Christopher C Homes

List of Publications by Year
in descending order

101 papers	6,426 citations	81900 39 h-index	64796 79 g-index
101 all docs	101 docs citations	101 times ranked	4881 citing authors

#	Article	IF	Citations
1	Optical Response of High-Dielectric-Constant Perovskite-Related Oxide. Science, 2001, 293, 673-676.	12.6	1,582
2	Optical conductivity ofcaxis orientedYBa2Cu3O6.70: Evidence for a pseudogap. Physical Review Letters, 1993, 71, 1645-1648.	7.8	505
3	Technique for measuring the reflectance of irregular, submillimeter-sized samples. Applied Optics, 1993, 32, 2976.	2.1	321
4	First-principles study of the structure and lattice dielectric response ofCaCu3Ti4O12. Physical Review B, 2002, 65, .	3.2	317
5	Sum Rules and Interlayer Conductivity of High-Tc Cuprates. Science, 1999, 283, 49-52.	12.6	241
6	A universal scaling relation in high-temperature superconductors. Nature, 2004, 430, 539-541.	27.8	235
7	Charge transfer in the high dielectric constant materialsCaCu3Ti4O12andCdCu3Ti4O12. Physical Review B, 2003, 67, .	3.2	171
8	Three-dimensional Dirac fermions in quasicrystals as seen via optical conductivity. Physical Review B, 2013, 87, .	3.2	157
9	Electrodynamics of the nodal metal state in weakly doped high-Tccuprates. Physical Review B, 2005, 72, .	3.2	119
10	Optical conductivity of the stable icosahedral quasicrystalAl63.5Cu24.5Fe12. Physical Review Letters, 1991, 67, 2694-2696.	7.8	99
11	Doping for superior dielectrics. Nature Materials, 2013, 12, 782-783.	27.5	98
12	Magneto-Optical Signature of Massless Kane Electrons in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mrow><mml:mn>3</r Physical Review Letters, 2016, 117, 136401.	7.8	93
13	Surface impedance studies of YBCO. European Physical Journal D, 1996, 46, 3195-3202.	0.4	91
14	Optical properties of the iron arsenic superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BaFe</mml:mtext></mml:mrow><mml:mrow><mml:mn>1.85</m Physical Review B, 2010, 82, .	3.2	77
15	Infrared properties of electron-doped cuprates: Tracking normal-state gaps and quantum critical behavior in Pr 2 â^' x Ce x CuO 4. Europhysics Letters, 2005, 70, 225-231.	2.0	76
16	Optical Properties ofc-Axis Oriented SuperconductingMgB2Films. Physical Review Letters, 2001, 87, 277001.	7.8	75
17	Mott physics and the optical conductivity of electron-doped cuprates. Physical Review B, 2005, 72, .	3.2	74
18	Extracting the electron-boson spectral functionÎ±2F(Ï‰)from infrared and photoemission data using inverse theory. Physical Review B, 2005, 71, .	3.2	74

