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Physique

Informations

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Formulation des questions et outils de recherche

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- Journal of Physics: Condensed Matter

Search journals in a subject category

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- Search journals in a subject category

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- Search journals in a subject category
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- Condensed Matter and Materials Science
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- Plasma Physics
- Optical, Atomic and Molecular Physics
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<p>Formation of porous nanostructured lead telluride films by an anodic electrochemical etching method S P Zimin, E A Bogoyavlenskaya, E Yu Buchin, A P Petrakov, H Zogg and D Zimin <i>Semicond. Sci. Technol.</i> 24 No 10 (October 2009) 105008 (6pp) Abstract References</p>	Full text: Acrobat PDF (934 KB)
<p>Experimental determination of the ²³³U half-life S Pommé, T Altitzoglou, R Van Ammel, G Sibbens, R Eykens, S Richter, J Camps, K Kossert, H Janßen, E García-Toraño, T Durán and F Jaubert <i>Metrologia</i> 46 No 5 (October 2009) 439-449 Abstract References</p>	Full text: Acrobat PDF (209 KB)
<p>Quantitative analysis of trace element concentrations in some gem-quality diamonds J McNeill, D G Pearson, O Klein-BenDavid, G M Nowell, C J Ottley and I Chinn <i>J. Phys.: Condens. Matter</i> 21 No 36 (9 September 2009) 364207 (13pp) Abstract References</p>	Full text: Acrobat PDF (846 KB)
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<p>Diffusion behaviour of vanadium in GaN thin films studied by secondary ion mass spectrometry A Bchetnia, C Saidi, M Souissi, T Boufaden and B El Jani <i>Semicond. Sci. Technol.</i> 24 No 9 (September 2009) 095020 (4pp) Abstract References</p>	Full text: Acrobat PDF (162 KB)
<p>One-colour resonant two-photon ionization spectrum of the 1-fluoronaphthalene dimer and <i>ab initio</i> calculation Liu Ye-Chao, Zhang Shu-Dong, Zhang Ming-Xia, Sun Miao and Kong Xiang-He <i>Chinese Phys. B</i> 18 No 9 (September 2009) 3865-3869 Abstract References</p>	Full text: Acrobat PDF (475 KB)
<p>Precision measurements with non-laser-cooled trapped ions J Ph Karr <i>J. Phys. B: At. Mol. Opt. Phys.</i> 42 No 15 (14 August 2009) 154018 (20pp) Abstract References</p>	Full text: Acrobat PDF (1.69 MB)
<p>A carbon-cluster laser ion source for TRIGA-TRAP C Smorra, K Blaum, K Eberhardt, M Eibach, J Ketelaer, J Ketter, K Knuth and Sz Nagy <i>J. Phys. B: At. Mol. Opt. Phys.</i> 42 No 15 (14 August 2009) 154028 (6pp) Abstract References</p>	Full text: Acrobat PDF (270 KB)
<p>High-accuracy Penning trap mass measurements with stored and cooled exotic ions K Blaum, Sz Nagy and G Werth <i>J. Phys. B: At. Mol. Opt. Phys.</i> 42 No 15 (14 August 2009) 154015 (9pp) Abstract References Citing articles</p>	Full text: Acrobat PDF (582 KB)
<p>Ion energy distributions for the identification of active species and processes in low pressure hollow cathode discharges I Tanarro and V J Herrero <i>Plasma Sources Sci. Technol.</i> 18 No 3 (August 2009) 034007 (9pp) Abstract References</p>	Full text: Acrobat PDF (444 KB)

Au sein de ces résultats, il est possible de relancer une requête (*modify search*).

Exemple de référence :

Formation of porous nanostructured lead telluride films by an anodic electrochemical etching method

S P Zimin *et al* 2009 *Semicond. Sci. Technol.* **24** 105008 (6pp) doi: [10.1088/0268-1242/24/10/105008](https://doi.org/10.1088/0268-1242/24/10/105008) (Help)

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Abstract. Comprehensive research of the structural, optical and electrical properties of a PbTe/CaF₂/Si(1 1 1) epitaxial system after anodic electrochemical treatment in a Norr solution electrolyte with a low current density of 6 mA cm⁻² was carried out. It is shown that the anodizing results in the increase of the band gap and resistivity and in the decrease of the refractive index of lead telluride. Using secondary ion mass spectrometry, a specific change of the C, K, H element distribution in depth of PbTe films after electrochemical treatment was detected. It is demonstrated that the set of presented experimental results can be explained from the standpoint of the formation of a mesoporous structure of lead telluride with a porosity value of about 50%. The effective radius of PbTe nanoparticles is equal to 13 nm. Triple-crystal x-ray diffractometry results analysis showed that the pores have spherical voids with an average dimension of 40 nm.

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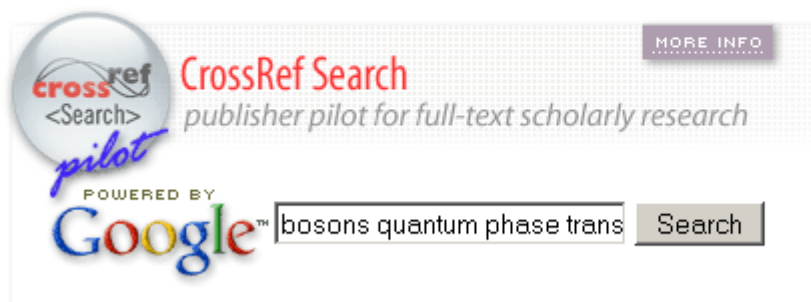
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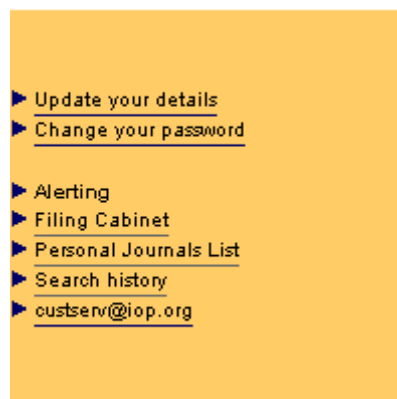
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