# Jean-Pascal Rueff

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8901911/publications.pdf

Version: 2024-02-01

| 172 | 5,445 | 81743 | 95083 |
|---|---|---|---|
| papers | citations | 39 h-index | 68 g-index |

| 176 | 176 | 176 | 5949 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Iron Partitioning in Earth's Mantle: Toward a Deep Lower Mantle Discontinuity. Science, 2003, 300, 789-791. | 6.0 | 483 |
| 2 | Electronic Transitions in Perovskite: Possible Nonconvecting Layers in the Lower Mantle. Science, 2004, 305, 383-386. | 6.0 | 354 |
| 3 | Pressure-Induced High-Spin to Low-Spin Transition in FeS Evidenced by X-Ray Emission Spectroscopy. Physical Review Letters, 1999, 82, 3284-3287. | 2.9 | 178 |
| 4 | Magnetism in FeO at Megabar Pressures from X-Ray Emission Spectroscopy. Physical Review Letters, 1999, 83, 4101-4104. | 2.9 | 175 |
| 5 | Temperature- and pressure-induced spin-state transitions inLaCoO3. Physical Review B, 2006, 73, . | 1.1 | 165 |
| 6 | Inelastic x-ray scattering by electronic excitations under high pressure. Reviews of Modern Physics, 2010, 82, 847-896. | 16.4 | 165 |
| 7 | A microscopic view on the Mott transition in chromium-doped V2O3. Nature Communications, 2010, 1, 105. | 5.8 | 129 |
| 8 | The GALAXIES beamline at the SOLEIL synchrotron: inelastic X-ray scattering and photoelectron spectroscopy in the hard X-ray range. Journal of Synchrotron Radiation, 2015, 22, 175-179. | 1.0 | 127 |
| 9 | Hybridization-controlled charge transfer and induced magnetism at correlated oxide interfaces. Nature Physics, 2016, 12, 484-492. | 6.5 | 122 |
| 10 | New Spectroscopy Solves an Old Puzzle: The Kondo Scale in Heavy Fermions. Physical Review Letters, 2002, 88, 196403. | 2.9 | 108 |
| 11 | Understanding the Electronic Structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>IrO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Hard-X-ray Photoelectron Spectroscopy and Density-Functional Theory. Physical Review Letters, 2014, 113, 117601. | 2.9 | 107 |
| 12 | Hard X-ray photoelectron spectroscopy on the GALAXIES beamline at the SOLEIL synchrotron. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 188-192. | 0.8 | 94 |
| 13 | Probing theÎ³â^'Îµ Transition in Bulk Ce under Pressure: A Direct Investigation by Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2006, 96, 237403. | 2.9 | 84 |
| 14 | Magnetic and structuralÎ±â^'Îµphase transition in Fe monitored by x-ray emission spectroscopy. Physical Review B, 1999, 60, 14510-14512. | 1.1 | 79 |
| 15 | Vanadium Doping Enhanced Electrochemical Performance of Molybdenum Oxide in Lithiumâ€ion Batteries. Advanced Functional Materials, 2019, 29, 1805227. | 7.8 | 79 |
| 16 | Valence state of Mn in Ca-dopedLaMnO3studied by high-resolutionMnKÎ²emission spectroscopy. Physical Review B, 1999, 60, 4665-4674. | 1.1 | 73 |
| 17 | Pressure-Induced Valence Crossover in Superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>CeCu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>Si</mml:mi><mml:mi> Physical Review Letters, 2011, 106, 186405. | 2.9 | 72 |
| 18 | Metalâ€Insulator Transition in ALD VO<sub>2</sub> Ultrathin Films and Nanoparticles: Morphological Control. Advanced Functional Materials, 2015, 25, 679-686. | 7.8 | 70 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Inequivalent Routes across the Mott Transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="bold">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="bold">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Explored by X-Ray Absorption. Physical Review Letters, 2010, 104, 047401. | 2.9 | 66 |
