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~~Earth Doped Semiconductor Nanostructures~~

Rare Earth Doped Semiconductor Nanostructures And Their ...

An insight in photoluminescence property of rare-earth doped nanophosphors and II-VI semiconductor nanostructures of different morphologies are discussed with variation of particle size, morphology, dopant concentration, synthesis method, reaction time, surfactant, chelating agent etc. employing cost effective "Bottom-up" synthesis techniques such as hydrothermal, co-precipitation method, sol-gel, micro-emulsion, solution combustion method and

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Rare Earth Doped Semiconductor Nanostructures An insight in photoluminescence property of rare-earth doped nanophosphors and II-VI semiconductor nanostructures of different morphologies are discussed with variation of particle size, morphology, dopant concentration, synthesis method, reaction time, surfactant, chelating agent etc. employing cost

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Rare Earth-Doped Zinc Oxide Nanostructures: A Review. DOI: <https://doi.org/10.1166/rnn.2016.1071>. The emerging strategies for the use of highly modified and sophisticated nano systems or devices are rapidly changing and demanding. New goals for providing better solutions with the help of nanotechnology have emerged from the electronics industry.

Rare Earth-Doped Zinc Oxide Nanostructures: A Review ...

The trivalent rare-earth (RE 3+) metal doped semiconducting materials improves the physical properties and have potential applications in optical devices, opto-electronics, flat panel display and biosensors. RE 3+ ions can be employed as luminescent material in extensive applications due to their 4f electronic configuration.

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intrinsic or via dopant clustering formation. For this, we have included a review study for the doping of transition metal and rare earth ions in ZnO. It is realized that the antiferromagnetic ...

Diluted Magnetic Semiconductor ZnO: Magnetic Ordering with ...

A single and mixed-phases SnO₂ (M-SnO₂) nanostructures were synthesized by a simple spray pyrolysis method. The nanostructural crystallinity, surface morphology and optical evolution of Ba-doped tetragonal phase SnO₂ with different Ba contents were studied by x-ray diffraction, atomic force microscopy, ultraviolet-visible spectroscopy and photoluminescence spectral measurements. The M-SnO₂ ...

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