



Atomic Layer Deposition of Mixed-Layered Aurivillius Phase on TiO₂ Nanotubes: Synthesis, Characterization and Photoelectrocatalytic Properties

Farid Orudzhev ^{1*}, Shikhgasan Ramazanov ¹, Dinara Sobola ^{1,2,3}, Abdulgalim Isaev ¹, Chuanyi Wang ⁴, Asiyat Magomedova¹, Makhmud Kadiev¹, Kasinatan Kaviyarasu^{5,6}

¹ Dagestan State University, st. M. Gadjieva 43-a, Dagestan Republic, Makhachkala 367015, Russia

² Department of Physics, Faculty of Electrical Engineering and Communication, Brno University of Technology, Technická 2848/8, Brno 61600, Czech Republic Laboratory of Environmental Science and Technology

³ Central European Institute of Technology BUT, Purkyňova 123, Brno 61200, Czech Republic

⁴ Shaanxi University of Science & Technology, Xi'an, Shaanxi 710021, China

⁵ UNESCO-UNISA Africa Chair in Nanoscience's/Nanotechnology Laboratories, College of Graduate Studies, University of South Africa (UNISA), Muckleneuk Ridge, P O Box 392, Pretoria, South Africa.

⁶ Nanosciences African Network (NANOAFNET), Materials Research Group (MRG), iThemba LABS-National Research Foundation (NRF), 1 Old Faure Road, 7129, P O Box 722, Somerset West, Western Cape Province, South Africa.

* Correspondence: ff.orudzhev@dgu.ru; Tel.: +7-928-866-26-22

Photoelectrochemical measurement

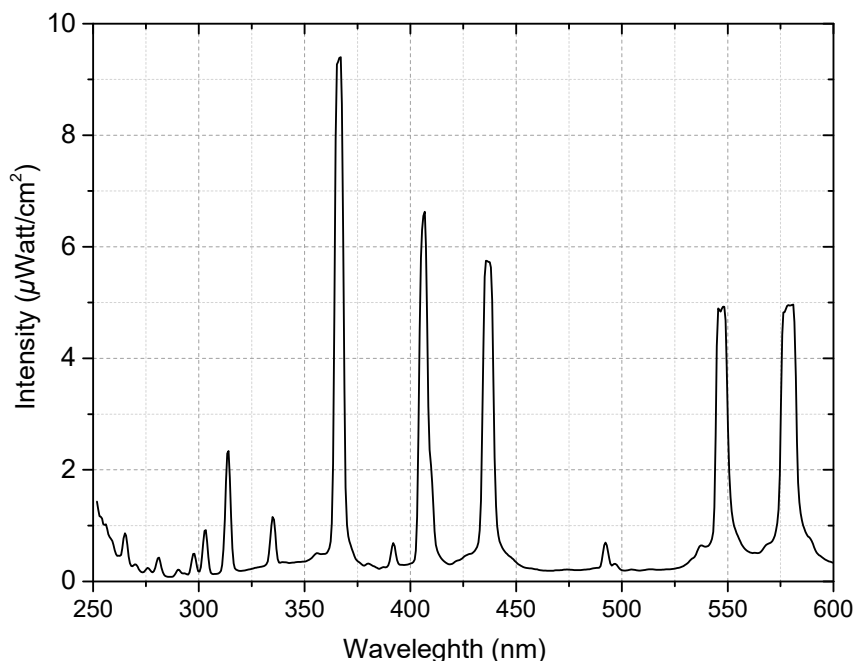


Figure S1. Emission spectrum of 250 W discharge mercury vapor lamp with a preliminary removed phosphor layer.