| 20 | Magnetism of Invar alloys under pressure examined by inelastic x-ray scattering. Physical Review B, 2001, 63, . | 1.1 | 64 |
| 21 | Pressure induced magnetic transition in siderite FeCO3studied by x-ray emission spectroscopy. Journal of Physics Condensed Matter, 2007, 19, 386206. | 0.7 | 63 |
| 22 | Momentum dependence of fluorineK-edge core exciton in LiF. Physical Review B, 2002, 65, . | 1.1 | 62 |
| 23 | Determination of pressure-induced valence changes inYbAl2by resonant inelastic x-ray emission. Physical Review B, 2003, 68, . | 1.1 | 60 |
| 24 | FeKpre-edges as revealed by resonant x-ray emission. Physical Review B, 2004, 69, . | 1.1 | 59 |
| 25 | Localized and Delocalized Excitons: Resonant Inelastic X-Ray Scattering inLa2â^'xSrxNiO4andLa2â^'xSrxCuO4. Physical Review Letters, 2006, 96, 157004. | 2.9 | 55 |
| 26 | Quasiparticles at the Mott Transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>: Wave Vector Dependence and Surface Attenuation. Physical Review Letters, 2009, 102, 066805. | 2.9 | 55 |
| 27 | f-State Occupancy at theÎ³â^Î±Phase Transition of Ce-Th and Ce-Sc Alloys. Physical Review Letters, 2004, 93, 067402. | 2.9 | 52 |
| 28 | Phonon dispersion curves in an argon single crystal at high pressure by inelastic x-ray scattering. Physical Review B, 2001, 63, . | 1.1 | 50 |
| 29 | Ultrafast evolution and transient phases of a prototype out-of-equilibrium Mottâ€“Hubbard material. Nature Communications, 2017, 8, 13917. | 5.8 | 50 |
| 30 | Modified Oxygen Defect Chemistry at Transition Metal Oxide Heterostructures Probed by Hard X-ray Photoelectron Spectroscopy and X-ray Diffraction. Chemistry of Materials, 2018, 30, 3359-3371. | 3.2 | 48 |
| 31 | Electronic properties of transition-metal oxides under high pressure revealed by x-ray emission spectroscopy. Journal of Physics Condensed Matter, 2005, 17, S717-S726. | 0.7 | 47 |
| 32 | Metal-Ligand Interplay in Strongly Correlated Oxides: A Parametrized Phase Diagram for Pressure-Induced Spin Transitions. Physical Review Letters, 2007, 98, 196404. | 2.9 | 47 |
| 33 | Understanding the Complex Phase Diagram of Uranium: The Role of Electron-Phonon Coupling. Physical Review Letters, 2011, 107, 136401. | 2.9 | 47 |
| 34 | A new method for assessing the recyclability of powders within Powder Bed Fusion process. Materials Characterization, 2020, 161, 110167. | 1.9 | 46 |
| 35 | Dynamical reconstruction of the exciton in LiF with inelastic x-ray scattering. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 12159-12163. | 3.3 | 45 |
| 36 | Unified understanding of the valence transition in the rare-earth monochalcogenides under pressure. Physical Review B, 2013, 87, . | 1.1 | 45 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Atomic Auger Doppler effects upon emission of fast photoelectrons. Nature Communications, 2014, 5, 4069. | 5.8 | 44 |
| 38 | Iron Under Pressure: â€œKohn Tweezersâ€•and Remnant Magnetism. Physical Review Letters, 2011, 106, 247201. | 2.9 | 42 |
| 39 | Direct Observation of Double-Core-Hole Shake-Up States in Photoemission. Physical Review Letters, 2015, 114, 093001. | 2.9 | 41 |
| 40 | Charge transfer at very high pressure in NiO. Physical Review B, 2003, 67, . | 1.1 | 40 |
| 41 | Rare-earth contributions to the x-ray magnetic circular dichroism at the CoKedge in rare-earthâ€“cobalt compounds investigated by multiple-scattering calculations. Physical Review B, 1998, 58, 12271-12281. | 1.1 | 39 |
| 42 | Spin-state-driven metal-insulator transition in(La,Sr)CoO3under high-pressure. Physical Review B, 2007, 75, . | 1.1 | 39 |
