

The pseudogap: friend or foe of highT_c?

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The effect of collective spin-1 excitations on electronic spectra in high-Tc superconductors. <i>Advances in Physics</i> , 2006, 55, 47-183.	35.9	301
2	Magnetic Order in the Pseudogap Phase of High-Tc Superconductors. <i>Physical Review Letters</i> , 2006, 96, 197001.	2.9	435
3	Evolution of the pseudogap from Fermi arcs to the nodal liquid. <i>Nature Physics</i> , 2006, 2, 447-451.	6.5	393
4	Potential-energy-driven (BCS) to kinetic-energy-driven (BEC) pairing in the two-dimensional attractive Hubbard model: Cellular dynamical mean-field theory. <i>Physical Review B</i> , 2006, 74, .	1.1	26
5	Quantum Monte Carlo study of strongly correlated electrons: Cellular dynamical mean-field theory. <i>Physical Review B</i> , 2006, 73, .	1.1	39
6	Phenomenological Model of Protected Behavior in the Pseudogap State of Underdoped Cuprate Superconductors. <i>Physical Review Letters</i> , 2006, 96, 247002.	2.9	13
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.	0.2	144
8	Analysis of the pseudogap-related structure in tunneling spectra of superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. <i>Physical Review B</i> , 2007, 76, .		
9	Antiferromagnetic spin fluctuations in the metallic phase of quasi-two-dimensional organic superconductors. <i>Physical Review B</i> , 2007, 75, .	1.1	17
10	Ferromagnetic transition of SrRuO_3 in nanometer thick bilayers with $\text{YBa}_2\text{Cu}_3\text{O}_y$, $\text{La}_{1.88}\text{Sr}_{0.12}\text{CuO}_4$, Au , and Cr : Signature of injected carriers in the pseudogap regime. <i>Physical Review B</i> , 2007, 76, .	1.1	0
11	Bidirectional superconductivity and strong pseudogap state. <i>Physical Review B</i> , 2007, 76, .	1.1	11
12	X-ray dichroism and the pseudogap phase of cuprates. <i>Physical Review B</i> , 2007, 76, .	1.1	12
13	Phenomenological Description of the Two Energy Scales in Underdoped Cuprate Superconductors. <i>Physical Review Letters</i> , 2007, 98, 227002.	2.9	60
14	Fermi arcs in cuprate superconductors: Tracking the pseudogap below T_c and above T^* . <i>Physical Review B</i> , 2007, 76, .	1.1	24
15	Sensitivity of the interlayer magnetoresistance of layered metals to intralayer anisotropies. <i>Physical Review B</i> , 2007, 76, .	1.1	32
16	Average kinetic energy density of Cooper pairs above T_c in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$, $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$, and Nb . <i>Physical Review B</i> , 2007, 76, .	1.1	20
17	Gutzwiller's RVB theory of high-temperature superconductivity: Results from renormalized mean-field theory and variational Monte Carlo calculations. <i>Advances in Physics</i> , 2007, 56, 927-1033.	35.9	153
18	Modeling the Fermi arc in underdoped cuprates. <i>Physical Review B</i> , 2007, 76, .	1.1	130

