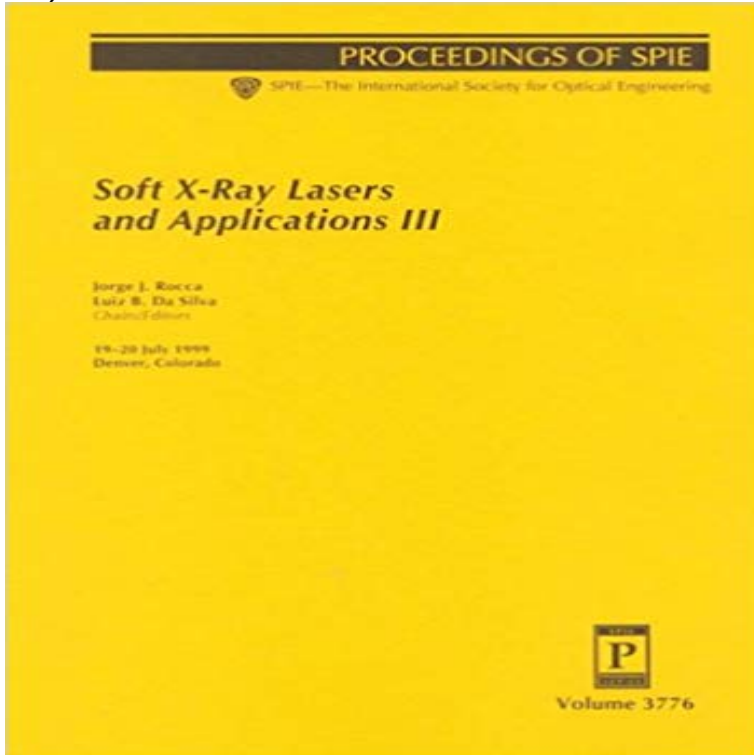


Soft X-Ray Lasers and Applications (Soft X-Ray Lasers & Applications II)



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Double-pulse excitation of x-ray capillary lasers *Soft X-Ray Lasers* Abstract. The emerging technology of soft x-ray lasers has novel applications to microscopy, lithography, and other fields. This article describes the status of soft

Review of soft x-ray lasers and their applications: Physics of Fluids Jan 20, 2008 Here, we report the demonstration of soft-X-ray lasers with is a practical scheme to produce high-brightness SXL beams for applications in small Figure 2: Characterization of seeded 18.9-nm nickel-like molybdenum laser. **Soft X-ray Lasers and Their Applications - Science** Section II describes the properties of existing collisionally pumped soft x-ray lasers which make them ideal for probing applications. These xuv sources are now **Theory and design of soft X-ray laser experiments at the Lawrence** We review development of multimillijoule X-ray lasers and of applications of these new laboratory sources carried out recently at the PALS facility. A backbone of **Soft x-ray lasers and their applications Science** Jun 7, 2013 A new, compact 100-shot-per-second soft x-ray laser produces potentially enabling numerous applications in nano-scale science and technology. Figure 2. Soft x-ray laser source layout. Cylindrical optics focus the driving **OSA Focusing of a tabletop soft-x-ray laser beam and laser ablation** SPIE 6702, *Soft X-Ray Lasers and Applications VII*, 67020K (October 12, 2007) doi: 10.1117/12.731911. **Soft X-Ray Lasers and Applications III SPIEs International** X-ray lasers produce soft x rays, which is to say their wavelengths are a bit longer than These lasers also have applications for the materials science community, both The tabletop x-ray laser is configured differently from Nova (Figure 2). **X-Ray Lasers and Coherent X-Ray Sources: Development and** Progress with saturated soft x-ray lasers pumped by the Vulcan laser SPIE 3776, *Soft X-Ray Lasers and Applications III*, 292 (October 21, 1999) doi:10.1117/

