Ghulam Hussain

Assistant Professor

School of Natural Sciences

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About

Dr. Ghulam Hussain is working as Assistant Professor in the School of Natural Sciences. Dr. Ghulam Hussain has a PhD in Physical Chemistry. Dr. Ghulam Hussain has published 16 research articles & conference papers having a citation count of 348, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Physical Chemistry 2013 - 2017
Curtin University of Technology , Australia

MS in Physical Chemistry 2010 - 2012
University of Bristol , United Kingdom

MSc in Physical Chemistry 2007 - 2009
University of the Punjab , Pakistan

BSc in Science 2005 - 2007
Islamia University of Bahawalpur , Pakistan

Experience

Assistant Professor 2024- Present
School of Natural Sciences

Postdoctoral Researcher 2020 - 2021
KTH Royal Institute of Technology Stockholm Sweden , Brinellvägen 8, 114 28 Stockholm, Sweden

Assistant Professor 2019 - 2020
University of Education Lahore , College Road, Township Block C Phase 1 Johar Town, Lahore, Punjab 54770

Rutherford Research Fellow 2018 - 2019
University of Aberdeen Scotland , School of Natural and Computing Sciences Meston Building Aberdeen AB24 3UE Scotland UK

Visiting Research Associate 2017 - 2018
Curtin University Australia , Curtin University, Perth Western Australia

Sessional Staff Member 2015 - 2017
Curtin University Australia , Curtin University, Perth Western Australia

Nutritional Officer (BPS-17) 2010 - 2010
Health Department, Govt. of Punjab , Bahawalnagar, Punjab

Research Assistant 2009 - 2010
Institute of Chemistry University of the Punjab , University of the Punjab Lahore

Research Articles

Facile Synthesis of Selenium Nanoparticles for Enhanced OxygenEvolution Reaction: Insights into Electrochemical and Photoelectrochemical Catalysis 2025

Sumaya Ishtiaq Ghulam Hussain Hafiza komal Zafar Rabia Liaquat Abdullah A. Al-Kahtani Ayman Nafady Manzar Sohail Shahid Rasul

ACS Omega, Volume 10, Issue 1, Pages 520-528

Impact Factor: 3.700 | **Quartile:** 2 | **Citations:** 2
DOI: https://doi.org/10.1021/acsomega.4c07016

Modelling electrochemical modulation of ion release in thin-layer samples 2021

Andres F. Molina-Osorio Alexander Wiorek Ghulam Hussain Maria Cuartero Gaston A. Crespo

Journal of Electroanalytical Chemistry, Volume 903, Article Number 115851

Impact Factor: 4.598 | **Quartile:** 1 | **Citations:** 6
DOI: https://doi.org/10.1016/j.jelechem.2021.115851

Reagentless Acid-Base Titration for Alkalinity Detection in Seawater 2021
Alexander Wiorek Ghulam Hussain Andres F. Molina-Osorio Maria Cuartero Gaston A. Crespo
Analytical Chemistry , Volume:93, Issue:42, Page:14130-14137
Impact Factor: 8.008 | **Quartile:** 1 | **Citations:** 14
DOI: https://doi.org/10.1021/acs.analchem.1c02545

Effect of microelectrode array spacing on the growth of platinum electrodeposits and its implications for oxygen sensing in ionic liquids 2021
Junqiao Lee Jesse W. Mullen Ghulam Hussain Debbie S. Silvester
Electrochimica Acta , Volume 384, Article Number 138412
Impact Factor: 7.336 | **Quartile:** 1 | **Citations:** 6
DOI: https://doi.org/10.1016/j.electacta.2021.138412

Electrodeposited Metal Organic Framework toward Excellent Hydrogen Sensing in an Ionic Liquid 2020
Muhammad Rizwan Azhar Ghulam Hussain Moses O. Tade Debbie S. Silvester Shaobin Wang
ACS Applied Nano Materials , Volume:3, Issue:5, Page:4376-4385
Impact Factor: 5.097 | **Quartile:** 2 | **Citations:** 32
DOI: https://doi.org/10.1021/acsanm.0c00503

