



Jan 21 – 28, 2022
ONLINE



European XFEL Users' Meeting 2022 | DESY Photon
Science Users' Meeting 2022

Poster list

III Poster Session Topics

III.1 Internal/Facility Poster

1. PETRA III: Advanced Applications of Synchrotron Radiation
O. H. Seeck, H.-C. Wille and C.G. Schroer
2. The wayforlight portal
C. Blasetti
3. LEAPS
J. Hauk
4. The Swedish Materials Science Beamline (SMS) at PETRA III: In-line branch (P21.2)
U. Lienert, S. Gutschmidt, T. Bäcker, Z. Hegedüs, M. Blankenburg and A. Shabalin.
5. CMWS – Centre for Molecular Water Science
C. Goy, S. Bari, F. Lehmkuhler, M. Schnell and G. Grübel
6. THz beamline upgrading in FLASH2020+
R. Pan, S. Gang, M. Temme, N. Stojanovic and E. Plönjes
7. The Advanced XAFS Beamline P64 at PETRA III
W. Caliebe, M. Görlitz, C. Schwan, M. Naumova, A. Tayal, A. Kataev and A. Kalinko
8. Status and development of beamline P61B: Large Volume Press
R. Farla, S. Bhat, A. Chanyshhev, S. Ma, C. Lathe, K. Spektor, S. Sonntag, U. Häussermann, H. Kohlmann and T. Katsura
9. The High Resolution Diffraction Beamline P08
F. Bertram, R. Kirchhof, C. Shen, A. Dey and W. Xu
10. X-ray Photon Correlation Spectroscopy at P10
F. Westermeier, Z. Ren, R. Rysov, N.D. Anthuparambil, D. Weschke, V. Kartik, H. Xu and M. Sprung
11. PETRA IV – The ultimate 3D-X-Ray Microscope - Project Information
R. Bartolini, C. Schroer, I. Agapov, K. Bagschik, M. Hüning, O. Seeck, H.-C. Wille, K. Baev, S. Klumpp, W. Leemans and E. Weckert
12. DESY NanoLab
H. Noei, T.F. Keller, V. Vonk, R. Röhlberger and A. Stierle
13. In situ X-ray diffraction and imaging beamline P23: status and prospects
D.V. Novikov, A. Khadiev, A. Poduval, Y. Matveev, M. Nenwich and K. Maksomova
14. Multimodal spectroscopy with upgraded TRIXS end-station at FLASH
M. Sinha, S. Dziarzhyski, H. Weigelt, F. Pressacco, M. Beye, E. Plönjes and G. Brenner
15. The SQS instrument at the European XFEL
T. Mazza, T. Baumann, R. Boll, A. De Fanis, S. Dold, A. Alangattuthodi, M. Ilchen, T. Jahnke, M. Lüdecke, J. Montaño, T. Mullins, V. Music, Y. Ovcharenko, N. Rennhack, D. Rivas, A. Rörig, S. Sasikumar, B. Senfftleben, M. Togawa, S. Usenko, R. Wagner and M. Meyer
16. Komitee Forschung mit Synchrotronstrahlung (KFS) - so that photon research can flourish
K. Griewatsch, J.-D. Grunwaldt and S. Köster

III.2 Instrumentation and techniques

17. The XUV and soft X-ray split-and-delay unit for FLASH2 at beamlines FL23 and FL24
M. Dreimann, D. Eckermann, F. Rosenthal, S. Roling, F. Wahlert, S. Eppenhoff, M. Kuhlmann, S. Toleikis, M. Brachmanski, R. Treusch, E. Plönjes-Palm and H. Zacharias
18. XRnanotech - Achromatic X-ray Lens and recent developments in nanostructured X-ray optics
A. Kubec, U. Sanli, C. David and F. Döring
19. Enabling extended collaborative research in crystallography with Amarcord
P. Middendorf, M. Domaracky, T. J. Lane, V. Kremling, J. Sprenger, L. Gelisio, J. Carnis and H. Chapman
20. Using the PERCIVAL 2-Megapixel Prototype
C. Wunderer
21. SASE3 Variable Polarization Project Progress
S. Karabekyan
22. Bragg Magnifier Optics for Dose-Efficient X-Ray Imaging with μm -Resolution
R. Spiecker, H. Hessdorfer, A. Biswal, M. Hurst, V. Bellucci, A. Cecilia, T. Faragó, P. Pfeiffer, P. Vagovič, T. van de Kamp, M. Zuber, M. Shcherbinin, E. Hamann and T. Baumbach
23. 3D Printed Devices for Liquid Sample Delivery at the European XFEL
M. Vakili and J. Schulz
24. Development of CoRDIA: A high-speed imaging detector for diffraction-limited SRs and CW-FELs
A. Marras, A. Klyuev, S. Lange, T. Laurus, D. Pennicard, U. Trunk, C.B Wunderer, T. Hemperek, L. Hafiane, T. Kamilaris, H. Krueger, T. Wang and H. Graafsma
25. Development of a coherence and wavefront sensing monitor for the unfocused and focused X-ray beam at existing PETRA III beamlines within the PETRA IV TDR phase
A. Sharma, F. Seiboth, C. Schroer, J. Garrevoet, K. Vidar Falch, G. Falkenberg and W. Wang
26. New AGIPD Detectors and Developments for the European XFEL
J. Becker, R. Dinapoli, S. Fridman, P. Göttlicher, H. Graafsma, D. Greiffenberg, H. Hirsemann, S. Jack, A. Klyuev, H. Krueger, S. Lange, T. Laurus, A. Marras, D. Mezza, A. Mozzanica, S. Rah, B. Schmitt, J. Schwandt, O. Shefer-Shalev, I. Sheviakov, S. Stern, U. Trunk and M. Zimmer
27. Attosecond X-ray imaging of electron dynamics. Theory perspectives.
D. Gorelova
28. Radiation Hardness of the ePix100 Sensor and ASIC
M. Kuster, I. Kláčková, K. Ahmed, G. Blaj, M. Cascella, V. Cerantola, C. Chang, A. Dragone, S. Göde, S. Hauf, C. Kenney, J. Segal and A. Šagátová
29. A modular load frame system for applying compressive or tensile stress to materials
T. Dose, J. Moosmann, F. Beckmann, F. Wilde, C. Krywka, E. Euchler and R. Bernhardt
30. A hydrothermal apparatus for X-ray absorption spectroscopy of hydrothermal fluids at DESY
M. Borchert, M. Feldhaus, V. Potapkin, M. Wilke, M. Louvel, A. Loges, A. Rohrbach, P. Weitkamp, E. Welter, M. Kokh, M. Naumova, C. Schmidt, D. Testemale and S. Klemme
31. CFEL TapeDrive 2: Sample Delivery for Multidimensional Serial Crystallography
A. Henkel, J. Maracke, A.C. Munke, A. Prester, M. Galchenkova, A. Rahmani Mashhour, P. Reinke, M. Domaracky, H. Fleckenstein, J. Sprenger, V. Kremling, B. Klopprogge, F. Lauck, J. Hakanpää, J. Meyer, A. Tolstikova, J. Carnis, L. Gelisio, O. Yefanov, M. Perbandt, H.N. Chapman and D. Oberthür
32. New instrumentation for Ultra-fast Soft X-ray Spectrometry
J. Probst, A. Teichert, A. Sokolov, F. Siewert, C. Braig and A. Erko

