

Synthesis and characterization of Zinc Oxide nanoparticles using marine *Streptomyces* sp. with its investigations on anticancer and antibacterial activity

B Balraj, N Senthilkumar, C Siva, R Krithikadevi... - Research on Chemical ..., 2017 - Springer

Synthesis of zinc oxide nanoparticles (ZnONPs) by an ecological approach using *Streptomyces* sp. as reducing agent is reported. ZnONPs were synthesized from aqueous zinc chloride solution by cell-free supernatant of a novel isolate. Hyperchromic shift was ...

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VLS growth of pure and Au decorated β -Ga₂O₃ nanowires for room temperature CO gas sensor and resistive memory applications

TF Weng, MS Ho, C Sivakumar, **B Balraj**... - Applied Surface ..., 2020 - Elsevier

High-density single crystalline β -Ga₂O₃ nanowires on silicon (1 0 0) substrates were grown by vapour-liquid-solid growth method. We have characterized the pure β -Ga₂O₃ nanowires along with the Au-decorated β -Ga₂O₃ nanowires. The CO gas sensors at room ...

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Green mediated fabrication and characterization of ZnO/Ag nanocomposite for energy storage applications

..., RP Kumar, LM Surriya, SV Raj, **B Balraj**... - Materials Research ..., 2019 - iopscience.iop.org

The present work is intended to investigate the charge carrying properties of nanomaterials for super capacitor applications by electrochemical studies. The nanomaterials were fabricated by green route process by the rhizome of *Corallo carpus epigaeus* for the first ...

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Characterization, antibacterial, anti-arthritic and in-vitro cytotoxic potentials of biosynthesized Magnesium Oxide nanomaterial

B Balraj, N Senthilkumar, IV Potheher... - ... and Engineering: B, 2018 - Elsevier

Abstract The spherical shaped Magnesium Oxide (MgO) nanomaterials were synthesized by the extracellular of *Streptomyces* sp. The Powder X-ray diffraction (PXRD) studies confirms that the particles were follows cubic crystal system and the absorbance peak around 275 nm ...

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Exercise-based cardiac rehabilitation for coronary heart disease

BS Heran, JMH Chen, S Ebrahim... - Cochrane database ..., 2011 - cochranelibrary.com

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Oxidative damage is the earliest event in Alzheimer disease

..., G Aliev, K Hirai, A Takeda, EK **Balraj**... - ... of Neuropathology & ..., 2001 - academic.oup.com

Recently, we demonstrated a significant increase of an oxidized nucleoside derived from RNA, 8-hydroxyguanosine (8OHG), and an oxidized amino acid, nitrotyrosine in vulnerable neurons of patients with Alzheimer disease (AD). To determine whether oxidative damage is ...

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Rational design of peptide-based HIV proteinase inhibitors

NA Roberts, JA Martin, D Kinchington... - ..., 1990 - science.sciencemag.org


A series of peptide derivatives based on the transition-state mimetic concept has been designed that inhibit the proteinase from the human immunodeficiency virus (HIV). The more active compounds inhibit both HIV-1 and HIV-2 proteinases in the nanomolar range with ...

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Electrical Energy Storage Capability of Flake-Like/Spherical Structured CuO–Ag Nanocomposite Synthesized by Green Plasmonic Approach

C Vivek, **B Balraj**, S Thangavel - Journal of Electronic Materials, 2020 - Springer

Nanotechnology now offers great ability for storage of electrical energy. The energy storage capability of copper oxide/silver (CuO–Ag) nanocomposite has been investigated using supercapacitor studies. The observation of a peak at 309 nm confirmed the surface plasmon ...

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Structural and Optical Behavior of CuO/Ag and CuO/Ag/Au Nanocatalysts Synthesized Via a Novel Two Step Synthesis Approach for Enhancement of Catalytic Activity

A Sankaran, K Kumaraguru, **B Balraj** - *Journal of Inorganic and ...*, 2020 - Springer

In this paper, a facile two-step process of CuO/Ag and CuO/Ag/Au nanocomposites (NCs) were fabricated for the first time. The Powder X-ray Diffraction (PXRD) pattern revealed the existence of single-phase monoclinic structure of CuO and Face Centered Cubic (FCC) ...

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Analogues of β -LPH61–64 posessing selective agonist activity at μ -opiate receptors

BK Handa, AC Lane, JAH Lord, BA Morgan... - *European journal of ...*, 1981 - Elsevier

... **BALRAJ** K. HANDA *, ANTHONY C. LANE, JOHN AH LORD, BARRY A. MORGAN **, MICHAEL J. RANCE *** and COLIN FC SMITH Reckitt ... Malfroy, **B.**, JP Swerts, A. Guyon, BP Roques and JC Schwartz, 1976, High affinity enkephalin- degrading peptidase is increased after ...

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