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Recent Publications by PAUL SCHERRER INSTITUT:



- [Rashba-type spin-orbit splitting of quantum well States in ultrathin pb films.](#)
A Rashba-type spin-orbit splitting is found for quantum well states formed... 31st December, 2008
Physik-Institut, Universitat Zurich, Winterthurerstrasse 190, CH-8057- Phys Rev Lett. 2008 Dec 31;101(26):266802. Epub 2008 Dec 24.
- [Evidence for a Competition between the Superconducting State and the Pseudogap State of \(BiPb\)₂\(SrLa\)₂CuO_{6+delta} from Muon Spin Rotation Experiments.](#)
The in-plane magnetic penetration depth λ_{ab} in optimally doped... 31st December, 2008
Laboratory for Muon Spin Spectroscopy, Paul Scherrer Institut, CH-5232- Phys Rev Lett. 2008 Nov 28;101(22):227002. Epub 2008 Nov 24.

- [A Geiger-mode avalanche photodiode array for X-ray photon correlation spectroscopy.](#)
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Paul Scherrer Institut, 5232 Villigen PSI, Switzerland.- *J Synchrotron Radiat.* 2009 Jan;16(Pt 1):105-9.
Epub 2008 Nov 21. ([DOI Direct Link](#))
- [A Multiple Working Electrode for Electrochemical Cells: A Tool for Current Density Distribution Studies.](#)
*X-ray photon correlation spectroscopy (XPCS) provides an opportunity to...*17th December, 2008
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Dec 15;48(3):528-532. ([DOI Direct Link](#))
- [Structure of confined fluids by x-ray interferometry using diffraction gratings.](#)
*We develop a novel method for structure determination of confined fluids...*10th December, 2008
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- [PoLux: a new facility for soft x-ray spectromicroscopy at the Swiss Light Source.](#)
*We report on the successful installation and operation of a scanning...*3rd December, 2008
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- [Translational diffusion of water and its dependence on temperature in charged and uncharged clays: A neutron scattering study.](#)
*The water diffusion in four different, highly compacted clays...*3rd December, 2008
Laboratory for Waste Management, Paul Scherrer Institut, CH-5232 Villigen- *J Chem Phys.* 2008 Nov
7;129(17):174706. ([DOI Direct Link](#))
- [Single-ion anisotropy and exchange interactions in the cyano-bridged trimers \$Mn^{III}2M^{III}\(CN\)_6\$ \(\$M^{III} = Co, Cr, Fe\$ \) species incorporating \$\[Mn\(5-Brsalen\)\]^+\$ units: an inelastic neutron scattering and magnetic susceptibility study.](#)
*The electronic structures of the compounds...*28th November, 2008
Laboratory for Neutron Scattering, ETH Zurich and Paul Scherrer Institut,- *Inorg Chem.* 2009 Jan
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- [Characterization of TIC110, a channel-forming protein at the inner envelope membrane of chloroplasts, unveils a response to \$Ca^{2+}\$ and a stromal regulatory disulfide bridge.](#)
*Tic110 has been proposed to be a channel-forming protein at the inner...*7th November, 2008
Paul Scherrer Institut, Villigen CH-5092.- *J Biol Chem.* 2008 Nov 5. ([DOI Direct Link](#))
- [Quantitative Analysis of Scanning Transmission X-ray Microscopy Images of Gas-Filled PVA-Based Microballoons.](#)
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Physikalische Chemie II, Universitat Bayreuth, Universitätsstrasse 10,- *Langmuir.* 2008 Nov 4. ([DOI Direct Link](#))
- [A feasibility study on the use of \$Li\(4\)V\(3\)O\(8\)\$ as a high capacity cathode material for lithium-ion batteries.](#)
 *$Li(4)V(3)O(8)$ materials have been prepared by chemical lithiation by...*4th November, 2008
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Department Nuclear Energy and Safety, Paul Scherrer Institut, 5232- *Talanta.* 2006 Jan
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- [Thorium colloid analysis by single particle inductively coupled plasma-mass spectrometry.](#)
*Thorium colloid analysis in water has been carried out by a single...*31st October, 2008
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- [New Technique Allows Real-Time Observation Of Molecules During Chemical Reactions](#)
Medical News Today: Dec 15 2008 11:06AM Matching: paul scherrer institut
- [Molecules in the spotlight](#)
Genetic Engineering News: Dec 12 2008 4:09PM Matching: paul scherrer institut

PAUL SCHERRER INSTITUT Patents:



- 7459614- [Method for generating an artificially patterned substrate for stimulating the crystallation of a biomolecule thereon and method for stimulating the crystallization of biomolecules](#)
- 5442169- [Method and apparatus for determining a measuring variable by means of an integrated optical sensor module](#)
- 5656386- [Electrochemical cell with a polymer electrolyte and process for producing these polymer electrolytes](#)
- 5991480- [Process and device for measuring light beams](#)
- 6515898- [Memory element, method for structuring a surface, and storage device](#)
- 6737760- [Method for negative feedback controlling electrical power and negative feedback controlled power supply](#)
- 6814694- [Device for carrying out proton therapy](#)
- 6819588- [Memory element, method for structuring a surface, and storage device](#)
- 6956333- [Hot electron emission array for e-beam photolithography and display screens](#)
- 7078335- [Formation of self-organized stacked islands for self-aligned contacts of low dimensional structures](#)
- 7337799- [Gaseous fuel vehicle and automatic vent system](#)
- 7348579- [Arrangement for performing proton therapy](#)
- 7383903- [Electrical power train for a vehicle, comprising an electrical dissipation element cooled by cooling liquid](#)
- 7404461- [Electrical power train for a fuel cell vehicle, comprising an electrical dissipation element](#)
- 5093073- [Process for the decontamination of surfaces](#)

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