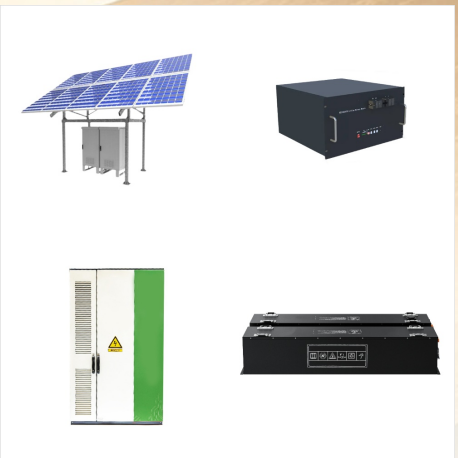

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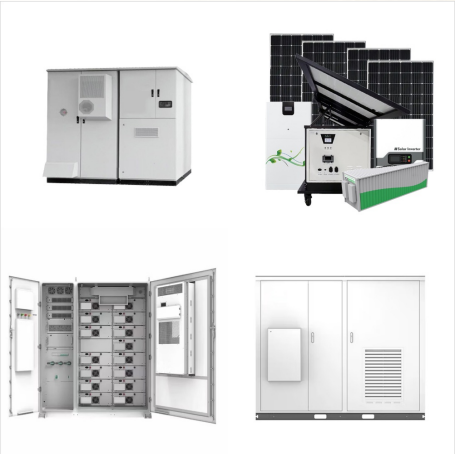

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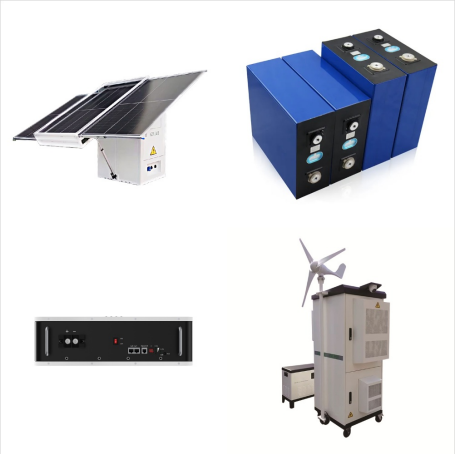

Loucas Tsakalakos. Coherent Corp. Verified email at coherent - Homepage. photonics sensors materials science energy nano/quantum technology. Nanotechnology for photovoltaics. L Tsakalakos. CRC press, 2010. 103: 2010: Multilayered film-nanowire composite, bifacial, and tandem solar cells.

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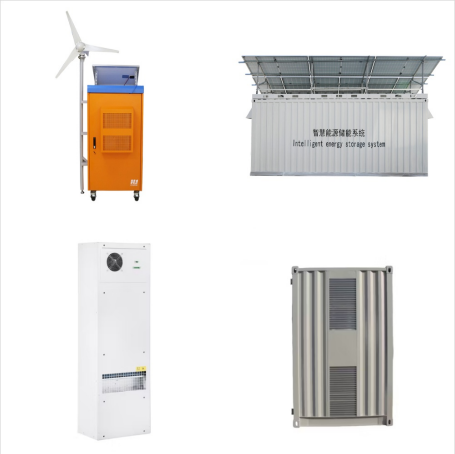
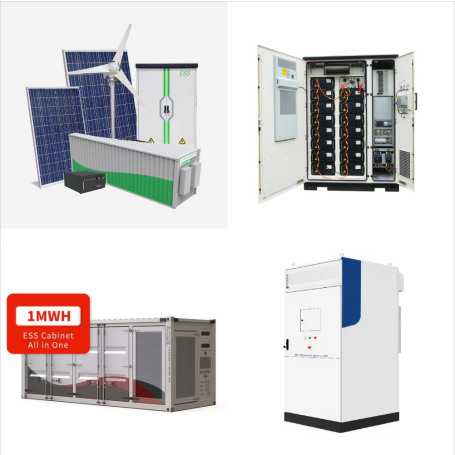


