

JAMSHID HUSSAIN (Gold Medalist)

PERSONAL INFORMATION

📍 Parachinar city, District Kurram KPK, Pakistan
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CAREER OBJECTIVE

Looking forward to have a competent team in which I utilize my abilities to become best in my field.

ACADEMICS

P.hD IN CHEMICAL ENGINEERING AND MATERIAL SCIENCE (2023 in progress)

Yuan Ze University, Taiwan

(2019-2021)

M.PHIL IN PHYSICS (18 years education)

Hazara University, Mansehra.

(CGPA 3.92/4)

MASTER IN PHYSICS (M.sc 16 years education) (2016-2018)

Hazara University, Mansehra.

(CGPA 3.59/4) **GOLD MEDALIST**

BECHELOR (B.sc 14 years educations) (2014-2016)

KUST University, Kohat.

INTERMEDIATE (2012-2014)

BISE Rawalpindi.

MATRICULATION (2010-202012)

BISE Kohat

SUBJECTS STUDIED

Solid state physics Geophysics Plasma Physics
Nuclear Physics Nano physics Material Science
Laser Physics Quantum Physics Mathematical Physics
Electronics Electrodynamics Particles Physics
Semiconductor Physics Atomic and Molecular Physics
Thermal and Statistical Physics, Lithium ions Battey and processing.
Chemical Kinetics, Introduction to Magnetic Materials, Lithium Ions battery.

FINAL PROJECT OF BECHELOR	“Green Synthesis of Pure and Copper doped Cobalt Oxide by using Spinach Oleracea Leaves”
RESEARCH OF M. PHIL	“Optical, morphological, and structural properties of pure and copper-doped cobalt oxide nanoparticles via the hydrothermal route”
RESEARCH OF Ph.D.	“Recovery of Hazardous Semiconductor Industry Sludge CaF_2 as a Useful Resources” “Synthesis of Calcium Fluoride (CaF_2) Nanocrystal”

WORKSHOPS

- ❖ Two-day workshop on “Nanomaterial”, September 20, 2017, organized by Hazara University Mansehra, Pakistan.
- ❖ First international workshop on Optics held in Hazara University, Mansehra 16 December 2018.
- ❖ 1st National Symposium on Physics held at Hazara University, Mansehra March 27, 2019.
- ❖ Work on importance of Nanotechnology arranged by Hazara university, Mansehra April 02, 2019.
- ❖ Two-day workshop, 12,13 October 2017, ” Nanomaterial’s research, fabrications and applications (WNRFA-2017) organized by department of Chemistry Hazara university Mansehra.
- ❖ One day workshop on XANES/EXAFS data analysis in **NSRRC**, Hsinchus, Taiwan, 18 August 2023.
- ❖ Member of weakly experiments at **NSRRC Hsinchu, Taiwan** from March 2023 to Sep 2023.

WORK EXPERIENCES

- I worked as a Lab assistant at Hazara University from 2018 to 2019.

Responsibilities.

Collection of different material samples and synthesizing nanomaterial for different applications by using various experimental techniques

- Hydrothermal
- Co-precipitation
- Green synthesis
- Combustion Method
- Chemical Looping combustion Technology.

I served as lecturer of Physics.

TEACHING EXPERIENCES

- ❖ The IPS & College Parachinar
- ❖ The Brilliant Group of college Parachinar
- ❖ Allamah Muhammad Iqbal Public and College

INTERPERSONAL SKILLS

- Quick adaptability to any sort of environment and any Task.
- Enjoy working as a part of a team while being self-motivated.
- Works well under stress and considered very Punctual.
- Enjoy problem solving and taking challenges.

- Member of a student organization and struggling to promote education in remote areas.
- Teaching children in leisure time.
- Using different websites to learn new things.
- Reading books, Newspapers and playing Cricket.

ORGANISATIONAL /MANAGERIAL

I organized many group discussions sessions as a task leader as well as study tours.

I also organized University level Quiz competitions, Debates and speech competitions.

