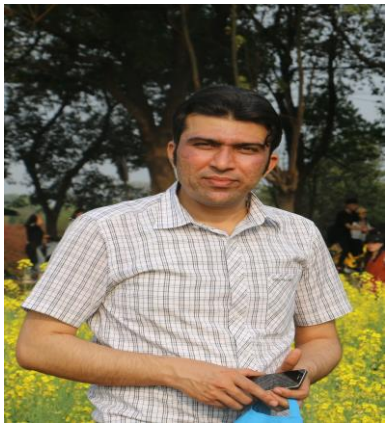

DR. FIDA HUSSAIN

PROFILE SUMMERY

An academic, researcher and a proactive environmental specialist, having 11 years of national and international experience.

Worked and achieved the assigned goals in Pakistan Council of Research in Water Resources, United Nations Mission in Sudan and United Nation Mission in Central African Republic.

Research Interest

- Synthesis & Characterization of Catalysts
- Adsorption, Gases adsorption, CO_2 reduction
- Photocatalysis Catalysis,
- Sustainable Development, Green Production
- Climate Change, Adaptation and Mitigation
- Water Quality Monitoring, Remediation, Treatment
- Solid waste/Hazardous waste
- Wastewater Treatment
- Water, Sanitation and Hygiene, Advocacy, consultancy/ Training & Capacity Building

EXPERIENCE

Pak-Austria Fachhochschule,
Institute of Applied Science & Technology, Haripur, Khyber Pakhunkhawa, Pakistan
Assistant Professor
Jan 2020- to date

Wuhan Technology & Business University, Wuhan, China
Associate Professor
May-2018- Jan 2020

- To develop courses regarding Sustainable Development, SDGs, Climate Change, Adaptation and Mitigation, Teaching courses and Research.
- Scientific research work (publishes papers and fund raising).
- International Cooperation/Collaboration.

Wuhan University of Technology, Wuhan, Wuhan, China
Post-Doctoral Research Fellow
August-2016- August-2018

- Synthesis and characterization of bimetallic catalysts for Chromium and Arsenic removal.
- Adsorption, Catalysis, Photocatalysis and Fenton catalysis

United Nations Multidimensional Integrated Stabilization Mission in Central African Republic (MINUSCA)
WATSAN In-Charge-team site
February-2017- June -2017

- Water treatment plant, installation, maintenance.
- Water, waste water testing, training and capacity building of staff
- Construction, supervision of WATSAN infrastructure

University of Swat, Pakistan
Assistant Professor
August-2015- August -2016

- Teaching to undergraduate and master degree students.
- Supervision of research students (B.S and Master students)
- Submission of research proposals and concept papers and fund raising.

United Nations–African Union Mission in Darfur (UNAMID)
Water Analyst
December -2010- August -2012

- Worked as in-charge water quality laboratory mission headquarter.
- Water and Environmental protection infrastructure, installation
- Training and capacity building for water quality staff, filed visit for monitoring and evaluation. Development of water and environmental safety plans.

Pakistan Council of Research in Water Resources, Government of Pakistan
Research Officer
April-2006- December -2010

- Contribute to institutional strengthening, capacity building programs on water disinfection and water quality analysis using wide range of equipment and field rapid kits.
- Advocacy for public wash services, culture and gender sensitivity, consideration of equity dimensions at different levels for better wash governance, and correspondence with donor agencies.
- Reporting, field coordination, implementation and supervision of field teams in PCRWR- developmental projects and emergency IDPs camps in collaboration of WHO/UNICEF/UNHCR

SKILLS & ABILITIES

- ❖ Interpersonal skills
- ❖ Communication skills
- ❖ Problem solving skills
- ❖ Proposal writing skills
- ❖ Team working skill
- ❖ Laboratory/Research skills
- ❖ Computer skills

LANGUAGES

English (Fluent)
Urdu (Native)
Pashto (Mother language)
Chinese (Basic)
Arabic (Basic)

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EDUCATION

2016-2018 Post-Doctorate (Material synthesis & Catalysis)
Wuhan University of Technology, Wuhan, China

2012-2015 Doctor of Philosophy (Environmental Chemistry)
Wuhan University of Technology, Wuhan, China

2004-2006 Master of Philosophy (Physical/Environ. Chemistry)
University of Peshawar, Peshawar, Pakistan

2001-2004 Master of Science (Chemistry)
University of Peshawar, Peshawar, Pakistan

1999-2001 Bachelor of Science (Biological Sciences)
University of Peshawar, Peshawar, Pakistan

AWARDS AND HONERS

- Merit Scholarship from University Grants Commission for bachelor Studies-1999-2001
- Merit scholarship form HEC for M.Phil. 2005-2006
- Chinese Government Scholarship for PhD 2012-2015
- Outstanding graduate of the year 2015 award by Wuhan Technology, Wuhan China

