



DESY Photon Science Users' Meeting 2023 European XFEL Users' Meeting 2023

Jointly organized Users' Meeting of
DESY Photon Science and European XFEL



POSTER LIST

Poster Session Topics

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2. Pump–probe capabilities at SPB/SFX, European XFEL
J. Koliyadu, R. Letrun, J. Liu, M. Jiang, M. Emons, T. Dietze, N. Reimers, R. Bean and T. Sato
3. Tracking the origin of the MnAs magneto-structural phase transitions in the time-domain using femtosecond X-ray diffraction
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4. High Energy X-ray Emission spectrometer with Laue analyzer
X. Huang, F. Lima and C. Milne
5. Numerical Simulation of SFX Sample Delivery Systems
B. Šarler, S. Bajt, H. Chapman, B. Mavrič, K. Kovačič, K. Bakhat Rana, Z. Rek, G. Savšek, R. Zahoor and B. Zupan
6. Atomic structure of recombinant high potential iron sulfur protein in its reduced and oxidized states revealed by serial femtosecond crystallography
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7. Mix-and-Inject Sample Delivery Systems for Time-resolved Serial Crystallography
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8. Rapid structural transformations in Fe after sub-ps pulsed laser annealing
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9. Two-dimensional energy and carrier diffusion in silicon upon X-ray irradiation
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10. MS SPIDOC: Coherent Diffractive Imaging of proteins and viral capsids
T. Kierspel, A. Kádek, J.C.K. Kung, T. Damjanović and C. Utrecht
11. Ultrafast melting of optically excited thin polycrystalline palladium films
J. Antonowicz, P. Zalden, K. Sokolowski-Tinten, A. Olczak, I. Milov, C. Bressler, M. Chojnacki, P. Dziegielewski, G. Evangelakis, A.R. Fernandez, K. Fronc, W. Gawelda, K. Georgarakis, A.L. Greer, I. Jacyna, R.W.E. van de Kruijs, R. Kaminski, D. Khakhulin, D. Klinger, K. Kosyl, K. Kubicek, N. Panagiotopoulos, M. Sikora, P. Sun, H. Yousef and R. Sobierajski
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13. Reference-enhanced Single Particle Imaging
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14. A brief overview of FEA/CFD simulations at European XFEL
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15. Hardware Acceleration for Data Processing at Synchrotrons and FELs
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22. Deep learning image reconstruction approaches towards MHz X-ray microscopy
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23. Performance analysis of x-ray Optical Delay Line at European XFEL
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24. First high energy and temporal resolution pump probe RIXS at the EuXFEL
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25. Structural dynamics of ferroelectric thin films
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26. Using fast jets as liquid sample delivery for femtosecond pump-probe experiments at the FXE instrument: A blessing and a curse of the MHz rates
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27. Probing broadband multi-THz coherent phonons in SrTiO₃ and Si on a crystal truncation rod with femtosecond X-ray diffraction
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28. Probing protein diffusion with X-ray Photon Correlation Spectroscopy at European XFEL
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29. Modelling of ultrafast X-ray induced magnetization dynamics in magnetic systems
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30. THz SASE FEL at PITZ as a prototype of a tunable THz source for pump-probe experiments at the European XFEL
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31. Programmable DNA-Origami Molecular Scaffolds for Holographic Single-Particle Diffractive Imaging with XFEL Pulses
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32. Phase transition kinetics and surface morphology in femtosecond laser-heated metals
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34. Online dynamic flat-field correction for MHz XFEL microscopy
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35. Multiple-core-hole resonance spectroscopy with ultraintense x-ray pulses
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37. Photon shot-noise limited transient absorption soft X-ray spectroscopy at the European XFEL
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M. Turcato, B. Van Kuiken, H. Wende, A. Yaroslavtsev, J. Zhu, S. Molodtsov, Ch. David, M. Porro and A. Scherz

38. Selection and control of (bio-)nanoparticles with external fields
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39. A diamond channel cut monochromator for intense MHz repetition rate operation at EuXFEL: first experimental results
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40. Single-particle Diffractive Imaging at the European XFEL: Instrumentation, Data Acquisition and Hit-finding
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41. Scientific Data Management at European XFEL.
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Z. Konopková, Z. Kuglerová, N. Kujala, H. Lee, S. Makarov, M. Makita, T. Mazza, M. Meyer, L. Mikeš, B. Nagler, M. Nakatsutsumi, Y. Ovcharenko, S. Pikuz, T. Pikuz, T. R. Preston, A. Schropp, S. Usenko, P. Vagočík, V. Vozda, U. Zastrau and J. Chalupský

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59. Instrumentation development for Multi-Projection X-ray imaging at EuXFEL
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64. Investigating ultra-fast geminal recombination in aqueous octahedral metal-hexacyanides with the hRIXS instrument at SCS
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66. Future Laser-based Terahertz Light Sources at European XFEL
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III.2 FLASH

74. How to increase the efficiency of differential pumping
M. Degenhardt, M. Braune, S. Aref, F. Jastrow, M. Brachmanski and K. Tiedtke
75. Site-selective probing of ultrafast non-adiabatic photochemistry in CS_2
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L. Wenthaus, N. Kabachnik, M. Borgwardt, S. Palutke, D. Kutnyakhov, F. Pressacco, M. Scholz, D. Potorochin, N. Wind, S. Düsterer, G. Brenner, O. Gessner, S. Molodtsov, W. Eberhardt and F. Roth
77. Ultra-broadband miniature FTIR spectrometer for characterization of IR and THz sources
E. Zapolnova, E. Jung S.-G. Gang and R. Pan