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19	Magnetron sputter deposition of a 48-member cuprate superconductor library: $\text{Bi}_2\text{Sr}_2\text{Y}_x\text{Ca}_{1-x}\text{Cu}_2\text{O}_8$ () linearly varying in steps of. Applied Surface Science, 2007, 254, 760-764.	3.1	4
20	Inelastic neutron scattering study of spin excitations in the superconducting state of high temperature superconductors. Comptes Rendus Physique, 2007, 8, 745-762.	0.3	25
21	Search for the existence of circulating currents in high- superconductors using the polarized neutron scattering technique. Physica B: Condensed Matter, 2007, 397, 1-6.	1.3	13
22	Quantum oscillations and the Fermi surface in an underdoped high-Tc superconductor. Nature, 2007, 447, 565-568.	13.7	836
23	Visualizing pair formation on the atomic scale in the high-Tc superconductor $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. Nature, 2007, 447, 569-572.	13.7	414
24	Effect of charge density waves on the tunnel spectra of the $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ superconductor. Physics of the Solid State, 2007, 49, 1422-1428.	0.2	0
25	Tracking the pseudogap below Tc by modeling the Raman response. Current Applied Physics, 2008, 8, 280-282.	1.1	3
26	A new family of high-Tc compounds "Stepping stones toward understanding unconventional superconductivity. Science Bulletin, 2008, 53, 1617-1618.	4.3	7
27	Unusual magnetic order in the pseudogap region of the superconductor $\text{HgBa}_2\text{CuO}_4$. Nature, 2008, 455, 372-375.	13.7	260
28	Dependence of the pseudogap parameter on the wave vector in high-temperature superconductors. JETP Letters, 2008, 87, 170-174.	0.4	2
29	Reconstruction of the Fermi surface in the pseudogap state of cuprates. JETP Letters, 2008, 88, 192-196.	0.4	18
30	Two gaps make a high-temperature superconductor?. Reports on Progress in Physics, 2008, 71, 062501.	8.1	386
31	Polar Kerr-Effect Measurements of the High-Temperature $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ Evidence for Broken Symmetry near the Pseudogap Temperature. Physical Review Letters, 2008, 100, 127002.	2.9	331
32	Rethinking Scientific Change and Theory Comparison. , 2008, , .		22
33	Modulated pairs in superconducting cuprates. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3173-3174.	3.3	9
34	Origin of the Anomalously Strong Influence of Out-of-Plane Disorder on High-Tc Superconductivity. Journal of the Physical Society of Japan, 2008, 77, 074714.	0.7	21
35	Effects of Zn substitution in $\text{La}_2\text{Sr}_x\text{Cu}_1\text{Zn}_y\text{O}_4$: interplay among superconductivity, pseudogap, and stripe order. Superconductor Science and Technology, 2008, 21, 125020.	1.8	9
36	Electronic structure near the 1/8-anomaly in La-based cuprates. New Journal of Physics, 2008, 10, 103016.	1.2	56

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37	Absence of Broken Time-Reversal Symmetry in the Pseudogap State of the High Temperature $\text{La}_{2-x}\text{Ce}_x\text{CuO}_4$ from Muon-Spin-Relaxation Measurements. Physical Review Letters, 2008, 101, 017001.	2.9	62
38	Observation of magnetic order in a superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ crystal using polarized neutron scattering. Physical Review B, 2008, 78, .	1.1	124
39	Experimental investigation of the origin of the crossover temperature in cuprate superconductors via dc magnetic susceptibility. Physical Review B, 2008, 78, .	1.1	10
40	Breakpoint in the evolution of the gap through the cuprate phase diagram. Physical Review B, 2008, 77, .	1.1	43
41	Time-Reversal Symmetry Breaking by a $(\text{Tj ETQq0 0 0 rgBT /Overlock})$ Density-Wave State in Underdoped Cuprate Superconductors. Physical Review Letters, 2008, 100, 217004.	2.9	50
42	Influence of atomic-scale inhomogeneity of the pair interaction on the local pair formation and density of states of high- T_c superconductors. Physical Review B, 2008, 78, .	1.1	3
43	One-gap scenario to explain Raman scattering in a d -wave superconductor. Physical Review B, 2008, 77, .	1.1	10
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45	Pseudogap and the superconducting energy in hole-doped high-temperature superconductors. Physical Review B, 2008, 78, .	1.1	6
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47	Temperature dependence of the gaps of high-temperature superconductors in the Fermi-arc region. Physical Review B, 2008, 78, .	1.1	6
48	Evidence for Pairing above the Transition Temperature of Cuprate Superconductors from the Electronic Dispersion in the Pseudogap Phase. Physical Review Letters, 2008, 101, 137002.	2.9	118
49	Weak-coupling Bardeen-Cooper-Schrieffer superconductivity in the electron-doped cuprate superconductors. Physical Review B, 2008, 77, .	1.1	31
50	Breakdown of the Fermi-liquid regime in the two-dimensional Hubbard model from a two-loop field-theoretical renormalization group approach. Physical Review B, 2008, 78, .	1.1	16
51	Combined Experimental and Theoretical Investigation of the Premartensitic Transition in $\text{Ni}_{1-x}\text{Mn}_x\text{Ga}$. Physical Review Letters, 2008, 100, 165703.	2.9	112
52	Distinction between the normal-state gap and superconducting gap of electron-doped cuprates. Physical Review B, 2008, 78, .	1.1	8
53	Gap anisotropy and universal pairing scale in a spin-fluctuation model of cuprate superconductors. Physical Review B, 2008, 78, .	1.1	52
54	Analysis of the pseudogap-related structure in the tunnel spectra of superconducting $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8+\text{I}'$ revealed by break-junction technique. Low Temperature Physics, 2008, 34, 409-412.	0.2	5

