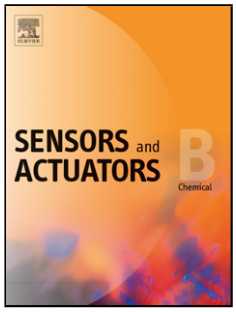


Title: Human fingernails as an intriguing precursor for the synthesis of nitrogen and sulfur-doped carbon dots with strong fluorescent properties: Analytical and bioimaging applications

Authors: Theodoros Chatzimitakos, Athanasia Kasouni, Lamprini Sygellou, Ioannis Leonardos, Anastasios Troganis, Constantine Stalikas

PII: S0925-4005(18)30755-X
DOI: https://doi.org/10.1016/j.snb.2018.04.059
Reference: SNB 24534

To appear in: *Sensors and Actuators B*

Received date: 30-11-2017
Revised date: 8-4-2018
Accepted date: 11-4-2018

Please cite this article as: Theodoros Chatzimitakos, Athanasia Kasouni, Lamprini Sygellou, Ioannis Leonardos, Anastasios Troganis, Constantine Stalikas, Human fingernails as an intriguing precursor for the synthesis of nitrogen and sulfur-doped carbon dots with strong fluorescent properties: Analytical and bioimaging applications, Sensors and Actuators B: Chemical https://doi.org/10.1016/j.snb.2018.04.059

Human fingernails as an intriguing precursor for the synthesis of nitrogen and sulfur-doped carbon dots with strong fluorescent properties: Analytical and bioimaging applications

Theodoros Chatzimitakos[1], Athanasia Kasouni[2], Lamprini Sygellou[3], Ioannis Leonardos[2], Anastasios Troganis[2], Constantine Stalikas*[1]

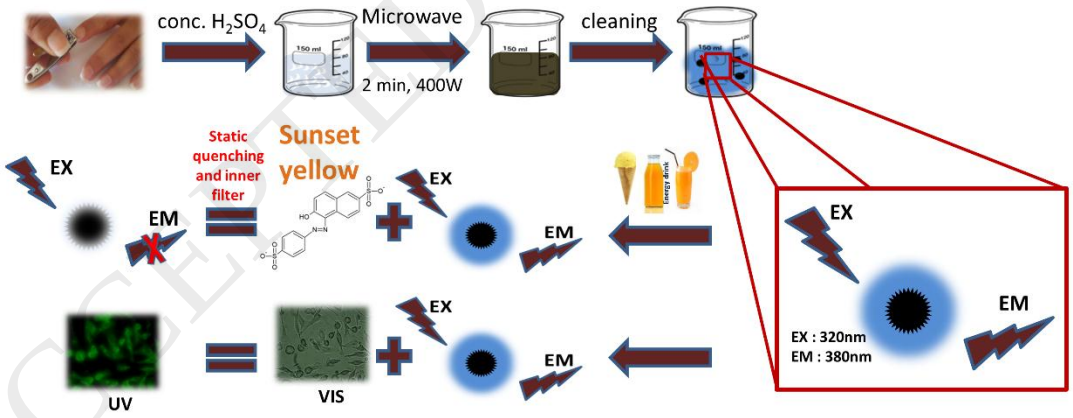
[1] Department of Chemistry, University of Ioannina, 45110 Ioannina, Greece

[2] Department of Biological Applications and Technologies, University of Ioannina, 45110, Ioannina, Greece

[3] Foundation for Research and Technology Hellas/Institute of Chemical Engineering Sciences (FORTH/ICE-HT), Stadiou Str., P.O. Box 1414, GR – 26504, Rio-Patras, Greece

*Corresponding author: C. Stalikas, Tel. 00302651008414, e-mail: cstalika@cc.uoi.gr

Graphical abstract



Highlights

- Nitrogen- and sulfur-doped fluorescent carbon dots were synthesized using fingernails as a precursor
- They were used as a fluorescent probe for sunset yellow detection