33. meV-spectroscopy at the HED instrument at European Xfel
L. Wollenweber, K. Appel, E. Brambrink, G. Gregori, O. Humphries, O. Karnbach, M. Nakatsutsumi, T. Preston, J. Wark and U. Zastra
34. Scanning high-sensitive X-ray polarization microscopy
B. Marx-Glowna, B. Grabiger, R. Loetzsch, I. Uschmann, A. Schmitt, K. Schulze, A. Last, T. Roth, S. Antipov, H.-P. Schlenvoigt, I. Sergueev, O. Leupold, R. Roehlsberger and G. Paulus
35. Timepix4: a detector system for Petra IV
J. Correa, D. Pennicard, S. Fridman, S. Lange, S. Smojanin, A. Ignatenko and H. Graafsma
36. Improving the user experience for diffraction data analysis
M. Storm, A. Davydok, P. Staron and C. Krywka
37. How to increase the efficiency of differential pumping
M. Degenhardt, M. Braune, S. Aref, F. Jastrow and K. Tiedtke
38. 3D Structure Determination via Fluctuation X-ray Scattering
T. Berberich, R. Kurta, S. Molodtsov and A. Lichtenstein
39. Pressure Hopping – Circumventing the pressure gap in high-pressure X-ray photoelectron spectroscopy
D. Degerman, M. Shipilin, C. M. Goodwin, P. Lömker, F. Garcia-Martinez and A. Nilsson
40. Atomic-Resolution Bragg Coherent Diffraction Imaging
A. Pateras, R. Harder, A. Rollett, H. Chapman and R. Sandberg
41. Double electron spectrometer setup for time-resolved photoelectron spectroscopy at FELs
L. Wenthous, S. Palutke, D. Kutnyakhov, H. Meyer, S. Gieschen and M. Beye
42. 101 Experiments and Preparing for the Future: Current Developments and Plans for the GINIX (II)
M. Osterhoff, B. Hartmann, F. Westermeier, M. Sprung and T. Salditt
43. Temporal characterization of XUV SASE FEL pulses at FLASH
M.M. Bidhendi, R. Ivanov, I. Bermudez, J. Liu, G. Brenner, N.M. Kabachnik, M.V. Yurkov, J. Rönsch-Schulenburg, M. Vogt and S. Düsterer
44. The new time-delay compensating monochromator beamline at FLASH2
G. Brenner, M. Brachmansky, H. Weigelt, M. Ruiz-Lopez, M. Hesse, H. Schulte-Schrepping, L. Poletto and E. Plönjes
45. Particle- and phase-selective X-ray spectroscopy with micro- and macrobeams: the case of $(\text{SmS})_{1.19}\text{TaS}_2$ nanotubes
A. Khadiev, S. Madhenahalli-Bhyrappa, R. Tenne and D. Novikov
46. Real-time data processing for serial crystallography
T.A. White, T. Schoof, S. Yakubov, A. Tolstikova, V. Mariani, S. de Graaf, M. Galchenkova, O. Yefanov, H. Taberman, J. Meyer, G. Pompidor, J. Hannappel, A. Henkel, B. Klopprogge, A. Prester, V. Kremling, A. Munke, D. Oberthür, P. Middendorf, J. Carnis, J. Hakanpää, M. Gasthuber and A. Barty
47. Imaging X-ray spectrometer at HED, XFEL
M. Łmíd, X. Pan, R. Ľtefaníková, C. Baetz, T. Preston, L. Wollenweber, U. Zastra and K. Falk
48. Bragg coherent diffractive imaging at P10 beamline
Z. Ren, R. Rysov, H. Xu, F. Westermeier and M. Sprung
49. A state of the art 100 kHz OPCPA laser system and its application in nonlinear vibrational spectroscopy techniques
G. Karras
50. Pulsed-magnetic-field and cryo-temperature at MID: a look behind the technology
J. Moore, J. Schulz, K. Kazarian and A. Madsen

51. An Electron Beam Ion Trap for XFEL studies on highly charged ions at SXP and SQS
T.M. Baumann, M. Togawa, J.R. Crespo López-Urrutia, T. Pfeifer, M. Izquierdo and M. Meyer
52. Data acquisition and processing for future high-speed detectors
D. Pennicard, S.P. Setty, V. Rahmani, S. Nawaz, S. Fridman and H. Graafsma
53. A setup for studies of photoelectron circular dichroism from chiral molecules in aqueous solution
S. Malerz, H. Haak, F. Trinter, A.B. Stephansen, C. Kolbeck, M. Pohl, U. Hergenhahn, G. Meijer and B. Winter
54. In-house research on coherent diffraction imaging at P10 beamline
R. Rysov, Z. Ren, H. Xu, F. Westermeier and M. Sprung
55. Status of the THz@PITZ Project – Beam Line Design and Installation Progress
T. Weilbach, P. Boonpornprasert, G. Georgiev, G. Koss, M. Krasilnikov, X-K. Li, A. Lueangaramwong, F. Mueller, A. Oppelt, S. Philipp and F. Stephan
56. Precision 3D Printing to Achieve Noise Reduction for Single Particle Imaging
J. Schulz, M. Heymann, J. Bielecki and S. Rafie-Zinedine
57. The EIGER2 for Advanced X-Ray Diffraction Experiments at Next Generation Synchrotron Sources
M. Burian, T. Donath and S. Brandstetter
58. X-ray measurements of bovine red blood cells in continuous flow
J.-P. Burchert, R. Graceffa, M. Burghammer and S. Köster
59. A phase retrieval framework to directly reconstruct the projected refractive index
J. Hagemann, F. Wittwer, D. Brückner, S. Flenner and C.G. Schroer
60. Analytical method of the current leads optimization for the superconducting electromagnets
J. Sosnowski
61. Customized 2D and 3D Multilayer Deposition on Flexible Length Scales - Possibilities of an In-house Coating Facility
M. Ramin Moayed, K. Schlage, A. Siemens, C. Adolff, L. Bocklage, S. Willing, J. Lütjens, T. Gurieva and R. Röhlsberger
62. WaveGate: Nanosecond hard X-ray chopper
D. Schmidt and P. Gaal
63. Presenting Helmholtz Metadata Collaboration Hub Matter
L. Cristiano, G. Günther, M. Kubin and O. Mannix
64. Electronically Stimulated Segmented Flow Injection for Decreased Sample Consumption for SFX at XFELs
D. Doppler, M. Sonker, A. Egatz-Gomesz, K. Doerner, R. Letrun, J. Bielecki, J. Schulz, MT. Rabbani, A. Manna, C. Errico, J. Cruz-Villarreal, JMM. Garcia, S. Zaare, K. Karpos, R. Alvarez, S. Botha, G. Ketwala, T. Grant, AL. Pey, A. Grieco, MA. Ruiz-Fresneda, A. Tolstikova, R. Nazari, U. Weierstall, V. Mariani, P. Fromme, R. Bean, A. Mancuso, R. Kirian and A. Ros
65. Future perspective on short wavelength Transient Grating
D. Fainozzi, F. Bencivenga and C. Svetina
66. The development status of SIMEX: A start-to-end simulation platform
J. E, C. Fortmann-Grotea, M. Stransky, Z. Jurek, B. Ziaja and A. Mancuso
67. The SASE3 afterburner for variable polarisation: Final magnetic measurement status
U. Englisch, S. Karabekyan, M. Yakopov, S. Abeghyan, F. Preisskorn, M. Bagha-Shanjani, S. Casalbuoni, Th. Schmidt, M. Calvi, X. Liang, M. Bruegger, S. Danner, L. Huber and K. Zhang
68. Infrared spectroscopy as a tool for in situ structure characterization of palladium nanoparticles
B. Protsenko, O. Usoltsev, A. Tereschenko, A. Bugaev, A. Pnevskaya and A. Soldatov

69. P61A beam characterization with a micro diamond and a silicon strip detector for microbeam irradiation
C. Mewes, E. Gargioni, G. Abreu Faria, S. Fiedler, J. Klingenberg, M. Lerch and E. Schültke
70. Development of the sample setup for X-ray spectroscopy analysis of nanomaterials in suspension
R. Fanselow, A. Wach, W. Błachucki and J. Szlachetko
71. Optical Laser Capabilities and Applications at SPB/SFX
R. Letrun, J. Koliyadu, J. Liu, M. Emons, M. Jiang, T. Dietze, N. Reimers, A. P. Mancuso and T. Sato
72. Reconstruction of 3D information from limited set of projections
O. Bernát
73. Status of FAST-XPD: Photon data base for the European XFEL
A. Buzmakov, M. Manetti, L. Samoylova, H. Sinn, J. Szuba, K. Wrona, M. Yurkov and I. Zagorodnov
74. Multilayer Laue lenses for hard X-Rays
J.L. Dresselhaus, S. Bajt, H.N. Chapman, T. Li, H. Fleckenstein, M. Prasciolu, M. Domaracky and N. Ivanov
75. A novel EUV X-ray polarimeter for single-pulse experiments at the FERMI FEL facility
A. Caretta, S. Laterza, V. Bonanni, R. Sergo, C. Dri, G. Cautero, F. Galassi, M. Zamolo, A. Simoncig, M. Zangrando, A. Gessini, S. Dal Zilio, R. Flammini, P. Moras, A. Demidovich, M. Danailov, F. Parmigiani and M. Malvestuto
76. eCOMO – A new endstation for controlled molecule experiments
W. Jin, S. Trippel, H. Bromberger, T. Röhling, K. Dlugolecki, S. Ryabchuk, E. Månsson, A. Trabattoni, V. Wanie, I. Vinklársek, F. Calegari and J. Küpper
77. The MagneDyn beamline at the FERMI free electron laser
M. Malvestuto, A. Caretta, R. Bhardwaj and S. Laterza
78. Features of a new THz/XUV endstation in FLASH2020+
S. Gang, M. Temme, E. Plönjes and R. Pan
79. The Femtosecond X-ray Experiments (FXE) Instrument at the European XFEL: current status and recent results
D. Khakhulin, F. Alves Lima, F. Ardana-Lamas, M. Biednov, D. Bregenholt Jakobsen, P. Frankenberger, X. Huang, Y. Jiang, M. Knoll, F. Otte, S. Paul Dutta, V. Tiwari, Y. Uemura, H. Wang, H. Yousef, P. Zalden and C. Milne
80. X-ray and optical characterisation of a diamond channel-cut monochromator for intense XFEL radiation
K.R. Tasca, C. Deiter, Y. Matveev, D. V. Novikov, M. Vannoni and L. Samoylova
81. Machine learning for serial crystallography and other applications
S. Nawaz, V. Rahmani, S. Pala Ramakantha Setty, D. Pennicard and H. Graafsma
82. Flat-field correction of highly-dynamic processes
T. Engler, J. Hagemann, R. Husband, Z. Jenei, H.-P. Liermann, E.F. O'bannon, C.G. Schroer and M. Trabs
83. Coherent X-ray beam expander by multilens interferometer
D. Zverev, I. Snigireva, V. Yunkin, S. Kuznetsov and A. Snigirev
84. Rapid XANES Imaging to Visualize Structural Changes in Catalysis
A. Schropp, S. Alizadehfanaloo, J. Garrevoet, M. Seyrich, V. Murzin, B. Wollak, R. Horn, J. Becher, D.E. Doronkin, T.L. Sheppard, J.-D. Grunwaldt and C.G. Schroer
85. Setup to study the electronic structure of iron compounds *in situ* at conditions of the Earth's mantle
C. Albers, R. Sakrowski, G. Spiekermann, L. Libon, M. Wilke, N. Thiering, H. Gretarsson, M. Sundermann, J. Kaa, M. Tolan and C. Sternemann

