

Research Article

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Nano material parts for medical analysis machine-applications

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When it comes to application of specific material properties, high accuracy and minimal rework of nano-metal components are the key elements for a successful process. The parts can be either produced by Laser melting, or by metal injection moulding, depending on the volumes of the desired applications. These nanostructured materials are possible to produce on different ...

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Ultrasound assisted synthesis of nanosized oxide semiconductors/ordered mesoporous carbon nanoarchitectures

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Author(s): Maria Ignat*, Liviu Sacarescu and Aurelia Vasile

The present work reports the ultrasound assisted synthesis of nanosized oxide semiconductors, as TiO₂ (anatase) and Bi₂O₃ (-phase)/mesoporous carbon stable architectures exhibiting high photocatalytic activity for organic pollutants degradation. The use of ordered mesoporous carbon with a pore diameter around 5nm and high specific surface area of 1392m²/g was a success ...

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Hemicellulose/poly(acrylic acid) semi-IPN magnetic nanocomposite hydrogel for lysozyme adsorption

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Author(s): Tao Zhang and Xiao-Feng Sun*

A novel hemicellulose-based magnetic nanocomposite hydrogel was synthesized with modified Fe₃O₄ nanoparticles using H₂O₂-Vc as a green initiator system. The nanocomposite hydrogels were characterized by FT-IR, SEM and VSM, and the swelling properties of the hydrogels were also studied. The result demonstrated that the nanocomposite hydrogels had excellent pH sensitivity ...

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