

SABRINA ROGUAI

Maitre de conférences –A-



FORMATION

2020

Khenchela, Algérie

**Diplôme d’Habilitation universitaire, Domaine Chimie,
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LANGUES

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Anglais

Arabe

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Date

- 20/12/2015
- 20/12/2016
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- [1] **Sabrina Roguai**, Abdelkader Djelloul, Corinne Nouveau, T. Souier, A.A. Dakhel, M. Bououdina, Structure, microstructure and determination of optical constants from transmittance data of co-doped Zn_{0.90}Co_{0.05}M_{0.05}O (M=Al, Cu, Cd, Na) films , Journal of Alloys and Compounds, 599 (2014) 150–158
- [2] **Sabrina Roguai**, Abdelkader Djelloul, A structural and optical properties of Cu-doped ZnO films prepared by spray pyrolysis, Applied Physics A 126 (2020) 122, doi.org/10.1007/s00339-020-3301-6
- [3] Sabrina Roguai, Abdelkader Djelloul, Synthesis and evaluation of the structural, microstructural, optical and magnetic properties of Zn_{1-x}CoxO thin films grown onto glass substrate by ultrasonic spray pyrolysis, Applied Physics A 125 (2019) 816, doi.org/10.1007/s00339-019-3118-3
- [4] **Sabrina Roguai**, Abdelkader Djelloul, Structural and optical analysis of SnO₂ thin films BY Spray Pyrolysis, Algerian J. Env. Sc. Technology, 8:1 (2022) 2285-2290
- [5] **Sabrina Roguai**, Abdelkader Djelloul, Photocatalytic degradation of methylene blue using sprayed Mg diluted ZnO heterostructure thin films photocatalysts, Reaction Kinetics, Mechanisms and Catalysis, <https://doi.org/10.1007/s11144-021-01963-4>
- [6] **Sabrina Roguai**, Abdelkader Djelloul, Structural, microstructural and photocatalytic degradation of methylene blue of zinc oxide and Fe-doped ZnO nanoparticles prepared by simple coprecipitation method, Solid State Communications. 334-335(2021) 114362 <https://doi.org/10.1016/j.ssc.2021.114362>
- [7] **Sabrina Roguai**, Abdelkader Djelloul, (May 10th 2021). Roles of Cobalt Doping on Structural and Optical of ZnO Thin Films by Ultrasonic Spray Pyrolysis [Online First], IntechOpen, DOI: 10.5772/intechopen.95920.
- [8] **Roguai Sabrina**, Livre : Croissance des couches minces de ZnO, Zn_{0.95}Co_{0.05}O et Zn_{0.90}Co_{0.05}M_{0.05}O (M = Al, Cu, Cd, Na). Éditions universitaires européennes (2020). ISBN-13: 978-613-9-57261-8
- [9] **Roguai Sabrina**, Djelloul Abdelkader, A simple synthesis of CuO NPs for photocatalytic

applications and their structural and optical properties 2021, Journal of New Technology and Materials.11,53-57

- [10] **Sabrina Roguai**, Abdelkader Djelloul, Roles of iron doping on Structural, microstructural, and optical properties of ZnO Nanoparticles by co-precipitation method, AJEAU, 5 (2021)707-712
- [11] **Roguai Sabrina**, Livre : Thermodynamique (Cours & exercices corrigés), Éditions universitaires européennes (2021). ISBN 9786203427813
- [12] **Sabrina Roguai**, Abdelkader Djelloul, Elaboration, characterization and applications of SnO₂, 2% Gd-SnO₂ and 2% Gd-9% F-SnO₂ thin films for the photocatalytic degradation of MB by USP method, 2022, Inorganic Chemistry Communications, 138, 109308
- [13] **Sabrina Roguai**, Abdelkader Djelloul, Sn doping effects on the structural, microstructural, Seebeck coefficient, and photocatalytic properties of ZnO thin films, 2022, Solid State Communications, 350, 114740.
- [14] **Sabrina Roguai**, Abdelkader Djelloul, Structural, morphological, optical and electrical properties of Ni-doped SnO₂ thin films by pneumatic spray pyrolysis method, 2022, Bulletin of Materials Science, 45, 227
- [15] **Sabrina Roguai**, Abdelkader Djelloul, Structural, microstructural, and optical properties of ZnO thin films prepared by spray pyrolysis, 2022, Algerian Journal of Renewable Energy and Sustainable Development, 4, 94-100
- [16] **Sabrina Roguai**, SnO₂ thin films by Spray Pyrolysis for Photovoltaic applications, 2022, EMERGING PHOTOVOLTAIC MATERIALS AND TECHNOLOGIES, 129
- [17] O. Boulouf, B. Zaidi, **Sabrina Roguai**, A. Mehdaoui, F. Diab, T. Bouarroudj, K. Kamli, Z. Hadeif, C. Shekhar, 2023, Computational Study of the photovoltaic performance of CdS/Si solar cells: Anti-reflective layers effect, JOURNAL OF NANO- AND ELECTRONIC PHYSICS, 15, 02016.
- [18] **Sabrina Roguai**, Abdelkader Djelloul, Gold coated vertically aligned carbon nanotubes as electrode for electrochemical capacitors, 2023, Thin Solid Films, 777, 139894
- [19] **Sabrina Roguai**, Abdelkader Djelloul, Simulation of the Optical Properties of Zn_{1-x}CoxO Thin Films Grown Onto Glass Substrate by Ultrasonic Spray Pyrolysis,

International Journal of Science and Research (IJSR), 12 (7) (2023) 1202-1206, DOI:
10.21275/SR23713023214

- [20] Daira Radouane, **Roguai Sabrina**, Boudjema Bouzid, Harrouz Abdelkader, Structural, Electrical and Optical Properties of Fe-doped CuO Deposited by Spray Pyrolysis Technique, 2023, Algerian Journal of Renewable Energy and Sustainable Development, 5(1), 79-84. doi: 10.46657/ajresd.2023.5.1.10
- [21] **Sabrina Roguai**, Abdelkader Djelloul, ZnO and La-doped ZnO films by USP method and their characterizations for ultraviolet photodetectors and photocatalysis applications, Inorganic Chemistry Communications 157 (2023) 111372.
<https://doi.org/10.1016/j.inoche.2023.111372>
- [22] **Sabrina Roguai**, Abdelghani Lakel, Abdelkader Djelloul, Khier Lalmi, and Najoua Kamoun-Turki, Enhancement of Titanium Nitride-Specific Capacitance Using Rapid Thermal Sulfurization, JMEPEG. <https://doi.org/10.1007/s11665-023-09067-x>
- [23] Daira Radouane, Zerouali Madiha, **Roguai Sabrina**, Boudjema Bouzid, Harrouz Abdelkader, PHYSICAL properties of CuO Deposited by Ultrasonic Spray by Flow Rates 5ml/h and 10 ml/h for Application in Renewable Energy, 2023, Algerian Journal of Renewable Energy and Sustainable Development, 5(2), 136-143. doi:
10.46657/ajresd.2023.5.2.5