86. Stereo X-ray Microscopy: 3D View of the Nanocosm
S. Röper, A. Schropp, L. Grote, K. Stachnik, M. Åstrand, H. Ohlin, M. Seyrich, S. Hussak, T. Frisk, U. Vogt, D. Koziej and C. Schroer
87. Advanced Diagnostic Perspectives for FLASH 2020+
Markus Ilchen and the FLASH 2020+ Team
88. The Open Reflectometry Standards Organisation
T. Arnold and B. Murphy
89. Synchronized HHG-based source for VUV-XUV pump-probe experiments in the Reaction Microscope and XUV-Spectrometer at FL26@FLASH2
C.C. Papadopoulou, E. Appi, J. Mapa, M. Braune, M. Brachmanski, S. Ališauskas, T. Lang, C.M. Heyl, B. Manschwetus, H. Lindenblatt, F. Trost, S. Meister, P. Schoch, A. Magunia, M. Rebholz, T. Ding, M. Straub, J. Lee, G.D. Borisova, A. B. Wahid, L. Silletti, V. Wanie, A. Trabattoni, F. Calegari, C. Ott, R. Moshhammer, T. Pfeifer, I. Hartl, R. Treusch, U. Morgner and M. Kovacev
90. Data reduction in protein crystallography
M.A. Galchenkova, A. Tolstikova, H.N. Chapman and O.M. Yefanov.
91. Self optimizing of reconstruction parameters enables online view for holographic in-situ experiments
J. Dora, M. Grosser, S. Flenner, I. Greving, C. Schroer, T. Knopp and J. Hagemann
92. HIKa - Hierarchical Imaging Karlsruhe at DESY
C. Sato Baraldi Dias, M. Czyzycki, D. Novikov and T. Baumbach
93. 2D in situ nanoreactor for catalyst characterization using hard X-rays and electron microscopy
S. Das, J. T. Roeh, M. Lyubomirskiy, V. Galbierz, R. Doehrmann, R. Marx, A. Schropp, C. Schroer and T.L. Sheppard
94. High resolution X-ray in-line holography and tomography via iterative phase retrieval at the GINIX endstation
J. Frohn, J.Soltau, M.Osterhoff and T. Salditt
95. 3-in-1 time-resolved ToF momentum microscopy using FEL and hyperspectral HHG radiation
N. Wind, M. Heber, D. Kutnyakhov, F. Pressacco and K. Rossnagel
96. Towards Fresnel phase contrast reconstruction with PyTorch
J. Lucht, S. Huhn, L. Lohse and T. Salditt
97. SpeAR_XFEL – Advanced Instrumentation for Attosecond-Resolved FEL Diagnostics and Science
L. Funke, S. Savio, A. Held, R. N. Coffee, K. Dingel, A. Ehresmann, A. Hans, G. Hartmann, A. Knie, L. Marder, D. Meier, T. Otto, B. Sick, J. Viefhaus, P. Walter, N. Wieland, L. Wülfing, M. Ilchen and W. Helml
98. Statistical Properties of the X-ray Radiation at PAL-XFEL facility
R. Khubbutdinov, Y. Y. Kim, J. Carnis, S. Kim, D. Nam and I. A. Vartanyants
99. Applying Finite Element Modeling to MHz XRD in pulsed Laser Heated Diamond Anvil Cell
N. Jaisle and G. Morard
100. SiMerge: looking at diffraction in 3D
O. Yefanov
101. PoIFEL Status
K.Szamota-Leandersson

III.3 Atoms, molecules, clusters, ions and plasmas

102. Development of an angle resolved electron TOF spectrometer for Hard X-Ray photon diagnostics
J. Laksman, F. Dietrich, M. Planas, J. Liu, T. Maltezopoulos, W. Freund, N. Kujala, S. Francoual and J. Grünert
103. Photodissociation of water induced by a long UV pulse and probed by high-energy-resolution X-ray-absorption spectroscopy
V. Savchenko, J.C. Liu, M. Odelius, N. Ignatova, F. Gelmukhanov, S. Polyutov and V. Kimberg
104. Following excited-state chemical shifts in molecular ultrafast X-ray photoelectron spectroscopy
D. Mayer, F. Lever, D. Picconi, J. Metje, S. Alisauskas, F. Calegari, S. Düsterer, C. Ehlert, R. Feifel, M. Niebuhr, B. Manschwetus, M. Kuhlmann, T. Mazza, M. Robinson, R. Squibb, A. Trabattoni, M. Wallner, P. Saalfrank, T. Wolf and M. Gühr
105. Inner-shell multiple photodetachment of silicon anions
T. Buhr, A. Perry-Sassmannshausen, M. Martins, S. Reinwardt, F. Trinter, A. Müller, S. Fritzsche and S. Schippers
106. Coherent diffraction imaging of dopant-induced nanoplasmas in helium nanodroplets
K. Sishodia, R. Talund, B. Bastian, E. Appi, L. Ben Ltaief, J. Dall Asmussen, B. Erk, L. Hecht, M. Kovacev, A. LaForge, B. Langbehn, S. Mandal, J. Mappa, C. Medina, M. Meyer, P. Mosel, M. Mudrich, A. Nur, Y. Ovarchenko, C. Papadopoulo, P. Sankar, D. Theidel and S. Krishnan
107. Time-resolved study of recoil-induced rotation by X-ray pump – X-ray probe spectroscopy
N. Ignatova, J.-C. Liu, V. Kimberg, P. Krasnov, A. Föhlisch and F. Gelmukhanov
108. Diffraction Imaging of Helium Nanodroplets
K. Sishodia
109. UV and Mid-IR Photo-induced Dissociation of Solvated (Bio)Molecular Complexes
M. Singh, M. Scott Robinson, H. Bromberger, J. Onvlee, S. Trippel and J. Küpper
110. Simulating Diffraction pattern using CMIDiffract
N. Vadassery, S. Trippel and J. Küpper
111. Investigation of the Electronic Structure of Iron in Bridgmanite at Deep Mantle Pressure Conditions by (Resonant) X-ray Emission Spectroscopy
R. Sakrowski, G. Spiekermann, C. Albers, N. Thiering, L. Liebon, H. Gretarsson, M. Sundermann, J.P. Rueff, J.M. Ablett, M. Tolan, M. Wilke and C. Sternemann
112. Ultrafast Auger spectroscopy of 2-thiouracil
F. Lever, D. Mayer, D. Picconi, J. Metje, S. Alisauskas, F. Calegari, S. Düsterer, C. Ehlert, R. Feifel, M. Niebuhr, B. Manschwetus, M. Kuhlmann, T. Mazza, M.S. Robinson, R.J. Squibb, A. Trabattoni, M. Wallner, P. Saalfrank, T.J.A. Wolf and M. Gühr
113. From alkane chains to aromatic or antiaromatic rings
S. Reinwardt, P. Cieslik, A. Perry-Sassmannshausen, T. Buhr, A. Müller, S. Schippers, F. Trinter and M. Martins
114. Towards imaging X-ray polarimetry as community setup at HED
H.-P. Schlenvoigt, C. Baehtz, A. Laso Garcia, Q. Yu, L. Huang, P. Ordyna, T. Kluge, T. Toncian, K. S. Schulze, R. Loetzsch, B. Marx-Glowna, I. Uschmann, G. G. Paulus, R. Sauerbrey, U. Schramm and T.E. Cowan
115. Controlled beams of small (bio-)nanoparticles from aerodynamic lens injectors
L. Worbs, J. Lübke, A. K. Samanta and J. Küpper
116. CAMP@FLASH – an end-station for Electron- and Ion-Spectroscopy, Pump-Probe, and Imaging Experiments at FLASH
B. Erk

