1. Record Nr. UNINA9911019161503321

Titolo	Advances in photonic materials and devices : proceedings of the 106th Annual Meeting of the American Ceramic Society : Indianapolis, Indiana, USA (2004) / / editor Suhas Bhandarkar
Pubbl/distr/stampa	Westerville, Ohio, : American Ceramic Society, c2005
ISBN	9786613651556 9781280674624 1280674628 9781118407233 1118407237 9781118407271 111840727X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (140 p.)
Collana	Ceramic transactions ; ; v. 163
Altri autori (Persone)	BhandarkarSuhas
Disciplina	621.36
Soggetti	Photonics - Materials Electronics - Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"... the symposium on Photonics Materials and Devices was organized at the 106th Annual Meeting of The American Ceramic Society, April 18-21, 2004 in Indianapolis, Indiana."--p. vii.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Advances in Photonic Materials and Devices; Contents; Preface; Novel Oxide Glass and Glass Ceramic Materials for Optical Amplifier; Gradient-Index (GRIN) Lenses and Other Optical Elements by Slurry-Based Three Dimensional Printing; Non-Silica Microstructured Optical Fibers; Enhancement of the Electroluminescent Phosphor Brightness and Stability; Femtosecond Laser Induced Structural Modification and Birefriengence in Bulk Glass for Optical Waveguide Applications; Tunable Microphotonic Devices in Ferroelectrics; Sol-Gel Processing of BaTiO3 for Electro-Optic Waveguide Devices Blue Light Excited Glasses for White Light IlluminationThe Development of an Arsenic Sulfide Glass Based Photoresist; Study of Resbond® Ceramic Binders Used for High Temperature Non-Contact Thermometry; Author Index; Keyword Index

Sommario/riassunto

Photonics is a critically important technology. It complements maturing micro-electronics to create new directions that impacts a wide-ranging array of other industries. From a materials standpoint, this technology uses essentially all the classes of materials and seeks to hybridize them to create new devices. These proceedings showcase the transformation of photonics from a telecom-aligned technology to a much wider sphere of applications.