| 43 | Depth Profiling Charge Accumulation from a Ferroelectric into a Doped Mott Insulator. Nano Letters, 2015, 15, 2533-2541. | 4.5 | 38 |
| 44 | Carbon speciation in organic fossils using 2D to 3D x-ray Raman multispectral imaging. Science Advances, 2019, 5, eaaw5019. | 4.7 | 35 |
| 45 | Observation of Distinct Bulk and Surface Chemical Environments in a Topological Insulator under Magnetic Doping. Journal of Physical Chemistry C, 2014, 118, 12333-12339. | 1.5 | 33 |
| 46 | Effective inelastic scattering cross-sections for background analysis in HAXPES of deeply buried layers. Applied Surface Science, 2017, 402, 78-85. | 3.1 | 33 |
| 47 | CeRu4Sn6: a strongly correlated material with nontrivial topology. Scientific Reports, 2016, 5, 17937. | 1.6 | 32 |
| 48 | Resonant inelastic x-ray scattering at the lanthanumL3edge. Physical Review B, 2002, 66, . | 1.1 | 30 |
| 49 | Valence state ofTminTmX(X=S,Se,Te)investigated by resonant inelastic x-ray scattering. Physical Review B, 2005, 72, . | 1.1 | 30 |
| 50 | Pressure-induced<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi></mml:math>-electron delocalization in the U-based strongly correlated compounds<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">U</mml:mi><mml:msub><mml:mi mathvariant="normal">Pd</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathv. Phys | 1.1 | 30 |
| 51 | K-edge x-ray absorption spectra in transition-metal oxides beyond the single-particle approximation: Shake-up many-body effects. Physical Review B, 2012, 86, . | 1.1 | 30 |
| 52 | Revisiting the origin of satellites in core-level photoemission of transparent conducting oxides: The case of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SnO</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2018, 97, . | 1.1 | 30 |
| 53 | Core-hole-clock spectroscopies in the tender x-ray domain. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124031. | 0.6 | 29 |
| 54 | Lithium borate crystals and glasses: How similar are they? A non-resonant inelastic X-ray scattering study around the B and O K -edges. Journal of Non-Crystalline Solids, 2017, 472, 1-8. | 1.5 | 28 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Pressure-Induced Valence Anomaly in TmTe Probed by Resonant Inelastic X-Ray Scattering. Physical Review Letters, 2008, 101, 127401. | 2.9 | 27 |
| 56 | Noninvasive Synchrotron-Based X-ray Raman Scattering Discriminates Carbonaceous Compounds in Ancient and Historical Materials. Analytical Chemistry, 2017, 89, 10819-10826. | 3.2 | 27 |
| 57 | Detecting Non-bridging Oxygens: Non-Resonant Inelastic X-ray Scattering in Crystalline Lithium Borates. Inorganic Chemistry, 2014, 53, 10903-10908. | 1.9 | 26 |
| 58 | Absence of orbital rotation in superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CeCu</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>Si<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 91, . | 1.1 | 26 |
| 59 | Structure and evolution of semiconducting buffer graphene grown on SiC(0001). Physical Review B, 2017, 96, . | 1.1 | 26 |
| 60 | Band Gap Renormalization, Carrier Multiplication, and Stark Broadening in Photoexcited Black Phosphorus. Nano Letters, 2019, 19, 488-493. | 4.5 | 26 |
| 61 | Valence instability of YbCu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Si<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>through its magnetic quantum critical point. Physical Review B, 2012, 86, . | 1.1 | 25 |
