

Fatemah M. A. Barakat -- Résumé

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Education

2013 Master degree in experimental Solar Cells Physics (Distinguish),
King Saud University, Saudi Arabia

2003 Bachelors degree in Physics,
King Saud University, Saudi Arabia

RESEARCH INTERESTS

Nanoparticles
Experimental Solar Cells

Employment History

2003-present Demonstrator, Department of Physics, King Saud University, Saudi Arabia.

Skills

■ Experimental equipment

Luminescent Solar Concentrator (LSC)
Fluorescence Spectroscopy
FT-IR Spectrophotometer
Electron microscope (TEM and SEM)

■ Operating system

Windows

■ Other Qualifications

Data Analysis
Microsoft Office
Experimental Demonstrator's leader for undergraduate laboratory

■ Languages

Arabic: Mother tongue
English: currently IELTS 5.5 - still working to improve English language as I am studying English online using <http://englishlive.ef.com>

Scientific reward

2013 Price reward: Scientific innovation in physics, Saudi Arabia

Papers

(1) El-Bashir, S. M., Barakat, F. M., AlSalhi, M. S. (2013). Metal-enhanced fluorescence of mixed coumarin dyes by silver and gold nanoparticles: Towards plasmonic thin-film luminescent solar concentrator. *Journal of Luminescence*, 143, 43-49.

(2) El-Bashir, S. M., Barakat, F. M., AlSalhi, M. S. (2014). Double layered plasmonic thin-film luminescent solar concentrators based on polycarbonate supports. *Renewable Energy*, 63, 642-649