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19	Infrared phonon anomaly in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BaFe</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>As2. Physical Review B, 2009, 80, .	3.2	74
20	Anisotropic electrodynamics of type-II Weyl semimetal candidate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2017, 95, .	3.2	74
21	Optical properties of the perfectly compensated semimetal<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 92, .	3.2	70
22	Scaling of the superfluid density in high-temperature superconductors. Physical Review B, 2005, 72, .	3.2	68
23	Optical properties ofNd1.85Ce0.15CuO4. Physical Review B, 1997, 56, 5525-5534.	3.2	66
24	Hidden<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>T</mml:mi></mml:math>-Linear Scattering Rate in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ba</mml:mi><mml:mn>0.6</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">K</mml:mi><mml:mn>0.4</mml:mn></mml:msub><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></mml:math> by Optical Spectroscopy. Physical Review Letters, 2013, 111, 117001.	7.8	66
25	Electronic correlations and unusual superconducting response in the optical properties of the iron chalcogenideFeTe0.55Se0.45. Physical Review B, 2010, 81, .	3.2	65
26	Sum rules and energy scales in the high-temperature superconductorYBa2Cu3O6+x. Physical Review B, 2004, 69, .	3.2	62
27	Global trends in the interplane penetration depth of layered superconductors. Physical Review B, 2002, 65, .	3.2	60
28	Optical studies of charge dynamics in optimally dopedBi2Sr2CaCu2O8+Î´. Physical Review B, 2002, 66, .	3.2	59
29	Silicon beam splitter for far-infrared and terahertz spectroscopy. Applied Optics, 2007, 46, 7884.	2.1	55
30	Photoenhanced metastable c-axis electrodynamics in stripe-ordered cuprate La _{1.885} Ba _{0.115} CuO ₄. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19875-19879.	7.1	51
31	Charge Order, Metallic Behavior, and Superconductivity inLa2â^'xBaxCuO4withx=1/8. Physical Review Letters, 2006, 96, 257002.	7.8	50
32	Two-Dimensional Conical Dispersion in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>ZrTe</mml:mi></mml:mrow><mml:mrow><mml:mn>5</mml:mn></mml:math> Evidenced by Optical Spectroscopy. Physical Review Letters, 2019, 122, 217402.	7.8	50
33	Unconventional energetics of the pseudogap state and superconducting state in high-Tccuprates. Physical Review B, 2001, 63, .	3.2	47
34	Infrared Studies of the Onset of Conductivity in Ultrathin Pb Films. Physical Review Letters, 1999, 83, 4880-4883.	7.8	44
35	Determination of the optical properties of La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>CuO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow />	3.2	43
36	Mid-infrared conductivity from mid-gap states associated with charge stripes. Physical Review B, 2003, 67, .	3.2	42

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37	Optical and thermodynamic properties of the high-temperature superconductorHgBa2CuO4+Î´. Physical Review B, 2007, 75, .	3.2	42
38	Effect of Ni impurities on the optical properties ofYBa2Cu3O6+y. Physical Review B, 1999, 60, 9782-9792.	3.2	40
39	Doping-dependent studies of the Anderson-Mott localization in polyaniline at the metal-insulator boundary. Physical Review B, 2002, 66, .	3.2	40
40	Coherence, incoherence, and scaling along thecaxis ofYBa2Cu3O6+x. Physical Review B, 2005, 71, .	3.2	35
41	Optical determination of the superconducting energy gap in electron-dopedPr1.85Ce0.15CuO4. Physical Review B, 2006, 74, .	3.2	34
42	Phonon Screening in High-Temperature Superconductors. Physical Review Letters, 2000, 84, 5391-5394.	7.8	31
43	Do organic and other exotic superconductors fail universal scaling relations?. Scientific Reports, 2013, 3, .	3.3	29
44	Marginal Fermi liquid analysis of 300 K reflectance ofBi2Sr2CaCu2O8+Î´. Physical Review B, 2004, 69, .	3.2	26
45	From Hund's insulator to Fermi liquid: Optical spectroscopy study of K doping inBaMn2As2. Physical Review B, 2015, 92, .	3.2	26
46	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>FeTe</mml:mi><mml:mrow><mml:mn>0.55</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> A multiband superconductor in the clean and dirty limit. Physical Review B, 2015, 91, .	3.2	24
47	Anomalous phonon behavior in superconducting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CaKFe</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mo></mml:mo></mml:mrow></mml:math> : An optical study. Physical Review B, 2017, 95, .	3.2	24
48	Strong Coupling of the Iron-Quadrupole and Anion-Dipole Polarizations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Ba</mml:mi><mml:msub><mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:msub><mml:mrow><mml:mi>Fe</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mrow>	7.8	23
49	Softening of a reststrahlen band in CuO near the NÃ©el transition. Physical Review B, 1995, 51, 3140-3150.	3.2	22
50	Nonuniform carrier density in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Cd</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn> evidenced by optical spectroscopy. Physical Review B, 2018, 97, .	3.2	22
51	Optical properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:msub><mml:mi>Fe</mml:mi> (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi> 94, .	3.2	21
52	Optical properties of TiO2â€“SiO2 glass over a wide spectral range. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 838-842.	0.8	20
53	Infrared properties ofLa2â^'x(Ca,Sr)xCaCu2O6+Î´single crystals. Physical Review B, 2003, 67, .	3.2	19
54	Multiple bosonic mode coupling in the charge dynamics of the electron-doped superconductor(Pr2â^'xCex)CuO4. Physical Review B, 2008, 78, .	3.2	19

