

# Cyril Proust

## List of Publications by Year in descending order

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43  
papers

4,997  
citations

172457

29  
h-index

243625

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44  
all docs

44  
docs citations

44  
times ranked

2779  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum oscillations and the Fermi surface in an underdoped high-Tc superconductor. Nature, 2007, 447, 565-568.	27.8	836
2	Electron pockets in the Fermi surface of hole-doped high-Tc superconductors. Nature, 2007, 450, 533-536.	27.8	443
3	Anomalous Criticality in the Electrical Resistivity of La $2\text{x}$ Sr $\text{x}$ CuO $4\text{x}$ . Science, 2009, 323, 603-607.	12.6	334
4	Change of carrier density at the pseudogap critical point of a cuprate superconductor. Nature, 2016, 531, 210-214.	27.8	296
5	Quantum oscillations in an overdoped high-Tc superconductor. Nature, 2008, 455, 952-955.	27.8	240
6	Small Fermi Surface Pockets in Underdoped High Temperature Superconductors: Observation of Shubnikov-de Haas Oscillations in $\text{YBa}_2\text{Cu}_3\text{O}_{8-x}$ . Physical Review Letters, 2008, 100, 047004.	7.8	204
7	Heat Transport in a Strongly Overdoped Cuprate: Fermi Liquid and a Pured-Wave BCS Superconductor. Physical Review Letters, 2002, 89, 147003.	16.7	197
8	Universal T-linear resistivity and Planckian dissipation in overdoped cuprates. Nature Physics, 2019, 15, 142-147.	14.5	196
9	The Remarkable Underlying Ground States of Cuprate Superconductors. Annual Review of Condensed Matter Physics, 2019, 10, 409-429.	189	
10	Lifshitz critical point in the cuprate superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ from high-field Hall effect measurements. Physical Review B, 2011, 83, .	12.8	171
11	Direct measurement of the upper critical field in cuprate superconductors. Nature Communications, 2014, 5, 3280.	27.8	163
12	Breakdown of Fermi-liquid theory in a copper-oxide superconductor. Nature, 2001, 414, 711-715.	12.8	149
13	Fermi-surface reconstruction by stripe order in cuprate superconductors. Nature Communications, 2011, 2, 432.	145	
14	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.	7.8	132
15	Ultrasound Attenuation in Sr <sub>2</sub> RuO <sub>4</sub> : An Angle-Resolved Study of the Superconducting Gap Function. Physical Review Letters, 2001, 86, 5986-5989.	16.7	130
16	Universal quantum oscillations in the underdoped cuprate superconductors. Nature Physics, 2013, 9, 761-764.	115	
17	Nernst and Seebeck Coefficients of the Cuprate Superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{6.67}$ : A Study of Fermi 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, 157003.	84	
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#	ARTICLE	IF	CITATIONS
19	Quantum Oscillations in Hole-Doped Cuprates. Annual Review of Condensed Matter Physics, 2015, 6, 411-430.	14.5	75
20	Ultrasound evidence for a two-component superconducting order parameter in Sr <sub>2</sub> RuO <sub>4</sub> . Nature Physics, 2021, 17, 194-198.	16.7	74
21	Angle dependence of quantum oscillations in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>6.59</sub> shows free-spin behaviour of quasiparticles. Nature Physics, 2011, 7, 234-238.	16.7	69
22	Evidence for a small hole pocket in the Fermi surface of underdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> . Nature Communications, 2015, 6, 6034.	12.8	60
23	Hidden magnetism at the pseudogap critical point of a cuprate superconductor. Nature Physics, 2020, 16, 1064-1068.	16.7	58
24	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
25	Fermi-surface reconstruction and two-carrier model for the Hall effect in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . Physical Review B, 2010, 82, 040501.	3.2	41
26	Correlation between Fermi surface transformations and superconductivity in the electron-doped high- $T_c$ cuprates. Physical Review B, 2015, 92, 040501.	3.2	39
27	Doping dependence of the superconducting gap in Tl <sub>2</sub> Ba <sub>2</sub> CuO <sub>6+δ</sub> from heat transport. Physical Review B, 2007, 75, 040501.	3.2	38
28	Heat transport in Bi <sub>2-x</sub> Sr <sub>2y</sub> CuO <sub>6+δ</sub> : Departure from the Wiedemann-Franz law in the vicinity of the metal-insulator transition. Physical Review B, 2005, 72, 040501.	3.2	37
29	Quantum oscillations and the Fermi surface of high-temperature cuprate superconductors. Comptes Rendus Physique, 2011, 12, 446-460.	0.9	37
30	From quantum oscillations to charge order in high- $T_c$ cuprates. Comptes Rendus Physique, 2013, 14, 39-52.	0.9	28
31	Magnetoresistance of semimetals: The case of antimony. Physical Review Materials, 2018, 2, 010401.	2.4	26
32	Coherent-axis transport in the underdoped cuprate superconductor YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> . Physical Review B, 2012, 85, 040501.	3.2	17
33	Inverse correlation between quasiparticle mass and $T_c$ in a cuprate high- $T_c$ superconductor. Science Advances, 2016, 2, e1501657.	10.3	17
34	Quantum oscillations in underdoped. Physica B: Condensed Matter, 2009, 404, 354-356.	2.7	15
35	Transport signatures of the pseudogap critical point in the cuprate superconductor Bi <sub>2-x</sub> Sr <sub>y</sub> CuO <sub>6+δ</sub> . Physical Review B, 2021, 104, 040501.	3.2	15
36	Magnetic freeze-out and anomalous Hall effect in ZrTe <sub>5</sub> . Npj Quantum Materials, 2022, 7, 1-10.	5.2	11

#	ARTICLE	IF	CITATIONS
37	Berry phase in cuprate superconductors. Physical Review B, 2015, 91, .	3.2	8
38	Quasi-isotropic orbital magnetoresistance in lightly doped $\text{SrTiO}_3$ . Physical Review Materials, 2021, 5, .	2.4	8
39	Giant Seebeck effect across the field-induced metal-insulator transition of InAs. Npj Quantum Materials, 2020, 5, .	5.2	8
40	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
41	Focus on fermiology of the cuprates. New Journal of Physics, 2014, 16, 045004.	2.9	3
42	Magnetotransport signatures of antiferromagnetism coexisting with charge order in the trilayer cuprate $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_8$ . Nature Communications, 2022, 13, 1568. Effect of pseudogap on electronic anisotropy in the strain dependence of the superconducting	12.8	2
43	of underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ . Physical Review B, 2022, 105, .	3.2	1