

Curriculum Vitae

Dr. Rafia Usman Khan

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Currently working as Assistant Professor of Chemistry in NED University of Engineering and Technology, Karachi. Pakistan.

Job duties include: Teaching undergraduate, graduate and Ph.D. courses including research work.

Education

- **Ph.D. (Nano Material Chemistry), 2015, Japan**
- **Master of Science in Chemistry, Thesis Option, 2008, USA.**

Selected Publications

- Facile synthesis of silver nanoparticles using a novel benzene thiol derivative aromatic thiol and cationic surfactant
Usman,Rafia; Mihata,Aki; Yokogawa, Yukiko; KURAWAKI,JUNICHI.
e-journal of Surface science and Nanotechnology
<http://doi.org/10.1380/ejsnt.2015.440>
- Rapid Synthesis and Characterization of and Characterization of Polyvinylpyrrolidone-Protected Silver Nanoparticles by Heating Method
Usman,Rafia; Mihata,Aki; KURAWAKI,JUNICHI.
e-journal of Surface science and Nanotechnology
<http://doi.org/10.1380/ejsnt.2015.427>
- Selective Synthesis of Gold Nanoparticles in Water/Alcohol Binary Solution Systems by Ultrasonic Irradiation
Aki Mihata; Rafia Usman; Junichi Kurawaki.
e-journal of Surface science and Nanotechnology
<http://doi.org/10.1380/ejsnt.2015.427>
- Effect of Unani Herbal Coded Test Drug “Lipitame” for the Management of Diabetic Dyslipidemia .
Sheraz SIDDIQUI 1, Jawaid AKRAM 2 , Muhammad HAJI 3, Rafia USMAN Khan 4 & Safila NAVEED 5 *
Latin American Journal of Pharmacy (formerly Acta Farmacéutica Bonaerense) Lat. Am. J. Pharm. 38 (12): 2391-2400 (2019).

- Simultaneous Determination of Moxifloxacin and Glibenclamide in API and Pharmaceutical Dosage Form by RP-HPLC”
Rafia Usman, Sultan Ayaz, Sania Basheer, Safila Naveed, Fatima Qamar, Halima Sadia, Aisha Sana, Hina Rehman, Ghulam Sarwar, Zubair Uddin Faridi. Pakistan Journal of Pharmaceutical Sciences. J. Chil. Chem. Soc., 64, N°4 (2019).
- Formulation development of sugar free antacid chewable tablets for diabetes induced acidity in patients.
Mehwish Khan¹, Hina Rehman², Rafia Usman³, Sultan Ayaz⁴, Fatima Qamar⁵, Aymen Owais⁶, Aisha Sana⁴ and Safila Naveed⁴
Pak. J. Pharm. Sci., Vol.32, No.6, November 2019, pp.2811-2816.
- Quality and Potency Analysis of IVY Leaf Extract
Rafia Usman¹, Sultan Ayaz², Hira Munir³, Amaris Arif³, Sadia Shakeel⁴, Halima Sadia⁵, Safila Naveed^{5*}, Aqib Zahoor³, Kashifa Khanum³, Ghulam Sarwar⁵, Zubair Uddin Farid
RADS Journal of Pharmacy and Pharmaceutical Sciences.
- Method Development and Validation for Simultaneous Estimation of Gemifloxacin Mesylate and Glibenclamide by HPLC
Fatima QAMAR 1, Safila NAVEED 1, Rafia USMAN KHAN 2, Sultan AYZAZ 3, Halima SADIA 1, Aisha SANA 1, Hina REHMAN 4 & Aymen OWAIS GHOU
Latin American Journal of Pharmacy - 39 (6): (2020)

Familiar Analytical Techniques

- Transmission Electron Microscopy (TEM)
- Scanning Electron Microscopy (SEM)
- Fourier transform infrared spectroscopy (FTIR)
- Raman Spectroscopy
- Atomic Absorption Spectrometry (AAS)
- Atomic Emission Spectrometry (AES)
- Graphite Furnace Atomic Absorption Spectrometry (GFAAS)
- Luminescence Spectroscopy
- UV- Vis Spectroscopy
- X-ray Fluorescence (XRF)
- Inductively Coupled Plasma (ICP)
- High Performance Liquid Chromatography (HPLC)
- Voltammetry
- Potentiometry

