

Curriculum Vita of Prof. Hassan Mohamed Ahmed

Personal Data:

Name			Nationality	Place of Birth	Date of Birth	Gender	Marital Status
Frist	Middle	Family	Egyptian	Cairo	10/6/1973	male	Married
Hassan	Mohamed	Ahmed Hassan					
General Specialization							
Specialization							
Physical Chemistry							
Nanocatalysis and materials science							
Current Position			Program Coordinator				
Scientific Title			Professor <input type="checkbox"/> Associate Professor <input type="checkbox"/> Assistant Professor <input type="checkbox"/> Lecturer <input type="checkbox"/> Other <input type="checkbox"/>				
Highest degree/ Date			PhDP / 22/10 /2007				
ID Number							
College			College of science	Department	Chemistry		

Contact Data:

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Mailbox	Postal code		

Education (Bachelor, Master, PhD, Other):

No.	Qualification	Date	Degree	University	Collage	Scientific Department	Specialization	
							General	Specific
1	Bachelor	May 1996	B.SC	Suez Canal University	Faculty of Science	Chemistry	Chemistry	Chemistry
2	Master	20/7/2003	M.Sc	Suez Canal University	Faculty of Science	Chemistry	Chemistry	Physical Chemistry
3	PhD	22/10/2007	PhD	Suez Canal University/Virginia commonwealth university	Faculty of Science	Chemistry	Chemistry	Physical Chemistry

Employment Qualifications:

Job	Job Title	University Degree	Workplace	Date		Work duty	Years of Experience
				From	To		
Academic	Director of project management unit,	Professor	Suez university	2017	2018	Finding the funding sources	2 years
	Director of Regional center of academy of scientific research and technology (ASRT) (Suez, Red Sea and Sinai Province)	Professor	Suez university	2016	2018	Set up technology incubator	2 years
	Vice Dean for student affairs at faculty of industrial education	professor	Suez university	2/2016	7/2016		One semester
	Director of technology innovation and	professor	Suez university	2014	2018	Promotion a culture of applied research	4 years

	commercialization office (TICO)						
	Egypt Nanotechnology Research Center	professor	Cairo university	2016	2018		2 years
	Head of Chemistry department	professor	Suez university	8/2018	10/2018		2 months

Participation in scientific conferences and symposiums

No.	Title of the conference or symposium	Held in	Year
1	<u>Hassan M.A.Hassan</u> , Abd El Rahman S. Khder, V. Abdelsayed and M. Samy El-Shall. Synthesis and Characterization of Ordered Nanoporous MCM-41 Containing Different Transition-metals oxides (Fe,Co,Cu, Zn) for CO Oxidation Reaction.	The 60th Southeastern Regional Meeting (SERMACS)	2008
2	M. Samy El-Shall, V. Abdelsayed, Abd El Rahman S. Khder, Hassan M.A.Hassan, Hani M. El-Kadri and Thomas E.Reich. Metallic and bimetallic nanocatalysts incorporated into highly porous coordination polymer MIL-101.	International Work Shop on Advanced Materials-IWAM 2010. Ras Al Khaimah, United Arab Emirates	2010
3	<u>Hassan M.A.Hassan (Invited Speaker)</u> , Nanocatalysts for CO Oxidation on Different Supports: Mesoporous MCM-41, MIL-101 & Mixed Metal Oxides.	US-Egypt Advanced Studies Institute.Cairo-US,	2010
4	<u>Hassan M. A. Hassan</u> , Abd El Rahman S. Khder and M. Samy El-Shall. Shape Dependent Catalytic Activity of Au-CeO ₂ nanocomposite for CO Oxidation. International Work Shop on Advanced Materials-	IWAM 2011. Ras Al Khaimah, United Arab Emirates	2011
5	Optical Nanosensor Based on Metal-Organic Framework for Selective Determination and Complete Extraction of Toxic Metal Ions in Water Egyptian-German	SusWaTec Workshop Cairo	2013
6	Highly Selective and Controllable Oxidation for the Toxic Sulfur Containing Compounds through Phosphotungstic Acid Supported On Crosslinking Polymer Brushes Catalysts,	The 20th International Conference on Petroleum, Mineral	2017

