

# Prize Winners of the Innovation Award on Synchrotron Radiation

Year	Prize-Winner	Description of Work	Institution
2022/ 2023	Prof. Dr. Florian Grüner	In-situ and in-vivo tracking of immune cells, biomolecules, antibodies and drug carriers with advanced X-ray fluorescence imaging	CFEL/DESY/Hamburg University
2021	Prof. Marianne Liebi Dr. Manuel Guizar-Sicairos	Pioneering achievements in enabling and implementing small angle scattering tensor tomography	PSI
2020	Prof. Giuseppe Sansone Dr. Luca Giannessi Dr. Carlo Callegari Dr. Kevin Prince	Pioneering achievements in the development and application of innovative investigation methods exploiting the radiation emitted by seeded free electron lasers	Freiburg University Elettra Sincrotrone Trieste Elettra Sincrotrone Trieste Elettra Sincrotrone Trieste
2019	Prof. Heinz Graafsma Dr. Bernd Schmitt Dr. Aldo Mozzanica	Groundbreaking research and technology development that led to the Adaptive Gain Integrated Pixel Detector (AGIPD)	DESY PSI PSI
2018	Dr. Christian David Prof. Alexei Erko	Innovative Exploitation of Diffractive X-ray Optics Development	PSI HZB/IAP
2017	Dr. Bart Faatz Dr. Evgeny Schneidmiller Dr. Siegfried Schreiber Dr. Markus Tischer Dr. Mikhail Yurkov	Innovative applications of gap-tunable undulators with integrated phase shifters in SASE X-ray FELs	DESY, Hamburg, Germany
2016	Dr. Christian Tusche	Imaging spin-filters for spin-resolving momentum microscopy	Forschungszentrum Jülich

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2015	Dr. Claudio Masciovecchio	The first transient grating experiment in the soft X-ray range at the FERMI free-electron laser by exploitation of the coherent and multi-wave nature of the four-wave mixing process	Elettra Sincrotrone Trieste
2014	Dr. Mirko Holler PhD Ana Diaz PhD Manuel Guizar-Sicairos Dr. Jörg Raabe	Setting new standards in high resolution 3D hard X-ray microscopy by methodological developments of ptychography	PSI at the Swiss Light Source
2013	Prof. Mikael Eriksson	Realizing the concept and developing the technology of the multi-bend achromat storage ring towards diffraction limited synchrotron light source	MAX IV, Lund, Sweden
2012	Dr. Gianluca Geloni Dr. Vitali Kocharyan Dr. Evgeny Saldin Dr. Paul Emma	Development of hard X-ray self-seeding with wake monochromators – a novel approach for dramatic improvement of free electron X-ray lasers	European X-FEL, Hamburg DESY, Hamburg, Germany DESY, Hamburg, Germany LBNL, Berkeley, USA
2011	Dr. Kai Tiedke Ulf Jastrow Dr. Andrey A. Sorokin Udo Kroth Prof. Dr. Mathias Richter Prof. Dr. Sergey V. Bobashev	Development of gas monitor detectors for the absolute characterization of free electron lasers in the soft and hard X-ray regime	DESY, Hamburg, Germany  PTB, Berlin, Germany  Ioffe Institute, St. Peterburg, Russia

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2010	Prof. Dr. Bruno Lengeler Prof. Dr. Victor Kohn Dr. Irina Snigireva Dr. Anatoly Snigirev	Development of compound X-ray refractive lenses	RWTH Aachen, Germany ESRF, Grenoble, France Russian Research Center Kurchatov Institute, Moscow, Russia
2009	Dr Heiner Lammert Dr Tino Noll Frank Siewert Thomas Zeschke	Development and construction of a hybrid nano-deflection optical measurement machine (NOM) especially for synchrotron radiation optics	HZB / BESSY II, Berlin, Germany
2008	Vicente Rey Bakaikoa Dr. Olof Svensson	Decisive role and participation in the development of a custom-mized software environment on the ESRF macromolecular crys-tallography beam lines and its implementation at other European laboratories	ESRF, Grenoble, France
2007	Dr. C. Brönnimann Dr. E. Eickenberry Dr. R. Horisberger	Pioneering the technology of two-dimensional hybrid pixel array detectors in single photon counting mode for synchrotron X-ray applications, notably protein crystallography with the Pilatus 6M detector	PSI / DECTRIS , Villigen, Switzerland
2006	Dr. Thomas Schmidt Dr. Wilfried Engel Dr. Dirk Preikszas	Outstanding contributions to the realization of the worldwide most ambitious project in spectro-microscopy, the so called SMART project	Universität Würzburg, Germany FHI der MPG, Berlin, Germany Carl Zeiss NTS, Oberkochen, Germany

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2005	Dr. Peter Cloetens Olivier Hignette Dr. Christian Morawe	Development of highly performing Kirkpatrick-Baez focusing systems for third generation synchrotron radiation light sources	ESRF, Grenoble, France
2004	Prof. Dr. Ernst Bauer Dr. Andreas Oelsner Prof. Dr. Gerd Schönhense	Excellent contributions towards the development of the photoelectron emission microscope (PEEM) as energy, space and time resolved detection system of photoelectrons	TU Clausthal, Germany Universität Mainz, Germany Universität Mainz, Germany
2003	Dr. Michael Abo-Bakr Dr. Jörg Feikes Dr. Karsten Holldack Dr. Godehard Wüstefeld Dr. Heinz-Wilh. Hübers*	Development of a powerful broad band source of Terahertz radiation on the basis of an electron storage ring	BESSY GmbH, Berlin, Germany  DLR, Berlin, Germany
2002	PD. Dr. habil. Ralf Röhlsberger	Experimental realization of nuclear resonant scattering of synchrotron radiation on rotating media- the so-called nuclear light house effect - which allows spectroscopic applications of ultra high resolution	Universität Rostock, Institut für Physik, Germany
2001	Dr. Rolf Follath Dr. Friedmar Senf	Conceptual design, successful development and demonstration of highly resolving , universally applicable plane grating monochromators for soft X-rays	BESSY GmbH, Berlin, Germany