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Abstract A hydrothermal method was used to prepare gadolinium oxide nanospheres. A photo-assisted deposition method was used to dope palladium onto the surface of a gadolinium oxide nanosphere. Gadolinium oxide and palladium-doped gadolinium oxide nanospheres were characterized by different techniques such as BET surface area, photoluminescence spectra, transmission electron microscopy, UV-Vis diffuse reflectance spectra and X-ray diffraction. The results reveal that the nanosphere is the shape of gadolinium oxide, and dots that appear on the surface of gadolinium oxide are referred to as doped palladium on the surface of gadolinium oxide. Doping of palladium on the surface of a gadolinium oxide nanosphere changes the electronic and optical properties of the gadolinium oxide nanosphere. The photocatalytic remediation of atrazine under visible light radiation using Pd-Gd2O3			All Times Cited Counts 1 in All Databases 1 in Web of Science Core Collection 1 in BIOSIS Citation Index 0 in Chinese Science Citation Database 0 in Data Citation Index 0 in Russian Science Citation Index 0 in SciELO Citation Index			
anospheres is more efficiency than the photocatalytic remediation using Gd2O3 nanospheres. eight percent of doped palladium on the surface of the gadolinium oxide nanosphere determine notocatalytic activity of the gadolinium oxide nanosphere, and the best photocatalytic activity for egradation of atrazine is achieved using a 0.6 wt% Pd-Gd2O3 nanosphere. Additionally, the notocatalytic activity of the 0.6 wt% Pd-Gd2O3 nanosphere remains unchanged after five uses D16 Elsevier B.V. All rights reserved.		e U he La Si	Jsage Count .ast 180 Days: 13 Since 2013: 50 .earn more			
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