		Resources and Development Cairo	
7	Renewable energy resources “Prospects and challenges”	Jouf University	2019

Supervision of graduate:

No.	Thesis Title	Degree		University	Year	Collage	Department
		M.Sc.	Ph.D.				
1	Metal Oxide loaded on Metal-Organic Framework as Bifunctional Catalysts of an Acidic and Basic nature for the Knoevenagel Condensation Reaction	√		Jouf University	2021	Science	Chemistry
2	Microporous magnetic carbon spheres functionalized with metallic nanoparticles and their applications in heterogeneous catalysis	√		Jouf University	2021	Science	Chemistry
3	Design and synthesis of modified hybrid nanomaterials for reduction of nitroarene compounds	√		Jouf University	2022	Science	Chemistry
4	Using Co-Cr layered double hydroxides loaded with metallic nanoparticles as catalysts for oxidation and reduction reactions	√		Jouf University	2022	Science	Chemistry
5	Electrospun Polymeric Nanofibers loaded Metal-organic framework for effective removal of organic pollutants	√		Jouf University	2022	Science	Chemistry

Membership of specialized committees and associations:

No.	Committee	Period	Place
1	American chemical Society	2005	USA
2	Editorial board of Cogent Chemistry Journal (Tylor Francis publisher)	2016- present	United Kingdom
3	Guest Editor of Journal of Chemistry	June 27, 2021	USA
4	Guest Editor of Adsorption Science and Technology	2022	USA

Skills:

Skills	1	Reading
	2	Football

Awards and honors:

No.	Award	Awarded by	Specialization	Period
1	University Award for International Publishing	Suez Canal University	Publication	2007-2014
2	Scientific Visitor, Virginia Commonwealth University-Richmond,USA	Virginia Commonwealth University	phD	2005
3	Scientific Visitor, Institut für Anorganische Chemie und Strukturchemie -Universität Düsseldorf-Germany,	Suez University	Postdoctoral	2016

Languages:

language	Speaking	Writing	Reading
Arabic	Very good	Very good	Very good
English	Very good	Very good	Very good

Scientific Publication:

No.	Manuscript
1	<p>Hassan, H. M., Betiha, M. A., Alhumaimess, M. S., Alraddadi, T. S., Mohamed, S. K., Younis, S. A., ... & Alsohaimi, I. H. (2022). Phosphotungstic acid and manganese containing periodic mesoporous organosilica with imidazolium ionic liquid framework: A robust and durable nanocomposite for desulfurization of aromatic sulfur in diesel fraction. <i>Separation and Purification Technology</i>, 298, 121624.</p>
2	<p>Hassan, H. M., Alsohaimi, I. H., Khan, M. R., Alfalah, A. Y. A., Alruwaili, M. A. H., Alam, P., ... & Ouladsmane, M. (2022). Quantitative assessment of phosphate food additive in frozen and chilled chicken using spectrophotometric approach combined with graphitic digestion. <i>Food Chemistry</i>, 389, 133050.</p>
3	<p>Alamri, M. S., Hassan, H. M., Alhumaimess, M. S., Aldawsari, A. M., Alshahrani, A. A., Alraddadi, T. S., & Alsohaimi, I. H. (2022). Kinetics and adsorption assessment of 1, 4-dioxane from aqueous solution by thiol and sulfonic acid functionalized titanosilicate. <i>Journal of Molecular Liquids</i>, 362, 119786.</p>
4	<p>Khan, A. U., Tahir, K., Hassan, H. M., Albalawi, K., Khan, Q. U., Khan, A., ... & Aldawsari, A. M. (2022). Hydrothermal assisted synthesis of novel NiSe₂/CuO nanocomposite: Extremely stable and exceptional energy storage performance for faradaic hybrid supercapacitors. <i>Journal of Electroanalytical Chemistry</i>, 920, 116624.</p>
5	<p>Hassan, H. M., Betiha, M. A., Negm, N. A., El-Hashemy, M. A., El-Sayed, M. Y., El-Aassar, M. R., & Alsohaimi, I. H. (2022). Valuation of rice straw residues: Production of silylated methylcellulose containing propylamine and propylethylenediamine for use as anticorrosion and antibacterial. <i>International Journal of Biological Macromolecules</i>.</p>
6	<p>ur Rehman, K., Khan, A. U., Tahir, K., Nazir, S., Albalawi, K., Hassan, H. M., ... & Aldawsari, A. M. (2022). Facile synthesis of Copper oxide nanoparticles (CuONPs) using green method to promote photocatalytic and biocidal applications. <i>Journal of Molecular Liquids</i>, 119453.</p>
7	<p>Hassan, H. M., Alhumaimess, M. S., Alsohaimi, I. H., Mohamed, S. K., Aldosari, O. F., Alraddadi, T. S., & Essawy, A. A. (2022). One-pot phyto-mediated combustion technicality for synthesizing Pd adorned Cu₂O@CuO heterojunction with great efficiency in CO oxidation and epoxidation applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i>, 130056.</p>