#Nanotechnology for photovoltaics #edited by Loucas Tsakalakos: U?O?O1U?Oa U?O'O+- U? U 3/4 O(R)O' U? OoU?O+-U?: Boca Raton, FL CRC Press, Taylor & Francis #c2010: U?O'O(R)OuO?Oa O,O?U?O+-U?: #xviii, 436 p.: ill.)some col.(, 25 cm. U?U?O?U?O1 (O?O3U? O1O?U? U?O?O1O?O?O+-Oa O?O3U?U? O1O?U?) Photovoltaic power generation Photovoltaic cells Semiconductor films



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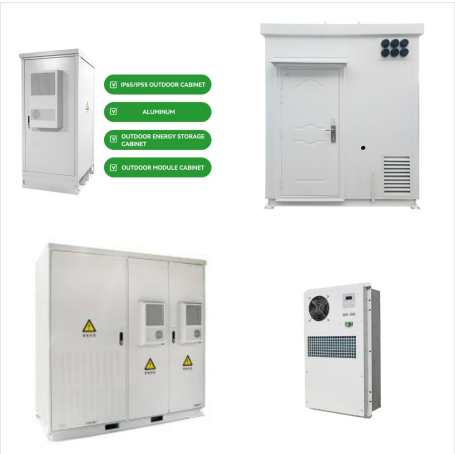

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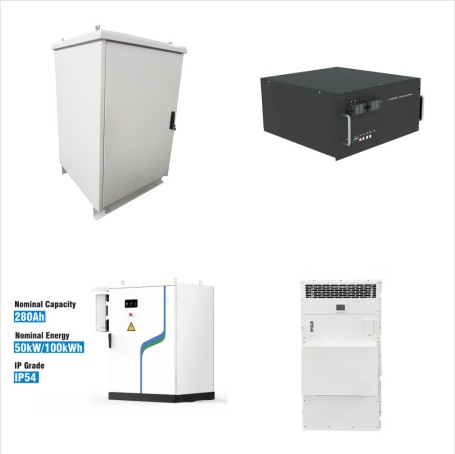
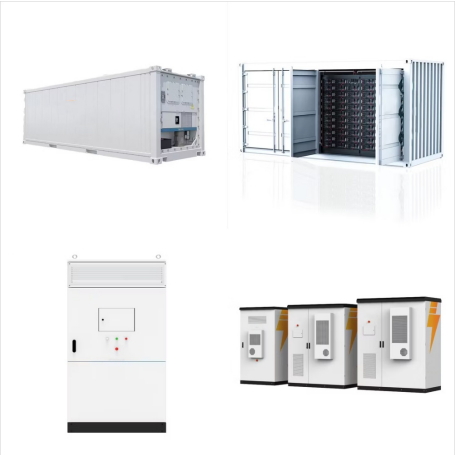
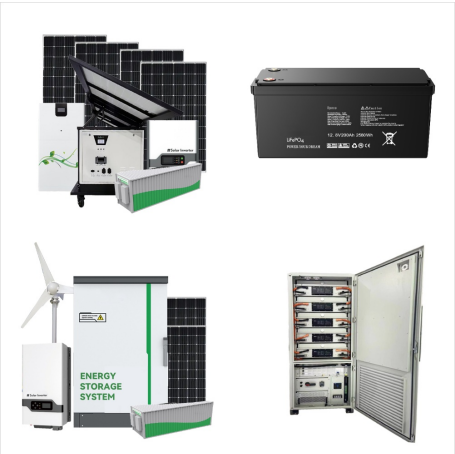


The recent progress in the development of ZnO-nanostructure-based SSCs is reviewed here, and the key issues for their efficiency improvement, such as enhancing light harvesting and increasing carrier generation, separation, and collection, are highlighted from aspects of surface-engineering techniques.



Current concerns regarding greenhouse gas-related environmental effects, energy security, and the rising costs of fossil fuel-based energy has renewed interest in solar energy in general and photovotaics in particular. Exploring state-of-the-art developments from a practical point of view, Nanotechnology for Photovoltaics examines issues in