PROJECTS AND FUNDINGS

Startup research grant from HEC during IPFP tenure 2016 (0.5 million completed)
Research funds from WTBU, Wuhan China, 2018 (50,000 RMB, on going)
Research project NSFC, China, 2019 (Submitted)
Joint Research project under PSF, Pakistan and NSFC, China 2019 (ready to submit)

LEADERSHIP

- **2007-2009** As in-charge Water Quality Section PCRWR, Peshawar,
- **2009-2010** As Officer in-charge PCRWR office Muzzafarabad
- **2010-2012** As in-charge Water quality, United Nations Mission's Headquarter, El-Fasher Sudan
- **2013-2015** As Head of Study Department, ICEA, Wuhan University of Technology, Wuhan, China

REFERENCES

Professor Dr. Abdul Naeem
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National Center of Excellence in Physical Chemistry
University of Peshawar, Pakistan
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PUBLICATIONS (CITATIONS: 269)

Published: 18 (IF: 80.276), Revision submitted: 2 (IF:6.5:)

Under review: 02 (IF: 20.61), **Ready to submit: 02, in process: 03**

To be Re-Submitted/Revision Manuscripts:

I. **H. Fida**, G.K. Zhang, S. Guo. "Simultaneous removal of hexavalent chromium and organic dyes from aqueous medium using Fe-Mn supported montmorillonite", ***Separation and Purification Technology***, **2019,** (Revision submitted),

II. **H. Fida***, M. Alomer, W. Ahmad, S. Guo, A. Saeed, Z. Dan; Photocatalytic reduction of CO_2 and Cr(VI) using flowerlike In-doped CdS nanostrucutres, submitted .

III. **H. Fida**, G.K. Zhang, S. Guo, "Simultaneous removal of As(III) and Cr(VI) using bimetallic Mn/Sn catalyst", ***Journal of Cleaner Production***, **2019**, Under Review,

Published Manuscripts (Impact Factor 80.276 with Citations 269):

1. **H. Fida**, S. Guo, G.K. Zhang, "Preparation and characterization of bifunctional Ti–Fe kaolinite composite for Cr(VI) removal", ***Journal of Colloid and Interface Science*** 442 (**2015**) 30-38. **Impact Factor: 7.491**, ***Citations: 88***

2. **H. Fida**, G.K. Zhang, S. Guo. A. Naeem, "Heterogeneous Fenton degradation of organic dyes in batch and fixed-bed using La-Fe montmorillonite as catalyst", ***Journal of Colloid and Interface Science***, 490 (**2017**) 859-868. **Impact Factor: 7.491**, ***Citations: 61***.

3. **H. Fida*** , W. Ahamd, A. Ahamd, Guo Sheng, "Enhanced and facile desulphurization of commercial oil using air assisted performic acid oxidation system*", **Environmental Engineering Science***, 36 **(2019)** 1404-1411 ***Impact Factor: 1.61****Corresponding author, Citations:***

4. S. Guo, H. Wang; W.Yang; **H. Fida**; L. You; scalable synthesis of Ca-doped Fe_2O_3 with abundant oxygen vacancies for enhanced degradation of organic pollutants through peroxymonosulfate activation, ***Applied Catalysis B: Environmental***, 262, (**2019)** 118250, ***Impact Factor: 16.22, Citations: 25***

5. M. Zeeshan, W. Ahamd, **H. Fida*,** Phytostabalization of the heavy metals in the soil with biochar applications, the impact on chlorophyll, carotene, soil fertility and tomato crop yield, ***Journal of Cleaner Production***, 255, (**2020)**, 120318, ***Impact Factor: 7.246 , *Corresponding author, Citations: 1***

6. M. Zeeshan, **H. Fida*,** W. Ahamd, **"**Impact of Biochar Particle Sizes on the Bioaccumulation of the Heavy Metals and Their Target Hazard Assessment", ***Environmental Engineering Science,*** **2019, Accepted.** ***Impact Factor: 1.61, *Corresponding author & equal contributor, Citations:***

7. Z. Sun, C. Xiao, **H. Fida**, G. K. Zhang, "Synthesis of stable and easily recycled ferric oxides assisted by Rhodamine B for efficient degradation of organic pollutants in heterogeneous photo-Fenton system", ***Journal of Cleaner Production***, 196 (**2018**) 1501-1507, **Impact Factor:** ***7.246*** , ***Citations: 14***

8. M. Alomar, Y. Liu, W. Chen, **H. Fida**, "Controlling the growth of ultrathin MoS2 nanosheets/CdS

nanoparticles by two-step solvothermal synthesis for enhancing photocatalytic activities under visible light", ***Applied Surface Science***, 480 (**2019**). 1078-1088, **Impact Factor: 6.182**, ***Citations: 13***.

