

Stéphane Pailhès

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6808036/publications.pdf>

Version: 2024-02-01

82
papers

4,331
citations

136950

32
h-index

102487

66
g-index

83
all docs

83
docs citations

83
times ranked

4682
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Effect of extreme mechanical densification on the electrical properties of carbon nanotube micro-yarns. <i>Nanotechnology</i> , 2022, , . | 2.6 | 1 |
| 2 | Impact of temperature and mode polarization on the acoustic phonon range in complex crystalline phases: A case study on intermetallic clathrates. <i>Physical Review Research</i> , 2021, 3, . | 3.6 | 3 |
| 3 | Isostructural phase transition by point defect reorganization in the binary type-I clathrate Ba _{7.5} Si ₄₅ . <i>Acta Materialia</i> , 2021, 210, 116824. | 7.9 | 3 |
| 4 | Giant Tuning of Electronic and Thermoelectric Properties by Epitaxial Strain in p-Type Sr-Doped LaCrO ₃ Transparent Thin Films. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3461-3471. | 4.3 | 7 |
| 5 | Impact of structural complexity and disorder on lattice dynamics and thermal conductivity in the o- $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{Al} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 13 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{ phase. } \text{Physical Review B. 2020. 102. .$ | 3.2 | 11 |
| 6 | Effect of High Pressure Spark Plasma Sintering on the Densification of a Nb-Doped TiO ₂ Nanopowder. <i>Ceramics</i> , 2020, 3, 507-520. | 2.6 | 6 |
| 7 | Optimum in the thermoelectric efficiency of nanostructured Nb-doped TiO ₂ ceramics: from polarons to Nb ⁵⁺ Nb dimers. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13008-13016. Anisotropic low-energy vibrational modes as an effect of cage geometry in the binary barium silicon clathrate $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:mrow} \langle \text{mml:mi} \text{B} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{a} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 24 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{S} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{i} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 100 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \langle \text{mml:math} \rangle .$ | 2.8 | 13 |
| 8 | Phy Reduced phase space of heat-carrying acoustic phonons in single-crystalline InTe. <i>Physical Review Research</i> , 2020, 2, . | 3.2 | 11 |
| 9 | Phy Reduced phase space of heat-carrying acoustic phonons in single-crystalline InTe. <i>Physical Review Research</i> , 2020, 2, . | 3.6 | 20 |
| 10 | Lattice Dynamics Study of Thermoelectric Oxychalcogenide BiCuChO (Ch = Se, S). <i>Journal of Physical Chemistry C</i> , 2019, 123, 16046-16057. | 3.1 | 16 |
| 11 | Understanding lattice thermal conductivity in thermoelectric clathrates: A density functional theory study on binary Si-based type-I clathrates. <i>Physical Review B</i> , 2018, 97, . | 3.2 | 25 |
| 12 | Absence of confinement in (SrTiO ₃)/(SrTi _{0.8} Nb _{0.2} O ₃) superlattices. <i>Physical Review Materials</i> , 2018, 2, . | 2.4 | 1 |
| 13 | Unified modelling of the thermoelectric properties in SrTiO ₃ . <i>Europhysics Letters</i> , 2017, 118, 67004. | 2.0 | 7 |
| 14 | Direct measurement of individual phonon lifetimes in the clathrate compound Ba _{7.81} Ge _{40.67} Au _{5.33} . <i>Nature Communications</i> , 2017, 8, 491. | 12.8 | 89 |