78. Single-shot temporal characterization of XUV FEL@FLASH
M. Bidhendi, R. Ivanov, I. Bermudez, J. Rönsch-Schulenburg, M. Vogt, M. V. Yurkov and S. Düsterer
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N. Stojanovic, Y. Ha, J. Petrovic, M. Rabasovic, A. Krmpot and M. Gensch
80. Relaxation dynamics in Xenon dimers and trimers after XUV-photoionization at FLASH2
H. Lindenblatt, K. Schnorr, S. Augustin, S. Meister, F. Trost, P. Schoch, G. Schmid, Y. Liu, M. Braune, M. Kuhlmann, R. Treusch, C. Schröter, T. Pfeifer and R. Moshammer
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P. Niknejadi, D. Samoilenco, P. Amstutz, T. Lang, S. Ackermann, F. Pannek, G. Paraskaki, E. Ferrari, S. Schreiber and L. Schaper
82. Diagnostics and applications of THz radiation at FLASH1 after FLASH2020+
S. Gang, E. Zapolnova, M. Temme, E. Plönjes and R. Pan
83. FLASH2020+: SLASH a novel high power seed laser for two-color EEHG XUV/VUV FEL seeding
T. Lang, M.M. Kazemi, J. Zheng, S. Hartwell, N. Hoang, E. Ferrari, E. Allaria, L. Schaper and I. Hartl
84. Ultrafast photoinduced dynamics at the interface of water and anatase TiO₂(101)
M. Wagstaffe, A. Dominguez-Castro, L. Wenthaus, S. Palutke, D. Kutnyakhov, M. Heber, F. Pressacco, S. Dzierzhytski, H. Gleissner, V. Kristin Gupta, H. Redlin, A. Dominguez, T. Frauenheim, A. Rubio, H. Noei and A. Stierle
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J. Chalupský, V. Vozda, J. Hering, J. Kybic, T. Burian, S. Dzierzhytski, V. Hájková, Š. Jelínek, L. Juha, K. Juráňová, B. Keitel, Z. Kuglerová, M. Kuhlmann, B. Petryshak, M. Ruiz-Lopez, L. Vyšín, T. Wodzinsk and E. Plönjes
86. ML methods for an improved evaluation of FEL diagnostic data
G. Goetzke, G. Hartmann, S. Düsterer, F. Möller and C. Behrens
87. Climbing the N-shell resonance ladder of xenon
S. Palutke, M. Martins, S. Klumpp, K. Baev, M. Richter, T. Wagner, M. Kuhlmann, M. Ruiz-Lopez, M. Meyer and K. Tiedtke
88. Double electron spectrometer setup for time-resolved photoelectron spectroscopy at FELs
L. Wenthaus, S. Palutke, D. Kutnyakhov, H.D. Meyer, S. Gieschen and M. Martins
89. Direct observation of phonon-electron energy flow in laser-heated Nickel
V. Shokeen, X. Wang, A. Yaroslavtsev, D. Kutnyakhov, M. Heber, P. Maldonado, Peter M. Oppeneer, H.-J. Elmers, G. Schönhense, N. Wind, L. Wenthaus, F. Pressacco, Sanjoy K. Mahatha, K. Rossnagel and H.A. Dürr
90. Advanced Diagnostic Perspectives for FLASH 2020+
M. Ilchen, C. Behrens, I. Bermudez Macias, Y. Bican, M. Bidhendi, M. Braune, M. Degenhardt, S. Düsterer, G. Goetzke, R. Ivanov, F. Jastrow, V. Music, S. Palutke, C. Passow, S. Savio, W. Helml and K. Tiedtke
91. Investigation of the coherence properties of FEL radiation at FLASH2
R. Quenter, M. Dreimann, D. Eckermann, S. Roling, V. Kärcher, M. Wöstmann, T. Reiker, M. von Piechowski, P.G. Shine, F. Rosenthal, M. Kuhlmann, S. Toleikis, R. Treusch, E. Plönjes-Palm and H. Zacharias
92. Performance of the XUV and soft x-ray split-and-delay unit at FLASH2
M. Dreimann, F. Wahlert, D. Eckermann, F. Rosenthal, S. Roling, T. Reiker, M. Kuhlmann, S. Toleikis, M. Brachmanski, R. Treusch, E. Plönjes-Palm, B. Siemer and H. Zacharias
93. Ultrafast Photodynamics of N3 Dye on the Electron Collector TiO₂
J. Davies, Y. Zhang, H. Fielding and G. Thornton

94. Time-resolved energy-momentum microscopy using FEL and multispectral HHG radiation
N. Wind, M. Heber, D. Kutnyakhov, F. Pressacco and K. Rossnagel
95. A hard X-Ray Split-and-Delay Unit for the HED Instrument at the European XFEL
D. Eckermann, S. Roling, M. Rollnik, P. Gawlitza, K. Appel, L. Samoylova, H. Sinn, F. Siewert, T. Tschentscher, F. Wahlert and U. Zastrau und H. Zacharias
96. Time-resolved XPS study of charge carrier dynamics at the MnPc/C₆₀ heterointerface
D. Potorochin, L. Wenthaus, S. Palutke, D. Kutnyakhov, F. Pressacco, M. Scholz, N. Wind, M. Fraund, G. Brenner, O. Gessner, S. Molodtsov, W. Eberhardt and F. Roth

III.3 Other/external/theory

97. Recent developments in nanostructured X-ray optics in three, two and 2.5 dimensions
A. Kubec, J. Erjawetz, C. David and F. Döring
98. snip – digital lab book from a users' perspective
M. Osterhoff, Sebastian Mohr and S. Köster
99. Dynamical diffraction echoes as streaking method to image ultrafast processes
A. Rodriguez-Fernandez
100. Helmholtz Imaging
P. Heuser, D. Schmidt, F. Isensee, K. Sander and S. Krause-Solberg
101. The DESY NanoLab
H. Noei, T.F. Keller, V. Vonk, R. Röhlsberger and A. Stierle
102. Structural insight into the binding mode of sisomicin derivatives and gentamicin C2b to the decoding center of the 30S ribosomal subunit
E. Destan and H. DeMirci
103. Aqueous Solvation of Iodide - Structural dynamics observed by time resolved X ray solution scattering
V. Markmann, J. Pan and K. Haldrup
104. Theoretical description of X-ray absorption by laser-driven electronic system
T. Bezriadina and D. Popova-Gorelova
105. Shock-frozen beams of biomolecules and nanoparticles for single particle imaging
A. D. Estillore, J. He, L. Worbs, S. Kiran Peraval, A.K. Samanta and J. Küpper
106. Theoretical description of time- and momentum resolved photoelectron spectroscopy probing excited-state dynamics in molecular systems at FELs
M. Reuner, K. Baumgärtner, M. Scholz and D. Popova-Gorelova
107. The Centre for Molecular Water Science - CMWS
C. Goy, S. Bari, F. Lehmkühler and M. Schnell
108. Controlling Fragmentation of the Acetylene Cation in the Vacuum-Ultraviolet via Transient Molecular Alignment
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109. Development of X-ray mirrors for PAL-XFEL using differential deposition
J. Kim
110. Effects of antimicrobial SPLUNC1 peptide derivatives on efficacy, toxicity, and membrane interations
T. Jakkampudi, Q. Lin, S. Mitra, A. Vijai, W. Qin, A. Kang, J. Chen, E. Ryan, R. Wang, Y. Gong, F. Heinrich, Y. Peter Di and S. Tristram-Nagle