COMPUTER SKILLS

- Operating System Microsoft
- Origin, Mac, High Expert Score, Ohmic Software for Data Plotting
- XP, Windows 7, 8 & 10 etc.
- Microsoft Office (Word, Excel & Power point)

LANGUAGE PROFICIENCY

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|-----------|---------------|
| • English | Excellent. |
| • Urdu | Excellent |
| • Persian | Good |
| • Pashto | Mother tongue |
| • Chinese | Basic |

PUBLICATIONS LIST

1. Abrar Hussain, Kuen-Song Lin*, Ndumiso Vukile Mdlovu, and **Jamshid Hussain**, 6/2023, Preparation and Characterization of Sulfated Zirconia-CuO-ZnO/ZrO₂ Catalyst for CO₂ Hydrogenation to Dimethyl Ether, Applied Surface Science, 494, 492-500 (**in press**). (IF=7.392).
2. **Jamshid Hussain**, Kuen-Song Lin* Abrar Hussain, Sujun Chowdhury, 7/2023, Synthesis and Characterization of Hexagonal Ceria-BTC Microrods for Interaction of Methanol, Journal Environmental Chemical Engineering (**under review**). (IF=7.96).
3. **Jamshid Hussain**, Abrar Hussain, Kuen-Song Lin*, Najmul Hassan *, Asad Abbas, 2/2024, Optical, morphological, and structural properties of pure and Copper-doped cobalt oxide via hydrothermal route Applied Surface Science. (In Press) (IF=6.7).
4. Kuen-Song Lin*, Abrar Hussain, Nguyen Tien Thao, Chao-Lung Chiang, and **Jamshid Hussain**, 7/2022, Two-Stage Conversion of CO₂ to Methanol and Dimethyl Ether Using CuO-ZnO-Al₂O₃/Protonated Y-Type Zeolite Catalysts, Journal Environmental Chemical Engineering, 23, 04986 (IF=7.392).

INTERNATIONAL CONFERENCES PUBLICATIONS

1. Abrar Hussain, Kuen-Song Lin*, **Jamshid Hussain**, Yung-Chen Hsieh, and Yun Ko, 6/28~6/30/2023, Synthesis of DME from CO₂ Hydrogenation over Biotemplated ZSM-5 Mixed

with Nanosized Cu-ZnO-ZrO₂-Al₂O₃ Catalysts. Taiwan International Conference on Catalysis (TICC-2023), Tainan, Taiwan.

2. Yun Ko, Kuen-Song Lin*, Yun-Cheng Hsieh, **Jamshid Hussain**, and Abrar Hussain, 6/28~6/30/2023, Preparation and Characterization of MIL-101(Cr) from Waste PET for CO₂ Conversion into Propylene Carbonate. Taiwan International Conference on Catalysis (TICC-2023), Tainan, Taiwan.

DOMESTIC CONFERENCES PUBLICATIONS

1. **Jamshid Hussain**, Kuen-Song Lin*, Abrar Hussain, **11/03~11/05/2023**, Investigating Methanol Interaction on Hexagonal Ceria-BTC Microrods, *2023 TWNSS Annual Meeting and Conference on Neutron Scattering*, Poster presentation, page, p. 81.
2. **Jamshid Hussain**, Kuen-Song Lin*, **10/23~10/26/2023**, Hydrogen generation by gasification of pig hair biowaste over NiO/Al₂O₃ nanocatalyst, *Proceedings of The 29th NSRRC User's Meeting and Workshops*, NSRRC, Hsinchu, Taiwan, Poster Presentation, p. 06.
3. **Jamshid Hussain**, Kuen-Song Lin*, Abrar Hussain, **12/09~12/10/2023**, Methanol Interaction Behaviour in Hexagonal Ceria-BTC Microrods by Hydrothermal Route, 2023 TwICChE held at NTU, Taiwan, Oral Presentation, p. 53.

Recommendation No 1

Professor Dr. Kuen Song Lin

PhD, Environmental

Engineering Distinguished

Professor/Dean at Yuan Ze

University, Taiwan.

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Recommendation No 2

Dr. Najmul Hassan

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