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chemistry and physics in one dimension: synthesis and properties of nanowires and nanotubes jiangtao hu, teri

wang odom, and charles m. lieber* department of ...

ARRAYS OF INDEFINITELY LONG UNIFORM NANOWIRES AND ...

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nanowires are arguably the most studied nanomaterial model to make functional devices and arrays 1, 2. although there is remarkable maturity in the chemical synthesis ...

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nclt july 13th, 2006 nanotubes and nanowires - one-dimensional materials tim sands materials engineering and electrical & computer engineering birck nanotechnology center

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tin oxide nanowires, nanoribbons, and nanotubes ... functional materials due to two unique ... tin oxide nanowires, nanoribbons, and nanotubes j. phys. chem ...

HIGHLY VERSATILE APPROACH FOR PREPARING FUNCTIONAL HYBRID ...

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highly versatile approach for preparing functional hybrid multisegmented nanotubes and nanowires cecile j. roy,† nicolas chorine,† bruno g. de geest,‡ stefaan ...

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Thu, 17 Nov 2016 07:19:00 GMT

this article should be cited as: a. weathers, l. shi, "thermal transport measurement techniques for nanowires and nanotubes," annual review of heat transfer, vol. 16 ...

PROPERTIES OF ZNO NANOWIRES AND FUNCTIONAL NANOCOMPOSITES

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properties of zno nanowires and functional nanocomposites ryszard pyrzs department of mechanical engineering ... nanotubes due to the carbon nanotubes' unique

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one-dimensional (1d) nanostructures, including nanorods, nanowires, nanotubes, etc., exhibit the quantum confinement effects in the other two dimensions.

VOLUME 2: NANOWIRES AND NANOBELTS OF FUNCTIONAL MATERIALS

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library of congress cataloging-in-publication data nanowires and nanobelts: materials properties and devices - nanowires and nanobelts of functional materials.

TUNABLE ELECTRONIC PROPERTIES OF ZNO NANOWIRES AND ...

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using the density functional theory, we investigate the electronic properties of zno nanowires (nws) and faceted nanotubes (nts) under a transverse electric field. we ...

MODELLING POLYMER NANOCOMPOSITES WITH FUNCTIONAL NANOWIRES

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modelling polymer nanocomposites with functional nanowires: ryszard pyrż configuration. the energy minimization was carried out employing molecular mechanics mm+ code

STRUCTURAL AND ELECTRONIC PROPERTIES OF ZNO NANOTUBES FROM ...

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the structural and electronic properties of armchair and zigzag zno nanotubes were studied using density functional theory with the generalized gradient approximation.

THE STABILITY AND ELECTRONIC STRUCTURE OF SINGLE-WALLED ...

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the stability and electronic structure of single-walled zno nanotubes by density functional ... tunable electronic properties of zno nanowires and nanotubes under a ...

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graphene, nanotubes & nanowires ; functional nanoparticles and films made in the ... his research interests include carbon nanotubes and various inorganic nanowires, ...

ATOMIC SCALE NANOWIRES - UNI-PADERBORN

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atomic scale nanowires ... architectures for functional nanosystems. ... two material classes: i. (nts) carbon nanotubes ii. (nws) nanowires have shown particular ...

FABRICATION OF ONE-DIMENSIONAL FERROELECTRICS, NANOWIRES ...

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1 one-dimensional ferroelectrics: nanowires and nanotubes m. alexe and d. hesse . max planck institute of microstructure physics, d-06120 halle, germany

ELECTRONIC AND STRUCTURAL PROPERTIES OF ULTRATHIN TUNGSTEN ...

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electronic and structural properties of ultrathin tungsten nanowires and nanotubes by density functional theory calculation