111. X-ray optics for nanometer imaging
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112. NFFA European piolet (NEP)
J. Dwivedi, T.F. Keller and A. Stierle
113. Correlative spectro-microscopy to follow the oxidation of PtRh core-shell nanoparticles
J. Dwivedi, L. Bachmann, A. Jeromin, T. F Keller and A. Stierle
114. Time-Delay and Chirp Compensation of Soft X-ray Pulses in the Water Window
C. Braig, C. Seifert and A. Erko
115. An X-ray compound reflection zone plate at 8.3 keV
H. Löchel, S. Vadilonga, C. Braig, A. Firsov, A. Svintsov, M. Brzhezinskaya, M. Wojcik, A. Macrander, L. Assoufid and A. Erko
116. Time-resolved Pair Distribution Function Measurements Resolving Ultrafast Structural Dynamics in CuIr₂S₄
J. Griffiths, A. Flavia, S. Marks, L. Wu, P. Evans, S. Boutet, V. Esposito, A. Tadesse, J. Mitchell, D. Keen, M. Dean, S. Billinge, E. Bozin and I. Robinson
117. Surface correlations of femtosecond laser excited Al-coated multilayers observed by grazing-incidence x-ray scattering
L. Randolph, M. Banjafar, T. Yabuuchi, C. Baehtz, E. Brambrink, M. Bussmann, N. P. Dover, S. Göde, G. Jakob, L. Huang, Y. Inubushi, J. Koga, A. Kon, M. Makita, N. Mamiko, M. Paulus, A. Pelka, T. R. Preston, C. Rödel, J.-P. Schwinkendorf, Y. Sentoku, K. Sueda, T. E. Cowan, M. Kläui, T. Kluge, C. Gutt and M. Nakatsutsumi
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N. Samadi, V. Guzenko and C. David
119. Dependence of the damage threshold on the in-situ temperature in materials under X-ray irradiation
N. Medvedev, Z. Kuglerová, M. Makita, J. Chalupský and L. Juha
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N. Ivanov, J.L. Dresselhaus, J. Carnis, M. Domaracky, H. Fleckenstein, C. Li, T. Li, M. Prascholou, O. Yefanov, W. Zhang, S. Bajt and H.N. Chapman
121. Imaging Ultrafast Chemical Dynamics
S. Trippel, I. Vinklárek, D. Koulentianos, H. Bromberger, A. Samartsev, W. Jin, M.S. Robinson, M. Singh, N. Vadassery and J. Küpper
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P. G. Heighway and J. S. Wark
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N. Nikishev and N. Medvedev
124. Bragg Coherent Modulation Imaging for Highly Strained Nanocrystals
J. Zhao, I. Vartaniants and F. Zhang
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A. Tosson, S. Timmermann, N. Das Anthuparambil, M. Dargasz and C. Gutt
126. On the feasibility of Time-resolved Powder X-ray diffraction of Macromolecules with low-flux laboratory based ultrafast X-ray sources
K.P. Khakurel

127. Ultrafast non-thermal melting of ice - from transient crystalline plasma to anisotropic melting
I. Dawod, K. Patra, S. Cardoch, O. Gränäs, H.O. Jönsson, A.V. Martin, J. Binns, J.A. Sellberg, A.P. Mancuso, N. Timneanu and C. Caleman
128. Speeding up X-ray-matter molecular dynamics simulation tool XMDYN with tree algorithms
M. Stransky, Z. Jurek, R. Santra, A. P. Mancuso and B. Ziaja
129. HMC Hub Matter
Luigia Cristiano, Gerrit Günther, Markus Kubin, Oonagh Mannix, Özlem Özkan, Gabriel Preuß, Mojeb Rahman Sedeqi, Vivien Serve and Pascal Walter
130. Exploring biomolecular properties in the gas phase by using advanced light sources
L. Pille, L. Schwob, B. Oostenrijk, J. Leroux, A. Nair and S. Bari
131. Using electrospray ionization and tandem mass spectrometry to study the structure and dynamics of biomolecules
A. Nair, L. Schwob, J. Leroux, L. Pille, B. Oostenrijk, A. Kotobi, C. Mahecha and S. Bari
132. The EuPRAXIA photon beams: ultra-bright light pulses for imaging and spectroscopy
F. Stellato on behalf of the EuPRAXIA collaboration
133. State Localization Perspective of Ionization Potential Depression
T. Gawne, P. Hollebon, G. Perez-Callejo, O. Humphries, J. Wark and S. Vinko
134. Using molecular dynamics to characterise the vaporisation of an x-ray heated metal near its critical temperature
D. Peake, P. Heighway and J. Wark
135. Under Pressure: High-Pressure Biology with MacCHESS at Cornell High Energy Synchrotron Source
J. Wierman, S. Meisburger, R. Gillilan, Q. Huang, Z. Wang and J. Ruff
136. XAS reference database under DAPHNE4NFDI
A. Gaur, S. Paripsa, F. Förste, D. Doronkin, W. Malzer, C. Schlesiger, J.-D. Grunwaldt, B. Kanngießer and D. Lützenkirchen-Hecht
137. Large scale sputter deposition at DESY - magnetic multilayers, targets, x-ray and laser optics
K. Schlage, A. Panchwanee, A. Siemens, M. Ramin Moayed, C. Adolff, L. Bocklage, J. Lütjens and R. Röhlsberger
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X. Pan, S. Sander, M. Šmíd, L. Huang, T. Kluge, V. Bagnoud, E. Brambrink, J. Colgan, T. Ebert, D. Hartnagel, M. Hesse, J. Hornung, A. Kleinschmidt, P. Perez-Martin, A. Neukirch, K. Philipp, G. Schaumann, A. Tebartz, B. Zielbauer, M. Roth and K. Falk
139. Challenges in the production of next generation optical elements with e-beam lithography
A. Fernández Herrero, S. Rehbein, A. Teichert, C. Braig, G. Gwalt, T. Krist, A. Erko and F. Siewert
140. Accurate data quality evaluation for serial crystallography
M. Galchenkova and O. Yefanov
141. Smart chips scanning for serial crystallography
M. Galchenkova, J. Mayer, A.R. Mashhour, P.Y.A. Reinke, H.N. Chapman and O. Yefanov
142. Ultrafast solvation dynamics of aqueous Cl, Br and I with optical and X-ray pump-probe method
Z. Nurekeyev, M. Sekkal, K. Kubicek and C. Bressler
143. Serial Femtosecond Crystallography with Deep Learning
D. Pennicard, H. Graafsma, S. Pala, R. Setty, V. Rahmani and S. Nawaz
144. Theoretical modeling of XFEL irradiated matter: from molecules to bulk systems
Z. Jurek, S. Banerjee, B. Richard and R. Santra