9. S. Guo, Z.Y. Yang, Z. Wen; G. K. Zhang, **H. Fida**; J. Chen, "Reutilization of iron sludge as heterogeneous Fenton catalyst for the degradation of dyes: Role of sulfur and mesoporous structure", ***Journal of Colloid and Interface Science***, 532 (2018) 441-448 **Impact Factor: 7.491**, Citations: ***Citations: 13***.

10. U. Din, M. S. Shaharun, D. Subbarao, **H. Fida**, A. Naeem, "Influence of niobium on carbon nanofibre based Cu/ZrO2 catalysts for liquid phase hydrogenation of CO_2 to methanol", ***Catalysis Today***, 259 (**2016**) 303-311. **Impact Factor: 5.825**, ***Citations: 23***

11. T. Mahmood, A. Khan, A. Naeem, M. Hamayun, M. Muska, M. Farooq, **H. Fida**, "Adsorption of Ni(II) ions from aqueous solution onto a fungus Pleurotus ostreatus", ***Desalination and Water Treatment,*** 57 (**2016**) 7209-7218. **Impact Factor:** 0.85, ***Citations: 3***.

12. S. L. Badshah, A. Naeem, M. Hamayun, K. H. Shah, **H. Fida**, "Comparative sorption studies of chromate by nano-and-micro sized Fe2O3 particles", ***De Gruyters Open Chemistry Journal***, 15 (**2017**) 147–155. **Impact Factor:1.216**

13. S. Guo, A. Naeem, **H. Fida**, M. Hamayun, M. Muska, "Removal of Cu (II) from aqueous solution by iron vanadate: Equilibrium and kinetics studies", ***Desalination and Water Treatment***, 75 (**2017**) 124-131. **Impact Factor: 0.85, *Citations: 8*.**

14. Z. Ding; S. Guo, X. Wu, **H. Fida**, "One-step synthesis of spherical NaTaO3 and graphene spherical NaTaO3 nanoparticles with enhanced photocatalytic activity for NO purification", ***Functional Materials Letters***, 11 (**2018)** 1850070, **Impact Factor: 2.00, *Citations: 4***

15. W. Yang, S. Guo, J. Chen, A. Naeem, **H. Fida**, M. Hamayun, "A novel iron modified montmorillonite composite and its enhanced performance for tetracycline hydrochloride adsorption", ***Functional Materials Letters***, (**2019**), DOI: 10.1142/S1793604719500140, **Impact Factor: 2.00**. ***Citations: 2***

16. N. Ahmad, Z. Ali, N. Ali, N. Shahzad, **H. Fida**, S. M. Abbas, "Cerium modified pillared montmorillonite supported cobalt catalysts for Fischer Tropsch Synthesis", ***Journal of the Chemical Society of Pakistan***, 37(04), (**2015**) 687-695. **Impact Factor: 0.330**, Citations: 2.

17. W. Yang, S. Guo, J. Chen, A. Naeem, **H. Fida**, M. Hamayun, "Efficient degradation of refractory contaminants with silver ferrite for persulfate activation", ***Functional Materials Letters***, (**2019**), DOI: 10.1142/S1793604719500838, **Impact Factor: 2.00**.

18. R. Ullah, W. Ahmad, I. Ahmad, M. Khan, M. Khattak **F. Hussain,** Adsorption and recovery of hexavalent chromium from tannery wastewater over magnetic max phase composite, Separation Science and Technology, https://doi.org/10.1080/01496395.2020.171753 , **Impact Factor: 1.718**

Conference Papers Presented

1. *"Catalytic Oxidative Desulfurization of Petroleum Ditillates over Metal Oxides Catalysts"*, 8th, International Conference: **Environmentally Sustainable Development** – ESDev-VIII, COMSATS University Islamabad. **Abbottabad , Pakistan**, 22-23 August, 2019
2. *"Sorption behavior of Fe_2O_3 and Fe_2O_3 nanopowder towards removal of Cr (VI) anions from aqueous solutions",* 3rd **Water Research Conference**, 11-14 Jan-2015, **Shenzhen, China**
3. *"Comparative sorption studies for the effective removal of arsenate from aqueous solution by $FePO_4$, virgin and iron-impregnated activated carbons",* 3rd **Water Research Conference,** 11-14 Jan-2015, **Shenzhen, China**.
4. *"Influence of niobium on carbon nanofiber based Cu/ZrO_2 catalysts for liquid phase hydrogenation of CO_2 to methanol",* **oral/poster** in The 1st International Symposium on **Catalytic Science and Technology in Sustainable Energy and Environment**" 8-10 October, 2014, **Tianjin China**,