StÃ©phane PailhÃ¨s

List of Publications by Year
in descending order

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82	4,331	136950	102487
papers	citations	32 h-index	66 g-index

83	83	83	4682
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two-dimensional electron gas with universal subbands at the surface of SrTiO3. Nature, 2011, 469, 189-193.	27.8	634
2	Magnetic Order in the Pseudogap Phase of High-TCSuperconductors. Physical Review Letters, 2006, 96, 197001.	7.8	435
3	Crystal Structure of Cold Compressed Graphite. Physical Review Letters, 2012, 108, 065501.	7.8	292
4	Magnetic Resonant Mode in the Single-Layer High-Temperature Superconductor Tl2Ba2CuO6+delta. Science, 2002, 295, 1045-1047.	12.6	214
5	Two-dimensional geometry of spin excitations in the high-transition-temperature superconductor YBa2Cu3O6+x. Nature, 2004, 430, 650-654.	27.8	208
6	Spin dynamics in the pseudogap state of a high-temperature superconductor. Nature Physics, 2007, 3, 780-785.	16.7	201
7	Spin-Lattice Coupling, Frustration, and Magnetic Order in Multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>R</mml:mi><mml:msub><mml:mi>MnO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2009, 103, 067204.	7.8	141
8	Tuning competing orders in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>La</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> superconductors by the application of an external magnetic. Physical Review B, 2008, 78, .	3.2	104
9	Localization of Propagative Phonons in a Perfectly Crystalline Solid. Physical Review Letters, 2014, 113, 025506.	7.8	104
10	Resonant Magnetic Excitations at High Energy in SuperconductingYBa2Cu3O6.85. Physical Review Letters, 2004, 93, 167001.	7.8	103
11	Spin Phonon Coupling in Hexagonal MultiferroicYMnO3. Physical Review Letters, 2007, 99, 266604.	7.8	98
12	From crystal to glass-like thermal conductivity in crystalline minerals. Physical Chemistry Chemical Physics, 2015, 17, 19751-19758.	2.8	96
13	Direct measurement of individual phonon lifetimes in the clathrate compound Ba7.81Ge40.67Au5.33. Nature Communications, 2017, 8, 491.	12.8	89
14	Magnetic order in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YbMnO</mml:mtext></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> by neutron diffraction and MÃ¶ssbauer spectroscopy. Physical Review B, 2008, 78, .	3.2	84
15	Coherent<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>-Wave Superconducting Gap in Underdoped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>âˆ’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>	7.8	84
16	Phononic filter effect of rattling phonons in the thermoelectric clathrate Ba<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>8</mml:mn></mml:msub></mml:math>Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>40</mml:mn><mml:mo>+</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Ni<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>.	3.2	81
17	Magnetic resonant excitations in High-Tc superconductors. Physica Status Solidi (B): Basic Research, 2004, 241, 1204-1210.	1.5	78
18	Possible room-temperature ferromagnetism in K-doped<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>SnO</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> X-ray diffraction and high-resolution transmission electron microscopy study. Physical Review B, 2010, 82, .	3.2	63

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19	Two-Dimensional Orbital-Like Magnetic Order in the High-Temperature<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi> Physical Review Letters, 2010, 105, 027004.	7.8	61
20	Electronic structure near the 1/8-anomaly in La-based cuprates. New Journal of Physics, 2008, 10, 103016.	2.9	56
21	Electron scattering, charge order, and pseudogap physics inLa1.6â^'xNd0.4SrxCuO4: An angle-resolved photoemission spectroscopy study. Physical Review B, 2015, 92, .	3.2	56
22	Hybrid Goldstone modes in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YMnO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:r by polarized inelastic neutron scattering. Physical Review B, 2009, 79, .	3.2	52
23	When low- and high-energy electronic responses meet in cuprate superconductors. Physical Review B, 2007, 75, .	3.2	51
24	The resonant magnetic mode: A common feature of high-Tc superconductors. Physica C: Superconductivity and Its Applications, 2005, 424, 45-49.	1.2	50
25	Magnetic-Field-Induced Soft-Mode Quantum Phase Transition in the High-Temperature Superconductor<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>1.855</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mi><m An Inelastic Neutron-Scattering Study. Physical Review Letters, 2009, 102, 177006.	7.8	49
26	Doping Dependence of Bilayer Resonant Spin Excitations in(Y,Ca)Ba2Cu3O6+x. Physical Review Letters, 2006, 96, 257001.	7.8	48
27	Anisotropic quasiparticle scattering rates in slightly underdoped to optimally doped high-temperatureLa2â^'xSrxCuO4superconductors. Physical Review B, 2008, 78, .	3.2	47
28	Odd and even magnetic resonant modes in highly overdopedBi2Sr2CaCu2O8+Î´. Physical Review B, 2007, 75, .	3.2	46
29	Two Resonant Magnetic Modes in an Overdoped HighTcSuperconductor. Physical Review Letters, 2003, 91, 237002.	7.8	44
30	Absence of ferromagnetism in Mn-doped tetragonal zirconia. Journal of Applied Physics, 2011, 110, .	2.5	39
31	Anisotropic breakdown of Fermi liquid quasiparticle excitations in overdoped La2â^'xSrxCuO4. Nature Communications, 2013, 4, 2559.	12.8	37
32	Magnetic-Field-Induced Spin Excitations and Renormalized Spin Gap of the UnderdopedLa1.895Sr0.105CuO4Superconductor. Physical Review Letters, 2007, 98, 077004.	7.8	33
33	Ortho-II band folding in YBa<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow	3.2	28
34	Raman activity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>s</mml:mi><mml:msup><mml:mi>p</mml:mi><mml:mn>3</mml:mn></mml:msup></mml:mro allotropes under pressure: A density functional theory study. Physical Review B, 2012, 85, .	3.2	28
35	Non-magnetic impurity induced magnetism in rutile TiO₂:K compounds. Journal of Physics Condensed Matter, 2011, 23, 442202.	1.8	26
36	Inelastic neutron scattering study of spin excitations in the superconducting state of high temperature superconductors. Comptes Rendus Physique, 2007, 8, 745-762.	0.9	25