8	Khan, A. U., Tahir, K., Albalawi, K., Khalil, M. Y., Almarhoon, Z. M., Zaki, M. E., Hassan M.A.Hassan & Munshi, A. M. (2022). Synthesis of ZnO and ZnS nanoparticles and their structural, optical, and photocatalytic properties synthesized via the wet chemical method. <i>Materials Chemistry and Physics, 126667.</i>
9	Sadaqat, M., Manzoor, S., Aman, S., Gouadria, S., Usman, M., Joya, K. S. Hassan Mohamed Ahmed Hassan& Taha, T. A. (2022). Mn-Based Hierarchical Polyhedral 2D/3D Nanostructures MnX ₂ (X= S, Se, Te) Derived from Mn-Based Metal–Organic Frameworks as High-Performance Electrocatalysts for the Oxygen Evolution Reaction. <i>Energy & Fuels 36, 17, 10327-10338.</i>
10	Aldawsari, A. M., Hassan, H. M. , Alrashidi, A. N., Alsohaimi, I. H., Moustafa, S. M., Youssef, H. M., & Azzam, M. A. (2022). Preparation of PVDF-co-PAAm membrane with robust antifouling, and antibacterial performance by blending with magnetic graphene oxide. <i>Journal of Environmental Chemical Engineering, 10(3), 108093.</i>
11	Hassan, H. M. , El-Aassar, M. R., El-Hashemy, M. A., Betiha, M. A., Alzaid, M., Alqobisi, A. N., ... & Alsohaimi, I. H. (2022). Sulfanilic acid-functionalized magnetic GO as a robust adsorbent for the efficient adsorption of methylene blue from aqueous solution. <i>Journal of Molecular Liquids, 361, 119603.</i>
12	Alharbi, F. F., Nisa, M. U., Hassan, H. M. A. , Manzoor, S., Ahmad, Z., Abid, A. G., ... & Taha, T. A. M. (2022). Novel lanthanum sulfide–decorated zirconia nanohybrid for enhanced electrochemical oxygen evolution reaction. <i>Journal of Solid State Electrochemistry, 26(10), 2171-2182.</i>
13	Hassan, H. M. , Alhumaimess, M. S., Kamel, M. M., Alsohaimi, I. H., Aljaddua, H. I., Aldosari, O. F., ... & El-Aassar, M. R. (2022). Electrospinning NH ₂ -MIL-101/PAN nanofiber mats: A promising catalyst with Lewis acidic and basic bifunctional sites for organic transformation reactions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects, 642, 128659.</i>
14	Fakhry, H., Hassan, H. , El-Aassar, M. R., Alsohaimi, I. H., Hussein, M. F., ALQahtani, M. M., & El-Amier, Y. A. (2022). A Treatment of Wastewater Containing Safranin O Using Immobilized Myriophyllum spicatum L. onto Polyacrylonitrile/Polyvinylpyrrolidone Biosorbent. <i>Journal of Inorganic and Organometallic Polymers and Materials, 1-15.</i>
15	Alshahrani, A. A., ALQahtani, M., Almushaikeh, A. M., Hassan, H. M. , Alzaid, M., Alrashidi, A. N., & Alsohaimi, I. H. (2022). Synthesis, characterization, and heavy-ion rejection rate efficiency of PVA/MWCNTs and Triton X-100/MWCNTs Buckypaper membranes. <i>Journal of Materials Research and Technology, 18, 2310-2319.</i>