145. Chemical effects on the dynamics of organic molecules irradiated with high intensity x-rays
S. Banerjee, Z. Jurek, M. Muhammad Abdullah and R. Santra
146. Structural Dynamics Of Molecules With X-ray Spectroscopy And Simulations
L. Inhester
147. Efficient, pulse-train-based generation of high-energy, multicycle THz pulses for THz-driven electron acceleration and manipulation.
N.H. Matlis, Z. Zhang, C. Rentschler, Ü. Demirbas, M. Youssef, M. Pergament and F.X. Kärtner
148. Low-temperature cryostats for scientific applications
G. Yakopov, A. Goikhman and M. Yakopov
149. Inert gas glove boxes for scientific applications in particular for Li-ion battery production
D. Melnikov, A. Goikhman, G. Yakopov and M. Yakopov
150. Critical Step in the HCl Oxidation Reaction over single-crystalline CeO_{2-x}(111): Oxygen-Induced Site Change of Surface Chlorine
V. Koller, A. Spriewald-Luciano, S.M. Gericke, A. Larsson, C. Sack, A. Preobrajenski, E. Lundgren and H. Over
151. Electronic states in Moiré superlattices of TMDCs
C.H. Sharma, P. Zhao, J. Schmidt, L. Tiemann, M. Prada, L. Buß, N. Wind, M. Scholz, F. Diekmann, T. Taniguchi, K. Watanabe, A.D. Pandey, A. Stierle, K. Rossnagel and R.H. Blick
152. Optical Sensing using Incoherent Diffractive Imaging
T. Wollweber and K. Ayyer
153. UV and Mid-IR Photo-induced Dissociation Dynamics of Solvated (Bio)Molecular Complexes
M. Singh, M.S. Robinson, H. Bromberger, J. Onvlee, S. Trippel and J. Küpper
154. Research opportunities in photon science at the ELI Beamlines user facility
M. Precek, B. Angelov, S. Espinoza, M. Kloz, M. Krikunova, E. Klimesova, M. Rebarz, A. Zymakova and J. Andreasson
155. Valley selectivity in soft x-ray spectroscopy of monolayer transition metal dichalcogenides: Femtosecond XAS as a novel probe of topological properties of 2-dimensional systems
A. Geondzhian, A. Rubio and M. Altarelli
156. Calculations of molecular excited states using neural networks
Á. Fernández-Corral, Y. Saleh, A. Yachmenev and J. Küpper
157. Bulk plasma temperature determination in high intensity laser solid interaction by time resolved optical shadowgraphy
L. Yang, L. Huang, S. Assenbaum, C. Bernert, I. Goethel, T. Kluge, M. Rehwald, X. Pan, U. Schramm, J. Vorberger, K. Zeil and T. E. Cowan
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S. Günther, A. Tolstikova, M. Galchenkova, O. Yevanov, P. Reinke, H. Chapman, R. Henning, M. Levantino and A. Meents
159. 3D structure determination with 3 MeV relativistic electrons
A. Rodrigues, V. Hennicke, M. Hachmann, W. Brehm, S. Thekku Veedu, J. Meyer, P. Reinke, L. Melo Costa, K. Bustos, M. Bartelmess, T. Pakendorf, H. Delsim Hashemi, K. Flöttmann and A. Meents
160. A comparative study on the photodissociation of gas-phase peptides in the VUV and soft X-ray regimes with a special focus on the influence of the methionine residue
S. Dörner, L. Schwob, K. Schubert, K. Atak, M. Girod, L. MacAleeese, C. L. Pieterse, M. Timm, C. Bülow, V. Zamudio-Bayer, J. T. Lau, T. Schlathölter, S. Techert and S. Bari
161. Full-field x-ray fluorescence spectromicroscopy
P. Meyer, J. Soltau and T. Salditt

III.4 PETRA III

162. GINIX II – biomedical x-ray tomography for PETRA IV
M. Osterhoff, B. Hartmann, P. Luley, M. Sprung and T. Salditt
163. Crystal harvesting and HT ligand screening experiments P11 user lab: increasing your odds using the Crystal Shifter
S.D. Chatziefthymiou, H. Taberman, G. Pompidor, A. Gruzinova, J. Song and J. Hakanpää
164. Effects of X-ray dose and dose rate on structure and dynamics of egg white protein gels
S. Timmermann, N. Das, A. Girelli, N. Begam, M. Kowalski, S. Retzbach, M. Sentf, M. Akhundzadeh, H. Poggemann, M. Moron, A. Hiremath, D. Gutmüller, M. Dargasz, Ö. Öztürk, M. Paulus, F. Westermeier, M. Sprung, A. Ragulskaya, F. Zhang, F. Schreiber and C. Gutt
165. Visualizing Exsolved Nanoparticles by Anomalous X-ray Scattering Methods
P. Inanha and S. Mascotto
166. Time-resolved GIWAXS investigations of slot-die coated quantum dot thin-film materials
M. Reus, L.K. Reb, A. Krifa, D. Kosbahn, Q.A. Akkerman, A. Biewald, M. Schwartzkopf, A. Chumakov, S.V. Roth, J. Feldmann, A. Hartschuh and P. Müller-Buschbaum
167. LVP station at P61B: In situ high-pressure studies using synchrotron white-beam
R. Farla, S. Bhat, S. Ma, C. Lathe, K. Spektor, A. Neri, L. Man, A. Chanyshov, S. Sonntag, T. Katsura, U. Haeussermann and H. Kohlmann
168. Upgrading the High-Energy Beamline P21.1 at PETRA III
K. Köhler, A. Dippel, M. von Zimmermann, A. Mirone and B. Winkler
169. MyoSAX - Exploring muscle function in disease and health
A. Hessel
170. Temperature-induced morphology changes at the organic-metal interface: effects on the structure, electronic and thermoelectric performance
B. Sochor, Y. Bulut, M. Betker, A.L. Oechsle, S. Schraad, C.R. Everett, C. Harder, T.-Y. Huang, A. Le Brun, T. Laarmann, P. Müller-Buschbaum and S.V. Roth
171. Current Status and Capabilities of the Extreme Conditions Beamline P02.2 at PETRA III
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172. Planing for the Extreme Conditions Time Resolved XRD & Imaging Microscope (ExTReM) at PETRA IV
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173. Aberreation-corrected multilayer Laue lenses
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174. Development of CoRDIA: a Detector for next-generation X-ray Sources
A. Marras
175. Toward efficient real-time computation of autocorrelation functions for X-ray photon correlation spectroscopy using FPGAs
S. Frücht, C. Gutt, T. Kenter, R. Lammert, C. Plessl, M. Sprung, H.-G. Steinrück, A. Rehman Tareen and F. Westermeier
176. Probing redox and structural dynamics of V species in V-W-TiO₂ catalysts by operando X-ray emission spectroscopy
D. Doronkin, L. Zheng, F. Benzi, M. Casapu and J.-D. Grunwaldt
177. Iron as an energy source for a climate-neutral circular economy
L. Braun, V. Marchuk, D. Doronkin and J.-D. Grunwaldt