117. Understanding conformational dynamics from macromolecular crystal diffuse scattering
P. Mazumder and K. Ayyer
118. Novel energy-referencing approach for measuring accurate vertical ionization energies and work functions of liquid water and aqueous solutions
F. Trinter, S. Thürmer, S. Malerz and U. Hergenhahn, M. Pugini, K. Mudryk, C. Lee, D.M. Neumark, G. Meijer and B. Winter and I. Wilkinson
119. Role of polarization in Multiple Sequential Ionization of an atom by Intense Femtosecond XUV Pulses
M.M. Popova, E.V. Gryzlova, M.D. Kiselev and A.N. Grum-Grzhimailo
120. Polarization transfer in hard X-ray Rayleigh scattering on atomic targets at P07
W. Middents, G. Weber, U. Spillmann, M. Vockert, P. Pfäfflein, A. Gumberidze, S. Strnat, A. Volotka, A. Surzhykov and Th. Stoehlker
121. Temporal shaping of X-ray fluorescence emission using high-intensity X-ray pulses
S. Cardoch, F. Trost, H. N. Chapman, C. Caleman and N. Timneanu
122. Tracing Inner-Shell-Ionization-Induced Dynamics of Water Molecules Using an X-ray Free-Electron Laser and Ab-Initio Simulations
L. Inhester, T. Jahnke, R. Guillemin, S.-K. Son, G. Kastirke, M. Ilchen, J. Rist, D. Trabert, N. Melzer, N. Anders, T. Mazza, R. Boll, A. De Fanis, V. Music, T. Weber, M. Weller, S. Eckart and K. Fehre, S. Grundmann, A. Hartung, M. Hofmann, C. Janke, M. Kircher, G. Nalin, A. Pier, J. Siebert, N. Strenger, I. Vela-Perez, T. M. Baumann, P. Grychtol, J. Montano, Y. Ovcharenko, N. Rennhack, D. E. Rivas, R. Wagner, P. Ziolkowski, P. Schmidt, T. Marchenko, O. Travnikova, L. Journal, I. Ismail, E. Kukk, J. Niskanen, F. Trinter, C. Vozzi, M. Devetta, S. Stagira, M. Gisselbrecht, A. L. Jäger, X. Li, Y. Malakar, M. Martins, R. Feifel, L.Ph. H. Schmidt, A. Czasch, G. Sansone, D. Rolles¹, A. Rudenko, R. Moshhammer, R. Dörner, M. Meyer, T. Pfeifer, M.S. Schöffler, R. Santra, M. Simon and M.N. Pincastelli
123. Efficient laser-driven proton and Bremsstrahlung generation from cluster-assembled foam targets
I. Prencipe, J. Metzkes-Ng, A. Pazzaglia, C. Bernert, D. Dellasega, L. Fedeli, A. Formenti, M. Garten, T. Kluge, S. Kraft, A. Laso Garcia, A. Maffini, L. Obst-Huebl, M. Rehwald, M. Sobiella, K. Zeil, U. Schramm, T. E. Cowan and M. Passoni
124. Correlation fingerprints in the X-ray induced Coulomb explosion of iodopyridine
B. Richard, J. Schäfer, Z. Jurek, R. Santra and L. Inhester
125. Electronic correlation in nonlinear processes
J. Schwarz, A. Rörig, K. Mertens, T. Mazza, M. Meyer and M. Martins
126. Fast resonant adaptive X-ray optics via mechanically-induced refractive-index enhancement
M. Gerharz and J. Evers
127. Performance and first results of a versatile home-built mass spectrometer dedicated for experiments at advanced light-sources
J. Leroux, A. Kotobi, K. Schubert, C. Mahecha, T. Reuss, F. Trinter, I. Unger, J.-C. Pouilly, L. Schwob and S. Bari
128. Spectral learning for (ro-)vibrational calculations of weakly-bound molecules
Y. Saleh, J. Eggers, V. Sanjay, A. Yachmenev, A. Iske and J. Küpper
129. Predicting ortho-para transitions of water from first principles
G. Yang, A. Yachmenev, S. Yurchenko, E. Zak and J. Küpper
130. Unraveling Time- and Energy-Resolved Nuclear Resonant Scattering Spectra
L. Wolff and J. Evers
131. Theoretical study of 1s double-core-hole evolution in neon irradiated by an intense XUV pulse generated by XFEL
M.D. Kiselev, E.V. Gryzlova, S.M. Burkov and A.N. Grum-Grzhimailo

132. Effects of radiation damage and inelastic scattering on single-particle imaging of hydrated proteins with an X-ray Free-Electron Laser
J.C. E, M. Stransky, Z. Jurek, C. Fortmann-Grote, L. Juha, R. Santra, B. Ziaja and A. P. Mancuso
133. Resolving electronic spectral shifts in CS₂ dissociation with electron-ion covariance
I. Gabalski, F. Allum, M. Britton, I. Seidu, J. Mikosch, M. Schuurman and R. Forbes
134. Reconstructing the plasma temperature by optical probing method in femtosecond laser hydrogen jet interaction
L. Yang, C. Bernert, L. Huang, S. Assenbaum, M. Rehwald, K. Zeil, U. Schramm, I. Goethel, T. Kluge, J. Vorberger and T.E. Cowan
135. Nuclear forward scattering of photochemical and catalytically active iridium complexes
M. Hooek, O. Leupold, A. Haag, Y. Becker, A. Omlor, J. Oltmanns, L. Knauer, T. Hochdörffer, R. Steinbrügge, A. Jafari, I. Sergueev, R. Röhlberger, W. Thiel, H.-J. Krüger, P.J. Sadler and V. Schünemann
136. Photo-fragmentation in hydrogen bonded indole-water clusters upon site-specific X-ray photoionisation
D. Koulentianos, S. Trippel and J. Küpper

III.4 Biology and life sciences

137. Maximum-likelihood phase retrieval for reference-enhanced single particle imaging
A. Mall and K. Ayyer
138. XRF analysis of human atherosclerotic plaques for calibration of scanning acoustic microscopy
P. Modregger, K. Spiers, Ö. Özgül, M. Burcin Unlu and B. Tanoren
139. Peptide-Conjugated Multiphase Cubosomes from Self-Assembly of PACAP-DHA as Neuroprotective Drug Delivery Nanoparticles
A. Angelova, M. Drechsler, V.M. Garamus and B. Angelov
140. Form-factor retrieval from XFEL-SAS
C. Blanchet, A. Round, M. Graewert, H. Mertens, D. Franke, H. Chapman, A. Mancuso and D. Svergun
141. P11 – High-throughput Macromolecular Crystallography Beamline
S. Chatziefthymiou, E. Crosas, B. Kistner, G. Pompidor, H. Taberman, J. Song and J. Hakanpää
142. Developments in biological small-angle X-ray scattering at EMBL-Hamburg
A. Gruzinov, M.A. Schroer, C.E. Blanchet, M. Graewert, A. Kikhney, H. Mertens, D. Franke, C.M. Jeffries and D.I. Svergun
143. Multi-Scale Phase-Contrast Tomography of Small-Animal Cochleae
J. Schaeper, C. Kampshoff, B. Wolf, D. Keppeler, T. Moser and T. Salditt
144. Structure-Function Analysis of Penicillin-binding Protein from Staphylococcus Epidermidis
M. Schwinzer, H. Rhode and C. Betzel
145. Structure-Function Analysis of Caseinolytic Protease P (ClpP) Modulation by the Boronate Derivative Ixazomib
B. A. França, H. Rohder and C. Betzel
146. The Biomedical Insert Project at Beamline P61A
E. Schültke, S. Fiedler, G. Abreu Faria, C. Mewes, J. Klingenberg, F. Prehn, M. Wegner, G. Hildebrandt and E. Gargioni
147. Cochleate Lipid Systems: Structural Insights
P. Garidel and S. Funari

