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Abstract Ga2O3-SiO2 nanoparticles were prepared by a sol-gel method and Pt was then immobilized on their surface via photo-assisted deposition (PAD). The produced samples were characterized using X-ray diffraction (XRD), ultraviolet and visible spectroscopy, photoluminescence emission spectroscopy, and surface area measurements. The catalytic performances of the Ga2O3-SiO2 and Pt/ Ga2O3-SiO2 samples were evaluated for the degradation of cyanide using visible light. XRD and EDX results showed that the Pt was well dispersed within the Ga2O3-SiO2 phase and was detected on the surface of the catalyst, which confirmed the successful loading of Pt ions by the PAD method. BET results		
revealed that the surface area of Ga2O3-SiO2 was higher than that of Pt/Ga2O3-SiO2. 0.3 wt% Pt/Ga2O3-SiO2 exhibited the highest photocatalytic activity for degradation of cyanide under visible light. The catalyst could be reused with no loss in activity for the first 10 cycles. (c) 2013, Dalian Institute of Chemical Physics, Chinese Academy of Sciences. Published by Elsevier B.V. All rights reserved.	Usage Count Last 180 Days: 0 Since 2013: 30 Learn more	
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Author Keywords: Gallic oxide; Silica; Visible light; Cyanide removal KeyWords Plus: SEMICONDUCTOR PHOTOCATALYSIS; BETA-GA2O3; PERFORMANCE; FILMS Author Information	Most Recent Citation Xie, Guohong. Photoelectrochemical degradation of acetaminophen and valacyclovir using nanoporous titanium dioxide . CHINESE JOURNAL OF CATALYSIS, JUL 2016.	
<ul> <li>Reprint Address: Mohamed, RM (reprint author)</li> <li>King Abdulaziz Univ, Fac Sci, Dept Chem, POB 30203, Jeddah 21589, Saudi Arabia.</li> <li>Organization-Enhanced Name(s)</li> </ul>	View All	
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<ul> <li>[2] CMRDI, Cent Met R&amp;D Inst, Adv Mat Dept, Cairo, Egypt</li> <li>[3] King Abdulaziz Univ, Ctr Excellence Environm Studies, Jeddah 21589, Saudi Arabia Organization-Enhanced Name(s) King Abdulaziz University</li> </ul>	Suggest a correction If you would like to improve the qualit of the data in this record, please suggest a correction.	

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