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Influence of heat carrier temperature and oxygen concentration on biomass gasification and flame characteristics

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Unraveling broadened spectral response in 2D quantum dot solar cells via Sb₂Se₃/CaZrS₃ dual chalcogenide absorbers: Insights from SCAPS-1D

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Techno-economic analysis of 500 MWe supercritical thermal power plant with the integration of solid oxide fuel cell

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Design and optimization of BaSnO₃/SW-CNT hybrid electron extraction architecture enabling extended spectral response in nontoxic Cs₂AgBiBr₆ double perovskite photovoltaic cells: Insights from SCAPS-1D

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A hydrothermally engineered MoS₂-ZnS-MWCNT nanocomposite for superior oxygen evolution and visible light photocatalytic dye degradation

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Enhanced Performance of Triple-Stage Interleaved Converter in HRES Grid System Using Puffer Fish Optimized PI Controller

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Synergistic charge channelization in ZnO quantum Dots/g-C₃N₄ nanosheet Z-scheme heterostructure: A bifunctional photocatalyst for environmental remediation and sustainable H₂ production

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