148. Downstream Interaction regions for Serial-SFX at the SPB/SFX instrument of the European XFEL
A. Round, R. Bean, J. Bielecki, T. Deitze, J.E. Han, C. Kim, Y. Kim, H. Kirkwood, J. Koliyadu, R. Letrun, L. Lopez, B. Manning, A. Meents, G. Mills, N. Reimers, T. Sato, J. Schulz, M. Sikorski, C. Takemand, P. Thute, P. Vagovic, M. Vikili, R. de Wijn, H. Chapman and A.P. Mancuso
149. Enhancing orientation recovery in biological X-ray SPI with neural networks
A. Bellisario, F.R.N.C. Maia and T. Ekeberg
150. Dynamic structure investigation of biomolecules with supervised and unsupervised machine learning
A. Kotobi, L. Schwob, G. B. Vonbun-Feldbauer, M. Rossi, P. Gasparotto, S. Bari and R.H. Meißner
151. Phase-Contrast Microtomography at the Imaging Beamline
M. Riedel, A. Gustschin, M. Busse, P. Thibault, J.U. Hammel, J. Moosmann, F. Beckmann and J. Herzen
152. Multi-scale analysis on otolith shape reveals differences in ontogenesis and sex in the European hake *Merluccius merluccius* in the western Adriatic Sea
Q. Palazzo, M. Stagioni, S. Raaijmakers, R.G. Belleman, F. Prada, J.U. Hammel, S. Fermani, J. Kaandorp, S. Goffredo and G. Falini
153. Three-dimensional virtual histology of lung tissue
J. Reichmann, S. Verleden, M. Kühnel, J-C. Kamp, L. Neubert, C. Blaurock, T.Q. Bui, A. Balkema-Buschmann, D. Jonigk and T. Salditt
154. Orientational dependence of molecular vibrational modes of VFE-Nitrogenase
J. Oltmanns, C. Trncik, J.A. Wolny, M. Hooek, L. Knauer, T. Hochdörffer, R. Steinbrügge, O. Leupold, I. Sergeev, H.-C. Wille, O. Einsle and V. Schünemann
155. X-ray Holography of Cavitation Dynamics with Single FEL pulses
H.P. Hoeppe, M. Osterhoff, J. M. Roselloó, M. Vassholz, J. Hagemann, A. Aghelmaleki, A. Schropp, R. Mettin, F. Seiboth, C.G. Schroer, M. Scholz, J. Möller, J. Hallmann, U. Boesenberg, C. Kim, A. Zozulya, W. Lu, R. Shayduk, R. Schaffer, A. Madsen and T. Salditt
156. Imaging of biological samples on fixed target
K.Y. Bustos Garnica
157. Determination of electronic structure of prospective copper-based chemotherapeutics with the XAS method
W. Stańczyk, J. Czapla-Masztafiak, A. Wach, E. Pięta, R. Fanselow, W. Blachucki, J. Szlachetko and W.M. Kwiątek
158. Classification of diffraction patterns using a convolutional neural network (CNN) in single particle imaging (SPI) experiments performed at X-ray free-electron lasers
D. Assalauova, A. Ignatenko, F. Isensee, S. Bobkov, D. Trofimova and I. Vartanyants
159. Single Particle X-Ray Imaging of Tick-Borne Encephalitis Virus at the European XFEL (SPB/SFX experiment 2671)
D.I. Osolodkin, M.F. Vorovich, E. Round, R. Bean, J. Bielecki, E.V. Khvatov, A.L. Ivanova, V.I. Uvarova, D. Assalauova, A. Ignatenko, S. Bobkov, R. Kurta, G. Armeev, A. Tesluyk, E. Sobolev, A.V. Moiseenko, O.S. Sokolova, D.V. Bagrov, V.A. Ilyin, M. Rychev, I.A. Vartanyants, A.P. Mancuso, A.M. Egorov and A.A. Ishmukhametov
160. Towards revealing the unique allosteric resistance mechanism of PBP2a of *Staphylococcus aureus* at X-ray free electron lasers
A. Grieco, M. Chang, S. Mobashery, J.A. Hermoso and J.M. Martin-Garcia
161. Industrial Access to the High-Throughput Macromolecular Crystallography P11 Beamline at PETRA III
O. Wendt, D. Safi, S. Chatziefthymiou, G. Pompidor, J. Meyer, B. Kistner, J. Hakanpää and E. Crosas

162. Breaking Mach 1: MX Data Jets through Analysis to Storage at Supersonic FPS
M. Nikolova, K. Kovalev, A. d'Amato, S. Fiedler, T. R. Schneider and G. Bourenkov
163. Influence of saccharides on structural changes in lipid membranes induced by photoswitchable glycolipids
S.C. Hövelmann, J.E. Warias, K. Hansen, J. Kuhn, R.P. Giri, A. Sartori, P. Jordt, C. Shen, F. Reise, O.M. Magnussen, T. Lindhorst and B.M. Murphy
164. Microbeam and broadbeam radiation of a 3D-printed tumor model in a rat phantom
F. Prehn, M. Wegner, M. Al-Zeer, C. Mewes, E. Gargioni, J. Klingenberg, S. Fiedler, G. Abreu Faria, G. Hildebrandt and E. Schültke
165. Defensive anatomy of stick insects imaged in various tomographic geometries
P. Meyer, M. Niekampf, J. Frohn and T. Salditt
166. Quality assessment of single-particle diffraction dataset from Tick-Borne encephalitis virus measured at European XFEL
G. Armeev, E. Sobolev, S. Bobkov, J. Bielecki, D. Assalauova, A. Ignatenko, M. Vorovich, M. Rychev, A. Shaytan, R. Kurta, R. Bean, L. Gelisio, D.I. Osolodkin, A.P. Mancuso, V.A. Ilyin, K.V. Shaitan, M.P. Kirpichnikov, A.M. Egorov, A.A. Ishmukhametov and I.A. Vartanyants
167. A Pipette Aspiration Setup for X-ray Imaging
H. Bruns and T. Salditt
168. Small compound crystal screening with SARS-CoV-2 methyltransferases
V. Kremling, J. Sprenger, S. Falke, T. Lane, C. Ehrt, P. Middendorf, B. Klopprogge, A. Kiene, J. Carnis, M. Galchenkova, L. Gelisio, S. Chatziefthymiou, A. Henkel, O. Yefanov, D. Oberthür and H.N. Chapman
169. 3d structure of human brain regions by holo-tomography: Alzheimer's disease vs. control
M. Eckermann, B. Schmitzer, F. v.d. Meer, J. Franz, O. Hansen, C. Stadelmann and T. Salditt
170. Analytical Nanoscopy using Soft and Tender X-ray Synchrotron Radiation
A. Haidl, L. Luehl, H. Tost, K. Eusterhues, J. Thieme, A. Dehlinger, B. Kanngiesser and T. Wilhein

III.5 Films, surfaces and interfaces

171. n.a.
172. In situ total scattering at grazing incidence and pair distribution function analysis of the local structure of thin films
A.-C. Dippel, O. Gutowski, M. Roelsgaard, B.B. Iversen, M. Sturm and M. v. Zimmermann
173. Design and Application Prospect of Low-Dimensional Structure Probe at High Energy Photon Source
H.-H. Wang, Z. Shen, W. Guo and Y. Chen
174. Superlattice deformation in PbS quantum dot thin films introduced by uniaxial strain: In situ GISAXS study on the correlation of morphology and photoluminescence
J. E. Heger, F.A.C. Apfelbeck, H. Zhong, C. Harder, C.L. Weindl, R. Boldt, L. Schraa, E. Euchler, K. Schneider, M. Schwartzkopf, S.V. Roth and P. Müller-Buschbaum
175. Investigating gold-polymer nanocomposites prepared by HiPIMS
Y. Bulut, K. Reck, M. Schwartzkopf, J. Drewes, S. Liang, T. Guan, T. Strunskus, F. Fraupel, P. Müller-Buschbaum and S. V. Roth
176. Quantitative comparison of the magnetic proximity effect in Pt detected by XRMR and XMCD
D. Graulich, J. Krieff, A. Moskaltsova, J. Demir, T. Peters, T. Pohlmann, F. Bertram, J. Wollschläger, J. R. Linares Mardegan, S. Francoual and T. Kuschel

177. Bio-templated titanium dioxide SERS sensors with tunable morphology and crystallinity
Q. Chen, M. Betker, C. Harder, M. Schwartzkopf, N.M. Ulrich, M.E. Toimil-Molares, C. Trautmann, D.L. Söderberg, V. Koerstgens, P. Mueller-Buschbaum and S.V. Roth
178. Effect of an electric field on a ferromagnetic/ferroelectric interface in Fe/PMN-PT artificial multiferroic heterostructures
M. Rodrigues, S. Basov, I. Madarevic, A. Jafari, I. Sergeev, O. Leupold, M. V. Bael, A. Vantomme and K. Temst
179. Photoexcitation of Deep Gap States in MAPbBr₃ Perovskite Crystals
R. Kerr, A. Tanner, T. Macdonald, J. Davies, H. Fielding and G. Thornton
180. Indium nanoparticles phase transition in/on organic matrix
O.V. Molodtsova, I.M. Aristova, D.V. Potorochin, I.I. Khodos, A.N. Chaika and V.Yu. Aristov
181. Observation of the new mechanism of graphene growth on silicon carbide substrate
V. Aristov, A. Chaika, O. Molodtsova and D. Potorochin
182. Soft X-ray ptychography to characterise plasma surface modification
M. Mehrjoo, M. Ravandeh, K. Kharitonov, M. Ruiz-Lopez, B. Keitel, R. Pan, S.-G. Gang, S. Kreis, P. Palm, K. Wende and E. Plönjes
183. Femtomagnetism on the Nanoscale
M. Riepp, L. Müller, A. Philippi-Kobs, M. Walther, R. Rysov, S. Marotzke, K. Bagschik, J. Wagner, R. Frömter, R. Pan, B. Manschwetus, N. Stojanovic, E. Pedersoli, F. Capotondi, M. Kiskinova, H.P. Oepen and G. Grübel
184. Time-resolved in-situ investigation of Co-nitride thin film growth by grazing incidence X-ray absorption spectroscopy
F. Braun, L. Voss, F. Eckelt, P. Rothweiler, S. Paripsa and D. Lützenkirchen-Hecht
185. In-situ investigation of the morphology evolution of printed non-fullerene organic solar cells based on different solvent processing
X. Jiang, P. Chotard, K. Luo, S. Tu, M.A. Scheel, M. Schwartzkopf, S.V. Roth and P. Müller-Buschbaum
186. Assessment of nanoparticle immersion depth at liquid interfaces from chemically equivalent macroscopic surfaces
J. Smits, R. Prasad Giri, C. Shen, B. Murphy, P. Huber, K. Rezwani and M. Maas
187. Soft matter at full hydration: a new sample chamber for structural studies on single and pauci-layered films
L.B. Hansen, B. Klösgen, D. Kyrping and C. Shen
188. Topological Insulator/Ferromagnet Heterostructures – Sample Design and First Photoelectron Spectroscopy Results
S. Marotzke, A. Philippi-Kobs, L. Müller, M. Kalläne, J. Buck, S.K. Mahatha, W. Roseker, M. Riepp, S. Hesselmann, N. Huse, G. Grübel and K. Rossnagel
189. Theoretical description of time-resolved photoelectron microscopy and X-ray photoelectron diffraction probing excited-state dynamics of molecules adsorbed on a substrate
M. Reuner, K. Baumgärtner, M. Scholz and D. Popova-Gorelova
190. The influence of toluene in a Si/Ge sol-gel approach
Christian L. Weindl, Christian E. Fajman, Thomas F. Fässler and Peter Müller-Buschbaum
191. Ultrafast photoinduced interfacial charge transfer between water and anatase TiO₂(101)
M. Wagstaffe, A. Dominguez-Castro, L. Wenthaus, S. Palutke, D. Kutnyakhov, M. Heber, F. Pressacco, S. Dziarzhyski, H. Gleissner, V. K. Gupta, H. Redlin, A. Dominguez, T. Frauenheim, A. Rubio, H. Noei and A. Stierle
192. Operando Investigation of PTQ-2F:BTP-4F Organic Solar Cell Degradation Processes
L. V. Spanier, R. Guo, J. E. Heger, Y. Zou, M. Schwartzkopf, S.V. Roth and P. Müller-Buschbaum

