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*Plasma Physics - 8.4 -
Ion acceleration with
lasers and plasmas*
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Laser-Plasma

*Accelerators: Riding the
Wave to the Next*

*Generation X-Ray Light
Sources*

How a Laser Works

Hakaru Mizoguchi:

Development of 250W

EUV Light Source for

HVM Lithography

~~Fusion Power Explained~~

~~—Future or Failure~~ **How**

To Make An Electrical

Arc Furnace ~~Handheld~~

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~~TESLA COIL GUN at
28,000fps — Smarter
Every Day 162 Real Arc
Reactor (ionized plasma
generator) Laser metal-
plasma interaction I~~

Laser metal-plasma interaction II

Interstellar Travel:
Approaching Light
Speed World's First
Protosaber! (REAL
BURNING
LIGHTSABER) DIY

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Laser Produced

Overclocked Plasma

Globe. 2500V to a
MILLION volts *Dr*

Strange in Real Life?

(SPELLS, PORTALS

\u0026 MORE) How to

Make A Fusion

Reactor ~~How Do SIM~~

~~Cards Work?~~

Tungsten Thor's

Hammer (World's

HEAVIEST)LED Grow

Light Testing

GrowLight Versus a 400

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0026 600 Watt HPS

LED Grow Lights

Lamps LED Garden

Crazy eBay green laser

pointer mod. 1mW to

1400mW++ History of

GPUs As Fast As

Possible Real Life

Spider-man Tech THAT

ACTUALLY EXISTS!

Flat Earth PROVEN By

Independent Research

Bangalore Science

Forum : An

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Laser Produced

Introduction to LASER

Produced Plasmas

*Guiding laser-produced
fast electrons using*

*super-strong magnetic
fields*

Plasma Lighting As Fast

As PossibleEuropean

Sulphur Plasma Light

1300W+

Avatar's Advanced

Bending Techniques

Explained!*Extreme 2D*

Plasma Ball

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Experiments **Tutorial**

Tuesday - Teaching a

PvP Expert How to

Kill a Thargoid

Interceptor in Elite

Dangerous Laser

Produced Plasma Light

Source

Laser-produced plasma (LPP) light sources have the highest potential to achieve the brightness requirements for all the range of mask

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Laser Produced Plasma Light Source For EUV Cymer

inspection tools
currently foreseen. High
brightness of LPP...

(PDF) Laser-produced
plasma light source for
extreme ...

our laser-produced
plasma EUV light
source development
including light source
characterization, fast ion
character-ization and
their effect on Mo/Si

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Plasma Light
multilayers. 2. EUV
System Development
and Source Character-
izations Due to its inert
characteristics, xenon is
a very attractive plasma
target and was therefore
selected for the EUV
source

Laser-Produced Plasma
Light Source
Development for
Extreme ...

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Laser Produced

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 EUV lithography light sources generate the required 13.5 nm

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Laser Produced radiation by focusing a 10.6 micron wavelength CO₂ Cymer

Laser Produced Plasma
Light Source for EUVL
Plasma light sources
utilize the properties of
various plasmas to
produce extremely high-
power sources of light.
Laser-Produced Plasma
Light Sources
Researchers are able to

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produce high temperature and high ion density plasmas by using a visible (VIS) or near infrared (NIR) Q-switched laser or a long-wave infrared (LWIR) CO₂ laser incident on a dense medium.

Plasma Light Sources
Entering the Tech
Industry: A ...
Laser produced plasmas
Page 15/35

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Laser Produced

(LPPs) 4 Temperature depends on laser power density (I), T_e (eV) $\propto I^{2/3}$... CR model

Average charge $q \approx 0.67$

(ZT_e) $^{1/3}$ Expansion velocity $v \approx 10^6 - 10^7$

7 cm/s Critical electron density, $n_{ec} = 10^{19} - 10^{21}$

cm⁻³ depends on laser wavelength ($n_{ec} \sim [10^{21} / (\lambda/\mu\text{m})^2]$

cm⁻³) For ns duration plasmas Collisional

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Laser Produced
Radiative (CR)
Plasma Light
Source For Euvl
Laser Produced Plasma
Light Sources for Short
Wavelength ...

Toshihisa Tomie "Tin laser-produced plasma as the light source for extreme ultraviolet lithography high-volume manufacturing: history, ideal plasma, present status, and prospects," Journal of

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Laser Produced Micro/Nanolithography, MEMS, and MOEMS

11(2), 021109 (21 May
2012).

Tin laser-produced
plasma as the light
source for extreme ...
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

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Laser Produced Plasma Light Source For EUV Cymer

emits EUV radiation.
Exactly how this
process takes...

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

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Laser Produced

Siberia in Dark Ages*

by using 10 mCO₂
laser. They got ~1 cm
size plasmas. Use of ~1

msolid state fiber-
coupled laser results in
sub-mm size plasmas.

Linear geometry

Introduction: Laser

Sustained Plasma

High Power Laser-

Sustained Plasma Light

Sources for KLA ...

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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 chips.

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

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Laser Produced

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

INTRODUCTION

Extreme ultraviolet lithography (EUVL) is 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

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Laser Produced 115 – 180W at the intermediate focus (IF).

Sn droplet target
development for laser
produced plasma ...
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

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

Performance results of laser-produced plasma test and ...

In this paper a new approach to a laser-produced plasma EUV

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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.

Laser-produced plasma
EUV source based on
tin-rich, thin ...

A new approach for
discharge-produced
plasma (DPP) extreme

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Laser Produced
ultraviolet (EUV)
sources based on the
usage of two liquid
metallic alloy jets as
discharge electrodes has
been proposed and
tested....

Laser-Produced Plasma
Sources for High-
Volume ...

Laser produced plasma
EUV light source
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US United States Prior
art keywords gas device
plasma recited

US7671349B2 - Laser
produced plasma EUV
light source ...
LPP -EUV light source
is the most promising
solution as the high
power light source for
13.5nm lithography
because of its power

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scalability. It produces the light of 13.5 nm wavelength from tin plasma which is produced by high power CO₂ laser shooting to tin droplet.

LPP-EUV light source
for HVM lithography
Laser-produced plasma
light source for EUVL
Laser-produced plasma
light source for EUVL

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2009-03-13 00:00:00

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light source for EUVL,

Proceedings ...

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light source ...

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driven tin plasma
sources of EUV
radiation for
nanolithography PDF,

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Physics of laser-driven tin plasma sources of EUV radiation for nanolithography 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 ...

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Laser Produced Plasma Light 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 photons possible , , , . Additionally, LPP's can produce very small

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plasma volumes which
can greatly increase the
radiance of the light
source.

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