

A-M S Tremblay

List of Publications by Year in descending order

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70
papers

3,253
citations

159585

30
h-index

149698

56
g-index

70
all docs

70
docs citations

70
times ranked

1890
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudogap induced by short-range spin correlations in a doped Mott insulator. <i>Physical Review B</i> , 2006, 73, .	3.2	222
2	Hot Spots and Pseudogaps for Hole- and Electron-Doped High-Temperature Superconductors. <i>Physical Review Letters</i> , 2004, 92, 126401.	7.8	195
3	Competition between Antiferromagnetism and Superconductivity in High-Tc Cuprates. <i>Physical Review Letters</i> , 2005, 94, 156404.	7.8	194
4	Mott Transition, Antiferromagnetism, and d-Wave Superconductivity in Two-Dimensional Organic Conductors. <i>Physical Review Letters</i> , 2006, 97, 046402.	7.8	192
5	Bad metallic transport in a cold atom Fermi-Hubbard system. <i>Science</i> , 2019, 363, 379-382.	12.6	167
6	Anomalous superconductivity and its competition with antiferromagnetism in doped Mott insulators. <i>Physical Review B</i> , 2008, 77, .	3.2	153
7	Pseudogap and high-temperature superconductivity from weak to strong coupling. Towards a quantitative theory (Review Article). <i>Low Temperature Physics</i> , 2006, 32, 424-451.	0.6	144
8	Strong Coupling Superconductivity, Pseudogap, and Mott Transition. <i>Physical Review Letters</i> , 2012, 108, 216401.	7.8	127
9	Pseudogap and Spin Fluctuations in the Normal State of the Electron-Doped Cuprates. <i>Physical Review Letters</i> , 2004, 93, 147004.	7.8	105
10	Finite Doping Signatures of the Mott Transition in the Two-Dimensional Hubbard Model. <i>Physical Review Letters</i> , 2010, 104, 226402.	7.8	86
11	Destruction of Fermi-liquid quasiparticles in two dimensions by critical fluctuations. <i>Europhysics Letters</i> , 1996, 33, 159-164.	2.0	79
12	Mott physics and first-order transition between two metals in the normal-state phase diagram of the two-dimensional Hubbard model. <i>Physical Review B</i> , 2011, 84, .	3.2	72
13	First-order Mott transition at zero temperature in two dimensions: Variational plaquette study. <i>Europhysics Letters</i> , 2009, 85, 17002.	2.0	70
14	Pseudogap temperature as a Widom line in doped Mott insulators. <i>Scientific Reports</i> , 2012, 2, 547.	3.3	68
15	Antiferromagnetic fluctuations and d-wave superconductivity in electron-doped high-temperature superconductors. <i>Physical Review B</i> , 2003, 68, .	3.2	66
16	Many-body theory versus simulations for the pseudogap in the Hubbard model. <i>Physical Review B</i> , 2000, 61, 7887-7892.	3.2	64
17	Algorithms for optimized maximum entropy and diagnostic tools for analytic continuation. <i>Physical Review E</i> , 2016, 94, 023303.	2.1	62
18	Pairing dynamics in strongly correlated superconductivity. <i>Physical Review B</i> , 2009, 80, .	3.2	57