| 62 | Role of Oxygen Deposition Pressure in the Formation of Ti Defect States in TiO<sub>2</sub>(001) Anatase Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 23099-23106. | 4.0 | 25 |
| 63 | Resonant x-ray emission spectroscopy at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>L</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>edge of americium up to 23 GPa. Physical Review B, 2010, 82, . | 1.1 | 24 |
| 64 | Local environment of arsenic in sulfide minerals: insights from high-resolution X-ray spectroscopies, and first-principles calculations at the As K-edge. Journal of Analytical Atomic Spectrometry, 2018, 33, 2070-2082. | 1.6 | 24 |
| 65 | Charge-transfer effect in hard x-ray<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mi>s</mml:mi></mml:mrow></mml:math>/<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>p</mml:mi></mml:mrow></mml:math>spectra:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>LDA</mml:mi><mml:mo>+</mml:mo><mml:mi>DMFT</mml:mi></mml:math>cluster-model analysis. Physical Review B, 2019, 100, . | 1.1 | 24 |
| 66 | The GALAXIES inelastic hard X-ray scattering end-station at Synchrotron SOLEIL. Journal of Synchrotron Radiation, 2019, 26, 263-271. | 1.0 | 23 |
| 67 | Phonon anomalies at the valence transition of SmS: An inelastic x-ray-scattering study under pressure. Physical Review B, 2002, 66, . | 1.1 | 22 |
| 68 | Evolution of the electronic structure of a Mott system across its phase diagram: X-ray absorption spectroscopy study of (V<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 237 T | 1.1 | 22 |
| 69 | xmlns:mml="http://www.w3.org/1998/Math 1s3p Resonant Inelastic X-ray Scattering of Cobalt Oxides and Sulfides. Journal of Physical Chemistry C, 2016, 120, 24063-24069. | 1.5 | 22 |
| 70 | Interface properties and built-in potential profile of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mspace width="4pt" /><mml:mi>LaCr</mml:mi></mml:mrow><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>SrTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> superlattice determined by standing-wave excited photoemission spectroscopy. Physical Review B, 2018, | 1.1 | 22 |
| 71 | Electronic state-lifetime interference in resonant Auger spectra: a tool to disentangle overlapping core-excited states. Physical Chemistry Chemical Physics, 2016, 18, 15133-15142. | 1.3 | 20 |
| 72 | Magnetovolume effect, macroscopic hysteresis, and moment collapse in the paramagnetic state of cubic MnGe under pressure. Physical Review B, 2016, 93, . | 1.1 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Oxygen Impurities Link Bistability and Magnetoresistance in Organic Spin Valves. ACS Applied Materials & Interfaces, 2018, 10, 8132-8140. | 4.0 | 20 |
| 74 | Phonon softening inNaxCoO2âˆ™yH2O: Implications for the Fermi surface topology and the superconducting state. Physical Review B, 2006, 74, . | 1.1 | 19 |
| 75 | Electronic Properties ofBaFe2As2upon Doping and Pressure: The Prominent Role of the AspOrbitals. Physical Review Letters, 2015, 114, 177001. | 2.9 | 19 |
| 76 | Charge transfer at the metal-insulator transition in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>thin films by resonant inelastic x-ray scattering. Physical Review B, 2008, 77, . | 1.1 | 18 |
| 77 | Auger resonant-Raman study at the ArKedge as probe of electronic-state-lifetime interferences. Physical Review A, 2015, 91, . | 1.0 | 18 |
| 78 | Valence of YbS under pressure: A resonant inelastic x-ray emission study. Physical Review B, 2004, 70, . | 1.1 | 17 |