| 15 | Critical angle for interfacial phonon scattering: Results from <i>ab initio</i> lattice dynamics calculations. <i>Applied Physics Letters</i> , 2017, 111, . | 3.3 | 18 |
| 16 | Thermal transport properties in amorphous/nanocrystalline metallic composites: A microscopic insight. <i>Acta Materialia</i> , 2017, 136, 425-435. | 7.9 | 16 |
| 17 | Boosting the power factor with resonant states: A model study. <i>Physical Review B</i> , 2017, 96, . | 3.2 | 13 |
| 18 | Thermoelectric La-doped SrTiO ₃ epitaxial layers with single-crystal quality: from nano to micrometers. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 430-435. | 6.1 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Mechanical alloying as a new synthesis route for metastable silicon clathrates. <i>Materials Letters</i> , 2017, 187, 1-3. | 2.6 | 3 |
| 20 | X-Rays and Neutrons Spectroscopy for the Investigation of Individual Phonons Properties in Crystalline and Amorphous Solids. , 2017, , 517-563. | | 2 |
| 21 | Lattice dynamics of the complex metallic alloys o-Al13Co4. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2017, 73, C1314-C1314. | 0.1 | 0 |
| 22 | Prediction and Synthesis of a Non-Zintl Silicon Clathrate. <i>Chemistry of Materials</i> , 2016, 28, 3711-3717. | 6.7 | 15 |
| 23 | Electron scattering, charge order, and pseudogap physics in $\text{La}_{1.6}\text{Nd}_{0.4}\text{Sr}_x\text{CuO}_4$: An angle-resolved photoemission spectroscopy study. <i>Physical Review B</i> , 2015, 92, . | 3.2 | 56 |
| 24 | A convenient and quantitative route to $\text{Sn}(\text{iv})\text{M}$ [$\text{M} = \text{Ti}(\text{iv})$, $\text{Nb}(\text{v})$, $\text{Ta}(\text{v})$] heterobimetallic precursors for dense mixed-metal oxide ceramics. <i>Dalton Transactions</i> , 2015, 44, 6848-6862. | 3.3 | 18 |
| 25 | From crystal to glass-like thermal conductivity in crystalline minerals. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19751-19758. | 2.8 | 96 |
| 26 | Observation of various magnetic-field-induced states in B20 cubic MnGe. <i>Europhysics Letters</i> , 2015, 111, 17008. | 2.0 | 8 |
| 27 | Diamond contact-less micrometric temperature sensors. <i>Applied Physics Letters</i> , 2015, 106, . | 3.3 | 15 |
| 28 | Localization of Propagative Phonons in a Perfectly Crystalline Solid. <i>Physical Review Letters</i> , 2014, 113, 025506. | 7.8 | 104 |
| 29 | Nodal Landau Fermi-liquid quasiparticles in overdoped $\text{La}_{1.77}\text{Sr}_{0.23}\text{CuO}_4$. <i>Physical Review B</i> , 2014, 89, . | 3.2 | 11 |
| 30 | Anisotropic breakdown of Fermi liquid quasiparticle excitations in overdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Nature Communications</i> , 2013, 4, 2559. | 12.8 | 37 |
| 31 | Analysis of the multiferroicity in the hexagonal manganite YMnO_3 . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 416002. | 1.8 | 10 |
| 32 | Atomic Dynamics in Complex Metallic Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1517, 1. | 0.1 | 0 |
| 33 | Phononic filter effect of rattling phonons in the thermoelectric clathrate Ba_8Ge_8 . <i>Physical Review B</i> , 2013, 87, 041407. | 3.2 | 81 |
| 34 | Raman activity of $\text{Ni}_3\text{Mn}_2\text{P}_3$ allotropes under pressure: A density functional theory study. <i>Physical Review B</i> , 2012, 85, . | 1.8 | 28 |
| 35 | Crystal Structure of Cold Compressed Graphite. <i>Physical Review Letters</i> , 2012, 108, 065501. | 7.8 | 292 |
