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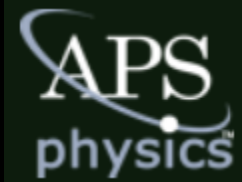
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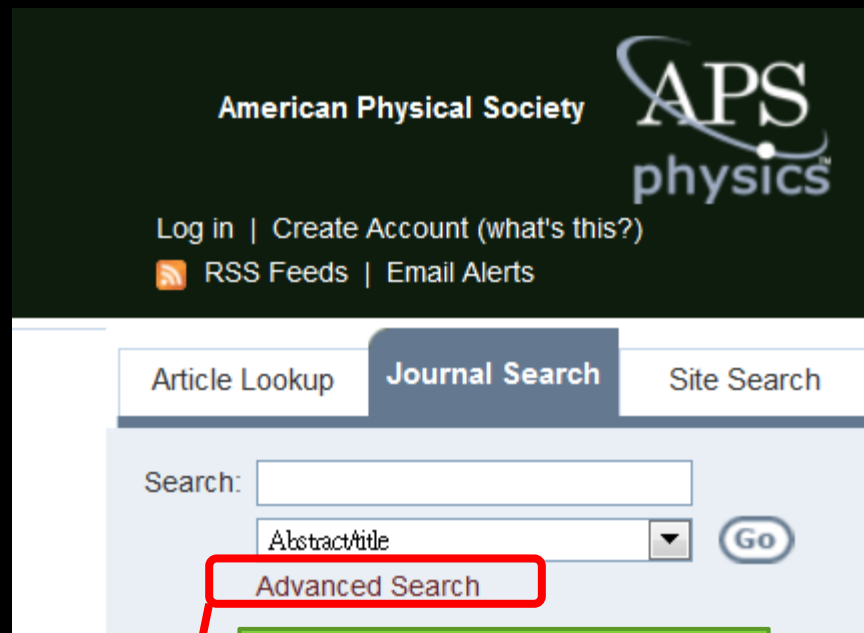
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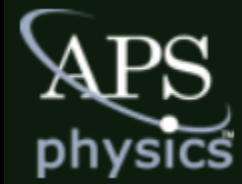
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...ima, S. Otani, and Y. Ishizawa, *Solid State Commun.* **83**, 581 (1992). 30...
...P. Wachsmith, G. Benner, and U. Kaiser, *Eur. Phys. Lett.* **97**, 57005 (

length- and temperature-dependent crossover of charge transport across molecular junctions

Ya-Lin Lo (羅雅琳), Shih-Jye Sun (孫士傑), and Ying-Jer Kao (高英哲)
Phys. Rev. B **84**, 075106 – Published 4 August 2011

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...terson, and R. Shashidhar, *Nano Lett.* **4**, 639 (2004). 9 W. Wang, T. Lee, I. Kretzschmar, and M. A. Ree...
...17 M. Di Ventra, S.-G. Kim, S. T. Pantelides, and N. D. Lang, *Phys. Rev. Lett.* **86**, 288 (2001). 18 C...
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3. Enhanced Thermoelectric Power in Dual-Gated Bilayer Graphene

Chang-Ran Wang, Wen-Sen Lu, Lei Hao, Wei-Li Lee, Ting-Kuo Lee, Feng Lin, I-Chun Cheng, and Jian-Zh...
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...nce 313, 951 (2006). [5] E. V. Castro et al., *Phys. Rev. Lett.* **99**, 216802 (2007) [6] J. B. Oostinga e...
... Hao and T. K. Lee, *Phys. Rev. B* **81**, 165445 (2010); **82**, 245415 (2010). [13] J. P. Small, K. M. Perez...

4. Coulomb-energy featured capture kinetics in graphene nanoribbon field-effect transistors

Ming-Pei Lu
Phys. Rev. B **86**, 045433 – Published 23 July 2012

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¹Institute of Physics
²Department of Physics
³Department of Electrical Engineering
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Received 22 April 2011; published 26 October 2011

The thermoelectric power of a material, typically governed by its band structure and carrier density, can be varied by chemical doping that is often restricted by solubility of the dopant. Materials showing large thermoelectric power are useful for many industrial applications, such as the heat-to-electricity conversion and the thermoelectric cooling device. Here we show a full electric-field tuning of thermoelectric power in a dual-gated bilayer graphene device resulting from the opening of a band gap by applying a perpendicular electric field on bilayer graphene. We uncover a large enhancement in thermoelectric power at a low temperature, which may open up a new possibility in low temperature thermoelectric application using graphene-based device.

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







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