| 79 | Understanding mixed valent materials: Effects of dynamical core-hole screening in high-pressure x-ray spectroscopy. Physical Review B, 2006, 74, . | 1.1 | 16 |
| 80 | Composition dependence of spin transition in (Mg,Fe)SiO<sub>3</sub>bridgmanite. American Mineralogist, 2015, 100, 2246-2253. | 0.9 | 16 |
| 81 | Short-range magnetic collapse of Fe under high pressure at high temperatures observed using x-ray emission spectroscopy. Physical Review B, 2008, 78, . | 1.1 | 15 |
| 82 | HAXPES for Materials Science at the GALAXIES Beamline. Synchrotron Radiation News, 2018, 31, 4-9. | 0.2 | 15 |
| 83 | Kondo-Induced Giant Isotropic Negative Thermal Expansion. Physical Review Letters, 2020, 124, 125701. | 2.9 | 15 |
| 84 | X-ray Raman scattering from the carbon K edge in polymerized C60: experiment and theory. Journal of Physics Condensed Matter, 2002, 14, 11635-11641. | 0.7 | 14 |
| 85 | 1s2p Resonant Inelastic X-ray Scattering Magnetic Circular Dichroism as a probe for the local and non-local orbitals in CrO2. Journal of Electron Spectroscopy and Related Phenomena, 2018, 222, 74-87. | 0.8 | 14 |
| 86 | Atomic and itinerant effects at the transition-metal x-ray absorption<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math>pre-edge exemplified in the case of V<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>O<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml: | 1.1 | 13 |
| 87 | Operando hard X-ray photoelectron spectroscopy study of the Pt/Ru/PbZr0.52Ti0.48O3 interface. Applied Physics Letters, 2017, 111, . | 1.5 | 13 |
| 88 | Interface chemical and electronic properties of LaAlO3/SrVO3 heterostructures. Journal of Applied Physics, 2018, 123, . | 1.1 | 13 |
| 89 | Electronic structure of the dilute magnetic semiconductor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">G</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>âˆ’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">M</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">P | 1.1 | 13 |
| 90 | Spectroscopy of buried states in black phosphorus with surface doping. 2D Materials, 2020, 7, 035027. | 2.0 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Temperature and field-induced magnetization flips in amorphous Erâ€“Fe alloys evidenced by x-ray magnetic circular dichroism. Journal of Applied Physics, 1996, 79, 6497. | 1.1 | 12 |
| 92 | Magnetic phase diagram of an amorphous Erâ€“Fe alloy studied by X-ray magnetic circular dichroism. Journal of Electron Spectroscopy and Related Phenomena, 1997, 86, 165-173. | 0.8 | 12 |
| 93 | Anomalous lattice properties of the heavy fermion compound CeRu2Si2: an X-ray scattering investigation. Solid State Communications, 2001, 118, 473-477. | 0.9 | 12 |
| 94 | Low-energy excitations in strongly correlated materials: A theoretical and experimental study of the dynamic structure factor in V2O3. Physical Review B, 2012, 86, . | 1.1 | 12 |
| 95 | A RIXS cookbook: Five recipes for successful RIXS applications. Journal of Electron Spectroscopy and Related Phenomena, 2013, 188, 10-16. | 0.8 | 12 |
| 96 | Auger resonant-Raman decay after XeL-edge photoexcitation. Physical Review A, 2015, 92, . | 1.0 | 12 |
| 97 | Epsilon iron as a spin-smectic state. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20280-20285. | 3.3 | 12 |
| 98 | Effects of spin-dependent spectral weight on magnetic circular x-ray dichroism: Applications toR(NixCo1â^'x)5intermetallic compounds. Physical Review B, 1995, 51, 15957-15963. | 1.1 | 11 |
| 99 | Characterization of free-standing InAs quantum membranes by standing wave hard x-ray photoemission spectroscopy. APL Materials, 2018, 6, . | 2.2 | 11 |