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55	Optical conductivity of superconducting K<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.8</mml:mn></mml:mrow></mml:msub></mml:math>Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^’</mml:mo><mml:mi>y</mml:mi></mml:mrow></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow>	3.2	19
56	Polarized reflectance measurements of the CDW transitions inÎ·â^’Mo4O11andÎ³â^’Mo4O11. Physical Review B, 1998, 58, 13565-13573.	3.2	18
57	Infrared properties of ferropericlase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Mg</mml:mtext></mml:mrow><mml:mrow>3.2</mml:mrow></mml:msub></mml:mrow></mml:math>O: Experiment and theory. Physical Review B, 2008, 77, .	3.2	18
58	Phonon anomalies in some iron telluride materials. Physical Review B, 2016, 93, .	3.2	18
59	Incoherentc-Axis Interplane Response of the Iron ChalcogenideFeTe0.55Se0.45Superconductor from Infrared Spectroscopy. Physical Review Letters, 2011, 106, 217001.	7.8	17
60	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>n</mml:mi><mml:mi>s</mml:mi></mml:msub><mml:mo>â^’</mml:mo><mml:msub>7.8</mml:msub>17</mml:mi> in Granular Superconductors. Physical Review Letters, 2012, 109, 067003.	7.8	17
61	Breakdown of the universal Josephson relation in spin-ordered cuprate superconductors. Physical Review B, 2010, 82, .	3.2	16
62	Anomalous phonon redshift in K-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="bold">BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">As</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>iron pnictides. Physical Review B, 2015, 91, .	3.2	16
63	Low-energy excitations in type-II Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>d</mml:mi></mml:msub><mml:mi mathvariant="normal">MoTe</mml:mi><mml:mn>2</mml:mn></mml:math> evidenced through optical conductivity. Physical Review Materials, 2020, 4, .	2.4	16
64	Optical spectroscopy study of the electronic structure ofEu1â^’xCaxB6. Physical Review B, 2005, 71, .	3.2	15
65	Stripe order and vibrational properties ofLa2NiO4+Î´forÎ´=2â^•15: Measurements andab initiocalculations. Physical Review B, 2007, 75, .	3.2	15
66	Effective medium approximation and the complex optical properties of the inhomogeneous superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="bold">K</mml:mi><mml:mrow><mml:mn>0.8</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">Fe</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^’</mml:mo><mml:mi>y</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="bold">Se</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Revie	3.2	15
67	Spectral weight transfer in strongly correlatedFe1.03Te. Physical Review B, 2014, 90, .	3.2	15
68	Isotope Studies of the CMR Compounds La1â^’xCaxMnO3+Î´. Journal of Superconductivity and Novel Magnetism, 1999, 12, 263-267.	0.5	14
69	Doping of a one-dimensional Mott insulator: Photoemission and optical studies of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Sr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">Cu</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo><mml:mi>Î´</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review B, 2008, 77, .	3.2	14
70	Optical conductivity of nodal metals. Scientific Reports, 2013, 3, 3446.	3.3	14
71	Phonon Energy Gaps in the Charged Incommensurate Planes of the Spin-Ladder<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Sr</mml:mi><mml:mn>14</mml:mn></mml:msub><mml:msub><mml:mi>Cu</mml:mi><mml:mn>24</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>41</mml:mn></mml:msub></mml:math>Compound by Raman and Infrared Spectroscopy. Physical Review Letters, 2012, 108, 217401.	7.8	13
72	Optical properties and electronic structure of the nonmetallic metal FeCrAs. Physical Review B, 2014, 89, .	3.2	13

