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#### **Additively manufactured mesostructured MoSi<sub>2</sub>-Si<sub>3</sub>N<sub>4</sub> ceramic lattice**

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#### **Advanced oxidation processes for sulfonamide antibiotic sulfamethizole degradation : Process applicability study at ppm level and scale-down to ppb level**

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**Analysis of photocatalytic performance of nanostructured pyrogenic titanium dioxide powders in view of their polydispersity and phase transition : critical anatase particle size as a factor for suppression of charge recombination**  
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**Enhanced efficiency of hybrid amorphous silicon solar cells based on single-walled carbon nanotubes and polymer composite thin film**

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**Up-conversion enhancement in Er<sup>3+</sup> / Yb<sup>3+</sup> doped 1-D microcavity based on alternating aluminosilicate glass and titania sol-gel layers**

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**Upgrading of Estonian shale oil heavy residuum bituminous fraction by catalytic hydroconversion**

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**Utilization of oil shale combustion wastes for PCC production : quantifying the kinetics of Ca(OH)<sub>2</sub> and CaSO<sub>4</sub>·2H<sub>2</sub>O dissolution in aqueous systems**

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