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37	Understanding lattice thermal conductivity in thermoelectric clathrates: A density functional theory study on binary Si-based type-I clathrates. Physical Review B, 2018, 97, .	3.2	25
38	Neutron diffraction study of hexagonal manganite YMnO3, HoMnO3, and ErMnO3 epitaxial films. Applied Physics Letters, 2008, 92, .	3.3	23
39	The Fermi surface and band folding in La2â^'xSrxCuO4, probed by angle-resolved photoemission. New Journal of Physics, 2010, 12, 125003.	2.9	23
40	On-board sample cleaver. Review of Scientific Instruments, 2007, 78, 076103.	1.3	22
41	Superconductivity in layered binary silicides: A density functional theory study. Physical Review B, 2011, 84, .	3.2	21
42	Reduced phase space of heat-carrying acoustic phonons in single-crystalline InTe. Physical Review Research, 2020, 2, .	3.6	20
43	A convenient and quantitative route to Sn(<scp>iv</scp>)â€“M [M = Ti(<scp>iv</scp>), Nb(<scp>v</scp>), Ta(<scp>v</scp>)] heterobimetallic precursors for dense mixed-metal oxide ceramics. Dalton Transactions, 2015, 44, 6848-6862.	3.3	18
44	Critical angle for interfacial phonon scattering: Results from ab initio lattice dynamics calculations. Applied Physics Letters, 2017, 111, .	3.3	18
45	Enhancing the Superconducting Transition Temperature of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BaSi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>by Structural Tuning. Physical Review Letters, 2011, 106, 087002.	7.8	17
46	Thermal transport properties in amorphous/nanocrystalline metallic composites: A microscopic insight. Acta Materialia, 2017, 136, 425-435.	7.9	16
47	Lattice Dynamics Study of Thermoelectric Oxychalcogenide BiCuChO (Ch = Se, S). Journal of Physical Chemistry C, 2019, 123, 16046-16057.	3.1	16
48	Anomalies in the Fermi Surface and Band Dispersion of Quasi-One-Dimensional CuO Chains in the High-Temperature SuperconductorYBa2Cu4O8. Physical Review Letters, 2010, 105, 267003.	7.8	15
49	Diamond contact-less micrometric temperature sensors. Applied Physics Letters, 2015, 106, .	3.3	15
50	Prediction and Synthesis of a Non-Zintl Silicon Clathrate. Chemistry of Materials, 2016, 28, 3711-3717.	6.7	15
51	Anomalous asymmetry in the Fermi surface of the high-temperature superconductorYBa2Cu4O8revealed by angle-resolved photoemission spectroscopy. Physical Review B, 2009, 80, .	3.2	14
52	Boosting the power factor with resonant states: A model study. Physical Review B, 2017, 96, .	3.2	13
53	Optimum in the thermoelectric efficiency of nanostructured Nb-doped TiO₂ ceramics: from polarons to Nbâ€“Nb dimers. Physical Chemistry Chemical Physics, 2020, 22, 13008-13016.	2.8	13
54	Absence of an isotope effect in the magnetic resonance in high-Tcsuperconductors. Physical Review B, 2005, 71, .	3.2	12

