15
标题: Electrodynamic characteristics of the LaBGeO5 and LaBSiO5 glasses in the terahertz and infrared ranges
作者: Komandin, GA (Komandin, G. A.); Sigaev, VN (Sigaev, V. N.); Torgashev, VI (Torgashev, V. I.); Lotarev, SV (Lotarev, S. V.); Porodinkov, OE (Porodinkov, O. E.); Spektor, IE (Spektor, I. E.)
来源出版物: PHYSICS OF THE SOLID STATE 卷: 54 期: 11 页: 2189-2197 DOI: 10.1134/S1063783412110145 出版年: NOV 2012
在 Web of Science 中的被引频次: 0
被引频次合计: 0
引用的参考文献数: 25
摘要: The methods of calculating the dielectric response functions for transmission (in the submillimeter range) and reflection (in the infrared range) of disordered materials have been compared using the LaBGeO5 and LaBSiO5 functional glasses with the stillwellite structure as an example. In the four-parameter factorized dispersion model, the dielectric parameters of the LaBGeO5 and LaBSiO5 glasses have been determined and the assignment of the spectral bands to fragments of the structure has been carried out. DOI: 10.1134/S1063783412110145
入藏号: WOS:000310748800007
语种: English
文献类型: Article
KeyWords Plus: FERROELECTRIC PHASE-TRANSITION; SINGLE-CRYSTAL; POLARIZATION
地址: [Komandin, G. A.; Porodinkov, O. E.; Spektor, I. E.] Russian Acad Sci, Prokhorov Gen Phys Inst, Moscow 119991, Russia
[Sigaev, V. N.; Lotarev, S. V.] Mendeleyev Univ Chem Technol Russia, Int Lab Funct Glass Based Mat, Moscow 123480, Russia
[Torgashev, V. I.] So Fed Univ, Rostov Na Donu 344006, Russia
通讯作者地址: Komandin, GA (通讯作者),Russian Acad Sci, Prokhorov Gen Phys Inst, Ul Vavilova 38, Moscow 119991, Russia.
电子邮件地址: oporodinkov@ran.gpi.ru
出版商: MAIK NAUKA/INTERPERIODICA/SPRINGER
出版商地址: 233 SPRING ST, NEW YORK, NY 10013-1578 USA
Web of Science 类别: Physics, Condensed Matter
研究方向: Physics
IDS 号: 032WC
ISSN: 1063-7834
29 字符的来源出版物名称缩写: PHYS SOLID STATE+
ISO 来源出版物缩写: Phys. Solid State
来源出版物页码计数: 9