Thin films of poly(vinylidene fluoride-: Co -hexafluoropropylene)-ionic liquid mixtures as amperometric gas sensing materials for oxygen and ammonia 2020
Junqiao Lee Ghulam Hussain Nieves López-Salas Douglas R. MacFarlane Debbie S. Silvester
Analyst , Volume:145, Issue:5, Page:1915-1924
Impact Factor: 4.616 | **Quartile:** 1 | **Citations:** 26
DOI: https://doi.org/10.1039/C9AN02153A

How cations determine the interfacial potential profile: Relevance for the CO2 reduction reaction 2019
Ghulam Hussain Laura Pérez-Martínez Jia-Bo Le Marco Papasizza Gema Cabello Jun Cheng Angel Cuesta
Electrochimica Acta , Volume 327, Article Number 135055
Impact Factor: 6.215 | **Quartile:** 1 | **Citations:** 75
DOI: https://doi.org/10.1016/j.electacta.2019.135055

Fast responding hydrogen gas sensors using platinum nanoparticle modified microchannels and ionic liquids 2019
Ghulam Hussain Mengchen Ge Chuan Zhao Debbie S. Silvester
Analytica Chimica Acta , Volume 1072, Pages 35-45
Impact Factor: 5.977 | **Quartile:** 1 | **Citations:** 36
DOI: https://doi.org/10.1016/j.aca.2019.04.042

Preparation of platinum-based 'cauliflower microarrays' for enhanced ammonia gas sensing 2019
Ghulam Hussain Leigh Aldous Debbie S. Silvester
Analytica Chimica Acta , Volume 1048, Pages 12-21
Impact Factor: 5.977 | **Quartile:** 1 | **Citations:** 17
DOI: https://doi.org/10.1016/j.aca.2018.09.055

Ionic Liquid-based Microchannels for Highly Sensitive and Fast Amperometric Detection of Toxic Gases 2019
Mengchen Ge Ghulam Hussain D. Brynn Hibbert Debbie S. Silvester Chuan Zhao
Electroanalysis , Volume 31, Issue 1, Pages 66-74
Impact Factor: 2.544 | **Quartile:** 2 | **Citations:** 14
DOI: https://doi.org/10.1002/elan.201800409

Modification of microelectrode arrays with high surface area dendritic platinum 3D structures: Enhanced sensitivity for oxygen detection in ionic liquids 2018
Ghulam Hussain Anthony P. O'Mullane Debbie S. Silvester
Nanomaterials , Volume 8, Issue 9, Article Number 735
Impact Factor: 4.034 | **Quartile:** 1 | **Citations:** 11
DOI: https://doi.org/10.3390/nano8090735

Comparison of Voltammetric Techniques for Ammonia Sensing in Ionic Liquids 2018
Ghulam Hussain Debbie S. Silvester
Electroanalysis , Volume 30, Issue 1, Pages 75-83

Impact Factor: 2.691 | **Quartile:** 2 | **Citations:** 45
DOI: https://doi.org/10.1002/elan.201700555

Detection of sub-ppm Concentrations of Ammonia in an Ionic Liquid: Enhanced Current Density Using "Filled" Recessed Microarrays 2016

Ghulam Hussain Debbie S. Silvester

Analytical Chemistry , Volume 88, Issue 24, Pages 12453-12460

Impact Factor: 6.320 | **Quartile:** 1 | **Citations:** 32
DOI: https://doi.org/10.1021/acs.analchem.6b03824

Charge Generation in Low-Polarity Solvents: Poly(ionic liquid)-Functionalized Particles 2013

Ghulam Hussain Amy Robinson Paul Bartlett

Langmuir , Volume 29, Issue 13, Pages 4204-4213

Impact Factor: 4.384 | **Quartile:** 1 | **Citations:** 25
DOI: https://doi.org/10.1021/la3049086

Adsorption of Gold (III) from Aqueous Solutions on Bagasse Ash 2011

Muhammad Ali Khan Ghulam Hussain

Journal of the Chemical Society of Pakistan, Volume 33, Issue 03, Pages 317-323

Impact Factor: 1.377 | **Quartile:** 2
DOI: https://jcsp.org.pk/issueDetail.aspx?aid=4962ccce-b226-46a0-8ad2-f04ffcb11dd6