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Fluorescent carbon nanoparticles

Ya-ping Sun

**Document Type**
Patent

**Publication Date**
11-9-2010

**Patent Number**
patent number 7829772

**Abstract**
Disclosed are photoluminescent particles. The particles include a core nano-sized particle of carbon and a passivation agent bound to the surface of the nanoparticle. The passivation agent can be, for instance, a polymeric material. The passivation agent can also be derivatized for particular applications. For example, the photoluminescent carbon nanoparticles can be derivatized to recognize and bind to a target material, for instance, a biologically active material, a pollutant, or a surface receptor on a tissue or cell surface, such as in a tagging or staining protocol.
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Disclosed are photoluminescent particles. The particles include a core nano-sized particle of carbon and a passivation agent bound to the surface of the nanoparticle. The passivation agent can be, for instance, a polymeric material. The passivation agent can also be derivatized for particular applications. For example, the photoluminescent carbon nanoparticles can be derivatized to recognize and bind to a target material, for instance a biologically active material, a pollutant, or a surface receptor on a tissue or cell surface, such as in a tagging or staining protocol.

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**Note**

Disclosed are photoluminescent particles. The particles include a core nano-sized particle of carbon and a passivation agent bound to the surface of the nanoparticle. The passivation agent can be, for instance, a polymeric material. The passivation agent can also be derivatized for particular applications. For example, the photoluminescent carbon nanoparticles can be derivatized to recognize and bind to a target material, for instance a biologically active material, a pollutant, or a surface receptor on a tissue or cell surface, such as in a tagging or staining protocol.

**Subject**

655 7 Patent1

**Added Author**

710 2 Clemson University.

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fluorescent carbon nanoparticles

Author: Sun, Ya-Ping
Title: Fluorescent Carbon Nanoparticles
Publication info: 2015-01-13

Summary:
Disclosed are photoluminescent particles. The particles include a core nano-sized particle of carbon and a passivation agent bound to the surface of the nanoparticle. The passivation agent can be, for instance, a polymeric material. The passivation agent can also be derivatized for particular applications. For example, the photoluminescent carbon nanoparticles can be derivatized to recognize and bind to a target material, for instance a biologically active material, a pollutant, or a surface receptor on a tissue or cell surface, such as in a tagging or staining protocol.

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