| 36 | Non-magnetic impurity induced magnetism in rutile TiO_2 :K compounds. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 442202. | 1.8 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Magnetic Field-Induced Closure of the Spin Excitation Gap near Optimal Doping in La _{2-x} Sr _x CuO ₄ . Journal of the Physical Society of Japan, 2011, 80, SB030. | 1.6 | 1 |
| 38 | Two-dimensional electron gas with universal subbands at the surface of SrTiO ₃ . Nature, 2011, 469, 189-193. | 27.8 | 634 |
| 39 | Absence of ferromagnetism in Mn-doped tetragonal zirconia. Journal of Applied Physics, 2011, 110, . | 2.5 | 39 |
| 40 | Ortho-II band folding in YBa ₂ Cu ₃ O _{6-x} . Physical Review Letters, 2010, 105, 027003. | 3.2 | 28 |
| 41 | Enhancing the Superconducting Transition Temperature of BaSi ₂ by Structural Tuning. Physical Review Letters, 2011, 106, 087002. | 7.8 | 17 |
| 42 | Superconductivity in layered binary silicides: A density functional theory study. Physical Review B, 2011, 84, . | 3.2 | 21 |
| 43 | Superconductivity and electronic liquid-crystal states in twin-free YBa ₂ Cu ₃ O _{6+x} studied by neutron scattering. European Physical Journal: Special Topics, 2010, 188, 113-129. | 2.6 | 11 |
| 44 | Two-Dimensional Orbital-Like Magnetic Order in the High-Temperature Superconductor YBa ₂ Cu ₃ O _{6-x} . Physical Review Letters, 2010, 105, 027004. | 7.8 | 61 |
| 45 | Anomalies in the Fermi Surface and Band Dispersion of Quasi-One-Dimensional CuO Chains in the High-Temperature Superconductor YBa ₂ Cu ₄ O ₈ . Physical Review Letters, 2010, 105, 267003. | 7.8 | 15 |
| 46 | Possible room-temperature ferromagnetism in K-doped SnO ₂ . Physical Review B, 2010, 82, . | 3.2 | 63 |
| 47 | The Fermi surface and band folding in La _{2-x} Sr _x CuO ₄ , probed by angle-resolved photoemission. New Journal of Physics, 2010, 12, 125003. | 2.9 | 23 |
| 48 | Utilisation de la diffusion des neutrons dans l'étude des mécanismes microscopiques à l'origine de la supraconductivité. , 2010, , . | | 0 |
| 49 | Utilisation de la diffusion des neutrons dans l'étude des mécanismes microscopiques à l'origine de la supraconductivité. , 2010, , . | | 0 |
| 50 | Electronic structure of La _{1.48} Nd _{0.4} Sr _{0.12} CuO ₄ probed by high- and low-energy angle-resolved photoelectron spectroscopy. Physical Review B, 2009, 80, . | 3.2 | 4 |
| 51 | Magnetic-Field-Induced Soft-Mode Quantum Phase Transition in the High-Temperature Superconductor La _{1.855} Sr _{0.145} CuO ₄ : An Inelastic Neutron-Scattering Study. Physical Review Letters, 2009, 102, 177006. | 7.8 | 49 |
| 52 | Anomalous asymmetry in the Fermi surface of the high-temperature superconductor YBa ₂ Cu ₄ O ₈ revealed by angle-resolved photoemission spectroscopy. Physical Review B, 2009, 80, . | 3.2 | 14 |
| 53 | Hybrid Goldstone modes in multiferroic YMnO ₃ by polarized inelastic neutron scattering. Physical Review B, 2009, 79, . | 3.2 | 52 |
| 54 | Spin-Lattice Coupling, Frustration, and Magnetic Order in Multiferroic R ₃ MnO ₇ . Physical Review Letters, 2009, 103, 067204. | 7.8 | 141 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Spin lattice coupling in multiferroic hexagonal YMnO ₃ . Pramana - Journal of Physics, 2008, 71, 869-876. | 1.8 | 1 |
| 56 | Magnetic order in YbMnO_3 by neutron diffraction and Mössbauer spectroscopy. Physical Review B, 2008, 78, . | 3.2 | 84 |
| 57 | Electronic structure near the 1/8-anomaly in La-based cuprates. New Journal of Physics, 2008, 10, 103016. | 2.9 | 56 |
| 58 | Origins of large critical temperature variations in single-layer cuprates. Physical Review B, 2008, 78, . | 3.2 | 10 |
