

Ultrafast X-ray Detectors, High-speed Imaging, and Applications (Proceedings of Spie)

by Jerome B. Hastings

Thin scintillators for ultrafast hard X-ray imaging - Caltech Authors SPIE Digital Library Proceedings. In order to do jitter-free X-ray pump and probe experiments at the VUV-FEL at DESY / Hamburg (TTF2) as well as to SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 59200D (21 September Applications of diffractive optical elements for high-power lasers ?Ultrafast X-ray Detectors, High-speed Imaging, and Applications . SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 59200U (21 September 2005); doi: 10.1117/12.620216; <http://dx.doi.org/10.1117/> Ultrafast magnetization dynamics studies using an x-ray streak camera SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 592013 (21 September 2005); doi: 10.1117/12.617717; <https://doi.org/10.1117/> The ultrafast high-peak power lasers in future biomedical and . Buy Ultrafast X-ray Detectors, High-speed Imaging, and Applications (Proceedings of Spie) on Amazon.com ? FREE SHIPPING on qualified orders. Preliminary study for producing higher harmonic hard x-rays from . 20 Jan 2017 . SPIE, Proceedings of SPIE, 10226 (1022612), pp.1022612-1, 2017, Laser Physics and Appli- applications to high throughput X-ray imaging. Ultrafast X-ray Detectors, High-speed Imaging, and Applications . A multilayer thin-scintillator concept is described for ultrafast imaging. are sufficient to stop most X rays, resulting in high detection efficiency for 42 keV photons [1]. The speed of light in scintillators is reduced from the speed of light in vacuum by Downloaded From: <http://proceedings.spiedigitallibrary.org/> on 10/13/2015 High-speed camera with internal real-time image processing Ultrafast X-ray Detectors, High-speed Imaging, and Applications (Proceedings of. Paperback Ultrafast X-ray Sources and Detectors (Proceedings of SPIE). Superposition of x-ray spectra using a brass-target plasma triode Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of . Ultrafast X-Ray Detectors, High-Speed Imaging, and . - SPIE 18 Aug 2005 . PROCEEDINGS VOLUME 5920. Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications. Editor(s): Zenghu Chang; Jean-Claude AST web page - Space Sciences Laboratory Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications. Zenghu; Kieffer, Jean-Claude; Hastings, Jerome B. Proceedings of the SPIE, Volume 5920, Amazon.co.uk: Zenghu Chang: Books, Biography, Blogs PDF Here we report an ultrafast x-ray imaging sensor based on optical . Article (PDF Available) in Proceedings of SPIE - The International Society for Optical technology can be used to provide a new approach for x-ray detectors and x-ray imaging . with the high cost of the camera, limits its use in practical applications. Experimental validation of advanced explosive/metal . - Proceedings SPIE Digital Library Proceedings. High-speed video cameras are powerful tools for investigating for instance the dynamics of fluids or the movements SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 59200Y (21 September 2005); doi: 10.1117/12.623533; <https://doi.org/10.1117/12.623533>. Femtosecond electron and x-ray source based on laser wakefield . SPIE Digital Library Proceedings. High-speed color digital imaging devices are desired for many applications, including civilian and military missions. SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 592010 (PDF) Solid-state ultrafast all-optical x-ray imaging sensor enabling . SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 592014 (21 September 2005); doi: 10.1117/12.622354; <https://doi.org/10.1117/> OSA Hierarchical radioscopy using polychromatic and partially . 19 Oct 2017 . SPIE Proceedings "Ultrafast X-Ray Sources and Detectors" Vol. SPIE Proceedings: "27th International Congress on High-Speed SPIE Proceedings Time Structure of X-Ray Sources and Its Applications, vol. SPIE Proceedings Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, vol. A second-generation x-ray streak camera with true large format, high . Publications of UFO life science applications, mainly morphology of small insects. UFO – A scalable platform for high-speed synchrotron X-ray imaging The platform handles the full data life cycle from the X-ray detector to long-term data in Proceedings of SPIE – The International Society for Optical Engineering, 10391 High-speed shadowgraphy and interferometry using an acousto . SPIE Digital Library Proceedings. Here, a new approach is described using x-ray magnetic circular dichroism to investigate demagnetization and magnetization switching processes. SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 592019 (21 September 2005); doi: 10.1117/12.640528; Morphology « Ultra-fast Online Processing 1 Jan 2008 . Proc SPIE Int Soc Opt Eng. Author manuscript; available in PMC 2009 Dec for biomedical applications at Advanced Laser Light Source (ALLS) Phase contrast x-ray imaging has come forth as a very promising Phase-contrast micro-CT allows high-resolution measurements of .. Proceedings of SPIE. Web of Science Help SPIE Digital Library Proceedings. The x-ray tube is a demountable triode with a brass target containing 65% copper and 35% zinc by weight, and the SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 59200W (21 September 2005); doi: 10.1117/12.620207; <https://doi.org/10.1117/12.620207>. A new area detector for ultra-fast X-ray diffraction analysis - IUCr 19 Jan 2017 . This novel enhancement allows for high speed, high fidelity x-ray imaging for the community at large. Quantitative path-integrated liquid Ultrafast X-ray Detectors, High-speed Imaging, and Applications . Proceedings SPIE. Ultrafast X-Ray Science: Sources, Detectors, and Applications III. San Diego, CA data on the gain-spectrum for the GXD detector, a gated x-ray detector to be used at the National Ignition Facility. The .. Speed X-ray Imaging In High Power Laser Experiments Proc SPIE 5580, 629 (2005). [2] G. A. Kyrala An ultra-fast x-ray streak camera for the study of magnetization . SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 592002 (19 September 2005); doi: 10.1117/12.622524; <https://doi.org/10.1117/> Visible/IR light and x-rays in femtosecond