178. Construction of a fast non-linear X-ray shutter system
M. Kowalski, M. Sprung, M. Paulus, D. Weschke, M. Ziolkowski, S. Timmermann and C. Gutt
179. Tunable mesoporous and optoelectronics properties of zinc titanate films using sol-gel technique
Y. Li, N. Li, S. Yin, C. Harder, Y. Bulut, A. Vagias, S.V. Roth and P. Müller-Buschbaum
180. Self-organized structures in/on In/CuPcFx metal-organic interface.
O.V. Molodtsova, D.V. Potorochin, A.N. Chaika and V.Yu. Aristov
181. Layer-by-layer sequential production of graphene on an epitaxial SiC(001) layer grown on a Si(001) substrate
V. Aristov, A. Chaika, D. Potorochin and O. Molodtsova
182. Cochleate structures for drug delivery investigated by SAXS
P. Garidel and S. Funari
183. Development of a photoelectron spectrometer for Hard X-ray photon diagnostics at the European XFEL
J. Laksman, F. Dietrich, J. Liu, T. Maltezopoulos, M. Planas, W. Freund, S. Francoual and J. Grünert
184. X-ray emission setup at P01 to study the electronic structure of iron-bearing compounds *in situ* at high pressure and high temperature
N. Thiering, C. Albers, R. Sakrowski, J. Kaa, G. Scholz, J. Savelkouls, W. Morgenroth, M. Sundermann, H. Gretarsson, M. Wilke, M. Tolan and C. Sternemann
185. Giant Supramolecules Meet Synchrotron Radiation
A. Virovets, E. Peresypkina and M. Scheer
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H. Taberman, C. Borges, S. Chatziefthymiou, E. Crosas, A. Gruzinov, B. Kistner, G. Pompidor, J. Song and J. Hakaniemi
187. High Energy X-Ray Diffraction for Physics and Chemistry at beamlines P07 and P21.1 at PETRA III, DESY
I. Gjerlevsen Nielsen, O. Ivashko, P. Glaevecke, O. Gutowski, A.-C. Dippel and M. von Zimmermann
188. PERCIVAL: First users experiments
J. Correa, M. Mehrjoo, R. Battistelli, F. Lehmkühler, A. Marras, C. B. Wunderer, T. Hirono, V. Felk, F. Krivan, S. Lange, I. Shevyakov, V. Vardanyan, M. Zimmer, M. Hoesch, K. Bagschik, N. Guerrini, B. Marsh, I. Sedgwick, G. Cautero, L. Stebel, D. Giuressi, R.H. Menk, A. Greer, T. Nicholls, W. Nichols, U. Pedersen, P. Shikhaliyev, N. Tartoni, H.J. Hyun, S.H. Kim, S.Y. Park, K.S. Kim, F. Orsini, F.J. Iguaz, F. Büttner, B. Pfau, E. Plönjes, K. Kharitonov, M. Ruiz-Lopez, R. Pan, S. Gang, B. Keitel and H. Graafsmo
189. EASI-STRESS: Standardisation of Industrial Residual Stress Measurements
M. Thiry, D. Canelo-Yubero, E. Maawad, P. Staron, N. Schell, G. Abreu Faria, M. Sanchez-Poncela, J. M. Martinez and N. Zangenberg
190. The hydrothermal autoclave at beamline P65 - recent developments and research examples related to ore deposit formation
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191. In-situ investigation during gold HiPIMS deposition onto polymers
Y. Bulut, B. Sochor, J. Drewes, K. Reck, S. Liang, T. Guan, T. Strunskus, F. Faupel, P. Müller-Buschbaum and S.V. Roth
192. P66 beamline for VUV time- resolved spectroscopy
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193. Small molecule crystallography beamline, P24
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194. Acoustic emissions detection of micro-cracks under high pressure and high temperature in a deformation large-volume apparatus
S. Ma, J. Gasc, S. Sonntag and R. Farla
195. X-RAYS meet NEUTRONS meet IONS meet ELECTRONS meet LASERS meet MAGNETS: COMBINED ACCESS TO MULTIPLE FACILITIES THROUGH EU PROJECT REMADEARI
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196. Evaluation and Recommendations for Electronic Laboratory Notebooks empowering FAIR Data Management
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197. Visualization of Strain Distribution in Gold|FeCoSiB coated ZnO Microstructures utilizing Bragg CDI
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198. Mass Spectrometry Platform as Sample Delivery System for Gas-phase Protein SAXS Experiments
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199. Lattice thermal expansion of as-grown GaAs nanowires due to optical excitation measured by X-ray pump-probe experiment
T. Anjum, F. Marín Largo, A. Al Hassan, R. Prasad Giri, L. Petersdorf, V. Salehi, M. Rössle, B. Murphy, O. Brandt, L. Geelhaar and U. Pietsch
200. Stability of the $\text{Fe}_3\text{O}_4 (\sqrt{2} \times \sqrt{2})\text{R}45^\circ$ surface in 0.1M NaOH probed by High-Energy Surface Diffraction
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201. A versatile chemical vapor synthesis reactor for in situ X-ray absorption spectroscopy and X-ray scattering
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202. Raytracing for Beamline Alignment
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203. Active layer aging for the fabricating durable perovskite solar cells with improved reproducibility
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204. In-situ observation of growth mechanisms during printing of 2D perovskite film
K. Sun, R. Guo, L. F. Huber, M. A. Reus, J. Zhou, M. Schwartzkopf, S.V. Roth and P. Müller-Buschbaum
205. Investigation of Lipid Nanoparticles for Therapeutic Compound Delivery Using Small-Angle X-ray Scattering
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206. PETRA III: P03/MiNaXS - current status and future plans
J. Rubeck, M. Schwartzkopf, A. Chumakov, B. Sochor, A. Davydok, C. Krywka, S. Roth and J. Neumann
207. Multi-beam X-ray ptychography using coded probes
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208. P25: Beamline for Applied Bio-Medical Imaging, Powder Diffraction and Innovation
K. Spiers, N. Thielen, C. Qiu, B. Struth, M. Etter, A. Schoekel, A. Burkhardt, G. Falkenberg and H.-C. Wille
209. A grazing incidence diffraction setup for Langmuir trough experiments at the high-resolution diffraction beamline P08 at PETRA III
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210. PETRA III: Advanced Applications of Synchrotron Radiation
O.H. Seeck, H.-C. Wille and C. Schroer
211. The Powder Diffraction and Total Scattering Beamline P02.1 at PETRA III, DESY
V. Baran, H. Jeppesen, A.S.J. M'endez, A. Schökel, T. Schoof, M. Wendt, S. Wenz and M. Etter
212. Timepix4 readout for experiments at synchrotrons and FELs
J. Correa, A. Ignatenko, D. Pennicard, S. Lange, S. Fridman, S. Smoljanin and H. Graafsma
213. Three-dimensional virtual histology of human heart-forming organoids based on phase-contrast x-ray tomography
K. Komorowski, J. Reichmann, L. Drakhlis, J. Frost, R. Zweigerdt and T. Salditt
214. The high resolution diffraction beamline P08
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215. Phase relations in NH₃-defective NH₃-H₂O mixtures at high pressure
A. Mondal, R. J. Husband, H.-P. Liermann and C. Sanchez-Valle
216. Structure of Water and Ice Under Confinement in Periodic Mesoporous Organosilicas (PMOs)
N. Giesselmann, S. Schwake, P. Lenz, T. Simon, W. Jo, C. Koehn, N. Striker, M. Froeba and F. Lehmkühler
217. 3d virtual histology reveals pathological alterations of cerebellar granule cells in multiple sclerosis
J. Frost, B. Schmitzer, M. Töpperwien, M. Eckermann, J. Franz, C. Stadelmann and T. Salditt
218. Combined X-ray Emission Spectroscopy and Raman Spectroscopy of supercooled water
C. Goy, F. Trinter, R. Bauer, M. Caresana, Y. Chang, M. Harder, S. C. Hoevelmann, A. Kalinin, S. Lalithambika, Y. Zhong and R. Grisenti
219. Photoinduced disulfide bond cleavage and recombination in a copper-sulfur complex studied with Cu and S K-edge pump-probe X-ray absorption spectroscopy
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220. Investigation of the Hot Deformation Behavior in VDM® Alloy 780 by In-situ High-energy X-ray Diffraction
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221. Photo-induced structural changes in phospholipid monolayers and vesicles containing azobenzene-glycoconjugates
S. Hövelmann, J. Warias, K. Hansen, J. Kuhn, S. Reinheimer, E. Dieball, R. Giri, L. Petersdorf, N. Hayen, A. Sartori, P. Jordt, C. Shen, F. Reise, T. Lindhorst, O. Magnussen and B. Murphy
222. Pump probe investigations of structural dynamics at the liquid-vapour interface of salt solutions
L. Petersdorf, S. Hövelmann, R. Giri, N. Hayen, K. Hansen, P. Jordt, A. Sartori, M. Greve, F. Bertram, O. Magnussen and B. Murphy
223. SAXS/WAXS imaging at the SAXSMAT beamline: status and future perspectives
A.L.C. Conceicao, S. Pfeffer and S. Haas
224. Adsorption of spike amino acids, asparagine and cysteine, on the surface of model catalyst TiO₂
M. Blanco Garcia, M. Kohantorabi, M. Wagstaffe, M. Tehrani, S. Dolling, A. Stierle and H. Noei
225. Biological SAXS on the P12 beamline and covid-related application
D. Soloviov, A. Gruzinov, M. Schroer, M. Graewert, C. Jeffries, D. Franke, D. Svergun and C. Blanchet
226. Coherence Applications Beamline P10
F. Westermeier, N. Das A, V. Kartik, Z. Ren, W. Roseker, R. Rysov, D. Weschke, H. Xu and M. Sprung