#	ARTICLE	IF	CITATIONS
19	Optical and dc conductivity of the two-dimensional Hubbard model in the pseudogap regime and across the antiferromagnetic quantum critical point including vertex corrections. Physical Review B, 2011, 84, .	3.2	57
20	An organizing principle for two-dimensional strongly correlated superconductivity. Scientific Reports, 2016, 6, 22715.	3.3	57
21	Pairing fluctuations and pseudogaps in the attractive Hubbard model. Physical Review B, 2001, 64, .	3.2	54
22	Dynamical electronic nematicity from Mott physics. Physical Review B, 2010, 82, .	3.2	51
23	Superconducting Symmetries of $d_{x^2-y^2}$ from First-Principles Electronic Structure. Physical Review Letters, 2019, 123, 217005.	3.2	47
24	Signatures of the Mott transition in the antiferromagnetic state of the two-dimensional Hubbard model. Physical Review B, 2017, 95, .	3.2	46
25	c -axis resistivity, pseudogap, superconductivity, and Widom line in doped Mott insulators. Physical Review B, 2013, 87, .	3.2	44
26	Phase diagram and Fermi liquid properties of the extended Hubbard model on the honeycomb lattice. Physical Review B, 2014, 89, .	3.2	41
27	Resilience of d -wave superconductivity to nearest-neighbor repulsion. Physical Review B, 2013, 87, .	3.2	39
28	Importance of subleading corrections for the Mott critical point. Physical Review B, 2012, 85, .	3.2	36
29	Lazy skip-lists: An algorithm for fast hybridization-expansion quantum Monte Carlo. Physical Review B, 2014, 90, .	3.2	36
30	Coexistence of superconductivity and antiferromagnetism in the Hubbard model for cuprates. Physical Review B, 2019, 99, .	3.2	31
31	Entropy, frustration, and large thermopower of doped Mott insulators on the fcc lattice. Physical Review B, 2013, 87, .	3.2	27
32	Correlation-Enhanced Odd-Parity Interorbital Singlet Pairing in the Iron-Pnictide Superconductor LiFeAs. Physical Review Letters, 2016, 117, 137001.	7.8	26
33	Phenomenological theories of the low-temperature pseudogap: Hall number, specific heat, and Seebeck coefficient. Physical Review B, 2017, 96, .	3.2	26
34	Local Entanglement Entropy and Mutual Information across the Mott Transition in the Two-Dimensional Hubbard Model. Physical Review Letters, 2019, 122, 067203.	7.8	26
35	Conditions for magnetically induced singlet d -wave superconductivity on the square lattice. Physical Review B, 2008, 77, .	3.2	25
36	Breakdown of Fermi liquid behavior at the $i\tilde{e}$ wave quantum-critical point: The case of electron-doped cuprates. Physical Review B, 2012, 86, .	3.2	23

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55	Orbital magnetization and anomalous Hall effect in interacting Weyl semimetals. <i>Physical Review B</i> , 2019, 99, .	3.2	13
56	Hall and Faraday effects in interacting multiband systems with arbitrary band topology and spin-orbit coupling. <i>Physical Review B</i> , 2018, 98, .	3.2	12
57	Subgap structures and pseudogap in cuprate superconductors: Role of density waves. <i>Physical Review B</i> , 2017, 95, .	3.2	11
58	Orbital effect of the magnetic field in dynamical mean-field theory. <i>Physical Review B</i> , 2017, 96, .	3.2	11
59	Non-Fermi liquid phase and linear-in-temperature scattering rate in overdoped two-dimensional Hubbard model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2115819119.	7.1	11
60	Specific heat maximum as a signature of Mott physics in the two-dimensional Hubbard model. <i>Physical Review B</i> , 2019, 100, .	3.2	10
61	Entanglement and Classical Correlations at the Doping-Driven Mott Transition in the Two-Dimensional Hubbard Model. <i>PRX Quantum</i> , 2020, 1, .	9.2	9
62	Mott transition and magnetism on the anisotropic triangular lattice. <i>Physical Review B</i> , 2016, 94, .	3.2	8
63	Intrinsic cluster-shaped density waves in cellular dynamical mean-field theory. <i>Physical Review B</i> , 2019, 100, .	3.2	8
64	Information-theoretic measures of superconductivity in a two-dimensional doped Mott insulator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	7
65	Maximum entropy analytic continuation for frequency-dependent transport coefficients with nonpositive spectral weight. <i>Physical Review B</i> , 2017, 95, .	3.2	5
66	Oxygen hole content, charge-transfer gap, covalency, and cuprate superconductivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	3
67	Disorder effects on hot spots in electron-doped cuprates. <i>Physical Review B</i> , 2022, 105, .	3.2	3
68	Interaction and temperature effects on the magneto-optical conductivity of Weyl liquids. <i>Physical Review B</i> , 2020, 102, .	3.2	2
69	Resilient Fermi Liquid and Strength of Correlations near an Antiferromagnetic Quantum Critical Point. <i>Physical Review Letters</i> , 2022, 128, 087001.	7.8	2
70	Fermi arcs versus hole pockets: Periodization of a cellular two-band model. <i>Physical Review B</i> , 2022, 105, .	3.2	1