193. Ultrafast dynamics in robust surface state of the topological insulator Bi_2Se_3 beyond damage threshold
M. Heber, D. Kutnyakhov, F. Pressacco, N. Wind, K. Bühlmann, D. Curcio, K. Volckaert, Ch. Sanders, S. Y. Agustsson, K. Medjanik, L. Wenthaus, H. Meyer, S. Gieschen, S. Dziarzhyski, H. Redlin, Y. Acremann, Ph. Hofmann, G. Schönhense, W. Wurth and K. Rossnagel
194. Interaction of colloidal inks with nanoporous cellulose
C. Harder, M. Betker, A. E. Alexakis, M. Gensch, Q. Chen, E. Erbes, B. Sochor, A. Chumakova, A. Vagias, C. J. Bretta, J. Rubeck, M. Schwartzkopf, D. Söderberg, E. Malmström, P. Müller-Buschbaum and S. V. Roth
195. In situ X-ray investigation at liquid metal/electrolyte interfaces
A. Sartori, R. P. Giri, S. Hoevelmann, J. Warias, Q. Cheek, S. Maldonado, O.M. Magnussen and B.M. Murphy
196. Effect of doping technique on the structure and thermoelectric properties of P3HT-based thin films
B. Sochor, A.-L. Oechsle, C. Harder, M. Schwartzkopf, A. Vorobiev, P. Müller-Buschbaum and S.V. Roth
197. All-optical spin injection in silicon revealed by element specific time-resolved Kerr effect
S. Laterza, A. Caretta, R. Bhardwaj, R. Flammini, P. Moras, M. Jugovac, P. Rajak, M. Islam, R. Ciancio, V. Bonanni, B. Casarin, A. Simoncig, M. Zangrando, P. R. Ribič, G. Penco, G. De Ninno, L. Giannessi, A. Demidovich, M. Danailov, F. Parmigiani and M. Malvestuto
198. Time response studies of liquid-vapor interfaces using optical pump – X-ray probe technique
R.P. Giri, S. Hoevelmann, J. Warias, A. Sartori, D. Le Bideau, M. Greve, F. Bertram, O. Magnussen and B. Murphy
199. Thermal annealing in FeCoSiB metallic glass films investigated with Atomic Pair Distribution Function methods
N. Hayen, P. Jordt, N. Wolff, A.-C. Dippel, S. Banerjee, F. Yang, O.M. Magnussen, L. Kienle and B.M. Murphy
200. Time resolved X-ray pump-probe studies of aqueous alkali metal halide solution interfaces
L. Petersdorf, S. Hövelmann, R. Giri, N. Hayen, K. Hansen, A. Sartori, M. Greve, F. Bertram, O. Magnussen and B. Murphy
201. Structural investigation of lithium iron phosphate electrodes for lithium-ion batteries with single-ion conducting polymer binder
F. A.C. Apfelbeck, Julian E. Heger, T. Guan, M. Schwartzkopf, S.V. Roth and P. Müller-Buschbaum
202. *In Operando* Soft X-Ray Photoemission Spectroscopy of Memristive 2D Material Devices
A. Nierhauve, T. Zimmermann, M. Källäne, J. Buck, T. Riedel, P. Kagerer, Z. Geng, C. Zhang, F. Schwierz, M. Ziegler and K. Rossnagel

III.6 Material science

203. Phase boundary segregation-induced strengthening of quenching and partitioning process in commercial medium-carbon silicon steels
M. Masoumi, A. Ariza, D. Andrade and F. Moreno
204. Applying Density Functional Tight Binding approach to study X-ray-induced phase transitions in solids
V. Lipp, V. Tkachenko, M. Stransky, B. Aradi, T. Frauenheim and B. Ziaja
205. Molecular Dynamics Simulations of Inelastic X-Ray Scattering from Shocked Copper
O. Karnbach, P. Heighway, D. McGonegle, R. Rudd, G. Gregori and J. Wark
206. Study of the anisotropy of 3D printed lyotropic liquid crystals by in situ imaging techniques
A. Rodriguez-Palomo, V. Lutz-Bueno, M. Guizar-Sicairos, X. Cao, R. Kádár, M. Andersson and M. Liebi

207. X-ray diffraction with micrometer spatial resolution for highly absorbing samples
P. Chakrabarti, A. Wildeis, M. Hartmann, R. Brandt, V. Galbierz, K. V. Falch, J. Garrevoet, G. Falkenberg, M. Stueckelberger, G. Fevola and P. Modregger
208. Polyethylene and PMMA under XFEL irradiation
N. Medvedev, J. Chalupsky and L. Juha
209. Fast fabrication of sustainable cellulose-based electrodes via spraying
M. Betker, C. Harder, E. Erbes, J. Heger, A.E. Alexakis, M. Schwartzkopf, A. Chumakov, Q. Chen, L.D. Söderberg and S.V. Roth
210. In situ GIWAXS perovskite formation analysed with the new software INSIGHT
M.A. Reus, L.K. Reb, C. Rosemann, M. Schwartzkopf, S.V. Roth and P. Müller-Buschbaum
211. Hidden Charge Order in an Iron Oxide Square-Lattice Compound
J.-H. Kim, D. C. Peets, M. Reehuis, P. Adler, A. Maljuk, T. Ritschel, M. C. Allison, J. Geck, J.R.L. Mardegan, P.J. Bereciartua Perez, S. Francoual, A.C. Walters, T. Keller, P.M. Abdala, P. Pattison, P. Dosanjh and B. Keimer
212. Microsecond hydrodynamic interactions in colloidal dispersions probed at the European XFEL
F. Dallari, J. Möller, U. Boesenberg, C. Goy, J. Hallmann, Y. Kim, I. Lokteva, G. Mills, A. Rodriguez-Fernandez, W. Roseker, M. Scholz, R. Shayduk, P. Vagovic, M. Walther, F. Westermeier, A. Madsen, G. Grübel and F. Lehmkuhler
213. Charge Carrier Screening in Photoexcited Epitaxial Semiconductor Nanorods Revealed by Transient X-ray Absorption Linear Dichroism
T.C. Rossi, C.P. Dykstra, T.N. Haddock, R. Wallick, J.H. Burke, C.M. Gentle, G. Doumy, A.-M. March and R.M. van der Veen
214. First users run at P66 beamline
A. Kotlov and I. Schostak
215. In situ study of the porosity evolution of a hierarchically porous catalyst by X-ray ptychography
S. Weber, A. Schropp, M. Lyubomirskiy, M. Kahnt, A. Jeromin, S. Kulkarni, T.F. Keller and T.L. Shepard
216. X-ray absorption spectroscopy study of Ga and Bi doped ZnO thin films
F.C. Correia, J.M. Ribeiro, A. Kuzmin, I. Pudza, A. Kalinko, E. Welter, A. Mendes, J. Rodrigues, N.B. Sedrine, T. Monteiro, M.R. Correia and C.J. Tavares
217. NIS and operando NFS investigations of 57Fe-porphyrin based hydrogen evolution reaction model catalysts
N. Heppe, C. Gallenkamp, S. Paul, N. Segura-Salas, I. Sergeev, V. Potapkin, V. Krewald and U.I. Kramm
218. Dynamics of Protein Solutions studied by SAXS-XPCS at large Q-values
M. Akhundzadeh, H. Rahmann, A. Girelli, A. Ragulskaya, N. Begam, A. Al-Massodi, S. Timmermann, C. Lovato, M. Reiser, F. Westermeier, M. Sprung, C. Gutt, F. Zhang and F. Schreiber
219. Unveiling the impact of ultra high vacuum annealing levels on physico-chemical properties of bulk ZnSe semiconductor
M.S. Halati
220. Magnetic X-ray standing waves - first experimental results
M. Kamiński, H. Schulz-Ritter and M. Tolkehn
221. Stabilization of the premartensite phase in Ni-Mn-In magnetic shape memory alloy by Al substitution
A.K. Singh, S. Singh, B. Dutta, K. K. Dubey, B. Joseph, R. Rawat and D. Pandey
222. Ferroelectric and Incommensurate Phase Transition at Hydrogen bonded Organic Cocrystal
L. Noohinejad, S. van Smaalen, C. Paulmann and M. Tolkehn