227. XAS reference database under DAPHNE4NFDI
S. Paripsa, D. Lützenkirchen-Hecht, F. Förste, W. Malzer, C. Schlesiger, B. Kanngießer, A. Gaur, D. Doronkin, K. Kornetzky and J.-D. Grunwaldt
228. The SAXSMAT beamline P62: Small Angle X-ray Scattering Beamline for Materials Research
S. Haas, X. Sun, A. Conceicao and S. Pfeffer
229. Shape reconstruction of PtPd nanocatalysts investigated by Bragg CDI during methane oxidation
B. Wang, T.F. Keller, J. Schobe, S. Bernart, L. Bachmann, J. Dwivedi, A.D. Pandey, K.H. Ngoi, G. Hinsley, D. Lapkin, R. Ryzhov, M. Sprung, A. Stierle and I. Vartanians
230. Dynamics and Timescales of Higher Order Correlations in Supercooled Colloidal Systems
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231. pydidas: A software package to improve the user experience for diffraction data analysis
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232. WaveGate: fast and versatile x-ray chopper for synchrotron beams
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234. Real-time data processing for serial X-ray crystallography
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235. Cellulose-based recyclable efficient solar cells by ultrasonic spray process
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236. Machine Learning for the Automated Selection and Reconstruction of Multi-Modal Nanotomography Data of Bone-Implant Interfaces
B. Schacht, B. Zeller-Plumhoff, I. Greving and S. Frintrop
237. Exploring non-equilibrium processes in a heated egg yolk using coherent X-rays
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238. Layer by Layer Spray - Coating of Cellulose Nanofibrils and Lignin
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239. Bragg coherent X-ray diffraction imaging at P10 beamline
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240. next-generation Percival Mechanics
S. Rah, J. Correa, A. Marras, C.B. Wunderer, V. Vardanyan, F. Krivana, V. Felk, S. Lange, F. Okrent, I. Shevyakov, M. Hoesch, K. Bagschik, M. Zimmer, N. Guerrini, B. Marsh, I. Sedgwick, G. Cautero, D. Giuressi, R.H. Menk, G. Pinaroli, L. Stebel, A. Greer, T. Nicholls, U. Pedersen, N. Tartoni, H.J. Hyun, K.S. Kim, F. Orsini, A. Dawiec, F. Buettner, B. Pfau, R. Battistelli and H. Graafsma
241. Dose rate-dependent X-ray induced dynamics in dense antibody-protein solutions immunoglobulin G
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242. Studying magnetism with x-ray standing waves - new experimental results
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243. The Swedish Materials Science Beamline (SMS) at PETRA III: In-line branch (P21.2)
U. Lienert, S. Gutschmidt, T. Baecker, Zoltan Hegedues and Malte Blankenburg
244. New developments in the software MagStREXS
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245. Neodymium acetate as a contrast agent for x-ray phase-contrast tomography
J. Reichmann, T. Ruhwedel, W. Möbius and T. Salditt
246. sXRD study of copper-zinc-alumina (CZA) model systems under methanol synthesis conditions
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247. Novel magnetic cellulose nanocomposite coating as a potentially flexible electronic material
A. Chumakov, K. Gordeyeva, C.J. Brett, D. Menzel, A.V. Riazaanova, D. Soederberg and S.V. Roth
248. Effect of strain rate on slip activation in a Mg-Al alloy by in-situ 3DXRD
G. Zhu, A. Shabalin, U. Lienert and L. Wang
249. High pressure and low temperature single crystal diffraction capabilities at the Resonant Scattering and Diffraction beamline P09, DESY
C. Plückthun, J. Sears, P.J. Bereciartua, J. Bergtholdt, A. Ehnes, J. Geck, K Glazyrin, M. Kusch, H.-P. Liermann, L. Veiga and S. Francoual
250. Implementation of an environmental cell for in situ nanotomography of biological specimen at the imaging beamline P05
M. Nopens, I. Greving, S. Flenner, J. Lüdtke, M. Altgen, S. Heldner, H. Köhm, J. Beruda and A. Krause
251. Nanobeam Scanning 3D X-ray Diffraction Microscopy of a CdTe Solar Cell
A. Shukla, H. Stieglitz, J. Wright, H.F. Poulsen, A. Henningson, M. Stuckelberger, L. Besley, C. Baur, C. Krywka, A. Davydok and J. W. Andreasen
252. In situ X-ray diffraction and imaging beamline P23
D. Novikov, A. Khadiev and M. Nentwich
253. HIKa - Hierarchical Imaging Karlsruhe at Desy
C. Sato Baraldi Dias, M. Czyzycki, D. Novikov and T. Baumbach
254. Insights into physico-chemical properties of Pt/Rh gauze catalysts during industrial ammonia oxidation using hard X-ray microscopy
S. Das, M. Stuckelberger, J. Pottbacher, S. Jakobtorweihen, R. Horn and T. L. Sheppard
255. Bimetallic exsolution of Ni-Fe nanoparticles from perovskite oxides: an insight on mechanistic aspects through in-situ XANES and synchrotron XRD for tailoring catalytic selectivity
F. Colombo, A. Tsotsias, B. Rudolph, B. Ehrhardt, M. Goula and S. Mascotto
256. Structure and Stability of Methane and Methane Hydrates at Planetary Conditions
K. Mohrbach, A. Mondal, R. Husband, H.-P. Liermann and C. Sanchez-Valle
257. Combined phase contrast imaging and diffraction at extreme conditions
E. Ehrenreich-Petersen, E.F. O'Bannon, J. Hagemann, D.T. Sneed, D.J. Campbell, B. Massani, T. Engler, R. Husband, K. Glazyrin, T. Fedotenko, M. Wendt, S. Wenz, R.S. McWilliams, H.-P. Liermann and Zs. Jenei
258. Sub-micrometer focusing setup for high-pressure crystallography at the Extreme Conditions beamline at PETRA III
K. Glazyrin, S. Khandarkhaeva, T. Fedotenko, W. Dong, D. Laniel, F. Seiboth, A. Schropp, J. Garrevoet, D. Brückner, G. Falkenberg, A. Kubec, C. David, M. Wendt, S. Wenz, L. Dubrovinsky, N. Dubrovinskaia and H.-P. Liermann
259. Determination of structural parameters of mesocrystals formed by polymer-functionalized Au octahedral nanocrystals using AXCCA
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260. In-operando studies of piezoelectric HfO₂ on III-V semiconductor nanostructured devices