16	Aldawsari, A. M., Alsohaimi, I. H., Hassan, H. M. A. , Al-Abduly, A. J., Hassan, I., & Saleh, E. A. M. (2022). Multiuse silicon hybrid polyurea-based polymer for highly effective removal of heavy metal ions from aqueous solution. <i><u>International Journal of Environmental Science and Technology, 19(4), 2925-2938.</u></i>
17	Hassan, H. M. , Alamri, M. S., Alrashidi, A. N., Mohamed, S. H., & Alsohaimi, I. H. (2022). Validated spectrophotometric assessment of 1, 4-dioxane in drinking water by amionhydroxynaphthlene sulfonic acid (AHSA). <i><u>International Journal of Environmental Analytical Chemistry, 1-11.</u></i>
18	Alosaimi, E. H., Hassan, H. M. , Alsohaimi, I. H., Chen, Q., Melhi, S., Younes, A. A., & El-Shwiniy, W. H. (2022). Fabrication of sulfonated polyethersulfone ultrafiltration membranes with an excellent antifouling performance by impregnating with polysulfopropyl acrylate coated ZnO nanoparticles. <i><u>Environmental Technology & Innovation, 25, 102210.</u></i>
19	Aljaddua, H. I., Alhumaimess, M. S., & Hassan, H. M. (2022). CaO nanoparticles incorporated metal organic framework (NH ₂ -MIL-101) for Knoevenagel condensation reaction. <i><u>Arabian Journal of Chemistry, 15(2), 103588.</u></i>
20	Almaradhi, M. A., Hassan, H. M. , & Alhumaimess, M. S. (2022). Fe ₃ O ₄ -carbon spheres core-shell supported palladium nanoparticles: A robust and recyclable catalyst for suzuki coupling reaction. <i><u>Chinese Journal of Chemical Engineering.</u></i>
21	Alruwaili, S. F., Alsohaimi, I. H., El-Sayed, M. Y., Hassan, H. M. , Aldawsari, A. M., Alshahrani, A. A., & Alraddadi, T. S. (2021). Antifouling efficiency and high-flux ultrafiltration membrane comprising sulfonated poly (ether sulfone) and TNTs-g-PSPA nanofiller. <i><u>Journal of the Taiwan Institute of Chemical Engineers, 129, 350-360.</u></i>
22	Soltan, M. S., Ismail, N., Hassan, H. M. , Shawky, A., El-Sharkawy, E. A., Youssef, R. M., ... & Elshaarawy, R. F. (2021). Copper nanoparticle-decorated RGO electrodes as hole transport layer of perovskite solar cells enhancing efficiency and shelf stability. <i><u>Journal of Materials Research and Technology, 14, 631-638.</u></i>
23	Ali, H. M., Essawy, A. A., Elnasr, T. A. S., Aldawsari, A. M., Alsohaimi, I., Hassan, H. M. , & Abdel-Farid, I. B. (2021). Selective and efficient sequestration of Cr (VI) in ground water using trimethyloctadecylammonium bromide impregnated on Artemisia monosperma plant powder. <i><u>Journal of the Taiwan Institute of Chemical Engineers, 125, 122-131.</u></i>