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55	Superconductivity and electronic liquid-crystal states in twin-free YBa2Cu3O6+x studied by neutron scattering. European Physical Journal: Special Topics, 2010, 188, 113-129.	2.6	11
56	Nodal Landau Fermi-liquid quasiparticles in overdoped La1.77Sr0.23CuO4. Physical Review B, 2014, 89, .	3.2	11
57	Thermoelectric La-doped SrTiO3 epitaxial layers with single-crystal quality: from nano to micrometers. Science and Technology of Advanced Materials, 2017, 18, 430-435.	6.1	11
58	Impact of structural complexity and disorder on lattice dynamics and thermal conductivity in the o-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Al</mml:mi><mml:mn>13</mml:mn></mml: phase. Physical Review B, 2020, 102, .	3.2	11
59	Anisotropic low-energy vibrational modes as an effect of cage geometry in the binary barium silicon clathrate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>24</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>100</mml:mn></mml:msub></mml:mrow></mml:math>. Phy	3.2	11
60	Origins of large critical temperature variations in single-layer cuprates. Physical Review B, 2008, 78, .	3.2	10
61	Analysis of the multiferroicity in the hexagonal manganite YMnO3. Journal of Physics Condensed Matter, 2013, 25, 416002.	1.8	10
62	Observation of various magnetic-fieldâ€“induced states in B20 cubic MnGe. Europhysics Letters, 2015, 111, 17008.	2.0	8
63	Unified modelling of the thermoelectric properties in SrTiO ₃. Europhysics Letters, 2017, 118, 67004.	2.0	7
64	Giant Tuning of Electronic and Thermoelectric Properties by Epitaxial Strain in p-Type Sr-Doped LaCrO₃ Transparent Thin Films. ACS Applied Electronic Materials, 2021, 3, 3461-3471.	4.3	7
65	Effect of High Pressure Spark Plasma Sintering on the Densification of a Nb-Doped TiO2 Nanopowder. Ceramics, 2020, 3, 507-520.	2.6	6
66	Electronic structure ofLa1.48Nd0.4Sr0.12CuO4probed by high- and low-energy angle-resolved photoelectron spectroscopy. Physical Review B, 2009, 80, .	3.2	4
67	Mechanical alloying as a new synthesis route for metastable silicon clathrates. Materials Letters, 2017, 187, 1-3.	2.6	3
68	Impact of temperature and mode polarization on the acoustic phonon range in complex crystalline phases: A case study on intermetallic clathrates. Physical Review Research, 2021, 3, .	3.6	3
69	Isostructural phase transition by point defect reorganization in the binary type-I clathrate Ba7.5Si45. Acta Materialia, 2021, 210, 116824.	7.9	3
70	A Chiral 3D Silver(I)-Benzenedithiolate Coordination Polymer exhibiting Photoemission and Non Linear Optical Response. Chemical Communications, 0, , .	4.1	3
71	X-Rays and Neutrons Spectroscopy for the Investigation of Individual Phonons Properties in Crystalline and Amorphous Solids. , 2017, , 517-563.		2
72	Inelastic neutron scattering study of Tl2Ba2CuO6+Î´. Journal of Physics and Chemistry of Solids, 2002, 63, 2243-2246.	4.0	1

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73	Spin lattice coupling in multiferroic hexagonal YMnO3. Pramana - Journal of Physics, 2008, 71, 869-876.	1.8	1
74	Magnetic Field-Induced Closure of the Spin Excitation Gap near Optimal Doping in La2-xSrxCuO4. Journal of the Physical Society of Japan, 2011, 80, SB030.	1.6	1
75	Absence of confinement in (SrTiO3)/(SrTi0.8Nb0.2O3) superlattices. Physical Review Materials, 2018, 2, .	2.4	1
76	Effect of extreme mechanical densification on the electrical properties of carbon nanotube micro-yarns. Nanotechnology, 2022, , .	2.6	1
77	Magnetic Resonant Excitations in High-Tc Superconductors. ChemInform, 2004, 35, no.	0.0	0
78	Atomic Dynamics in Complex Metallic Alloys. Materials Research Society Symposia Proceedings, 2013, 1517, 1.	0.1	0
79	Isostructural Phase Transition by Point Defect Reorganization in the Binary Type-I Clathrate Ba _{7.5}Si ₄₅. SSRN Electronic Journal, 0, , .	0.4	0
80	Utilisation de la diffusion des neutrons dans lâ€™Ã©tude des mÃ©canismes microscopiques Ã lâ€™origine de la supraconductivitÃ©. , 2010, , .		0
81	Lattice dynamics of the complex metallic alloys o-Al13Co4. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1314-C1314.	0.1	0
82	Utilisation de la diffusion des neutrons dans lâ€™Ã©tude des mÃ©canismes microscopiques Ã lâ€™origine de la supraconductivitÃ©. , 2010, , .		0