The heterostructure CdS/CdTe is one of the most important interfaces in solar energy cells, however, its exact structure is not well-known due to the large lattice mismatch, thus hindering the studies of interfacial properties. In this paper, we present a scheme to explore the interface structures by combining the differential evolution (DE) algorithm and the neural network ...

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The disorderly distribution of defects in the perovskite or at the grain boundaries, surfaces, and interfaces, which seriously affect carrier transport through the formation of nonradiative recombination centers, hinders the further improvement on the power conversion efficiency (PCE) of perovskite solar cells (PSCs).

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"Extra Storage Capacity Enabled by Structural Defects in Pseudocapacitive NbN Monocrystals for High-Energy Hybrid Supercapacitors." Advanced Functional Materials 2022;2112592. Doi: 10.1002/adfm.202112592. Guo Zhendong, Wang Jing, Yin Wan-Jian.

Recently, more and more metal-organic frameworks (MOFs) have been directly used as anodic materials in lithium-ion batteries, but judicious design or choice of MOFs is still challenging for lack of structural-property knowledge. In this article we propose a pillared-layer strategy to achieve improved Li-storage performance. Four Mn(II) and Co(II) MOFs with mixed azide and ...

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440.Peipei Jia, Hui Gao, Gong Zhang, Tuo Wang *, and Jinlong Gong*, "Diaphragm-based Electrolyzer with a Double-layer Cathode Catalyst Structure for Stable CO_2 Electroreduction," 2024, submitted.. 439 ujun Wang, Tuo Wang, Gong Zhang, Yixian Wang, Xianhaoyan Chen, Qingfeng Chang, Tuo Wang*, and Jinlong Gong*, "Decoupled Etch Selectivity and Optical ...

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Ken speaks and reads the Chinese language and is the author of various works published in the U.S. and

China. He received his Teaching Certificate from the William C.C. Chen School of T"ai Chi Ch"uan in 1974 and was a student of Taoism (also spelled "Daoism") and Taoist literature with Drs. Michel Strickmann, Wolfram Eberhard, Edward Schafer, and other renowned scholars.

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