24	Mohsen, Q., Abd-Elkader, O. H., Farouk, A. E., Hassan, H. , & Mostafa, N. Y. (2021). Influence of tungsten substitution on structure, optical, vibrational and magnetic properties of hydrothermally prepared NiFe ₂ O ₄ . <i><u>Applied Physics A, 127(4), 1-8.</u></i>
25	Aldawsari, A. M., Alsohaimi, I., Hassan, H. M. , Abdalla, Z. E., Hassan, I., & Berber, M. R. (2021). Tailoring an efficient nanocomposite of activated carbon-layered double hydroxide for elimination of water-soluble dyes. <i><u>Journal of Alloys and Compounds, 857, 157551.</u></i>
26	Kamel, M. M., Alsohaimi, I. H., Alhumaimess, M. S., Hassan, H. , Alshammari, M. S., & El-Sayed, M. Y. (2021). A glassy polyvinyl alcohol/silica gel hybrid composite for safranin removal: Adsorption, kinetic and thermodynamic studies. <i><u>Research on Chemical Intermediates, 47(3), 925-944.</u></i>
27	Alosaimi, E. H., Alsohaimi, I. H., Hassan, H. M. , Chen, Q., Melhi, S., & Younes, A. A. (2021). Towards superior permeability and antifouling performance of sulfonated polyethersulfone ultrafiltration membranes modified with sulfopropyl methacrylate functionalized SBA-15. <i><u>Chinese Journal of Chemical Engineering.</u></i>
28	Mohamed, S. K., Abd Elsalam, S., Shahat, A., Hassan, H. M. , & Kamel, R. M. (2021). Efficient sucrose-derived mesoporous carbon sphere electrodes with enhanced hydrophilicity for water capacitive deionization at low cell voltages. <i><u>New Journal of Chemistry, 45(4), 1904-1914.</u></i>
29	Alhumaimess, M. S., Alsohaimi, I. H., Alshammari, H. M., Aldosari, O. F., & Hassan, H. (2020). Synthesis of gold and palladium nanoparticles supported on CuO/rGO using imidazolium ionic liquid for CO oxidation. <i><u>Research on Chemical Intermediates, 46(12), 5499-5516.</u></i>
30	Alshammari, H. M., Abbas, N., Humaidi, J. R., Alzahrani, S. A., Alshammari, A. S., Alhumaimess, M. S., ... & Hassan, H. M. (2020). Correlation between the Properties of Sol-Gel Synthesized Graphene/Titania Hybrid Nanostructures and Their Catalytic Activity in Selective Aerobic Oxidation of Alcohols. <i><u>ECS Journal of Solid State Science and Technology, 9(12), 123002.</u></i>
31	Kamel, M. M., Alhumaimess, M. S., Alotaibi, M. H., Alsohaimi, I. H., Hassan, H. , Alshammari, H. M., & Aldosari, O. F. (2020). Decomposition and removal of hydrazine by Mn/MgAl-layered double hydroxides. <i><u>Desalination and Water Treatment, 205, 242-251.</u></i>

32	Aldawsari, A. M., Alsohaimi, I. H., Hassan, H. M. , Berber, M. R., Abdalla, Z. E., Hassan, I., ... & Hameed, B. H. (2020). Activated carbon/MOFs composite: AC/NH ₂ -MIL-101 (Cr), synthesis and application in high performance adsorption of p-nitrophenol. <i>Journal of Saudi Chemical Society</i> , 24(9) , 693-703.
33	Alshammari, H. M., Alshammari, A. S., Humaidi, J. R., Alzahrani, S. A., Alhumaimess, M. S., Aldosari, O. F., & Hassan, H. M. (2020). Au-Pd bimetallic nanocatalysts incorporated into carbon nanotubes (CNTs) for selective oxidation of alkenes and alcohol. <i>Processes</i> , 8(11) , 1380.
34	Hassan, H. M. , Alhumaimess, M. S., Alsohaimi, I. H., Essawy, A. A., Hussein, M. F., Alshammari, H. M., & Aldosari, O. F. (2020). Biogenic-mediated synthesis of the Cs ₂ O–MgO/MPC nanocomposite for biodiesel production from olive oil. <i>ACS omega</i> , 5(43) , 27811-27822.
35	Essawy, A. A., Alsohaimi, I. H., Alhumaimess, M. S., Hassan, H. M. , & Kamel, M. M. (2020). Green synthesis of spongy Nano-ZnO productive of hydroxyl radicals for unconventional solar-driven photocatalytic remediation of antibiotic enriched wastewater. <i>Journal of Environmental Management</i> , 271 , 110961.
36	Hassan, H. , Tolba, A., & El-Sharkawy, E. S. (2020). GO supported Schiff base/palladium complex: a superior catalyst for the hydrogenation of nitroarenes. <i>Frontiers in Scientific Research and Technology</i> , 1(1) , 57-67.
37	Hassan, H. , Saad, M., & El-Sharkawy, E. (2020). Graphene doped with silver nanoparticle as p-type dopants in efficient perovskite solar cells. <i>Frontiers in Scientific Research and Technology</i> , 1(1) , 52-56.
38	Abbasa, H. M., Kamelb, R. M., Alic, M. E., Attab, A. H., Hassan, H. M. , & Shahatb, A. (2020). Fabrication of polysulfone/carbon nanospheres ultrafiltration membranes for removing some dyes from aqueous solutions. <i>DESALINATION AND WATER TREATMENT</i> , 193 , 57-63.
39	A novel and potential chemical sensor for effective monitoring of Fe(II) ion in corrosion systems of water samples, Hassan M.A. Hassan , Ahmed Shahat, Hassan M.E. Azzazy, Reda M. Abd El-aal, Wessam N. El-Sayed, Aiman Abd Elwahed, Md. Rabiul Awwal, <i>Microchemical Journal</i> 154 (2020) 104578.
40	Eco-friendly facile synthesis of glucose-derived microporous carbon spheres electrodes with enhanced performance for water capacitive deionization Shaimaa K. Mohamed, Mahmoud Abuelhamd, Nageh K. Allam, Ahmed Shahat, Mohamed Ramadan, Hassan M.A. Hassan , <i>Desalination</i> 477 (2020) 114278

