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characteristics, xenon is a very attractive plasma target and was therefore selected for the EUV source

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Laser-produced-plasma (LPP) sources are expected to deliver the necessary power for critical-dimension high-volume manufacturing (HVM) scanners for the production of integrated circuits in the post- 193 nm immersion lithography era.1 LPP

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EUV lithography light sources generate the required 13.5 nm radiation by focusing a 10.6 micron wavelength CO₂

Laser Produced Plasma Light Source for EUVL

Plasma light sources utilize the

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properties of various plasmas to produce extremely high-power sources of light. Laser-Produced Plasma Light Sources Researchers are able to produce high temperature and high ion density plasmas by using a visible (VIS) or near infrared (NIR) Q-switched

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laser or a long-wave infrared (LWIR) CO₂ laser incident on a dense medium.

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Temperature depends on laser

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power density (Φ), T_e (eV) $\alpha(\lambda$
 $2\Phi)^{3/5}$...CR model Average
charge $\approx 0.67 (ZT e)^{1/3}$
Expansion velocity $\approx 10^6$ - 10^7
 cm s^{-1} Critical electron density,
 $n_{ec} = 10^{19}$ - 10^{21} cm^{-3} depends
on laser wavelength ($n_{ec} \sim [10^{21}$
 $/\lambda^2(\mu\text{m})^2] \text{ cm}^{-3}$) For ns duration

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manufacturing: history, ideal plasma, present status, and prospects," Journal of Micro/Nanolithography, MEMS, and MOEMS 11(2), 021109 (21 May 2012).

Tin laser-produced plasma as the

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The light source in such machines is a tin plasma. To produce it, a drop of tin is heated by a laser to a point where it becomes plasma that emits EUV radiation. Exactly how this process takes...

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The exceptional origin of EUV light in hot tin plasma breakdown and attainable with modest laser pulse energies, CW plasmas can be sustained only when pumped by $> \sim 100$ W lasers. First attempted in Siberia in Dark Ages* by using 10 mCO₂

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laser. They got ~ 1 cm size plasmas. Use of ~ 1 m solid state fiber-coupled laser results in sub-mm size plasmas. Linear geometry Introduction: Laser Sustained Plasma

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Laser-produced transient tin plasmas are the sources of extreme ultraviolet (EUV) light at 13.5 nm wavelength for next-generation nanolithography, enabling the continued miniaturization of the features on

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Physics of laser-driven tin plasma sources of EUV ...

Keywords: EUV light source, laser-produced plasma, droplet 1.

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the candidate for next generation lithography (NGL). But the HVM light source requirements are very high with a EUV output power (13.5nm 2% bandwidth) of more than 115 – 180W at the intermediate focus (IF).

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High repetition rate and high-power CO₂ laser-produced plasma sources operating on tin droplet targets are described. Details of laser architecture, source chambers and system

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operation are given. Stable output power, efficient light collection, and clean EUV transmission could be achieved for hours of operation.

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In this paper a new approach to a laser-produced plasma EUV source based on a tin target is presented. A thin layer of pure tin and composite layers consisting of Sn with Si, SiO and LiF are investigated.

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Plasma Sources Science and Technology - IOPscience

Laser-produced plasma (LPP) light sources can produce a very high flux of soft x-rays, with over 70 % conversion efficiency (CE) of input laser energy into soft X-ray

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Additionally, LPP's can produce very small plasma volumes which can greatly increase the radiance of the light source.

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In the research, characterizations were performed of the Extreme Ultraviolet output of our laser produced plasma system in the

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Contents: Laser Produced Plasma Light Sources; XUV and soft x ray Radiation from Laser Produced

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A system and a method of generating radiation and/or particle emissions are disclosed. In at least some embodiments, the system includes at least one laser source that generates a first

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pulse and a second pulse in temporal succession, and a target, where the target (or at least a portion the target) becomes a plasma upon being exposed to the first pulse. The plasma expand after the exposure to the first pulse, the

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Expanded plasma is then exposed to the second pulse, and at least one of a radiation emission and a particle emission occurs after the exposure to the second pulse. In at least some embodiments, the target is a solid piece of material, and/or a time period between the

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first and second pulses is less than 1 microsecond (e.g., 840 ns).

A comprehensive guide to a new technology for enabling high-performance spectroscopy and

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Advanced methods of plasma harmonics generation at the conditions of coincidence of some harmonics, autoionizing states, and some ionic transitions possessing strong oscillator strengths. Comprehensive in scope, this text clearly

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demonstrates the importance of resonance-enhanced nonlinear optical effects leading to formation of efficient sources of coherent extreme ultraviolet radiation that can be practically applied. This important resource: Puts the focuses on novel

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Applications of laser-plasma physics, such as the development of ultrashort-wavelength coherent light sources Details both the theoretical and experimental aspects of higher-order harmonic generation in laser-produced plasmas Contains information on

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early studies of resonance enhancement of harmonics in metal-ablated plasmas Analyzes the drawbacks of different theories of resonant high order harmonic generation Includes a discussion of the quasi-phase-matching and properties of

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semiconductor plasmas Written for researchers and students in the fields of physics, materials science, and electrical engineering who are interested in laser physics and optics, Resonance Enhancement in Laser-Produced Plasmas offers an

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introduction to the topic and covers recent experimental studies of various resonance processes in plasmas leading to enhancement of single harmonic.

These proceedings comprise a selection of invited and

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contributed papers presented at the 15th International Conference on X-Ray Lasers (ICXRL 2016), held at the Nara Kasugano International Forum, Japan, from May 22 to 27, 2016. This conference was part of an ongoing series dedicated to

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recent developments in the science and technology of x-ray lasers and other coherent x-ray sources with additional focus on supporting technologies, instrumentation and applications. The book showcases recent advances in the generation of

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intense, coherent x-rays, the development of practical devices and their applications across a wide variety of fields. It also discusses emerging topics such as plasma-based x-ray lasers, 4th generation accelerator-based sources and higher harmonic

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generations, as well as other x-ray generation schemes.

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