Dr. Mohamed Anwar Ismail

Assistant Professor

Personal Data:

Nationality | Egyptian
Date of Hire | 2021
Date Rank Obtained | 2016
Department | Mechanical Engineering
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Mechanical Engineering	Combustion	King Abdullah University of Science and Technology (KAUST)	Thuwal, Saudi Arabia	2016
Masters (M.Sc.)	Mechanical Power Engineering	Combustion	Zagazig University	Zagazig, Egypt	2010
Bachelor (B.Sc.)	Mechanical Power Engineering	Mechanical Power Engineering	Zagazig University	Zagazig, Egypt	1999

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	Combustion synthesis of nanomaterials using various flame configurations
Master	Prediction of Flow and Combustion Characteristics for a Gas Turbine Combustor Burning Low Heating Value Fuel

Experiences:

Title of Job	Address of Work	Country	Date	
Assistant Professor	Zagazig University, Zagazig	Egypt	From	2016
			To	2021
Adjunct Professor	Arab Academy for Science, Technology & Maritime Transport, Smart Village	Egypt	From	2019
			To	2021
Adjunct Professor	Sinai University-Kantara, Kantara	Egypt	From	2019
			To	2021

Research Interests:

1. Combustion and/or Pyrolysis of agriculture wastes.
2. Effect of different Nanoparticles on Diesel Engine Performance and Emissions.
3. Flame synthesis, characterization, and applications of nanoparticles.
4. Fire dynamics.
5. Renewable energy and e-mobility.

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Mohamed A. Ismail, Mohamed N. Hedhili, Dalaver H. Anjum, Venkatesh Singaravelu, and Suk Ho Chung	Synthesis and Characterization of Iron-doped TiO_2 Nanoparticles using Ferrocene from Flame Spray Pyrolysis	Catalysts (2021)	Click Here
2	M. S. Gad and Mohamed A. Ismail	Effect of waste cooking oil biodiesel blending with gasoline and kerosene on diesel engine performance, emissions and combustion characteristics	Process Safety and Environmental Protection, (2021)	Click Here
3	Ahmed Elwardany, Mohamed Marei, Yehia Eldrainy, Rehab Ali, Mohamed Ismail, and Mohamed El-kassaby	Improving performance and emissions characteristics of compression ignition engine: Effect of ferrocene nanoparticles to diesel-biodiesel blend	Fuel (2020)	Click Here
4	Ramy E. Shaltout and Mohamed A. Ismail	Simulation of Fire Dynamics and Firefighting System for a Full-Scale Passenger Rolling Stock	Marinov M., Piip J. (eds) Sustainable Rail Transport. Lecture Notes in Mobility. Springer, Cham. (2020)	Click Here
5	Meshack Hawi, Ahmed Elwardany, Mohamed Ismail and Mahmoud Ahmed	Experimental Investigation on Performance of a Compression Ignition Engine Fueled with Waste Cooking Oil Biodiesel–Diesel Blend Enhanced with Iron-Doped Cerium Oxide Nanoparticles	Energies (2019)	Click Here
6	Saad A. EL-Sayed, Mohamed A. Ismail, Mohamed E. Mostafa	Thermal and combustion characteristics of biomass materials using TGA/DTG at different high heating rates	Environmental Progress & Sustainable Energy (2019)	Click Here
7	D. Anjum, N. Memon, Mohamed A. Ismail, and Suk Ho Chung	Transmission electron microscopy of carbon-coated and iron-doped Titania nanoparticles	Nanotechnology (2016)	Click Here
8	Mohamed A. Ismail, N. Memon, M. Hedhili, D. Anjum, and Suk Ho Chung	Synthesis of TiO_2 nanoparticles containing Fe, Si, and V using multiple diffusion flames and catalytic oxidation capability of carbon-coated nanoparticles	Journal of Nanoparticle Research (2016)	Click Here

9	Mohamed A. Ismail, M. Mansour, N. Memon, D. Anjum, and Suk Ho Chung	Synthesis of Titanium Dioxide Nanoparticles Using a Double-Slit Curved Wall-Jet Burner	Combustion Science and Technology (2016)	Click Here
10	Mohamed A. Ismail, N. Memon, M. Mansour, D. Anjum, and Suk Ho Chung	Curved Wall-Jet Burner for Synthesizing Titania and Silica Nanoparticles	Proceedings of the Combustion Institute (2015)	Click Here
11	A. Raj, R. Tayouo, D. Cha, L. Li, Mohamed A. Ismail and Suk Ho Chung	Thermal Fragmentation and Deactivation of Combustion-Generated Soot Particles	Combustion and Flame (2014)	Click Here
12	M. Shaalan, H. El Salmawy, and M. Anwar Ismail	Prediction of Flow and Combustion Characteristics for a Gas Turbine Combustor Burning Low Heating Value Fuel	Proc. ASME. Vol.2 (2010), ASME paper GT2010-22156	Click Here