41	Green fabrication of silver imprinted titania / silica nanospheres as robust visible light-induced photocatalytic wastewater purification, Ziyad A. Alrowaili, Ibrahim Hotan Alsohaimi, Mohamed A. Betiha, Amr A. Essawy, Ahmed A. Mousa, Saif F. Alruwaili, Hassan M.A. Hassan , Materials Chemistry and Physics 241 (2020) 122403
42	A ligand-based conjugate solid sensor for colorimetric ultra-trace gold(III) detection in urban mining waste Shaimaa K. Mohamed, Hassan M.A. Hassana , Ahmed Shahata, Md. Rabiul Awual, Rasha M. Kamela, Colloids and Surfaces A 581 (2019) 123842
43	Clean transesterification process for biodiesel production using heterogeneous polymer-heteropoly acid nanocatalyst, Nabel A. Negm, Mohamed A. Betiha, Mosaed S. Alhumaimess, Hassan M.A. Hassan , Abdelrahman M. Rabie, Journal of Cleaner Production 238 (2019) 117854
44	Fabrication of graphene oxide incorporated polyethersulfone hybrid ultrafiltration membranes for humic acid removal, Mohammad Saad Algamdi, Ibrahim Hotan Alsohaimi, Jenny Lawler, Hazim M. Ali, Abdullah Mohammed Aldawsari, Hassan M.A. Hassan , Separation and Purification Technology 223 (2019) 17–23
45	Bimetallic Au: Pd nanoparticle supported on MgO for the oxidation of benzyl alcohol, Hamed M. Alshammari, Jamal R. Humaidi, Mosaed S. Alhumaimess, Obaid F. Aldosari, Mohammad H. Alotaibi, Hassan M. A. Hassan , Ibrahim Wawata, Reaction Kinetics, Mechanisms and Catalysis (2019) 128:97–108
46	Ionic liquid green synthesis of CeO ₂ nanorods and nano-cubes: Investigation of the shape dependent on catalytic performance, Mosaed Alhumaimess, Obaid Aldosari, Hamed Alshammari, Mahmoud Kamel, Mohamed A Betiha, Hassan MA Hassan, J. molecular liquids 279 (2019) 649-656
47	A ligand-anchored optical composite material for efficient vanadium(II) adsorption and detection in wastewater Ahmed Shahat, Hassan M. A. Hassan , M. F. El-Shahat, Osama El Shahawy and Md. Rabiul Awual, New J. Chem., 2019,43, 10324
48	Tuning the redox potential of vitamin K3 derivatives by oxidative functionalization using a Ag(I)/GO catalyst S. I. El-Hout, H. Suzuki, S. M. El-Sheikh, H. M. A. Hassan , F. A. Harraz, I. A. Ibrahim, E. A. El-Sharkawy, S. Tsujimura, M. Holzinger and Y. Nishina, ChemComm, 53 (2018) 8890-8893

