

**Breve descripción**  
**de las líneas de trabajo en el tema de Materiales en la**  
**Universidade Federal de Rio Grande do Sul (UFRGS)**

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-**Lugar de trabajo:** UFRGS

--**Breve descripción de la línea de trabajo en el tema de Materiales:**

- Síntese de materiais nanoestruturados

- Caracterização de propriedades de materiais

- Materiais para aplicações em energias renováveis

- Materiais para aplicações em Engenharia

- Engenharia de Superfícies

- **Publicaciones:**

-H<sub>2</sub>SO<sub>4</sub>/HNO<sub>3</sub>/HCl—Functionalization and its effect on dispersion of carbon nanotubes in aqueous media AG Osorio, ICL Silveira, VL Bueno, CP Bergmann. Applied Surface Science 255 (5), 2485-2489

-Adsorption of Reactive Red M-2BE dye from water solutions by multi-walled carbon nanotubes and activated carbón FM Machado, CP Bergmann, THM Fernandes, EC Lima, B Royer, ...Journal of hazardous materials 192 (3), 1122-1131

-Synthesis of alumina powders by the glycine–nitrate combustion process. JC Toniolo, MD Lima, AS Takimi, CP Bergmann. Materials research bulletin 40 (3), 561-571

-Adsorption of Reactive Blue 4 dye from water solutions by carbon nanotubes: experiment and theory FM Machado, CP Bergmann, EC Lima, B Royer, FE de Souza, IM Jauris, ... Physical Chemistry Chemical Physics 14 (31), 11139-11153.

-Photocatalytic activity of titania fibers obtained by electrospinning AK Alves, FA Berutti, FJ Clemens, T Graule, CP Bergmann Materials Research Bulletin 44 (2), 312-317