

# Cyril Proust

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effect of pseudogap on electronic anisotropy in the strain dependence of the superconducting transition temperature of underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{8-x}$ . Physical Review B, 2022, 105, .	3.2	1
2	Magnetotransport signatures of antiferromagnetism coexisting with charge order in the trilayer cuprate $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_{8+\delta}$ . Nature Communications, 2022, 13, 1568.	12.8	2
3	Magnetic freeze-out and anomalous Hall effect in $\text{ZrTe}_5$ . Npj Quantum Materials, 2022, 7, .	5.2	11
4	Ultrasound evidence for a two-component superconducting order parameter in $\text{Sr}_2\text{RuO}_4$ . Nature Physics, 2021, 17, 194-198.	16.7	74
5	High magnetic field ultrasound study of spin freezing in $\text{La}_{1.88}\text{Sr}_{0.12}\text{CuO}_4$ . Physical Review B, 2021, 103, .	3.2	6
6	Quasi-isotropic orbital magnetoresistance in lightly doped $\text{SrTiO}_3$ . Physical Review Materials, 2021, 5, .	2.4	18
7	Hidden magnetism at the pseudogap critical point in the cuprate superconductor $\text{Bi}_2\text{Sr}_2\text{CuO}_{8-x}$ . Physical Review B, 2021, 104, .	3.2	15
8	Hidden magnetism at the pseudogap critical point of a cuprate superconductor. Nature Physics, 2020, 16, 1064-1068.	16.7	58
9	Giant Seebeck effect across the field-induced metal-insulator transition of $\text{InAs}$ . Npj Quantum Materials, 2020, 5, .	5.2	8
10	The Remarkable Underlying Ground States of Cuprate Superconductors. Annual Review of Condensed Matter Physics, 2019, 10, 409-429.	14.5	196
11	Universal T-linear resistivity and Planckian dissipation in overdoped cuprates. Nature Physics, 2019, 15, 142-147.	16.7	197
12	Magnetoresistance of semimetals: The case of antimony. Physical Review Materials, 2018, 2, .	2.4	26
13	Inverse correlation between quasiparticle mass and $T_c$ in a cuprate high- $T_c$ superconductor. Science Advances, 2016, 2, e1501657.	10.3	17
14	Change of carrier density at the pseudogap critical point of a cuprate superconductor. Nature, 2016, 531, 210-214.	27.8	296
15	Correlation between Fermi surface transformations and superconductivity in the electron-doped high- $T_c$ cuprate $\text{Nd}_2\text{CuO}_7$ . Physical Review B, 2015, 92, .	3.2	39
16	Evidence for a small hole pocket in the Fermi surface of underdoped $\text{YBa}_2\text{Cu}_3\text{O}_y$ . Nature Communications, 2015, 6, 6034.	12.8	60
17	Quantum Oscillations in Hole-Doped Cuprates. Annual Review of Condensed Matter Physics, 2015, 6, 411-430.	14.5	75
18	Berry phase in cuprate superconductors. Physical Review B, 2015, 91, .	3.2	8

#	ARTICLE	IF	CITATIONS
19	Focus on fermiology of the cuprates. New Journal of Physics, 2014, 16, 045004.	2.9	3
20	Direct measurement of the upper critical field in cuprate superconductors. Nature Communications, 2014, 5, 3280.	12.8	171
21	Universal quantum oscillations in the underdoped cuprate superconductors. Nature Physics, 2013, 9, 761-764.	16.7	130
22	From quantum oscillations to charge order in high- $T_c$ copper oxides in high magnetic fields. Comptes Rendus Physique, 2013, 14, 39-52.	0.9	28
23	Coherent c-axis transport in the underdoped cuprate superconductor $\text{YBa}_2\text{Cu}_3\text{O}_y$ . Physical Review B, 2012, 85, .	3.2	17
24	Fermi-surface reconstruction by stripe order in cuprate superconductors. Nature Communications, 2011, 2, 432.	12.8	149
25	Angle dependence of quantum oscillations in $\text{YBa}_2\text{Cu}_3\text{O}_{6.59}$ shows free-spin behaviour of quasiparticles. Nature Physics, 2011, 7, 234-238.	16.7	69
26	Quantum oscillations and the Fermi surface of high-temperature cuprate superconductors. Comptes Rendus Physique, 2011, 12, 446-460.	0.9	37
27	Upper critical point in the cuprate superconductor $\text{YBa}_2\text{Cu}_3\text{O}_y$ from high-field Hall effect measurements. Physical Review B, 2011, 83.		189
28	Dichotomy in the $T$ -linear resistivity in hole-doped cuprates. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 1626-1639.	3.4	53
29	Nernst and Seebeck Coefficients of the Cuprate Superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{6.67}$ : A Study of Fermi Surface Reconstruction. Physical Review Letters, 2010, 104, 057005.		118
30	Fermi-surface reconstruction and two-carrier model for the Hall effect in $\text{YBa}_2\text{Cu}_3\text{O}_y$ . Physical Review B, 2010, 82.	3.2	41
31	Multiple Quantum Oscillations in the de Haas-van Alphen Spectra of the Underdoped High-Temperature Superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{6.5}$ . Physical Review Letters, 2009, 103, 157002.	3.4	84
32	Quantum oscillations in underdoped. Physica B: Condensed Matter, 2009, 404, 354-356.	2.7	15
33	Anomalous Criticality in the Electrical Resistivity of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . Science, 2009, 323, 603-607.	12.6	334
34	Quantum oscillations in an overdoped high- $T_c$ superconductor. Nature, 2008, 455, 952-955.	27.8	240
35	Small Fermi Surface Pockets in Underdoped High Temperature Superconductors: Observation of Shubnikov-de Haas Oscillations in $\text{YBa}_2\text{Cu}_3\text{O}_y$ . Physical Review de Haas-van Alphen Oscillations in the Underdoped High-Temperature Superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{6.5}$ . Physical Review Letters, 2008, 100, 187005.	2.2	115
36	Fermi-surface reconstruction and two-carrier model for the Hall effect in $\text{YBa}_2\text{Cu}_3\text{O}_y$ . Physical Review Letters, 2008, 100, 187005.		115

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37	Doping dependence of the superconducting gap in $Tl_2Ba_2CuO_6$ from heat transport. <i>Physical Review B</i> , 2007, 75, .	3.2	38
38	Quantum oscillations and the Fermi surface in an underdoped high- $T_c$ superconductor. <i>Nature</i> , 2007, 447, 565-568.	27.8	836
39	Electron pockets in the Fermi surface of hole-doped high- $T_c$ superconductors. <i>Nature</i> , 2007, 450, 533-536.	27.8	443
40	Heat transport in $Bi_{2-x}Sr_{2x}CuO_6$ : Departure from the Wiedemann-Franz law in the vicinity of the metal-insulator transition. <i>Physical Review B</i> , 2005, 72, .	3.2	37
41	Heat Transport in a Strongly Overdoped Cuprate: Fermi Liquid and a Pured-Wave BCS Superconductor. <i>Physical Review Letters</i> , 2002, 89, 147003.	7.8	204
42	Breakdown of Fermi-liquid theory in a copper-oxide superconductor. <i>Nature</i> , 2001, 414, 711-715.	27.8	163
43	Ultrasound Attenuation in $Sr_2RuO_4$ : An Angle-Resolved Study of the Superconducting Gap Function. <i>Physical Review Letters</i> , 2001, 86, 5986-5989.	7.8	132