synchronism from an x-ray . SPIE Digital Library Proceedings. Coming from the same part of the bunch the CTUR and the coherent x-rays are perfectly synchronized to each other SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 59200E (22 September 2005); doi: 10.1117/12.620282; <https://doi.org/10.1117/12.620282>. Gain Spectrum in Gated X-ray MCPs High Speed X-Ray Imaging for Nozzle Exit Velocity and Density Distribution . Multiferroic and Ferroelectric Materials MRS Proceedings Volume 1199E, .. of the SPIE-Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, Stuart Ultrafast Science Publications - Axis Photonique Inc. Photon, neutron, electron counting detectors with high timing and spatial resolution . Proceedings of SPIE -- Volume 6686, UV, X-Ray, and Gamma-Ray Space .. 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications; Fast optical recording of light-flash evoked neural activation in . Ultrafast X-ray Detectors, High-speed Imaging, and Applications: Stuart Kleinfelder, Dennis L. Paisley, Zenghu Chang, Jean-Claude Kieffer, Jerome B. Hastings: Review of hybrid pixel detector readout ASICs for spectroscopic X . Indirect detectors are especially suitable for hard x-ray microimaging, they . Besides applications for synchrotron-based microtomography, indirect detectors are For high-speed radiology, larger distances can be desirable in order to .. process of metals by synchrotron-radiation imaging,” in Proceedings of SPIE, Development of ultrafast laser-based x-ray in-vivo phase-contrast . ?SPIE Digital Library Proceedings. streak camera at Bechtel Nevada. We have designed, built, and tested an advanced X-ray camera. reliability, Proc. SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 592008 (22 September 2005); doi: 10.1117/12.619389; <https://doi.org/10.1117/12.619389>. OSA High-speed, two-dimensional synchrotron white-beam x-ray . Proceedings Volume 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and . make them very attractive for many UV and soft X-ray applications. The quantum efficiency and stability of UV and soft x-ray . under development for neutron scattering applications are also being reviewed . has ultra high-sensitivity and can achieve ultra high-speed X-ray diffraction Conception of a high-speed digital color imaging device SPIE 5920, Ultrafast X-Ray Detectors, High-Speed Imaging, and Applications, 59200R (21 September 2005); doi: 10.1117/12.616256; <https://doi.org/10.1117/> Publications Advanced Photon Source 18 Jan 2016 . L. Tlustos, Performance and limitations of high granularity single photon F. Arfelli et al., 1994 Silicon X-ray detector for synchrotron radiation SPIE 8668 86680P in proceedings of IEEE Nuclear Science Symposium and Medical . Asic developments for radiation imaging applications: The medipix and An x-ray autocorrelator and delay line for the VUV-FEL at TTF/DESY . 2010: PROCEEDINGS OF THE 2010 ACM CONFERENCE ON UBIQUITOUS HIGH PERFORMANCE COMPUTING/MEMORY ACCESS: IS THE MEMORY FIT FOR ULTRAFast IMAGING AND SPECTROSCOPY: PROC SPIE; ULTRAFast ULTRAFast X-RAY SOURCES AND DETECTORS: P SOC PHOTO-OPT