Conferences and Presentations

1	Mohamed A. Kamal and Mohamed A. Ismail	Numerical Simulation of Inverse Diffusion Burner Using Methane	ICFD14, Cairo, Egypt, April 02-03, 2021
2	A. Elwardany, M. Nagy, M. Ismail, Y. Eldariny and M. El-kassaby	Effect of Ferrocene Nanoparticles as additives on Diesel Engine Performance and Emissions	10th Mediterranean Combustion Symposium, Naples, Italy, September 17-21, 2017
3	Mohamed A. Ismail, Morkous Mansour, Nasir K. Memon, Dalaver H. Anjum, and Suk Ho Chung	Synthesis of Titanium Dioxide Nanoparticles Using A Double-Slit Curved-Wall Jet Burner	9th Mediterranean Combustion Symposium, Rhodes, Greece, June 7-11, 2015
4	Nasir K. Memon, Mohamed A. Ismail, Dalaver H. Anjum, and Suk Ho Chung	Catalytic Oxidation of Carbon using TiO2 based Nanoparticles prepared using Flame Synthesis	TechConnect World Innovation Conference & Expo, Washington DC, June 14-17, 2015
5	Mohamed A. Ismail, Nasir K. Memon, Mohamed N. Hedheli, Dalaver H. Anjum, Suk Ho Chung	Flame Synthesis of doped/coated TiO2 nanoparticles using multiple diffusion flames	SAS-CI 5th Annual Meeting, KACST, Ryiadh, Saudi Arabia, May 3-4, 2015
6	Mohamed A. Ismail, Morkous Mansour, Nasir K. Memon, and Suk Ho Chung	Synthesis of titanium dioxide nanoparticles using a curved-wall burner with central port	7th European Combustion Meeting, Budapest, Hungary, March 30- April 2, 2015
7	Mohamed A. Ismail, Morkous Mansour, Nasir K. Memon, and Suk Ho Chung	Effects of different configurations of curved-wall jet (CWJ) burner on the flame synthesis of titanium dioxide nanoparticles	2nd Edition Nanotech Dubai 2015 International Conference & Exhibition (Nanotech Dubai 2015), Dubai, United Arab Emirates, March 16- 18, 2015
8	Mohamed A. Ismail, Nasir K. Memon, Morkous S. Mansour,	Double-slit curved wall-jet burner for synthesizing titanium dioxide nanoparticles	MRS Fall Meeting & Exhibit, Boston, Massachusetts, USA, Nov. 30- Dec. 5, 2014

	Dalaver H. Anjum, and Suk Ho Chung		
9	Mohamed A. Ismail, N.K. Memon, D.H. Anjum, and S.H. Chung	Synthesis of coated titanium dioxide nanoparticles using a multi-element diffusion flame burner	The 3rd biennial conference of the Combined Australian Materials Societies (CAMS 2014), University of Sydney, Sydney, Australia, Nov. 26- 28, 2014
10	Mohamed A. Ismail, Nasir K. Memon, Morkous S. Mansour, Dalaver H. Anjum, and Suk Ho Chung	Curved wall-jet burner for synthesizing titanium dioxide and silicon dioxide	35th International Symposium on Combustion, San Francisco, USA, August 3-8, 2014
11	Mohamed A. Ismail, Curved wall-jet burner for synthesizing nanoparticles	Curved wall-jet burner for synthesizing nanoparticles	SAS-CI 4th Annual Meeting, KAUST, Thuwal, Saudi Arabia, 29th April 2014
12	Mohamed A. Ismail, K. Al-Qurashi, L. Li, and S.H. Chung	Effect of MTBE-Blend on Diesel Soot Reactivity and Nanostructure	9th Asia-Pacific Conference on Combustion, Gyeongju Hilton, Gyeongju, Korea, 19-22 May 2013
13	Nasir K. Memon, Mohamed A. Ismail, Dalaver H. Anjum, Suk Ho Chung	One-Step Combustion Synthesis of Carbon-Coated Nanoparticles using Multiple-Diffusion Flames	8th U. S. National Combustion Meeting, the University of Utah, USA, May 19-22, 2013
14	Mohamed A. Ismail and Suk Ho Chung	Effect of MTBE-Blend on Diesel Soot Characteristics	SAS-CI 3rd Annual Meeting, Dhahran, Saudi Aramco, Saudi Arabia, 29th April 2013

Language Proficiency:

1. Arabic
2. English