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73	Unusual electronic and vibrational properties in the colossal thermopower material FeSb2. Scientific Reports, 2018, 8, 11692.	3.3	13
74	Evidence of a full gap in LaFeAsO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>F<mml:m xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>thin films from infrared spectroscopy. Physical Review B, 2013, 87, .	3.2	12
75	Coexistence of clean- and dirty-limit superconductivity in LiFeAs. Physical Review B, 2016, 93, .	3.2	12
76	Pressure-induced suppression of the spin-gapped insulator phase inBaVS3: An infrared optical study. Physical Review B, 2005, 71, .	3.2	11
77	Infrared spectra of the low-dimensional quantum magnet<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SrCu</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:m Measurements andab initiocalculat. Physical Review B, 2009, 79, .	3.2	11
78	Optical properties of the iron-chalcogenide superconductor FeTe0.55Se0.45. Journal of Physics and Chemistry of Solids, 2011, 72, 505-510.	4.0	11
79	Perfect separation of intraband and interband excitations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>PdCoO</mml:mi><mml:mn>2</mml:mn></mml:msub></ Physical Review B, 2019, 99, .	3.2	11
80	Magnetic freeze-out and anomalous Hall effect in ZrTe5. Npj Quantum Materials, 2022, 7, .	5.2	11
81	Strong-coupling effects in cuprate high-Tcsuperconductors by magneto-optical studies. Physical Review B, 2005, 72, .	3.2	9
82	Scaling of the superfluid density in strongly underdoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YBa</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms Evidence for a Josephson phase. Physical Review B, 2009, 80, .	3.2	9
83	Observation of an emergent coherent state in the iron-based superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>KFe</mml:mi><mml:mn>2</mml:mn></m Physical Review B, 2017, 96, .	3.2	9
84	Distinguishing the gapped and Weyl semimetal scenario in ZrTe5 : Insights from an effective two-band model. Physical Review B, 2020, 102, .	3.2	9
85	Infrared and Optical Properties of Î²â€˜-(ET)2SF5CF2SO3:â€‰ Evidence for a 45 K Spin-Peierls Transition. Chemistry of Materials, 2001, 13, 1326-1333.	6.7	8
86	Optical conductivity of the type-II Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TaIrTe</mml:mi><mml:mn>4</mml:mn></mml:msub></ Physical Review B, 2020, 102, .	3.2	7
87	Synchrotron infrared photoacoustic spectroscopy. Review of Scientific Instruments, 2001, 72, 4331-4336.	1.3	6
88	Scaling of the superfluid density in high-temperature superconductors. , 2005, , .		5
89	High-pressure infrared spectroscopy: Tuning of the low-energy excitations in correlated electron systems. Physical Review B, 2007, 76, .	3.2	5
90	Vibrational anomalies in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:msub><mml:mi mathvariant="bold">Fe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">As</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> () Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.2	5

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91	Optical conductivity of metal alloys with residual resistivities near or above the Mott-Ioffe-Regel limit. Physical Review B, 2019, 100, .	3.2	5
92	Unravelling the mechanism of the semiconducting-like behavior and its relation to superconductivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:mi>CaFe</mml:mi><mml Physical Review B, 2019, 99, .	3.2	5
93	Optical investigation of structural and magnetic transitions in the iron-based superconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">Sr</mml:mi><mml:mrow><mml:mn>0.67</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">Na</mml:mi><mml:mrow><mml:mn>0.33</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">Fe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">As</mml:mi><mml:mn> Physical Review B, 2019, 100, .	3.2	5
94	Anisotropic optical properties of detwinned <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>BaFe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml Physical Review B, 2020, 102, .	3.2	6
95	Probing intraband excitations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>ZrTe</mml:mi><mml:mn>5</mml:mn></mml:msub></mml : A high-pressure infrared and transport study. Physical Review B, 2020, 101, .	3.2	5
96	Superfluid density in overdoped cuprates: Thin films versus bulk samples. Physical Review B, 2022, 105, .	3.2	5
97	Giant Polarization in Nanodielectrics: (Invited Paper). , 2021, , .		1
98	Energy Scales in the High-TcSuperconductor YBa2Cu3O6+x. Journal of Superconductivity and Novel Magnetism, 2004, 17, 93-96.	0.5	0
99	A Universal Scaling Relation in High-Temperature Superconductors.. ChemInform, 2004, 35, no.	0.0	0
100	Technical Reports: Scaling Laws in High-temperature Superconductors as Revealed Through Infrared Spectroscopy. Synchrotron Radiation News, 2005, 18, 9-14.	0.8	0
101	Optical and Transport Properties. Springer Series in Materials Science, 2015, , 187-219.	0.6	0