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标题: Undulator-Like Radiation and Cooperative Phenomenon in Semiconductor Microstructure with Grating

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来源出版物: ACTA PHYSICA POLONICA A 卷: 121 期: 2 页: 522-526 出版年: FEB 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:14

摘要: In the article the cooperative N-2-effect is considered, that is the radiation whose power is similar to N-2, where N is the number of emitters which in this case is equal to the number of electrons in a bunch. The suggested effect is the result of combining two other effects, Gunn-effect in GaAs and undulator-like radiation which can be produced by means of microstructure with grating (microundulator). It is very probable that the effect can be used for the developing of a new semiconductor-based room temperature source of the THz radiation.

入藏号: WOS:000301612300048

语种: English

文献类型: Article; Proceedings Paper

会议名称: 46th Zakopane School of Physics International Symposium on Breaking Frontiers -

Submicron Structures in Physics and Biology

会议日期: MAY 16-21, 2011

会议地点: Zakopane, POLAND

会议赞助商: Polish Acad Sci, Henryk Niewodniczanski Inst Nucl Phys

KeyWords Plus: QUANTUM THEORY; OPTICAL MASER; FIELD

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出版商: POLISH ACAD SCIENCES INST PHYSICS

出版商地址: AL LOTNIKOW 32-46, PL-02-668 WARSAW, POLAND

Web of Science 分类: Physics, Multidisciplinary

学科类别: Physics

IDS 号: 910BN ISSN: 0587-4246

29 字符的来源出版物名称缩写: ACTA PHYS POL A

ISO 来源出版物缩写: Acta Phys. Pol. A

来源出版物页码计数:5