

# Raymond FrÃ©sard

## List of Publications by Year in descending order

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105  
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212478

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107  
docs citations

107  
times ranked

1936  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bad metal and negative compressibility transitions in a two-band Hubbard model. <i>Physical Review B</i> , 2022, 105, .	1.1	3
2	Structural study and evaluation of thermoelectric properties of single-phase isocubanite (CuFe <sub>2</sub> S <sub>3</sub> ) synthesized via an ultra-fast efficient microwave radiation technique. <i>Sustainable Energy and Fuels</i> , 2021, 5, 5804-5813.	2.5	6
3	Combining Complex and Radial Slave Boson Fields within the Kotliar-Ruckenstein Representation of Correlated Impurities. <i>Annalen Der Physik</i> , 2020, 532, 1900491.	0.9	5
4	Charge instabilities of the extended attractive Hubbard model on the cubic lattice. <i>Modern Physics Letters B</i> , 2020, 34, 2040050.	1.0	0
5	A 3D Tight-Binding Model for La-Based Cuprate Superconductors. <i>Annalen Der Physik</i> , 2019, 531, 1900177.	0.9	6
6	Effects of Ga doping on magnetic and ferroelectric properties of multiferroic delafossite $\text{CuCrO}_2$ : <i>Ab initio</i> and Monte Carlo approaches. <i>Physical Review B</i> , 2018, 98, .		
7	Electronic Reconstruction in (LaVO <sub>3</sub> ) <sub>m</sub> /SrVO <sub>3</sub> ( <i>m</i> = 5, 6) Superlattices. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701169.	1.9	7
8	Particle-Hole Symmetry of Charge Excitation Spectra in the Paramagnetic Phase of the Hubbard Model. <i>Acta Physica Polonica A</i> , 2018, 133, 336-342.	0.2	2
9	Phaseless quantum Monte-Carlo approach to strongly correlated superconductors with stochastic Hartree-Fock-Bogoliubov wavefunctions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 175001.	0.7	2
10	Structural and thermoelectric properties of n-type isocubanite CuFe <sub>2</sub> S <sub>3</sub> . <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 424-432.	3.0	40
11	Capacitance and compressibility of heterostructures with strong electronic correlations. <i>Physical Review B</i> , 2017, 95, .	1.1	15
12	Collective modes in the paramagnetic phase of the Hubbard model. <i>Physical Review B</i> , 2017, 95, .	1.1	18
13	Magnetolectric properties of multiferroic $\text{CuCrO}_2$ studied by means of <i>ab initio</i> calculations and Monte Carlo simulations. <i>Physical Review B</i> , 2017, 96, .	1.1	19
14	Unconventional aspects of electronic transport in delafossite oxides. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 919-938.	2.8	49
15	Effect of the next-nearest-neighbor hopping on the charge collective modes in the paramagnetic phase of the Hubbard model. <i>Europhysics Letters</i> , 2017, 120, 17004.	0.7	0
16	Charge instabilities of the two-dimensional Hubbard model with attractive nearest neighbour interaction. <i>Journal of Physics: Conference Series</i> , 2016, 702, 012003.	0.3	4
17	Publisher's Note: Fermi-liquid Landau parameters for a nondegenerate band: Spin and charge instabilities in the extended Hubbard model [ <i>Phys. Rev. B</i> 91, 224410 (2015)]. <i>Physical Review B</i> , 2015, 92, .	1.1	0
18	Impact of short-range order on transport properties of the two-dimensional metal $\text{PdCrO}_2$ . <i>Physical Review B</i> , 2015, 92, .		