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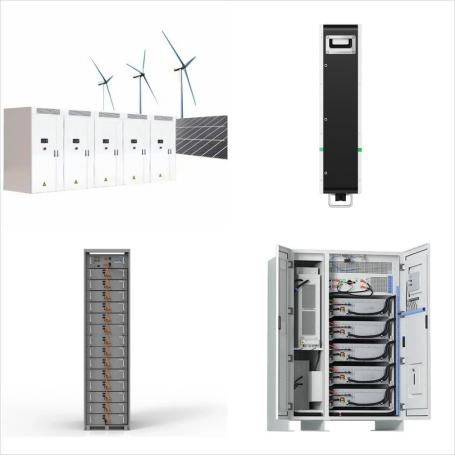
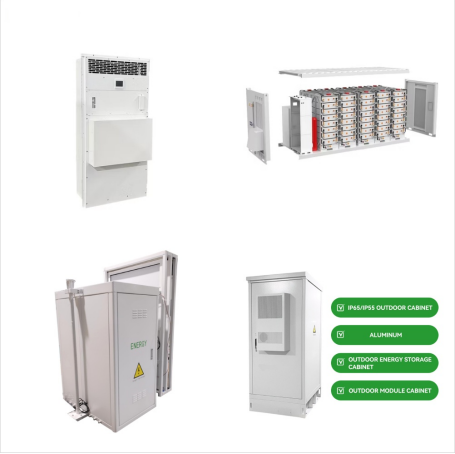


Loucas Tsakalakos is a Director of Engineering within the Lasers Segment at Coherent Corp. He received his BS degree (1995) from Rutgers University, and his MS (1998) and PhD (2000) degrees in Materials Science & Engineering (with minors in Solid State Physics and Microelectromechanical Systems) from the University of California, Berkeley. Dr.



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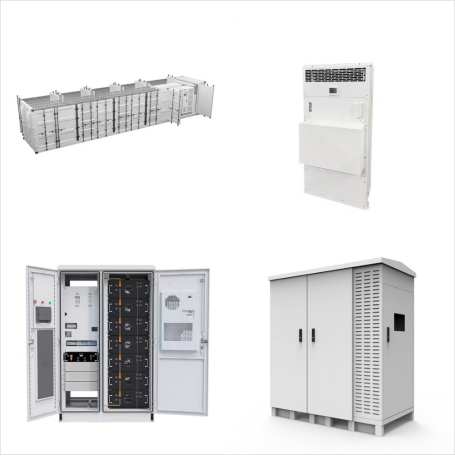

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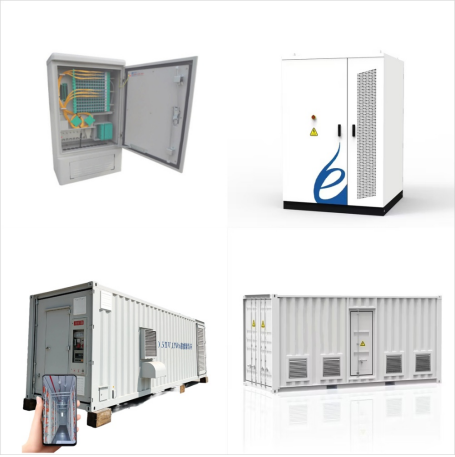

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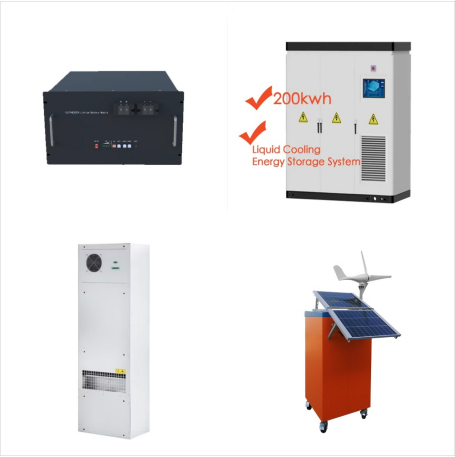
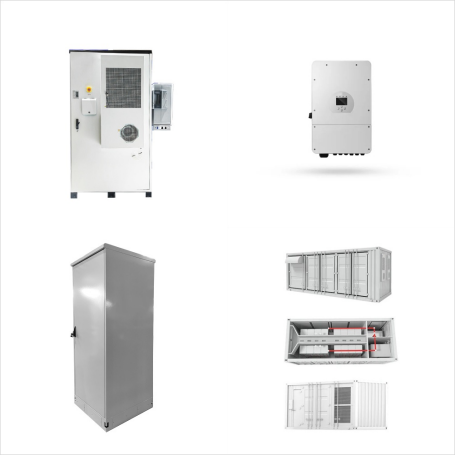