49	Facile fabrication of ordered mesoporous Bi/Ti-MCM-41 nanocomposites for visible light-driven photocatalytic degradation of methylene blue and CO, Shaimaa K. Mohamed, Amr Awad Ibrahim, A.A. Mousa, Mohamed A. Betihad, E.A. El-Sharkawy, <u>Hassan M.A. Hassan</u> , Separation and Purification Technology 195 (2018) 174–183
50	A new approach to polymer-supported phosphotungstic acid: Application for glycerol acetylation using robust sustainable acid heterogeneous–homogeneous catalyst, Mohamed A. Betiha, <u>Hassan M.A. Hassan</u> , E.A. El-Sharkawy, Ahmad M. Al-Sabagh, Mohamed F. Menoufy, H-E.M. Abdelmoniem, Applied Catalysis B: Environment 182 (2016) 15–25 .
51	Visual nickel(II) ions treatment in petroleum samples using a mesoporous composite adsorbent, Ahmed Shahat, <u>Hassan M.A. Hassan</u> , M.F.El-shahat, Osama El Shahawy, Md. Rabiul Awwal, Chemical Engineering Journal , <u>334 (2018) 957-967</u>
52	Novel hierarchical composite adsorbent for selective lead(II) ions capturing from wastewater samples, <u>Ahmed Shahat</u> , <u>Hassan M.A. Hassan</u> , Hassan M.E. Azzazy, E.A. El-Sharkawy, <u>Hisham M. Abdou</u> , <u>Md. Rabiul Awwal</u> , Chemical Engineering Journal , <u>332 (2018) 377-386</u> .
53	Novel nano-conjugate materials for effective arsenic(V) and phosphate capturing in aqueous media, Ahmed Shahat, <u>Hassan M.A. Hassan</u> , Hassan M.E. Azzazy, Mohamed Hosni, Md. Rabiul Awwal, Chemical Engineering Journal , <u>331 (2018) 54-63</u>
54	Ultrahigh Performance of Novel Energy-efficient Capacitive Deionization Electrodes based on 3D Nanotubular Composites, Mohamed Ramadan, <u>Hassan M.A. Hassan</u> , Ahmed Shahat, Reda F. M. Elshaarawy and Nageh K. Allama, New Journal of Chemistry , http://dx.doi.org/10.1039/C7NJ03838K
55	Microwave-assisted hydrothermal fabrication of magnetic amino-grafted graphene oxide nanocomposite as a heterogeneous Knoevenagel catalyst, <u>Hassan M.A. Hassan</u> , Reda F.M. Elshaarawy, Sandeep Kumar Dey, Ilka Simon, Christoph Janiak, Catalysis Letter , 147(8) (2017) 1998-2005
56	Stable and Recyclable MIL-101(Cr)–Ionic Liquid Based Hybrid Nanomaterials as Heterogeneous Catalyst, <u>Hassan M.A. Hassan</u> , Mohamed A. Betiha, Shaimaa K. Mohamed, E. A. El-Sharkawy, Emad A. Ahmed, J. molecular liquids, 236 (2018) 385-394
57	Salen- Zr(IV) complex grafted into amine-tagged MIL-101(Cr) as a robust multifunctional catalyst for biodiesel production and organic transformation reactions, <u>Hassan M.A. Hassan</u> , Mohamed A. Betiha, Shaimaa K. Mohamed, E. A. El-Sharkawy, Emad A. Ahmed, Applied surface science , 412(2017)394-404 .

