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**Biographical  
sketch:  
(Academic  
Degrees-  
Fellowships and  
Associations)**

- Doctor of Philosophy in Chemical Engineering in “**Development of a mathematical model for a fluidized bed reaction vessel**”, 2011.
- Master of Science in Chemical Engineering in “**Biosorption of Cu (II) ions from aqueous solutions by treated shells of some crustaceans**”, 2007.
- B.Sc. in Chemical Engineering, Alexandria University, June 2002.

**Publications:**

- 1- T.M. Zewail , N.S. Yousef\*, Chromium ions ( $\text{Cr}^{6+}$  &  $\text{Cr}^{3+}$ ) removal from synthetic wastewater by electrocoagulation using vertical expanded Fe anode, Journal of Electroanalytical Chemistry 735 (2014) 123–128.
- 2- A.S. Darwish , T.M. Zewail , N.S. Yousef \*, Y.A. El-Tawail, “Investigation of the performance of a batch air spouting bed in conducting ion exchange reactions involving heavy metal removal”, Journal of the Taiwan Institute of Chemical Engineers 47 (2015) 171–176.
- 3- T.M. Zewail \*, N.S. Yousef, Kinetic study of heavy metal ions removal by ion exchange in batch conical air spouted bed, Alexandria Engineering Journal (2015) .
- 4- Rania Farouq , N.S. Yousef, Equilibrium and Kinetics Studies of adsorption of Copper (II) ions on Natural Biosorbent, International Journal of Chemical Engineering and Applications (2015).
- 5- N.S. Yousef\*, Rania Farouq, Riham Hazzaa, Adsorption

	<p>kinetics and isotherms for the removal of nickel ions from aqueous solutions by an ion-exchange resin: application of two and three parameter isotherm models, Desalination and Water Treatment (2016).</p> <p>6- HASSAN A. FARAG, N. S. YOUSEF, RANIA FAROUQ*, Modeling and Simulation of a hydrocracking unit, Journal of Engineering Science &amp; Technology, 11 (August 2016).</p> <p>7- N.S. Yousef *, Riham Hazzaa, Rania Farouq, Adsorptive Removal of Chromium (III) from aqueous solution using Cation-Exchange Resin: Development of an Empirical Model, international proceeding chemical biological and environmental engineering, 88 (2015).</p>
<p><b>Academic Research interests:</b></p>	<p>Environmental engineering, Modeling and Simulation, Catalysis, Nano-technology, Separations, Polymers, Petroleum Engineering</p>