

P. Sathe, J. Richter, **M.T.Z. Myint**, S. Dobretsov, and J. Dutta, [Self-decontaminating photocatalytic zinc oxide nanorod coatings for prevention of marine microfouling: a mesocosm study](#), *Biofouling* 32 (2016) 383-395.

P.Sathe, **M.T.Z. Myint**, S. Dobretsov, and J. Dutta, [Removal and regrowth inhibition of microalgae using visible light photocatalysis with ZnO nanorods: A green technology](#), *Separation and Purification Technology* 162 (2016) 61-67.

T. Bora, **M.T.Z. Myint**, S.H. Al-Harhi, and J. Dutta, [Role of surface defects on visible light enabled plasmonic photocatalysis in Au-ZnO nanocatalysts](#), *RSC Advances*, 5 (2015) 96670-96680.

K. Laxman, **M.T.Z. Myint**, M. Al Abri, L. Al Gharibi, B. Al Namani, H. Bourdouen, and Joydeep Dutta, [Efficient desalination of brackish ground water via a novel capacitive deionization cell using nanoporous activated carbon cloth electrodes](#), *Journal of Engineering Research*, 12 (2015) 22-31.

K. Laxman, **M.T.Z. Myint**, R. Khan, T. Pervez, and J. Dutta, [Effect of a semiconductor dielectric coating on the salt adsorption capacity of a porous electrode in a capacitive deionization cell](#), *Electrochimica Acta*, 166 (2015) 329-337

K. Laxman, **M.T.Z. Myint**, R. Khan, T. Pervez, and J. Dutta, [Improved desalination by zinc oxide nanorod induced electric field enhancement in capacitive deionization of brackish water](#), *Desalination* 59 (2015) 64-70.

K. Laxman, **M.T.Z. Myint**, M. Al Abri, P. Sathe, S. Dobretsov, and J. Dutta, [Desalination and disinfection of inland brackish ground water in a capacitive deionization cell using nanoporous activated carbon cloth electrodes](#), *Desalination* 362 (2015) 126-132

M. Al-Fori, S. Dobretsov, **M.T.Z. Myint**, and Joydeep Dutta, [Antifouling properties of zinc oxide nanorod coatings](#), *Biofouling*, 30 (2014) 871-882

K. Laxman, **M.T.Z. Myint**, H. Bourdouen, and Joydeep Dutta, [Enhancement in Ion Adsorption Rate and Desalination Efficiency in a Capacitive Deionization Cell through Improved Electric Field Distribution Using Electrodes Composed of Activated Carbon Cloth Coated with Zinc Oxide Nanorods](#), *ACS Applied Materials and Interfaces*, 6 (2014) 10113-10120.

M.T.Z. Myint, S.H. Al-Harhi, and Joydeep Dutta, [Brackish water desalination by capacitive deionization using zinc oxide micro/nanostructures grafted on activated carbon cloth electrodes](#), *Desalination* 344 (2014) 236-242

M.T.Z. Myint, G.L. Hornyak, and Joydeep Dutta, [One pot synthesis of opposing 'rose petal' and 'lotus leaf' superhydrophobic materials with zinc oxide nanorods](#), *J. Colloid Interface Sci.*, 415 (2014) 32.

S. H. Al-Harhi, H. M. Widatallah, Ashraf T. Al-Hinai, Mohamed E. Elzain, Hidetoshi Nishiyama, **Myo Tay Zar Myint**, “[Copper oxide nanorods assembly and their whisker transformation at liquid–liquid interface and on solid surfaces](#)”, Journal of Crystal Growth, 392 (2014) 41.

K.P. Revathy, S.H. Al- Harthi, T. Al-Hinai Ashraf , M. Elzain, A.K George, N.V Unnikrishnan, I. Al-Amri, **MyoTay Zar Myint**, “[Pattern formation of Gold-PVA nanomix spin coated on different substrates](#)”, Colloid and Surfaces A: Physicochemical and Engineering Aspects 20 (2013) 73.

Myo Tay Zar Myint, Nithin Senthur Kumar, Gabor Louis Hornyak, Joydeep Dutta, “[Hydrophobic/hydrophilic switching on zinc oxide micro-textured surface](#)”, Applied Surface Science 1 (2013) 344.

Anupam Giri, Nirmal Goswami, Monalisa Pal, **Myo Tay Zar Myint**, Salim Al-Harhi, Achintya Singha, Barnali Ghosh, Joydeep Dutta and Samir Kumar Pal, “[Rational Surface Modification of Mn₃O₄ Nanoparticles to Induce Multiple Photoluminescence and Room Temperature Ferromagnetism](#)”, Journal of Materials Chemistry C 9 (2013) 1885.

Samim Sardar, Soumik Sarkar, **Myo Tay Zar Myint**, Salim Al-Harhi, Joydeep Dutta and Samir Kumar Pal, “[Role of Central Metal Ion in Hematoporphyrin-Functionalized Titania in Solar Energy Conversion Dynamics](#)”, Physical Chemistry Chemical Physics 15 (2013) 18562.

Pattamon Teerapanich, **Myo Tay Zar Myint**, Claire M. Joseph, Gabor L. Hornyak, Joydeep Dutta, “[Development and improvement of carbon nanotube based ammonia gas sensors using ink-jet printed interdigitated electrodes](#)”, IEEE Transactions on Nanotechnology (2012) 255.

S. H. Al-Harhi, M. Elzain, M. Al-Barwani, A. Kora'a, T. Hysen, **Myo Tay Zar Myint** and M. R. Anantharaman, “[Unusual surface and edge morphologies, sp² to sp³ hybridized transformation and electronic damage after Ar⁺ ion irradiation of few-layer graphene surfaces](#)”, Nanoscale research letter 7 (2012) 466.

S. H. Al-Harhi, A. Kara'a, T. Hysen, M. Elzain, A.T. Al-Hinai, **Myo Tay Zar Myint**, “[Evolution of surface morphology and electronic structure of few layer graphene after low energy Ar⁺ ion irradiation](#)”, Applied Physics Letters 21 (2012) 213107.

Myo Tay Zar Myint & Joydeep Dutta, “[Fabrication of zinc oxide nanorods modified activated carbon cloth electrode for desalination of brackish water using capacitive deionization approach](#)”, Desalination 305 (2012) 24.

Aarthy Sivapunniam, Niti Wiromrat, **Myo Tay Zar Myint** & Joydeep Dutta, “[High-performance liquefied petroleum gas sensing based on nanostructures of zinc oxide and zinc stannate](#)”, Sensors and Actuators B: Chemical 157 (2011) 232.

Myo Tay Zar Myint, Rungrot Kitsomboonloha, Sunandan Baruah & Joydeep Dutta, “[Superhydrophobic surfaces using selected zinc oxide microrod growth on ink-jetted patterns](#)”, Journal of Colloid and Interface Science 354 (2011) 810.

Sunandan Baruah, Mohammad Abbas Mahmood, **Myo Tay Zar Myint**, Tanujjal Bora & Joydeep Dutta, “[Enhanced visible light photocatalysis through fast crystallization of zinc oxide nanorods](#)”, Beilstein J. Nanotechnol. 1 (2011) 14.

Rungrot Kitsomboonloha, Sunandan Baruah, **Myo Tay Zar Myint**, Vivek Subramanian & Joydeep Dutta, “[Selective growth of zinc oxide nanorods on inkjet printed seed patterns](#)”, Journal of Crystal Growth 311 (2009) 2352.