

## Publications 2021

1. M.P. Motaung, D.C. Onwudiwe, L. Wei, C. Lou, CuS, In<sub>2</sub>S<sub>3</sub> and CuInS<sub>2</sub> nanoparticles by microwave-assisted solvothermal route and their electrochemical studies. *Journal of Physics and Chemistry of Solids*, **2022**, 160, 110319.
2. G. Hogarth, D.C. Onwudiwe, Copper Dithiocarbamates: Coordination Chemistry and Applications in Materials Science, Biosciences and Beyond. *Inorganics*, **2021**, 9 (9), 70.
3. T.O. Ajiboye, O.A. Oyewo, D.C. Onwudiwe, Adsorption and photocatalytic removal of Rhodamine B from wastewater using carbon-based materials. *FlatChem*, **2021**, 29, 100277.
4. M.P. Ravele, O.A. Oyewo, D.C. Onwudiwe, Controlled Synthesis of CuS and Cu<sub>9</sub>S<sub>5</sub> and Their Application in the Photocatalytic Mineralization of Tetracycline. *Catalysts*, **2021**, 11 (8), 899.
5. T.O. Ajiboye, O.A. Oyewo, D.C. Onwudiwe, Photocatalytic removal of parabens and halogenated products in wastewater: a review. *Environmental Chemistry Letters*, **2021**, 1-31.
6. M.P. Motaung, D.C. Onwudiwe, W. Lei, Microwave-Assisted Synthesis of Bi<sub>2</sub>S<sub>3</sub> and Sb<sub>2</sub>S<sub>3</sub> Nanoparticles and Their Photoelectrochemical Properties. *ACS omega*, **2021**, 6 (29), 18975-18987.
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8. D.C. Onwudiwe, B.M. Phadi, O.A. Oyewo, Ce<sub>2</sub>O<sub>3</sub>/BiVO<sub>4</sub> Embedded in rGO as Photocatalyst for the Degradation of Methyl Orange under Visible Light Irradiation. *J.*, **2021**, 4 (2), 154-168 2021
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11. E.E. Elemike, D.C. Onwudiwe, J.I. Mbonu, Green Synthesis, Structural Characterization and Photocatalytic Activities of Chitosan-ZnO Nano-composite. *Journal of Inorganic and Organometallic Polymers and Materials*, **2021**, 1-12.
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13. T.O. Ajiboye, O.A. Oyewo, D.C. Onwudiwe, The performance of bismuth-based compounds in photocatalytic applications. *Surfaces and Interfaces*, **2021**, 100927.
14. T.A. Saiyed, J.O. Adeyemi, D.C. Onwudiwe, The structural chemistry of zinc(ii) and nickel(ii) dithiocarbamate complexes, *Open Chemistry*, **2021**, 19 (1), 974-986.
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16. T.O. Ajiboye, S.O. Babalola, D.C. Onwudiwe, Photocatalytic Inactivation as a Method of Elimination of E. coli from Drinking Water. *Applied Sciences*, **2021**, 11 (3), 1313.
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20. Behavior of S, SO, and SO<sub>3</sub> on Pt (001), (011), and (111) surfaces: A DFT study. *The Journal of Chemical Physics*, **2021**, 154 (19), 194701.
21. M.J. Ungerer, C.G.C.E. van Sittert, N.H. de Leeuw, On the electrocatalytic symbiotic synergism between Pt, Ni and Al in plasma vapour deposited Pt<sub>x</sub>Ni<sub>y</sub>Al<sub>z</sub> thin metal films for water electrolysis. R.J. Kriek, L.A. van Heerden, A. Falch, M.I. Gillespie, A.Y. Faid, F. Seland. *Journal of Power Sources*, **2021**, 494, 229344.
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41. J.O. Adeyemi, D.C. Onwudiwe, SnS<sub>2</sub> and SnO<sub>2</sub> Nanoparticles Obtained from Organotin (IV) Dithiocarbamate Complex and Their Photocatalytic Activities on Methylene Blue, *Materials*, **2020**, 13 (12), 2766.
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55. C.B. Njoku, B.P. Doyle, E. Carleschi, R.J. Kriek, Ce<sub>0.8</sub>Sr<sub>0.2</sub>Co<sub>x</sub>Fe<sub>1-x</sub>O<sub>3-δ</sub> (x=0.2, 0.5, 0.8) – A Perovskite-type Nanocomposite for Application in the Oxygen Evolution Reaction in Alkaline Media, *Electroanalysis*, **2020**, *32* (12), 3131-3144.
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