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55	Superconducting properties of a textured NbN film from N	1.1	7
56	Quantitative Raman measurements of the evolution of the Cooper pair density with doping in Bi	1.1	31
57	Evidence for Two Competing Order Parameters in Underdoped Cuprate Superconductors from a Model Analysis of Fermi-Arc Effects. Physical Review Letters, 2009, 103, 217001.	2.9	18
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61	Nonmonotonic pseudogap in high- T_c cuprate Physical Review B, 2009, 79, .	1.1	4
62	Spectroscopic evidence for preformed Cooper pairs in the pseudogap phase of cuprates. Europhysics Letters, 2009, 88, 27008.	0.7	22
63	Effects of Quasiparticle Ambipolarity on the Nernst Effect in Underdoped Cuprate Superconductors. Physical Review Letters, 2009, 103, 077001.	2.9	10
64	Electron-phonon coupling in underdoped high-temperature superconductors. Physics-Uspexhi, 2009, 52, 1193-1212.	0.8	41
65	Strong anisotropy of cuprate pseudogap correlations: implications for Fermi arcs and Fermi pockets. New Journal of Physics, 2009, 11, 123023.	1.2	6
66	Evidence of magnetic mechanism for cuprate superconductivity. New Journal of Physics, 2009, 11, 065006.	1.2	10
67	A thermodynamic framework for a system with itinerant-electron magnetism. Journal of Physics Condensed Matter, 2009, 21, 326003.	0.7	33
68	Fermi surface reconstruction in high- T_c superconductors. Journal of Physics Condensed Matter, 2009, 21, 164212.	0.7	78
69	Visualizing pair formation on the atomic scale and the search for the mechanism of superconductivity in high- T_c cuprates. Journal of Physics Condensed Matter, 2009, 21, 164214.	0.7	26
70	Striped superconductors: how spin, charge and superconducting orders intertwine in the cuprates. New Journal of Physics, 2009, 11, 115004.	1.2	244
71	A model of a 2D non-Fermi liquid with $SO(5)$ symmetry, AF order and a d-wave SC gap. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 025402.	0.7	3
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74	A universal relationship between magnetic resonance and superconducting gap in unconventional superconductors. <i>Nature Physics</i> , 2009, 5, 873-875.	6.5	141
75	Search for time-reversal symmetry breaking in unconventional superconductors. <i>Physica B: Condensed Matter</i> , 2009, 404, 507-509.	1.3	1
76	Pair-density-wave pseudogap and superconducting states in cuprates. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 2984-2987.	0.9	0
77	Superconductivity close to the Mott state: From condensed-matter systems to superfluidity in optical lattices. <i>Annals of Physics</i> , 2009, 324, 1452-1515.	1.0	110
78	Universal behaviour and the two-component character of magnetically underdoped cuprate superconductors. <i>Advances in Physics</i> , 2009, 58, 1-65.	35.9	34
79	Polar Kerr effect as probe for time-reversal symmetry breaking in unconventional superconductors. <i>New Journal of Physics</i> , 2009, 11, 055060.	1.2	118
80	Extending Universal Nodal Excitations Optimizes Superconductivity in Bi ₂ Sr ₂ CaCu ₂ O _{8+δ} . <i>Science</i> , 2009, 324, 1689-1693.	6.0	107
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85	Particle-hole mixing driven by the superconducting fluctuations. <i>European Physical Journal B</i> , 2010, 74, 437-445.	0.6	2
86	Towards a better understanding of superconductivity at high transition temperatures. <i>European Physical Journal: Special Topics</i> , 2010, 188, 3-14.	1.2	4
87	Superconductivity and electronic liquid-crystal states in twin-free YBa ₂ Cu ₃ O _{6+x} studied by neutron scattering. <i>European Physical Journal: Special Topics</i> , 2010, 188, 113-129.	1.2	11
88	Electron interactions and charge ordering in CuO ₂ compounds. <i>European Physical Journal: Special Topics</i> , 2010, 188, 131-152.	1.2	33
89	An ARPES view on the high-T _c problem: Phonons vs. spin-fluctuations. <i>European Physical Journal: Special Topics</i> , 2010, 188, 153-162.	1.2	34
90	Generalizing the Cooper-pair instability to doped Mott insulators. <i>Frontiers of Physics in China</i> , 2010, 5, 171-175.	1.0	8