223. Electronic and atomistic phenomena during ultrashort-pulse laser inscription of optical centers in diamond
S. Kudryashov, P. Danilov, N. Smirnov, G. Krasin, N. Stsepuro and M. Kovalev
224. A thermoresponsive poly(2-oxazoline)-based molecular brush in aqueous solution: effect of a cosolvent
B. Yazdanshenas, C. Spies, K. Shehu, C. Sachse, S. Da Vela, R. Jordan and C.M. Papadakis
225. Tailoring ordered mesoporous titania films via introducing germanium nanocrystals for enhanced electron transfer photoanodes for photovoltaic applications
N. Li, R. Guo, W. Chen, V. Körstgens, J. E. Heger, M. Schwartzkopf, S.V. Roth and P. Müller-Buschbaum
226. Active Sites of Te in Hyperdoped Si by Hard X-ray Photoelectron Kikuchi-Diffraction
M. Hoesch, M. Wang, S. Zhou, O. Fedchenko, Ch. Schlüter, D. Potorochin, K. Medjanik, S. Babenkov, A. Ciobanu, A. Winkelmann, H.J. Elmers and G. Schönhense
227. Influence of the alloying elements on deformation mechanisms in Mg alloy sheets containing Y or Ca
C. Ha, E. Maawad, Y. M. Kim, D. Letzig and S. Yi
228. Magnetic Structure Determination using MagStREXS
P. J. Bereciartua, S. Francoual, W. Xie, J. Rodríguez-Carvajal and F.-E. Picca
229. Understanding plastic instability in extruded Mg-Mn based alloys
S.K. Woo, R. Pei, T. Al-Samman, D. Letzig and S. Yi
230. Machine Learning application XANES analysis of Pd nanocatalysts
O.A. Usoltsev, A.L. Bugaev, A.A. Guda, S.A. Guda and A.V. Soldatov
231. Thermal structural stability of lithium intercalated graphites
T. Hölderle, V. Baran, A. Schökel, M.J. Mühlbauer, M. Monchak, P. Müller-Buschbaum and A. Senyshyn
232. Abundant study of local structure peculiarities in $\text{Cu}_{1-y}\text{Zn}_y\text{Mo}_{1-x}\text{W}_x\text{O}_4$ solid solutions
I. Pudza, A. Anspoks, A. Cintins, A. Kalinko, R. Chernikov, G. Aquilantic and A. Kuzmin
233. Lithium distribution in negative electrodes of cylindrical 21700-type lithium-ion batteries
D. Petz, V. Baran, M.J. Mühlbauer, A. Schökel, C. Paulmann, P. Müller-Buschbaum and A. Senyshyn
234. Angular X-ray Cross-Correlation Analysis Applied to the Scattering Data in 3D Reciprocal Space from Single Mesocrystal Grains
D. Lapkin, A. Shabalin, J.-M. Meijer, R. Kurta, M. Sprung, A.V. Petukhov and I.A. Vartanyants
235. Binding of ethylene and 1-MCP in HKUST-1 metal-organic framework both experimental and theoretical investigation
A. Pnevskaya, A. Bugaev, A. Tereshchenko and A. Soldatov
236. Assembly of polymer coated iron oxide nanoparticles induced by magnetic field
V. Fokina, M. Kruteva, M. Dulle, S. Ehlert, A. Chumakov, S. Roth and S. Förster
237. INSIGHT - A New GIXS Analysis Software Tool
L.K. Reb, M.A. Reus, C. Rosemann, M. Schwartzkopf, S.V. Roth and P. Müller-Buschbaum
238. Ultrafast manipulation of the NiO antiferromagnetic order via sub-gap optical excitation
X. Wang, R. Y. Engel, I. Vaskivskiy, D. Turenne, V. Shokeen, A. Yaroslavtsev, O. Grånäs, R. Knut, J.O. Schunck, S. Dziarzhyski, G. Brenner, R.-P. Wang, M. Kuhlmann, F. Kuschewski, W. Bronsch, C. Schüssler-Langeheine, A. Styervoyedov, S.S.P. Parkin, F. Parmigiani, O. Eriksson, M. Beye and H.A. Dürr
239. Dynamics of monoclinic to orthorhombic phase transition in ferroelectric (K,Na)NbO₃
P. Gaal, J. Schwarzkopff, C. Richter, D. Schmidt, M. Khosla and B. Kubicki

240. Recent progress and future plan of multi-anvil in situ X-ray diffraction experiments at P61B by the BGI UltraLVP group
T. Katsura, A. Chanyshv, D. Bondar, E.J. Kim, F. Wang, N. Purevjav, L. Wang, H. Tang, A. Chakraborti and H. Fei
241. Removal of Heavy Metals from Water by Porous Materials
P. Rajput
242. Sintered bulk Molybdenite (MoS₂) crystallinity study through high resolution X-Ray diffractometry
M. Pakmehr and J. Plaisier
243. Two novel Schiff base Pd(II) complexes based on 3,5-Diiodo- and 3,5-Dibromosalicylaldehydes: synthesis and characterization
A. Skorynina, A. Bugaev, V. Butova, P. Morozov, E. Khramov and A. Soldatov
244. Nickel-doped ceria nanoparticles as promoters of Ni-YSZ electrodes for Solid Oxide Electrolysis Cells
B. Mewafy, F. Paloukis, W. Derafa, K. Papazisi, D. Teschner, C. Petit and S. Zafeiratos
245. New Frontiers in Liquid-Jet Photoelectron Spectroscopy
K. Mudryk, M. Pugini, D. Stemer, S. Malerz, F. Trinter, T. Buttersack, U. Hergenhahn, I. Wilkinson, P. Slavíček, S. Thürmer, G. Meijer and B. Winter
246. Modeling of ultrafast magnetization decrease in X-ray irradiated cobalt
K.J. Kapcia, V. Tkachenko, F. Capotondi, A. Lichtenstein, S. Molodtsov, L. Mueller, A. Philippi-Kobs, P. Piekarz and B. Ziaja
247. Investigation of the bulk Electronic Structure of CeMnNi₄
P. Sadhukhan, S. W. D'Souza, V. K. Singh, R.S. Dhaka, A. Gloskovskii, S.K. Dhar, P. Raychaudhuri, A. Chainani, A. Chakrabarti and S.R. Barman
248. Structural and thermophysical properties of undercooled CuTi melts
L.P. Kreuzer, F. Yang, Z. Evenson, D. Holland-Moritz, A. Bernasconi, T. Hansen, A. Meyer and W. Petry
249. High pressure XPS studies of Fischer-Tropsch reactions on Co(0001). Advancing POLARIS towards PETRA IV
P. Lömker, J. Gladh, D. Degerman, M. Shipilin, C. Goodwin, H.-Y. Wang, A. Holm, M. Soldemo, N. Köpfle, K. Ploner, T. Götsch, H. Noei, M. Wagstaffe, R. Rameshan, C. Schlueter, A. Nilsson and P. Amann
250. Rational design of bimetallic of Au- and Pd- based on photocatalysts
A. Dobrovolskaya, A. Bugaev, E. Kozyr, V. Butova and A. Soldatov
251. From X-ray-optical wavemixing towards nonlinear crystallography
D. Krebs, C. Bömer and N. Rohringer
252. In situ GISAXS/GIWAXS studies on the processing steps of hybrid solar cells: Printing, spray and sputter deposition
V. Körstgens, S.V. Roth, R. Kienberger and P. Müller-Buschbaum
253. Influence of geometries in additively manufactured AlSi10Mg
M.-A. Nielsen, P. Staron, E. Maawad, J. Keckes, S. Bodner and M. Müller

III.7 Nano science

254. Coherent diffractive imaging with an objective lens
J. Soltau, M. Osterhoff and T. Salditt
255. Analysis of Gold (Au) mesocrystals from CDI experiment at PETRA III
S. Singh, D. Assalauova, D. Lapkin, R. Khubbutdinov, R. Rysov, A. Ignatenko, A. Shabalin, M. Sprung, E. Sturm and I.A. Vartanyants

256. Self-assembled Micelles From pH-responsive Copolymer Solutions
Y. Li, C.-H. Ko, V. Chrysostomou, D. S. Molodenskiy, S. Pispas and C.M. Papadakis
257. Temperature-dependent in situ GISAXS and GIWAXS experiments of noble metals and nano-alloys embedded in the silica matrix
H. Jataw, M. Schwartzkopf, A. Chumakov, S.V. Roth and D. Kabiraj
258. In situ growth of combinatorial plasmonic nanogranular layers for SERS application
T. Guan, S. Liang, Y. Bulut, K. Reck, M. Schwartzkopf, J. Drewes, T. Strunskus, F. Faupel, S. V. Roth, L. Jiang and P. Müller-Buschbaum
259. NFFA-Europe Pilot (NEP)
J. Dwivedi, A. Stierle and T.F. Keller
260. Conformational space sampling based on Monte Carlo method in XFEL experiment
Z. Shen, K. Ayyer and D. Loh
261. Programmable DNA-Origami Molecular Scaffolds for Holographic Single-Particle Diffractive Imaging
P.L. Xavier, A.P. Mancuso, N.C. Seeman and H.N. Chapman
262. Discrete 3D Scanning X-ray Diffraction Microscopy of a Microchip
S. Achilles, M. Scholz, M. Kahnt, F. Wittwer, M. Seyrich, L. Grote, A. Schropp and C. Schroer
263. Three-dimensional in-situ imaging of single-grain growth in polycrystalline films
D. Dzhigaev, P.-A. Repecaud, Y. Smirnov, L. A. B. Marçal, G. Fevola, D. Sheyfer, Q. Jeangros, W. Cha, R. Harder, A. Mikkelsen, J. Wallentin, M. Morales-Masis and M.E. Stuckelberger