| 100 | Resistive switching in a LaMnO3â€‰+â€‰Î´/TiN memory cell investigated by operando hard X-ray photoelectron spectroscopy. Journal of Applied Physics, 2019, 126, 225302. | 1.1 | 11 |
| 101 | Evidence for Collective Nonlinear Interactions in X Ray into Ultraviolet Parametric Down-Conversion. Physical Review Letters, 2019, 122, 023902. | 2.9 | 11 |
| 102 | Lithium Borates from the Glass to the Melt: A Temperature-Induced Structural Transformation Viewed from the Boron and Oxygen Atoms. Inorganic Chemistry, 2021, 60, 798-806. | 1.9 | 11 |
| 103 | Valence measurement of Mn oxides using Mn KÎ² emission spectroscopy. Journal of Physics and Chemistry of Solids, 2000, 61, 457-460. | 1.9 | 10 |
| 104 | Plasmon dispersion in metallic lithiumâ€“ammonia solutions. Journal of Electron Spectroscopy and Related Phenomena, 2001, 120, 113-119. | 0.8 | 10 |
| 105 | Intermediate valence behaviour under pressure: how precisely can we probe it by means of resonant inelastic x-ray emission?. Journal of Physics Condensed Matter, 2005, 17, S849-S858. | 0.7 | 10 |
| 106 | Emergent high-spin state above 7 GPa in superconducting FeSe. Physical Review B, 2018, 97, . | 1.1 | 10 |
| 107 | Hard x-ray photoelectron spectroscopy study of copper formation by metal salt inclusion in a polymer film. Journal Physics D: Applied Physics, 2019, 52, 435301. | 1.3 | 10 |
| 108 | Ultrafast dynamics of hot carriers in a quasiâ€“two-dimensional electron gas on InSe. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21962-21967. | 3.3 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | X-ray magnetic circular dichroism at the Gd L edges in Gd-Ni-Co amorphous systems. Physical Review B, 1997, 55, 3063-3070. | 1.1 | 9 |
| 110 | Electronic transitions of iron in almandine-composition glass to 91 GPa. American Mineralogist, 2016, 101, 1659-1667. | 0.9 | 9 |
| 111 | Ultrafast Charge Transfer Processes Accompanying <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi><mml:mi>L</mml:mi><mml:mi>L</mml:mi></mml:math> Auger Decay in Aqueous KCl Solution. Physical Review Letters, 2017, 119, 263003. | 2.9 | 9 |
| 112 | Hard x-ray standing-wave photoemission insights into the structure of an epitaxial Fe/MgO multilayer magnetic tunnel junction. Journal of Applied Physics, 2019, 126, 075305. | 1.1 | 9 |
| 113 | Sodium ion and vacancy charge ordering in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Na</mml:mtext></mml:mrow><mml:mi>x</mml:mi></mml:msub> width="0.3em" | | |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Two-dimensional electron systems in perovskite oxide heterostructures: Role of the polarity-induced substitutional defects. Physical Review Materials, 2020, 4, . | 0.9 | 7 |
| 128 | Magnetic Transitions in Fe 3 Pt Invar Alloy Under High Pressure and Temperature Studied by Inelastic X-ray Scattering. High Pressure Research, 2002, 22, 53-56. | 0.4 | 6 |
| 129 | Magnetism under Pressure with Synchrotron Radiation. Lecture Notes in Physics, 2006, , 375-399. | 0.3 | 6 |
| 130 | Stability of the Fe electronic structure through temperature-, doping-, and pressure-induced transitions in the BaFe2As2superconductors. Physical Review B, 2012, 86, . | 1.1 | 6 |
| 131 | The All-Seeing Eye of Resonant Auger Electron Spectroscopy: A Study on Aqueous Solution Using Tender X-rays. Journal of Physical Chemistry Letters, 2018, 9, 4457-4462. | 2.1 | 6 |
| 132 | Unified treatment of recoil and Doppler broadening in molecular high-energy photoemission. New Journal of Physics, 2021, 23, 063077. | 1.2 | 6 |