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19	Intertwined orders from symmetry projected wavefunctions of repulsively interacting Fermi gases in optical lattices. <i>New Journal of Physics</i> , 2015, 17, 103023.	1.2	7
20	Fermi-liquid Landau parameters for a nondegenerate band: Spin and charge instabilities in the extended Hubbard model. <i>Physical Review B</i> , 2015, 91, .	1.1	13
21	Large anisotropic thermal conductivity of the intrinsically two-dimensional metallic oxide $\text{PdCoO}_2$ . <i>Physical Review B</i> , 2015, 91, .	1.1	28
22	Exact ground state of strongly correlated electron systems from symmetry-entangled wavefunctions. <i>Annalen Der Physik</i> , 2014, 526, 430-436.	0.9	2
23	$T^{\%}/T$ scaling of the optical conductivity in strongly correlated layered cobalt oxide. <i>Physical Review B</i> , 2013, 87, .	1.1	3
24	Lattice relaxation and ferromagnetic character of $(\text{LaVO}_3)_m/\text{SrVO}_3$ superlattices. <i>Europhysics Letters</i> , 2013, 103, 37003.	0.7	3
25	Exotic spin, charge and pairing correlations of the two-dimensional doped Hubbard model: A symmetry-entangled mean-field approach. <i>Physical Review B</i> , 2013, 87, .	1.1	9
26	A route to transparent bulk metals. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 327-330.	1.2	0
27	Exact results with the Kotliar-Ruckenstein slave-boson representation. <i>Annalen Der Physik</i> , 2012, 524, 175-181.	0.9	12
28	Magnetic transitions in strong coupling expansions for nearly degenerate states. <i>Annalen Der Physik</i> , 2012, 524, 411-420.	0.9	3
29	Thermoelectric transport properties of an apparent Fermi liquid: Relation to an analytic anomaly in the density of states and application to hole-doped delafossites. <i>Annalen Der Physik</i> , 2012, 524, 21-36.	0.9	8
30	The Pseudoparticle Approach to Strongly Correlated Electron Systems. <i>Springer Series in Solid-state Sciences</i> , 2012, , 65-101.	0.3	4
31	Mg substitution in $\text{CuCrO}_2$ delafossite compounds. <i>Solid State Communications</i> , 2011, 151, 1798-1801.	0.9	31
32	Narrow in-gap states in doped. <i>Chemical Physics Letters</i> , 2011, 515, 29-31.	1.2	4
33	Optical conductivity in the vicinity of a quantum critical point. <i>Physical Review B</i> , 2010, 82, .	1.1	5
34	On the interrelation between bulk and thin-film Fermi surfaces. <i>Europhysics Letters</i> , 2010, 92, 67007.	0.7	0
35	Electronic structure and thermoelectric properties of $\text{CuRh}$ . <i>Physical Review B</i> , 2009, 80, .	1.1	50
36	Influence of the vacuum interface on the charge distribution in $\text{V}_2\text{O}_3$ thin films. <i>New Journal of Physics</i> , 2009, 11, 093034.	1.2	1

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37	Electronic structure of a striped nickelate studied by the exact exchange for correlated electrons (EECE) approach. Europhysics Letters, 2009, 88, 67008.	0.7	8
38	On the strong impact of doping in the triangular antiferromagnet CuCrO <sub>2</sub> . Solid State Communications, 2009, 149, 962-967.	0.9	73
39	Substrate effects on V <sub>2</sub> O <sub>3</sub> thin films. Surface Science, 2009, 603, L19-L21.	0.8	5
40	Corundum-based transparent infrared absorbers. Chemical Physics Letters, 2009, 481, 62-67.	1.2	6
41	Room-temperature magnetism in $\text{LaVO}_3$ by geometrically confined doping. Physical Review B, 2009, 80, .	3.4	6
42	Stripe segregation and magnetic coupling in the nickelate La <sub>5/3</sub> Sr <sub>1/3</sub> NiO <sub>4</sub> . Annalen Der Physik, 2009, 18, 107-113.	0.9	15
43	Long-range magnetic order and spin-lattice coupling in delafossite CuFeO <sub>2</sub> . Physical Review B, 2008, 78, .	1.1	31
44	Magnetic ordering in trigonal chain compounds. Progress in Solid State Chemistry, 2008, 36, 156-161.	3.9	3
45	Magnetic ordering in the striped nickelate La <sub>5/3</sub> Sr <sub>1/3</sub> NiO <sub>4</sub> : A band structure point of view. Europhysics Letters, 2008, 81, 27002.	0.7	23
46	On the Metallic Conductivity of the Delafossites PdCo <sub>2</sub> and PtCo <sub>2</sub> . Chemistry of Materials, 2008, 20, 2370-2373.	3.2	74
47	Barnes slave-boson approach to the two-site single-impurity Anderson model with non-local interaction. Europhysics Letters, 2008, 82, 31001.	0.7	6
48	Dual electronic states in thermoelectric cobalt oxide [Bi <sub>1.7</sub> Ca <sub>2</sub> O <sub>4</sub> ] <sub>0.59</sub> CoO <sub>2</sub> . Physical Review B, 2008, 77, .	1.1	10
49	Exact results in a slave boson saddle point approach for a strongly correlated electron model. Physical Review B, 2008, 78, .	1.1	6
50	Characterization and electronic structure calculations of the antiferromagnetic insulator Ca <sub>3</sub> FeRhO <sub>6</sub> . Physical Review B, 2007, 75, .	1.1	6
51	Spin rotationally symmetric domain flux phases in underdoped cuprate superconductors. Physical Review B, 2007, 75, .	1.1	15
52	Unidirectional d-wave superconducting domains in the two-dimensional $\text{t}\hat{\text{a}}^{\text{J}}$ model. Physical Review B, 2007, 76, .	1.1	103
53	Anisotropic susceptibility of the geometrically frustrated spin-chain compound Ca <sub>3</sub> Co <sub>2</sub> O <sub>6</sub> . Journal of Physics Condensed Matter, 2007, 19, 145229.	0.7	17
54	Slave bosons in radial gauge: A bridge between path integral and Hamiltonian language. Nuclear Physics B, 2007, 785, 286-306.	0.9	23