IV Author Index (Submitting author only)

(Submitting author and poster number)

Achilles, Silvio	262	Erko, Alexei	32
Akhundzadeh, Mohammad Sayed	218	Fainozzi, Danny	65
Albers, Christian	85	Fanselow, Rafał	70
Alves França, Bruno	145	Farla, Robert	8
Angelov, Borislav	139	Fokina, Vladislava	236
Apfelbeck, Fabian Alexander Christian	201	Frohn, Jasper	94
Aristov, Victor	181	Funke, Lars	97
Armeev, Grigoriy	166	Gabalski, Ian	133
Arnold, Tom	88	Galchenkova, Marina	90
Assalauova, Dameli	158	Gang, Seung-gi	78
Bastian, Björn	106	Garidel, Patrick	147
Baumann, Thomas	51	Gerharz, Miriam	126
Bellisario, Alfredo	149	Giri, Rajendra Prasad Giri	198
Berberich, Tim	38	Gorelova, Daria	27
Bereciartua, Pablo	228	Goy, Claudia	5
Bernát, Ondrej	72	Grieco, Alice	160
Bertram, Florian	9	Griewatsch, Karin	16
Betker, Marie	209	Gruzinov, Andrey	142
Blasetti, Cecilia	2	Gryzlova, Elena	119
Borchert, Manuela	30	Guan, Tianfu	258
Brenner, Günter	44	Ha, Changwan	227
Bruns, Hendrik	167	Hagemann, Johannes	59
Buhr, Ticia	105	Haidl, Andreas	170
Burchert, Jan-Philipp	58	Hakanpaeae, Johanna	141
Burian, Max	57	Halati, Mohamed Salah	219
Bustos Garnica, Karol Yanilud	156	Harder, Constantin	194
Cardoch, Sebastian	121	Hauk, Julia	3
Caretta, Antonio	75	Hayen, Nicolas	199
Carnis, Jerome	19	Heber, Michael	193
Chakrabarti, Prerana	207	Heger, Julian Eliah	174
Chen, Qing	177	Henkel, Alessandra	31
Correa, Jonathan	35	Heppe, Nils	217
Creutzburg, Marcus	171	Hölderle, Tobias	231
Crosas Ubeda, Eva	161	Hoeppe, Hannes	155
Dallari, Francesco	212	Hoesch, Moritz	226
Das, Srashtasrita	93	Hövelmann, Svenja	163
Degenhardt, Markus	37	Hoock, Maren	135
Degerman, David	39	Ignatova, Nina	107
Dippel, Ann-Christin	172	Ilchen, Markus	87
Dobrovolskaya, Arina	250	Inhester, Ludger	122
Doppler, Diandra	64	Jaisle, Nicolas	99
Dora, Johannes	91	Jatav, Hemant	257
Dose, Thomas	29	Jiang, Xinyu	185
Dreimann, Matthias	17	Jin, Wuwei	76
Dresselhaus, Jan Lukas	74	Kaminski, Michal	220
Dwivedi, Jagrati	259	Kapcia, Konrad J.	246
Dzhigaev, Dmitry	263	Karabekyan, Suren	21
E, Juncheng	66	Karnbach, Oliver	205
Eckermann, Marina	169	Karras, Gabriel	49
Engler, Thea	82	Katsura, Tomoo	240
Erk, Benjamin	116	Keller, Thomas	12

Kerr, Robin	179	Nawaz, Shah	81
Khadiev, Azat	45	Nielsen, Marc-André	253
Khakhulin, Dmitry	79	Nierhauve, Alena	202
Khosla, Mallika	239	Nikolova, Marina	162
Khubbutdinov, Ruslan	98	Noohinejad, Leila	222
Kimberg, Victor	103	Novikov, Dmitri	13
Kiselev, Maksim	131	Oltmanns, Jonathan	154
Klösger, Beate	187	Osolodkin, Dmitry	159
Klumpp, Stephan	11	Osterhoff, Markus	42
Körstgens, Volker	252	Pakmehr, Mike	242
Kotlov, Aleksei	214	Palazzo, Quinzia	152
Kotobi, Amir	150	Pan, Rui	6
Koulentianos, Dimitrios	136	Papadopoulou, Christina	89
Krebs, Dietrich	251	Pateras, Anastasios	40
Kremling, Viviane	168	Peets, Darren	211
Kreuzer, Lucas	248	Pennicard, David	52
Kubec, Adam	18	Petersdorf, Lukas	200
Kudryashov, Sergey	223	Petz, Dominik	233
Kuschel, Timo	176	Philippi-Kobs, Andre	188
Kuster, Markus	28	Pnevskaya, Anna	235
Kuzmin, Alexei	216	Prehn, Franziska	164
Laksman, Joakim	102	Prencipe, Irene	123
Lapkin, Dmitry	234	Protsenko, Bogdan	68
Laterza, Simone	197	Pudza, Inga	232
Leroux, Juliette	127	Pugini, Michele	245
Letrun, Romain	71	Rafie-Zinedine, Safi	56
Lever, Fabiano	112	Rajput, Priyadarshani	241
Li, Nian	225	Ramin Moayed, Mehdi	61
Li, Yanan	256	Reb, Lennart	237
Lienert, Ulrich	4	Reichmann, Jakob	153
Lipp, Vladimir	204	Reinwardt, Simon	113
Lömker, Patrick	249	Ren, Zhe	48
Löttsch, Robert	34	Reuner, Marvin	189
Lucht, Jens	96	Reus, Manuel	210
Lützenkirchen-Hecht, Dirk	184	Richard, Benoît	124
Maas, Michael	186	Riedel, Mirko	151
Malerz, Sebastian	53	Riepp, Matthias	183
Mall, Abhishek	137	Rodrigues, Michelle	178
Malvestuto, Marco	77	Rodriguez-Palomo, Adrian	206
Mannix, Oonagh	63	Röper, Sina	86
Marras, Alessandro	24	Rossi, Thomas	213
Masoumi, Mohammad	203	Round, Adam	148
Mayer, Dennis	104	Rysov, Rustam	54
Mazumder, Parichita	117	Sadhukhan, Pampa	247
Mazza, Tommaso	15	Sakrowski, Robin	111
Medvedev, Nikita	208	Saleh, Yahya	128
Mehrjoo, Masoud	182	Sartori, Andrea	195
Mertens, Haydyn	140	Sato Baraldi Dias, Carlos	92
Mewafy, Basma	244	Schaeper, Jannis	143
Mewes, Catharina	69	Schlenvoigt, Hans-Peter	114
Meyer, Paul	165	Schmidt, Daniel	62
Middents, Wilko	120	Schropp, Andreas	84
Modregger, Peter	138	Schültke, Elisabeth	146
Mohammadi Bidhendi, Mahdi	43	Schwarz, Julius	125
Molodtsova, Olga	180	Schwinzer, Martin	144
Moore, James	50	Seeck, Oliver	1

Sharma, Ayush	25	Wagstaffe, Michael	191
Shen, Zhou	260	Wang, Huan-hua	173
Singh, Anupam Kumar	221	Wang, Xiaocui	238
Singh, Mukhtar	109	Weber, Sebastian	215
Singh, Shweta	255	Weilbach, Tobias	55
Sinha, Mangalika	14	Weindl, Christian	190
Sishodia, Keshav	108	Wenthaus, Lukas	41
Skorynina, Alina	243	Westermeier, Fabian	10
Smid, Michal	47	White, Thomas	46
Sochor, Benedikt	196	Wind, Nils	95
Soltau, Jakob	254	Wolff, Lukas	130
Sosnowski, Jacek	60	Wolfgang, Caliebe	7
Spanier, Lukas	192	Wollenweber, Lennart	33
Spiecker, Rebecca	22	Woo, Sangkyu	229
Stańczyk, Wiktoria	157	Worbs, Lena	115
Storm, Malte	36	Wunderer, Cornelia	20
Stransky, Michal	132	Xavier, P Lourdu	261
Szamota-Leandersson, karolina	101	Yang, Guang	129
Tasca, Kelin R.	80	Yang, Long	134
Thürmer, Stephan	118	Yazdanshenas, Bahar	224
Trunk, Ulrich	26	Yefanov, Oleksandr	100
Usoltsev, Oleg	230	Yurkov, Mikhail	73
Uwe, Englisch	67	Yusuf, Bulut	175
Vadassery, Nidin	110	Zverev, Dmitrii	83
Vakili, Mohammad	23		