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261. Toward high energy resolution in soft X-ray resonant inelastic X-ray scattering using standard photoemission setups
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262. Structural Investigation of Exsolved Nanoparticles from Thin Films by X-Ray Scattering
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263. Unveiling temperature-induced changes in the protein-protein interactions of cryoprotected Lysozyme solutions
M. Filianina, M. Bin, M. Reiser, S. Berkowicz, H. Li, S. Timmermann, K. Amann-Winkel, C. Gutt and F. Perakis
264. P61A: Materials science experiments with a high energy white beam at PETRA III
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265. Precipitation kinetics in Al alloy 7050 studied by SAXS, WAXS, and numerical modeling
S. Henninger, J. Herrnring, P. Staron, B. Klusemann and M. Müller
266. Development of X-ray compound refractive lenses for synchrotron beamlines
H. van der Velde, D. Spinov, M. Lyubomirskiy, F. Seiboth, C.G. Schroer, W.T.E. van den Beld, M.D. Ackermann and I.A. Makhotkin
267. Revealing Packing Behavior of 3D Binary Mesocrystals through Angular X-ray Cross-Correlation Analysis (AXCCA)
K.H. Ngoi, D. Lapkin, F. Kirner, G. Hinsley, S. Sturm, L. Saric, V. Vuksan, S. Singh, R. Rysov, M. Sprung, S. Park, E. Sturm and I. Vartaniants
268. Resolving the 3D Structure of Au Colloidal Mesocrystals by Coherent X-ray Diffractive Imaging
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269. X-ray microscopy - an illumination correction
T. Engler, J. Hagemann, M. Trabs and C.G. Schroer
270. Spatial electronic structure of 2H-Hf₂S
C.-H. Min, A. Nierhaeve, M. Kalläne, J. Buck and K. Rossnagel
271. Muscle Ankyrin Repeat Protein 1 (MARP1) alters sarcomere protein structures in mammalian skeletal muscle via titin association
M.N. Kuehn, W. Ma, S.W. Han, J. Fleming, O. Mayans, T. Irving, W.A. Linke and A.L. Hessel
272. Towards reconstructing conformational dynamics from protein crystal diffuse scattering
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273. Quantitative Phase-Contrast Imaging at the Micro CT Beamlines P05 and P07
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274. Quantitative, size dependent characterization of mRNA nanoparticles by in line coupling of asymmetrical flow field-flow fractionation with small angle x-ray scattering
C. Wilhelmy, M.A. Graewert, R. Drexel, F. Meier, B. Kolb, C. Blanchet, T. Nawroth, T. Bacic, J. Schumacher, D. Svergun, T. Klein, H. Haas and P. Langguth
275. Phase retrieval in X-ray holographic imaging: beyond the homogeneous object approximation
J. Lucht, S. Huhn, L.M. Lohse and T. Salditt
276. New instrumentation at the chemical crystallography beamline P24
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277. High spatial resolution X-ray diffraction for highly absorbing samples at P06, PETRA III
P. Chakrabarti, A. Wildeis, M. Hartmann, R. Brandt, M. Stückelberger, G. Fevola, C. Ossig, R. Döhrmann, V. Galbierz, K.V. Falch, J. Garrevoet, G. Falkenberg and P. Modregger
278. Data analysis workflow for high-energy grain-resolved 3D x-ray diffraction
A. Shabalin, G. Zhu, J. Hektor, J. Gustafson, B. Neding and U. Lienert
279. Coherent X-ray Scattering Reveals Nanoscale Fluctuations in Hydrated Proteins
M. Bin, M. Reiser, M. Filianina, S. Berkowicz, S. Das, S. Timmermann, W. Roseker, R. Bauer, J. Öström, A. Karina, K. Amann-Winkel, M. Ladd Parada, F. Westermeier, M. Sprung, J. Möller, F. Lehmkuhler, C. Gutt and F. Perakis
280. Recent Developments in X-Ray Nanotomography at P05
S. Wirtensohn, S. Flenner, I. Greving and J. Herzen
281. Real-Time Processing Deep Learning Pipeline for Peak Localization and Indexing of GIWAXS Data
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282. Object initialization for improved ptychography
F. Wittwer, D. Brückner and P. Modregger
283. Correlative imaging of biodegradable Mg-based alloys using in situ SRnanoCT and electron microscopy techniques
Jan Reimers, Huu Ch'anh Trinh, Marta Lipinska-Chwalek, Regine Willumeit-Römer, Joachim Mayer, Imke Greving and Berit Zeller-Plumhoff
284. Advanced methods for phase retrieval in Phase-Contrast tomography.
D. Hailu, T. Jentscht, V. Kulvait and J. Moosmann
285. *In Operando* Soft X-Ray Photoemission Spectroscopy of TMDC Devices
A. Nierhauve, M. Kalläne, J. Buck, T. Timmermann, Z. Geng, C. Sharma, R. Venturini, C. Zhang, F. Schwierz, M. Ziegler and K. Rossnagel
286. Structural and dynamic analysis of Human Insulin by X-Ray Photon Correlation Spectroscopy
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287. Nuclear forward scattering in a mono-modal x-ray waveguide
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288. Phase-Contrast Tomography of Organoids
J. Alfkén, M.P. Zafeiriou and T. Salditt
289. Time-resolved structural changes in hybrid perovskites under illumination
I. Zaluzhnyy, L. Pithan, A. Hinderhofer, R. Rysov, F. Paulus and F. Schreiber
290. Pulsed laser deposition setups development for thin films in situ growth & investigations
P. Prokopovich, A. Dolgoborodov, E. Fatyanov and A. Goikhman
291. X-ray lens transfocators. Precision refractive optics focusing devices
A. Dolgoborodov, P. Prokopovich, E. Fatyanov and A. Goikhman
292. Coherent correlation imaging for resolving fluctuating states of matter
C. Klose, F. Büttner, W. Hu, C. Mazzoli, K. Litzius, R. Battistelli, I. Lemesh, J.M. Bartell, M. Huang, C.M. Günther, M. Schneider, A. Barbour, S.B. Wilkins, G.S.D. Beach, S. Eisebitt and B. Pfau
293. Towards fast 2d x-ray photon correlation spectroscopy of magnetic domains with the PERCIVAL detector
C. Klose, M. Schneider, B. Pfau, S. Eisebitt, D. Ksenzov, S. Timmermann, C. Gutt, C. Wunderer, T. Hirono, A. Marras, J. Correa, M.-J. Huang, M. Hoesch, K. Bagschick, F. Lehmkuhler, R. Gruber, K. Raab, M. Kläui, A. Yaroslavtsev and H. Dürr