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55	Structural and Magnetic Transitions in $\text{CaMn}_{1-x}\text{W}_x\text{O}_3$ . Chemistry of Materials, 2007, 19, 4243-4251.	3.2	31
56	Thickness dependence of the electronic properties in $\text{V}_2\text{O}_3$ thin films. Applied Physics Letters, 2007, 91, .	1.5	45
57	Mechanism of the reorientation of stripes in the cuprates. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1049-1050.	0.6	0
58	Effect of the next-nearest neighbor hopping on the stability and band structure of the incommensurate phases in the cuprates. Physica Status Solidi (B): Basic Research, 2007, 244, 2521-2526.	0.7	9
59	Unconventional Hall effect in oriented $\text{Ca}_3\text{Co}_4\text{O}_9$ thin films. Physical Review B, 2006, 73, .	1.1	32
60	Stripe phases as possible ground state of the high- $T_c$ superconductors. Low Temperature Physics, 2006, 32, 305-319.	0.2	8
61	Half-filled stripes in the $t-t'\hat{c}^2-U$ Hubbard model. Physica Status Solidi (B): Basic Research, 2006, 243, 128-132.	0.7	3
62	Magnetic and orbital correlations in a two-site molecule. Journal of Physics Condensed Matter, 2006, 18, 7449-7469.	0.7	3
63	Interplay between incommensurate phases in the cuprates. Europhysics Letters, 2006, 76, 128-134.	0.7	38
64	Slave-boson approach to the metallic stripe phases with large unit cells. Physical Review B, 2006, 73, .	1.1	40
65	Scaling Behavior in Thermoelectric Misfit Cobalt Oxides. Physical Review Letters, 2006, 97, 046601.	2.9	100
66	Microscopic origin of diagonal stripe phases in doped nickelates. Physical Review B, 2006, 73, .	1.1	31
67	Mean-field phase diagram of interacting electrons. Physica B: Condensed Matter, 2005, 359-361, 672-674.	1.3	1
68	Melting of the stripe phases in the $\hat{c}^2-U$ Hubbard model. Physica B: Condensed Matter, 2005, 359-361, 780-782.	1.3	2
69	Interplay of orbitally polarized and magnetically ordered phases in doped transition metal oxides. Physica Status Solidi (B): Basic Research, 2005, 242, 370-376.	0.7	11
70	Nonlinear effects and Joule heating in I-V curves in manganites. Journal of Applied Physics, 2005, 98, 023911.	1.1	51
71	Strongly correlated properties of the thermoelectric cobalt oxide $\text{Ca}_3\text{Co}_4\text{O}_9$ . Physical Review B, 2005, 71, .	1.1	150
72	Microscopic derivation of magnetic coupling in $\text{Ca}_3\text{Co}_2\text{O}_6$ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 974-975.	1.0	6