58	Novel high throughput mixed matrix membranes embracing poly ionic liquid-grafted biopolymer: Fabrication, characterization, permeation and antifouling performance, Reda F.M.Elshaarawy, Janina Dechnik, <u>Hassan M.A.Hassan</u> , Dennis Dietrich, Mohamed A.Betiha, Stephan Schmidt, C.Janiak, J. molecular liquids , 266 (2018) 484-494 .
59	Removal of copper(II) ions from Aqueous Media by Chemically Modified MCM-41 with N -(3-(trimethoxysilyl)propyl)ethylenediamine and Its 4-hydroxysalicylidene Schiff-base, Eman M. Saad, <u>Hassan M.A. Hassan</u> , Mohamed S. Soltan, Sahar I. Mostafad, Environmental Progress & Sustainable Energy DOI: 10.1002/ep.12771 .
60	Promotion effect of palladium on Co ₃ O ₄ incorporated within mesoporous MCM-41 silica for CO Oxidation, <u>Hassan M.A. Hassan</u> , Mohamed A. Betiha, Reda F.M. Elshaarawy, M. Samy El-Shall, Applied surface science, 402(2017)99-107.
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Projects

- (Jouf University) opportunities and challenges for biofuel production from vegetable oils using novel composites based (2019)
Fund: 45400 (Funded by Jouf University).
Period: 1 year
Incorporation: PI
- (Jouf University) Green Synthesis of Metallic and Bimetallic Nanoparticles on Graphene for CO oxidation (2019)
Fund: 27400 (Funded by Jouf University).
Period: 1 year
Incorporation: Member in Investigation Teamwork
- (STDF) High-Throughput Sensor Microtiter Plate for Determination of Dissolved Low Molecular Weight Hydrocarbons in Suez Bay using Luminescent Lanthanide Complexes (2018)
Fund: 1009200 (Funded by STDF).
Period: 2 year
Incorporation: Member in Investigation Teamwork
- (US-Egypt) Synthesis and Characterization of Novel Nanoparticle Catalysts to Minimize Pollution (2007)
Fund: 200,000 Egyptian Pounds (Funded by US-Egypt programme).
Period: 1 year
Incorporation: Member in Investigation Teamwork
- (US-Egypt(E-JUST)) Development of Nanoparticle Catalysts Supported on Graphene for High Activity and Selectivity Fischer-Tropsch Synthesis of Liquid Fuels (2013).
Fund: 1000000 Egyptian Pounds (Funded by STDF).
Period: 2 year
Incorporation: Member in Investigation Teamwork
- Nanostructured Hybrid Electrodes for Energy Efficient Water Desalination
Financial Support: Ministry of Scientific Research, Science & Technology Development Fund (STDF)
Fund: 1000000 Egyptian Pounds (Funded by STDF).
Period: 2 year
Incorporation: Principal investigator
- Synthesis of Nanoparticle Catalysts for High Activity and Selectivity Fischer-Tropsch Synthesis of Liquid Fuels
Fund: 200,000 Egyptian Pounds (Funded by STDF).
Period: 14 months
Incorporation: Principal investigator

- Fouling-combat (oxide/ CS+/PSf) nanocomposite membranes for industrial wastewater treatment: Preparation, characterization, antifouling and desalination performance
Fund: 160000 Egyptian Pounds (Funded by STDF).
Period: 2 year
Incorporation: Member in Investigation Teamwork
- Full integration of Rice Husk and Straw for producing Nanosilica and Nano-cellulose for deepen local industries"
Fund: 9000000 Egyptian Pounds (Funded by ASRT/2016).
Period: 2 year
Incorporation: Member in Investigation Teamwork (PI of Suez university team)
- High-Throughput Sensor Microtiter Plate for Determination of Dissolved Low Molecular Weight Hydrocarbons in Suez Bay using Luminescent Lanthanide Complexes
- **Fund:** 10000000 Egyptian Pounds (Funded STDF/2019).
- **Period:** 2 year **Incorporation:** COPI

Patents

- "Methods for the Production of Graphene and Nanoparticle Catalysts Supported on Graphene by Microwave Irradiation of Solutions and Solids", M. S. El-Shall, V. Abdelsayed, H. M. A. Hassan, A. El Rahman S. Khder, K. M. AbouZeid, Q. Dai, P. Afshani, F. Gupton, A. R. Siamaki, Z. A. M. Alothman, and H. Z. ALkhathlan, US **Provisional Patent # 61/317,860, March 26, 2010.**
- "CHEMOSENSORS, COMPOSITIONS AND USES THEREOF" is US/61,763,068 filed on **Feb 11, 2013**

References:

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3	Nageh k Allam	Professor	<i>American University in Cairo</i>	nageh.allam@aucegypt.edu	