294. Neurodegenerative diseases in the aging population: 3D x-ray phase contrast images analysis of epiphyseal calcification
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295. Three-dimensional image segmentation of human olfactory bulb structures using deep learning approach
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296. Development of a wavefront analysis platform for online beam characterization at next-generation synchrotron beamlines.
A. Sharma, F. Seiboth and C. Schroer
297. Developing real time coherence analysis platform at next-generation synchrotron beamlines
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298. Simulation of Tomography Experiments with Phasecontrast X-ray at PETRA III
T. Jentschke, F. Otte, J. Moosmann, T. Farago and M. Müller
299. Depth resolved magnetic structure investigation of thin magnetic films using nuclear resonant scattering
A. Panchwanee, K. Schlage, L. Bocklage, S. Velten, A.I. Chumakov, O. Leupold, S. Sadashivaiah, I. Sergeev and R. Röhlsberger
300. Phase Retrieval from 2-Dimensional Nuclear Resonant Scattering spectra
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301. Room temperature in-situ synchrotron creep of Fe-based shape memory alloy
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302. Instrumentation for time-resolved synchrotron X-ray diffraction studies of adsorption-induced switching in crystalline nanoporous solids
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303. Spatiotemporal design of Metal-Organic Frameworks by tuning of the crystal size and the composition of the metal node
V. Bon, H. Miura, N. Busov, A. Khadiev, D. Novikov and S. Kaskel
304. Investigating the influence of applied loads on degrading Mg-10Gd
B. Hindenlang, F. Wieland, D. Tolnai, F. Wilde and R. Willumeit-Römer
305. New highly luminescent lanthanide metal-organic frameworks based on 2,4,6-tri-(phenylene-4-phosphonic acid)-s-triazine (H₆PPT) ligand
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306. Unraveling the Spatial Distribution of Catalytic Non-Cubic Au Phases in a Bipyramidal Microcrystallite by X-ray Diffraction Microscopy
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307. New luminescent hybrid organic-inorganic Lanthanide based Dipicolinato materials
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308. Resolving x-ray wave mixing processes
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