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73	Extended moment formation and magnetic ordering in the trigonal chain compound Ca <sub>3</sub> Co <sub>2</sub> O <sub>6</sub> . Chemical Physics Letters, 2004, 385, 249-254.	1.2	42
74	Origin of magnetic interactions in Ca <sub>3</sub> Co <sub>2</sub> O <sub>6</sub> . Physical Review B, 2004, 69, .	1.1	78
75	Modeling of the thermopower of electron-doped manganites. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 303, 223-228.	0.9	17
76	Instability of magnetism and conductivity in CMR manganites: role of Mn-site doping and thermal cycling. Journal of Physics and Chemistry of Solids, 2002, 63, 901-905.	1.9	10
77	Ferromagnetism in a Realistic Two-Band Model: A Slave Boson Study. Journal of Low Temperature Physics, 2002, 126, 1091-1105.	0.6	29
78	Slave bosons in radial gauge: the correct functional integral representation and inclusion of non-local interactions. Nuclear Physics B, 2001, 594, 769-789.	0.9	19
79	Induced ferromagnetism and colossal magnetoresistance by Ir-doping in Pr <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> . European Physical Journal B, 2001, 24, 85-89.	0.6	14
80	Rhodium doped manganites: Ferromagnetism and metallicity. Journal of Applied Physics, 2001, 90, 1297-1302.	1.1	11
81	Superconducting and magnetic fluctuations of the two-dimensional Hubbard model. Physica B: Condensed Matter, 2000, 281-282, 890-891.	1.3	1
82	One-electron spectral functions of the attractive Hubbard model at intermediate coupling. Physica B: Condensed Matter, 2000, 284-288, 447-448.	1.3	10
83	Electron-phonon coupling in photoemission spectra. Physical Review B, 1999, 60, 10796-10802.	1.1	78
84	One-electron Green function for the Hubbard model including next nearest neighbor hopping. Physica B: Condensed Matter, 1999, 259-261, 775-776.	1.3	3
85	Magnetic and charge correlations of the two-dimensional Hubbard model. Physical Review B, 1998, 58, 15288-15291.	1.1	16
86	One-electron spectral functions of the attractive Hubbard model for intermediate coupling. Physical Review B, 1998, 57, 5995-6002.	1.1	39
87	Spin and charge structure factor of the two-dimensional Hubbard model. Physical Review B, 1997, 56, 10097-10104.	1.1	33
88	Interplay of Mott transition and ferromagnetism in the orbitally degenerate Hubbard model. Physical Review B, 1997, 56, 12909-12915.	1.1	128
89	Temperature dependence of transport coefficients in liquid and amorphous metals. Zeitschrift für Physik B-Condensed Matter, 1997, 104, 379-386.	1.1	2
90	On handling the measure in the slave-boson functional integral. Journal of Physics Condensed Matter, 1996, 8, L13-L20.	0.7	2

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91	Metal to Insulator Transition in the 2-D Hubbard Model: A Slave-Boson Approach. NATO ASI Series Series B: Physics, 1995, , 385-392.	0.2	3
92	Gutzwiller wave-function approach to spiral magnetic order in the two-dimensional Hubbard model: A variational Monte Carlo study. European Physical Journal B, 1993, 91, 245-250.	0.6	10
93	Instability of the paramagnetic state towards incommensurate magnetic order in the 2-d Hubbard model. European Physical Journal B, 1993, 90, 297-300.	0.6	8
94	A slave-boson approach to ferromagnetism in the large-U Hubbard model. Journal of Physics Condensed Matter, 1993, 5, 4847-4854.	0.7	26
95	Self-consistent T-matrix approximation to the negative-U Hubbard model: numerical results. Journal of Physics Condensed Matter, 1992, 4, 8565-8572.	0.7	22
96	Spiral magnetic states in the large-U Hubbard model: a slave boson approach. Journal of Physics Condensed Matter, 1992, 4, 3625-3638.	0.7	59
97	Unified Slave Boson Representation of Spin and Charge Degrees of Freedom for Strongly Correlated Fermi Systems. International Journal of Modern Physics B, 1992, 06, 685-704.	1.0	95
98	Slave-Boson Approach to Spiral Magnetic Order in the Hubbard Model. Europhysics Letters, 1991, 15, 325-330.	0.7	77
99	Multiple scattering theory of electron transport in disordered metals in the muffin-tin potential model. III. Numerical results. Journal of Physics Condensed Matter, 1990, 2, 8827-8840.	0.7	7
100	Multiple-scattering theory of electron transport in disordered metals in the muffin-tin potential model. II. Decomposition of the vector waves. Journal of Physics Condensed Matter, 1990, 2, 2687-2698.	0.7	5
101	Muffin-tin EMA calculations of electrical resistivity for liquid and amorphous metals. Journal of Non-Crystalline Solids, 1990, 117-118, 405-408.	1.5	3
102	Multiple-scattering theory of electron transport in disordered metals in the muffin-tin potential model. I. Effective-medium approximation formulation and the separation of off-shell corrections. Journal of Physics Condensed Matter, 1989, 1, 6381-6393.	0.7	5
103	Scattering from two non-overlapping centers. Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 120, 367-370.	0.9	4
104	Electrons in non-crystalline metals ?Still a challenging problem. European Physical Journal B, 1987, 68, 237-240.	0.6	5
105	Multiple scattering effects in liquid and amorphous metals: Cluster calculations. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1986, 141, 243-256.	0.9	5