| 133 | X-ray emission spectroscopy study of the Verwey transition in Fe3O4. Journal of Physics Condensed Matter, 2003, 15, 2017-2022. | 0.7 | 5 |
| 134 | (p,T,H) Phase Diagram of Heavy Fermion Systems: Some Systematics and Some Surprises from Ytterbium. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1775-1780. | 0.8 | 5 |
| 135 | Possible evidence for high-pressure induced charge transfer in thallium rhenium oxide at room temperature. Physical Review B, 2015, 92, . | 1.1 | 5 |
| 136 | Intermediate valence in single crystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Yb</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:mrow></mml:math>Physical Review B, 2018, 98, . | 1.1 | 5 |
| 137 | X-ray Raman Scattering: A Hard X-ray Probe of Complex Organic Systems. Chemical Reviews, 2022, 122, 12977-13005. | 23.0 | 5 |
| 138 | Large Solid Angle Spectrometer for Inelastic X-ray Scattering. AIP Conference Proceedings, 2007, , . | 0.3 | 4 |
| 139 | An Introduction to Inelastic X-Ray Scattering. Springer Proceedings in Physics, 2010, , 263-277. | 0.1 | 4 |
| 140 | New Design Concept for a High-Resolution In-Vacuum 4-Bounce Hard X-Ray Monochromator at the GALAXIES Beamline at the SOLEIL Synchrotron. Journal of Physics: Conference Series, 2013, 425, 052007. | 0.3 | 4 |
| 141 | Far-Zone Resonant Energy Transfer in X-ray Photoemission as a Structure Determination Tool. Journal of Physical Chemistry Letters, 2017, 8, 2730-2734. | 2.1 | 4 |
| 142 | Reply to: Ultrafast evolution and transient phases of a prototype out-of-equilibrium Mott-Hubbard material. Nature Communications, 2019, 10, 4035. | 5.8 | 4 |
| 143 | Spectroscopies and Electron Microscopies Unravel the Origin of the First Colour Photographs. Angewandte Chemie - International Edition, 2020, 59, 9113-9119. | 7.2 | 4 |
| 144 | Disentangling the chemistry of Australian plant exudates from a unique historical collection. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 3.3 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Buried Interfaces Effects in Ionic Conductive LaF<sub>3</sub>â€“SrF<sub>2</sub> Multilayers. Advanced Materials Interfaces, 2017, 4, 1600875. | 1.9 | 3 |
| 146 | Study of Pd/Y based multilayers using high energy photoemission spectroscopy combined with x-ray standing waves. Proceedings of SPIE, 2017, , . | 0.8 | 3 |
| 147 | Experimental setup for the study of resonant inelastic X-ray scattering of organometallic complexes in gas phase. Review of Scientific Instruments, 2018, 89, 063107. | 0.6 | 3 |
| 148 | Dynamical screening in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>SrVO</mml:mi></mml:mrow><mml:mn>3</ : Inelastic x-ray scattering experiments and ab initio calculations. Physical Review B, 2021, 103, . | 1.1 | 3 |
| 149 | Orbital contributions in the element-resolved valence electronic structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:m Physical Review B, 2021, 104, . | 2.1 | 3 |
| 150 | Electron Dynamics in Hybrid Perovskites Reveal the Role of Organic Cations on the Screening of Local Charges. Nano Letters, 2022, 22, 2065-2069. | 4.5 | 3 |
| 151 | Universal stripe order as a precursor of the superconducting phase in pressurized BaFe2Se3 Spin Ladder. Communications Physics, 2022, 5, . | 2.0 | 3 |
| 152 | Configuration interaction inL2,3-edge resonant inelastic x-ray scattering spectra ofCaF2andScAl2. Physical Review B, 2003, 67, . | 1.1 | 2 |
| 153 | f-Level occupancy in TmTe under pressure investigated by high-resolution X-ray absorption spectroscopy. Physica B: Condensed Matter, 2006, 378-380, 1154-1155. | 1.3 | 2 |
