

# Lawrence Berkeley National Laboratory

## LBL Publications

### Title

X-ray Mirror Design, Fabrication, and Metrology: Current Status and Perspectives

### Permalink

<https://escholarship.org/uc/item/3z74g0th>

### Authors

Yashchuk, Valeriy V.  
Yamauchi, Kazuto

### Publication Date

2010-09-25

# **X-ray Mirror Design, Fabrication, and Metrology: Current Status and Perspectives**

Valeriy V. Yashchuk<sup>1</sup> and Kazuto Yamauchi<sup>2</sup>

<sup>1</sup>*Advanced Light Source, USA*

<sup>2</sup>*Osaka University, Japan*

## **Abstract**

We will review the current status and perspectives of x-ray mirror design, fabrication, and metrology to respond to the demand for optics for next generation light sources. The presentation will be based on our own experience, as well as on materials and discussions from two recent meetings: the International Workshop on X-ray Mirror Design, Fabrication, and Metrology (September 22-24, 2009, Osaka University, Suita, Osaka, Japan), and the EuroFEL Workshop on Photon Beamlines and Diagnostics (June 28–30, 2010, DESY, Hamburg, Germany).

The Advanced Light Source is supported by the Director, Office of Science, Office of Basic Energy Sciences, Material Science Division, of the U.S. Department of Energy under Contract No. DE-AC02-05CH11231 at Lawrence Berkeley National Laboratory.

-----  
Invited presentation at

Satellite Workshop on Coherence Preserving Optics for High Brightness Light Sources at the 16th Pan-American Synchrotron Radiation Instrumentation Conference - SRI2009 (September 21-24, 2010, Argonne National Laboratory, Chicago, USA)