| Faculty Name: | Dr. Tamer Ezzat Youssef |
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| **Education:** | ➢ Ph.D Faculty of Chemistry and Pharmacy, Eberhard-Karls Tübingen University, Tübingen, Germany 2004.<br>➢ MSc Faculty of Science, Cairo University, El-Giza, Egypt 1999.<br>➢ BSc Faculty of Science, Cairo University, El-Giza, Egypt 1994. |
| **Academic experience:** | ➢ Associate Professor, Nuclear Engineering Department, KAU 2015- Date.<br>➢ Associate Professor, Chemical and Materials Engineering Dep., 2013- 2015.<br>➢ Assistant Professor, Chemical and Materials Engineering Dep., KAU 2012.<br>➢ Post-Doctoral Research Fellow, Leibniz Hannover University, Germany 2007-2011. |
| **Non-academic experience** | ➢ Project manager: EMC Microcollections GmbH- Tübingen, Germany 2002.<br>➢ Research Advisor: R&D SYMPORE GmbH -Tübingen, Germany 2003.<br>➢ R&D Consultant: Goldi Flat Panel Displays Group, (IEP), Egypt 2005.<br>➢ R&D Consultant: Continental GmbH-Hannover, Germany 2010. |
| **Current membership in professional organizations** | ➢ Member: The Egyptian Society of Advanced Materials and Nanotechnology-(ESAMNT) 2005.<br>➢ Member: Egyptian Society of Polymer Science and Technology 2005.<br>➢ Member: The Association of Egyptian American Scholars (AEAS) 2009.<br>➢ Member: American Chemical Society (ACS) 2011. |
| **Honors& Awards** | ➢ Certificate of Merit given by the Rector of NRC for the Best Scientific Publishing Prize for year 2011.<br>➢ Utilization of Metallophthalocyanine-based Organic Framework Materials for $CO_2$ Capture, Principal investigator, Grant Nr. 13-ENV189-03, Project ongoing. Grants, KACST Long Term Internal Research Funding (LTIRF)<br>➢ Development of Predictive Models for Design of Fused Deposition Modeling (FDM) of Functional Products. Co-investigator, Grant Nr. 14-ADV722-03, Project ongoing. Grants, KACST - LTIRF<br>➢ Synthesis and Investigation on Thermoplastic Polyurethane Resins based on Functional Metallophthalocyanines for Industrial Technical Requirements. Principal investigator, Grant Nr. MS15/236/1434, Project completed 2014. Grants, SABIC Internal Research Funding (SIRF)<br>➢ Influence of Catalytic Hydrodechlorination on Chlorinated Organic Wastes over Phthalocyanines Catalysts: Target for Ecological Safety Degradation of Ground Water Pollutants. Principal investigator, Grant Nr. 236/135/1433, Project completed 2013. Grant, KAU Short Term Internal Research Funding (STIRF)<br>➢ Design and Implementation of Highly Efficient Hybrid Sorbent Materials for Removing Toxic Synthetic Organic Chemical Contaminants from Water. Principal investigator, Grant Nr. 233/135/1434, Project completed 2014. Grant, KAU - STIRF<br>➢ Post-Combustion $CO_2$ capture using Amines, Ionic liquids (ILs) and Metal-organic frame works (MOFs). Grant, KAU Short Term Internal Research Funding (STIRF)<br>➢ Co-investigator, Grant Nr. 492/135/1434, Project ongoing. Grant, KAU Short Term Internal Research Funding (STIRF)<br>➢ Development of functionalized Metallic organic frameworks (MOFs) for |

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| | Carbon Dioxide ($CO_2$) Capture. Grant, KAU - STIRF<br>➢ Co-investigator, Grant Nr.494/135/1434, Project ongoing. Grant, KAU -STIRF<br>➢ On similarities in Infra-Red Spectra of Tetra-substituted Metallophthalocyanine Derivatives. Principal investigator, Grant Nr. 135/006/D1433, Project completed 2013. Grant, KAU/ Distinct Research Study Funding<br>➢ Phthalocyanine Derivatives for Potential Applications: New Ideas and Perspectives. Principal investigator, Grant Nr. 135-138-D1435, Project completed 2014. Grant, KAU/ Distinct Research Study Funding |
| **Service Activities** | ➢ Coordinator of the Instrumental Analysis Laboratory (IAL), Faculty of Engineering, King Abdulaziz University (KAU). |
| **Publications 2011-Date** | ➢ Tamer E. Youssef, Hamad AL-Turaif, Dumitru Baleanu, Symmetrically Substituted Zinc Phthalocyanine Derivatives Bearing N-heterocycle Moieties: Synthesis and structural analysis investigations. REV. CHIM. (Bucharest), 2014, 65, No. 11, 1266-1270.<br>➢ Tamer E. Youssef , Yahia A. Alhamed ,Saad S. Al-Shahrani , Korany A. Ali, Antitumor Activity of Tetra-Substituted Zinc Phthalocyanines containing 4(3H)- Quinazolinone derivatives, Rev. Chim. (Bucharest), 2014, 65 (5), 560-564.<br>➢ J.A.T. Machado, Dumitru Baleanu, A. A. AL-Zahrani, Yahia A. Alhamed , Adnan H. Zahid, Tamer E. Youssef, On similarities in Infra red spectra of complex drugs, Romanian reports in Physics, 2014, 66 (2), 382–393.<br>➢ R.R. Nigmatullin, D. Baleanu,A.A. Alzahrani, Y.A. Alhamed, A.H. Zahid, Tamer E.Youssef, Spectral analysis of HIV drugs for acquired immunodeficiency syndrome within modified non-invasive methods. Rev. Chim. (Bucharest), 2013, 64 (9), 987-993.<br>➢ Tamer E. Youssef, et. al. Comparable optical properties and dispersion parameters of monomeric axial ruthenium phthalocyanine thin films. Journal of Luminescence, 2013, 138, 187-194.<br>➢ Helmut Bertagnolli, Venkata Krishnana, Tamer E. Youssef & Michael Hanack. Structural Investigations of Hexadecafluoro(phthalocyaninato)ruthenium(II) $F_{16}$PcRu with EXAFS Spectroscopy. J. Porphyrins &Phthalocyanines 2011, 15, 598–601.<br>➢ Tamer E. Youssef, et. al. Synthesis and Photophysicochemical Properties of Novel Mononuclear Rhodium (III) Phthalocyanines. Polyhedron, 2011, 30, 2045-2050.<br>➢ Tamer E. Youssef, et. al. Preparation and Radiation Effect on Composite Films Containing Both Polypropylene and Novel Phthalocyanines with Functionalized Bulky Phenoxy Groups.J. Appl. Polym. Sci., 2011,119,134-141.<br>➢ "Preparation of axially and peripheral substituted phthalocyanine complexes for solar cells fabrication". Patent Nr. 1868/2011, 2.11.2011. |
| **Professional development activities** | ➢ Book Title: Tamer E. Youssef. Advanced Designed Phthalocyanine Materials for Nonlinear Optics, ISBN: 978-3-8381-2378-3/ SVH Press, Germany, 2011.<br>➢ Member of the scientific committee of Center of Excellence for Advanced Science (CEAS), NRC, Cairo, Egypt 2005- Date. |