| 154 | High pressure electronic properties in the light of inelastic X-ray scattering. European Physical Journal: Special Topics, 2009, 169, 215-220. | 1.2 | 2 |
| 155 | Electronic correlations in V<sub>2</sub>O<sub>3</sub>studied with K-edge X-ray absorption spectroscopy. Journal of Physics: Conference Series, 2009, 190, 012092. | 0.3 | 2 |
| 156 | Multiple pre-edge structures in Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>K</mml:mi></mml:math>-edge x-ray absorption spectra of high-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub></mml:mrow></mml:math>cuprate revealed by high-resolution x-ray absorption spectroscopy. Physical Review B, 2010, 81, . | 1.1 | 2 |
| 157 | Spin transition in SrFeO2 under pressure by x-ray spectroscopy. Physical Review B, 2020, 102, . | 1.1 | 2 |
| 158 | Ultrafast electron energy-dependent delocalization dynamics in germanium selenide. Communications Physics, 2021, 4, . | 2.0 | 2 |
| 159 | Pressure evolution of the electronic structure of non-centrosymmetric EuRhGe3. Electronic Structure, 2021, 3, 034002. | 1.0 | 2 |
| 160 | Direct Evidence of the Existence of Field-Induced Canted Sperimagnets Detected by X-Ray Magnetic Circular Dichroism. European Physical Journal Special Topics, 1997, 7, C2-397-C2-400. | 0.2 | 1 |
| 161 | XMCD at the CoK-edge in RCo2intermetallics: influence of the rare earths. Journal of Synchrotron Radiation, 1999, 6, 676-678. | 1.0 | 1 |
| 162 | Low-energy excitations in NaxCoO2Â·yH2O: Experiments and simulation. Nuclear Instruments & Methods in Physics Research B, 2006, 246, 165-169. | 0.6 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Comparison between measured and simulated X-ray flux from different undulators at SOLEIL. Journal of Physics: Conference Series, 2013, 425, 032015. | 0.3 | 1 |
| 164 | RIXS in correlated electron systems under extreme conditions. High Pressure Research, 2016, 36, 371-380. | 0.4 | 1 |
| 165 | Resonant inelastic x-ray scattering study of doping and temperature dependence of low-energy excitations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">La</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow><mml:mi mathvariant="normal">Sr</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">VO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math> thin films. Physical Review B, 2021, 103, . | 1.1 | 1 |
| 166 | Nouvelles spectroscopies Raman X du carbone pour les matÃ©riaux anciens. , 2019, , 22-25. | 0.1 | 1 |
| 167 | XMCD AT THE 3d METAL K-EDGE IN RARE EARTH-TRANSITION METAL ALLOYS: INFLUENCE OF THE RARE EARTH. , 2000, , . | | 0 |
| 168 | Actinide Response under Pressure Probed by Inelastic X-ray Scattering. Materials Research Society Symposia Proceedings, 2012, 1444, 251. | 0.1 | 0 |
| 169 | Double core-hole states in SiX4 (X = F, Cl, Br, and CH3) molecules derived by photoelectron and KLL Auger spectroscopy. Journal of Physics: Conference Series, 2015, 635, 112057. | 0.3 | 0 |
| 170 | Spectroscopies and Electron Microscopies Unravel the Origin of the First Colour Photographs. Angewandte Chemie, 2020, 132, 9198-9204. | 1.6 | 0 |
| 171 | Depth profile reconstruction of YCrO3/CaMnO3 superlattices by near total reflection hard x-ray photoelectron spectroscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, 053204. | 0.9 | 0 |
| 172 | Effects of Spin-Dependent Spectral Weight on Magnetic Circular X-Ray Dichroism: Application to R(Ni<sub>x</sub>Co<sub>1-x</sub>)<sub>5</sub>Intermetallic Compounds. European Physical Journal Special Topics, 1997, 7, C2-447-C2-448. | 0.2 | 0 |