

Access PDF Synthesis Of Zno Pt Nanoflowers And Their Photocatalytic

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ZnO nanoflowers (ZnONFs) were synthesized by a simple hydrothermal method. Then, ZnONFs suspension was sprayed onto the indium tin oxide coated glass. Finally, graphene was deposited on the surface of ZnONFs (graphene/ZnONFs) by chemical vapor deposition, which is used to electrochemically determine levodopa in the presence of uric acid.

Conclusion: The nanoflowers with interesting properties can be used in the design of future devices with various applications. The existence of different routes to synthesis nanoflowers and their unique properties confirm

the importance promoted awareness of potential benefits of nanoflowers in different applications.

The photocatalytic behaviors of the resultant ZnO-Pt nanoflowers were demonstrated in the photodegradation of ethyl violet.

Abstract: ZnO nanoflowers were synthesized using simple wet chemical approach, upon which nanoscale ZnS was deposited through pseudo successive ionic layer adsorption and reaction (p-SILAR). The process was optimized by increasing the number of p-SILAR cycles.

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Bentham Science Template- and Surfactant-free Room Temperature Synthesis ... (PDF) Synthesis of ZnO-Pt nanoflowers and their ...

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The focus of this study has been to use a biologically mediated, low temperature approach for the synthesis of zinc oxide

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3D Pt nanoflowers, which are composed of numerous single-crystal nanowires, are successfully synthesized by a facile chemical procedure, at room temperature, without surfactant or template. The Pt nanoflowers adhere to carbon paper, exhibiting an enlarged electroactive surface area comparable to that of a commercial Pt/C electrode.

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SYNTHESIS OF ZNO NANOFLOWERS AND THEIR WETTABILITIES AND PHOTOCATALYTIC PROPERTIES X.D. Guo¹, L. E. Heleseth¹, Q.Z. Zhao² ¹ Department of Physics and Technology, University of Bergen, Allégaten 55, 5007 Bergen, Norway ² State Key Laboratory of High Field Laser Physics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, Shanghai 201800, China

One-Step Synthesis of Pt-ZnO Nanoflowers

and Their ... OSA | Synthesis of ZnO nanoflowers and their wettabilities ...

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Aerosol Synthesis of

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Pt-ZnO nanoflowers are prepared via a novel one-step hydrothermal route, and Pt nanoparticles are uniformly loaded on the whole surface of the nanoflowers. The growth mechanism of Pt-ZnO nanoflowers is proposed to be a four-stage process. With the help of Raman scattering, photoluminescence, and gas sensing measurements, it has been demonstrated that the optical and sensing properties of Pt-ZnO nanoflowers are greatly enhanced.

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Synthesis of ZnO nanoflower Nanoflower shaped ZnO powder was synthesized using hydrothermal method. 0.2 M zinc nitrate hexahydrate solution was added to 0.8 M NaOH solution. After constant stirring the resultant solution was transferred to 100 ml Teflon beaker covered by Stainless steel autoclave.

Morphological, optical, photocatalytic and electrochemical ...

The resultant nanoflowers had well defined ZnO-Pt interfaces and exposed Pt {100} facets, as

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Synthesis and Applications of Nanoflowers | Bentham Science

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