 2006, 378-380, 288-289.	1.3	3
33	Doped Mott insulator on a Penrose tiling. Physical Review B, 2022, 105, .	1.1	3
34	Superconductivity in multi-orbital systems: A dynamical mean Monte Carlo study. Physica B: Condensed Matter, 2005, 359-361, 554-556.	1.3	2
35	Doping Evolution of the Electron-Hole Asymmetric s -Wave Pseudogap in Underdoped High- T_c Cuprate Superconductors. , 2014, , .		2
36	Real-space renormalized dynamical mean field theory. Physical Review B, 2016, 93, .	1.1	2

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37	Fully filling-controlled pyrochlore ruthenates: Emergent ferromagnetic-metal state and geometrical Hall effect. <i>Physical Review B</i> , 2021, 103, .	1.1	2
38	Magnetic structures and electronic properties of cubic-pyrochlore ruthenates from first principles. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 194003.	0.7	2
39	Frequency-dependent structure of superconducting gap function in two-dimensional Hubbard model. <i>Journal of Physics: Conference Series</i> , 2018, 1054, 012012.	0.3	1