| 59 | Neutron diffraction study of hexagonal manganite YMnO ₃ , HoMnO ₃ , and ErMnO ₃ epitaxial films. Applied Physics Letters, 2008, 92, . | 3.3 | 23 |
| 60 | Anisotropic quasiparticle scattering rates in slightly underdoped to optimally doped high-temperature $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ superconductors. Physical Review B, 2008, 78, . | 3.2 | 47 |
| 61 | Tuning competing orders in $\text{La}_{1-x}\text{Pr}_x\text{CuO}_4$ superconductors by the application of an external magnetic. Physical Review B, 2008, 78, . | 3.2 | 23 |
| 62 | Coherent d -Wave Superconducting Gap in Underdoped $\text{La}_{1-x}\text{Sr}_x\text{CuO}_4$ Superconductors. Angle-Resolved Photoemission Spectroscopy. Physical Review Letters, 2008, 101, 047002. | 7.8 | 84 |
| 63 | When low- and high-energy electronic responses meet in cuprate superconductors. Physical Review B, 2007, 75, . | 3.2 | 51 |
| 64 | Spin Phonon Coupling in Hexagonal Multiferroic YMnO ₃ . Physical Review Letters, 2007, 99, 266604. | 7.8 | 98 |
| 65 | Magnetic-Field-Induced Spin Excitations and Renormalized Spin Gap of the Underdoped $\text{La}_{1.895}\text{Sr}_{0.105}\text{CuO}_4$ Superconductor. Physical Review Letters, 2007, 98, 077004. | 7.8 | 33 |
| 66 | On-board sample cleaver. Review of Scientific Instruments, 2007, 78, 076103. | 1.3 | 22 |
| 67 | Odd and even magnetic resonant modes in highly overdoped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+\delta}$. Physical Review B, 2007, 75, . | 3.2 | 46 |
| 68 | 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 |
| 69 | Spin dynamics in the pseudogap state of a high-temperature superconductor. Nature Physics, 2007, 3, 780-785. | 16.7 | 201 |
| 70 | Magnetic Order in the Pseudogap Phase of High-Tc Superconductors. Physical Review Letters, 2006, 96, 197001. | 7.8 | 435 |
| 71 | Doping Dependence of Bilayer Resonant Spin Excitations in $(\text{Y,Ca})\text{Ba}_2\text{Cu}_3\text{O}_{6+x}$. Physical Review Letters, 2006, 96, 257001. | 7.8 | 48 |
| 72 | The resonant magnetic mode: A common feature of high-Tc superconductors. Physica C: Superconductivity and Its Applications, 2005, 424, 45-49. | 1.2 | 50 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 73 | Absence of an isotope effect in the magnetic resonance in high-Tc superconductors. Physical Review B, 2005, 71, . | 3.2 | 12 |
| 74 | Resonant Magnetic Excitations at High Energy in Superconducting YBa ₂ Cu ₃ O _{6.85} . Physical Review Letters, 2004, 93, 167001. | 7.8 | 103 |
| 75 | Two-dimensional geometry of spin excitations in the high-transition-temperature superconductor YBa ₂ Cu ₃ O _{6+x} . Nature, 2004, 430, 650-654. | 27.8 | 208 |
| 76 | Magnetic resonant excitations in High-Tc superconductors. Physica Status Solidi (B): Basic Research, 2004, 241, 1204-1210. | 1.5 | 78 |
| 77 | Magnetic Resonant Excitations in High-Tc Superconductors. ChemInform, 2004, 35, no. | 0.0 | 0 |
| 78 | Two Resonant Magnetic Modes in an Overdoped High-Tc Superconductor. Physical Review Letters, 2003, 91, 237002. | 7.8 | 44 |
| 79 | Magnetic Resonant Mode in the Single-Layer High-Temperature Superconductor Tl ₂ Ba ₂ CuO _{6+δ} . Science, 2002, 295, 1045-1047. | 12.6 | 214 |
| 80 | Inelastic neutron scattering study of Tl ₂ Ba ₂ CuO _{6+δ} . Journal of Physics and Chemistry of Solids, 2002, 63, 2243-2246. | 4.0 | 1 |
| 81 | 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 |
| 82 | A Chiral 3D Silver(I)-Benzenedithiolate Coordination Polymer exhibiting Photoemission and Non Linear Optical Response. Chemical Communications, 0, , . | 4.1 | 3 |