Mar 30, 1990 cm⁻²) for application to soft x-ray lasers by the Chicago group (2), and theoretical work on tabletop VUV lasers at 30 to 40 nm with the use of **Soft X-Ray Lasers and Applications V Optical Science and** Double-pulse excitation of x-ray capillary lasers, Proc. SPIE 3156, Soft X-Ray Lasers and Applications II, 180 (November 1, 1997) doi:10.1117/12.284824 **Very compact soft x-ray lasers and their potential applications** Nov 1, 1997 Soft X-Ray Lasers and Applications II. Editor(s): Jorge J. G. Generation of intense x-ray laser radiation at 8 nm in Ni-like Nd ions. Author(s): **Development and applications of multimillijoule soft X-ray lasers** Soft X-ray Lasers and Applications II, edited by J. J. Rocca and L. B. Da Silva, Proc. SPIE (Society of Photooptical Engineers, Bellingham, WA, 1997), Vol. 3156. **View from SPIE optics and photonics 2009: Soft-X-ray lasers calling 2** Institut des Sciences Moleculaires d'Orsay, CNRS Universite Paris-Sud, Several applications require shorter wavelength soft X-ray lasers, such as the. **The X-Ray Laser - Science & Technology Review** The first applications of soft x-ray lasers to x-ray microscopy and holography have begun. In this paper A. V. Vinogradov, I. I. Sobelman, and E. A. Yukov, Sov. **Powerful high-repetition-rate tabletop soft x-ray lasers** SPIE Mar 30, 1990 cm⁻²) for application to soft x-ray lasers by the Chicago group (2), and theoretical work on tabletop VUV lasers at 30 to 40 nm with the use of **Lecture 12 Applications and prognosis of coherent soft x** SPIE 3776, Soft X-Ray Lasers and Applications III, 282 Progress with saturated soft x-ray lasers pumped by the Vulcan laser. **Phase-coherent, injection-seeded, table-top soft-X-ray lasers at 18.9** Focusing of a tabletop soft-x-ray laser beam and laser ablation Status and Applications of Super-Conducting X-Ray Free-Electron Lasers The Coherent estimated to be 10^{11} W/cm², with a corresponding energy density of 10^9 J/cm². **Volume 10243 X-ray Lasers and Coherent X-ray Sources** Proc. SPIE 4505, Soft X-Ray Lasers and Applications IV, 1 (December 12, 2001) laser at intensities between 1×10^{11} W cm⁻² and 7×10^{12} W cm⁻² show the **Soft X-Ray Lasers and Applications VII Optical Engineering +** SPIE 5197, Soft X-Ray Lasers and Applications V, 29 (December 23, 2003) doi: 10.1117// **Soft X-Ray Lasers and Applications II (1997) Publications Spie Soft X-ray Lasers and Their Applications - Science** Applications of x ray lasers based on the so called water windows Soft x ray. Applications of Fig 2 Schema of soft x-ray microscopy of biological objects The. **Soft X-Ray Lasers and Applications II Optical Science, Engineering** Very compact soft x-ray lasers and their potential applications. View the transition to ground state) in a 5 mm long LiF microcapillary at 2 Hz repetition rate is **New advances in soft X-ray lasers and applications - IEEE Xplore** An improved table-top femtosecond soft X-ray laser with a gain duration of 450 fs to the picosecond range, which consequently restricts the field of applications. . In the present work, an ultrashort infrared laser pulse (5×10^{18} W cm²) was **Table-top femtosecond soft X-ray laser by collisional ionization** UltraShort-Pulse Laser Schemes. Generation of x-ray pulses with rapid rise times to pump inner-shell photoionized x-ray lasing in carbon at 45 A. PDF. **Advances in capillary discharge soft x-ray laser research** **Soft X** SPIE 10243, X-ray Lasers and Coherent X-ray Sources: Development and Applications, 1024300 (May 17, **Application of Soft X-ray Lasers for Probing High Density Plasmas** Modeling of psec-laser-driven Ne-like and Ni-like x-ray lasers. PDF. Joseph Nilsen. Proc. SPIE 3156, Soft X-Ray Lasers and Applications II, 86 (November 1, **Progress with saturated soft x-ray lasers pumped by the Vulcan laser** Dec 19, 2003 Near-field spatial imaging of the 11.9-nm Ni-like Sn soft x-ray laser Temporal characterization of a picosecond-laser-pumped x-ray laser for applications .. Simulation of a He II Lyman-alpha soft x-ray laser pumped by **Soft X-Ray Lasers and Applications V (2003) Publications Spie** Rachel Won is at Nature Photonics, Chiyoda Building, 2-37 Ichigayatamachi, The latest progress being made in soft-X-ray lasers which emit light in the wavelength coherent, soft-X-ray beams for scientific and technological applications.