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97	Competition of Superconductivity and Charge Density Waves in Cuprates: Recent Evidence and Interpretation. Advances in Condensed Matter Physics, 2010, 2010, 1-40.	0.4	51
98	Anomalous Noise in the Pseudogap Regime of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. Nernst and Seebeck Coefficients of the Cuprate Superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$: A Study of Fermi Surface Reconstruction. Physical Review Letters, 2010, 104, 057005.		
99	Andreev and Single-Particle Tunneling Spectra of Underdoped Cuprate Superconductors. Physical Review Letters, 2010, 105, 167004.	2.9	19
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106	Quasiparticle Nernst effect in stripe-ordered cuprates. Physical Review B, 2010, 81, .	1.1	47
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111	Stripe order and quasiparticle Nernst effect in cuprate superconductors. New Journal of Physics, 2010, 12, 105011.	1.2	6
112	Real space inhomogeneities in high temperature superconductors: the perspective of the two-component model. Journal of Physics Condensed Matter, 2010, 22, 255702.	0.7	8
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121	Bosons in high-temperature superconductors: an experimental survey. Reports on Progress in Physics, 2011, 74, 066501.	8.1	101
122	d -Wave Superconductivity and s -Wave Charge Density Waves: Coexistence between Order Parameters of Different Origin and Symmetry. Symmetry, 2011, 3, 699-749.	1.1	18
123	Nernst effect from fluctuating pairs in the pseudogap phase of the cuprates. Physical Review B, 2011, 83, .	1.1	37
124	The Challenge of Unconventional Superconductivity. Science, 2011, 332, 196-200.	6.0	347
125	Preparation of Existing and Novel Superconductors using a Spatial Composition Spread Approach. , 2011, , .		0
126	Superconductivity in copper-oxygen compounds. Zeitschrift für Kristallographie, 2011, 226, .	1.1	7

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128	Temporal correlations of superconductivity above the transition temperature in $\text{La}_2\text{â}^{\sim}\text{xSrxCuO}_4$ probed by terahertz spectroscopy. Nature Physics, 2011, 7, 298-302.	6.5	164
129	Observation of Orbital Currents in CuO. Science, 2011, 332, 696-698.	6.0	108
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131	Electronic Raman scattering in copper oxide superconductors: Understanding the phase diagram. Comptes Rendus Physique, 2011, 12, 480-501.	0.3	19
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133	Spin dynamics in the pseudogap state: phase fluctuation versus density wave. New Journal of Physics, 2011, 13, 113016.	1.2	2
134	Proposed Giaever transformer to probe the pseudogap phase of cuprates. Physical Review B, 2011, 83, .	1.1	4
135	Doping and temperature dependence of the pseudogap and Fermi arcs in cuprates from d -CDW with short-range fluctuations in the context of the t - J model. Physical Review B, 2011, 83, .	1.1	8
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146	Three energy scales characterizing the competing pseudogap state, the incoherent, and the coherent superconducting state in high- T_c cuprate superconductor YBa ₂ Cu ₃ O _{7-x} . Physical Review B, 2011, 83, .	1.1	21
147	Nernst effect in the cuprate superconductor YBa ₂ Cu ₃ O _{7-x} . Physical Review B, 2011, 83, .	1.1	30
148	Dichotomy in the T -linear resistivity in hole-doped cuprates. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 1626-1639.	1.6	53
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155	Quantum mechanical picture of the coupling between interlayer electronic excitations and infrared active phonons in bilayer cuprate superconductors. Physical Review B, 2012, 86, .	1.1	4
156	Measurement of Magnetic Exchange in Ferromagnet-Superconductor Junctions. Physical Review Letters, 2012, 109, 137005.	2.9	13
157	X marks the spot.... Nature Physics, 2012, 8, 516-516.	6.5	0
158	Pseudogap temperature as a Widom line in doped Mott insulators. Scientific Reports, 2012, 2, 547.	1.6	68
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164	Feedback Effect on High-Energy Magnetic Fluctuations in the Model High-Temperature Superconductor HgBa ₂ CuO ₄ +I Observed by Electronic Raman Scattering. Physical Review Letters, 2012, 108, 227003.	2.9	26
165	Decrease of upper critical field with underdoping in cuprate superconductors. Nature Physics, 2012, 8, 751-756.	6.5	77
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