1. Tingting Xu, Qiquan Qiao, "Organic Photovoltaics: Basic Concept and Device Physics", in the book of "Encyclopedia of Nanotechnology 2nd edition", Springer-Verlag, 2014. 2. Ashish Dubey, Parveen Saini, Qiquan Qiao, Conjugated Polymers-Based Blends, Composites and Copolymers for Photovoltaics, in the book of Conducting Polymer



Photovoltaics (PV) cells absorbing photons to generate free electrons, can convert light to electricity, which has been largely employed in the past years (Tsakalakos, 2010). The effect of

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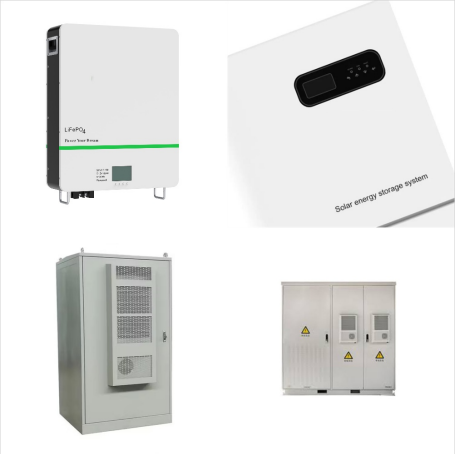
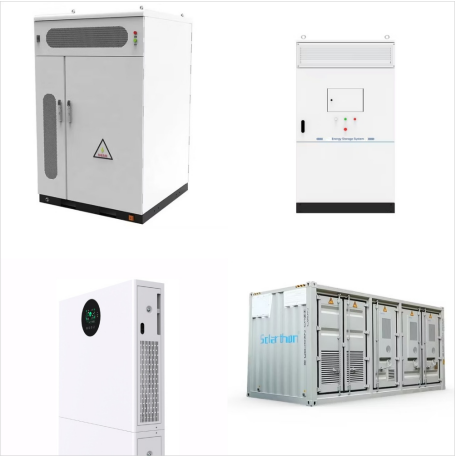


Established core capabilities and programs in MEMS, advanced sensing systems, nanowires/tubes, field emitters, nano-photovoltaics, optical coatings for solar energy, CdTe solar modules, fiber optics, integrated photonics, and quantum technologies. Loucas Tsakalakos is a Director of Engineering in the Electro-Optical sector at L3Harris Technologies.



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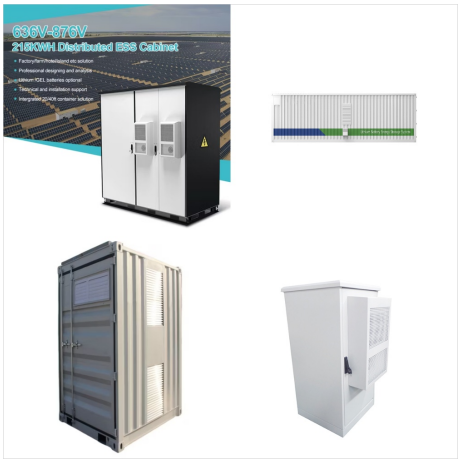

Nanotechnology is concerned with the science and engineering of materials and devices at the sub-100 nm lengths. At the nanoscale the properties of materials change from bulk values and behavior Loucas Tsakalakos. and has organized numerous international conferences in the areas of materials science, nanotechnology, energy, and

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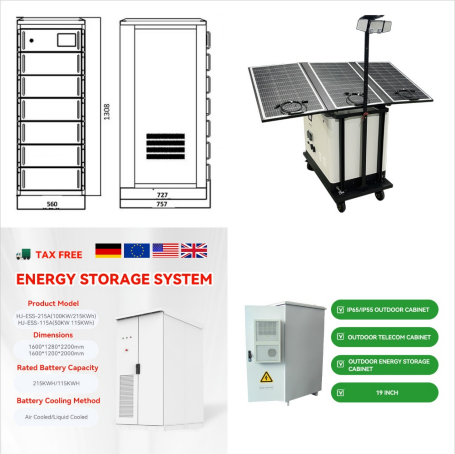

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