

CURRICULUM VITAE (CV) OF PROF. DR. ABDUL NAEEM KHAN (TI)

Mailing Address:

Professor Dr. Abdul Naeem Khan (TI),

Professor Emeritus/ Ex-Director

National Centre of Excellence in Physical Chemistry,

University of Peshawar, Peshawar, Pakistan

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Education:

Major Area **Physical Chemistry**

Postdoc Notre Dam University, USA, 2004 – 2005.

Postdoc Arizona State University, USA, 2005 – 2006.

Ph.D. National Centre of Excellence in Physical Chemistry,
University of Peshawar, Pakistan, 1996.

M.Phil National Centre of Excellence in Physical Chemistry,
University of Peshawar, Pakistan, 1992.

M.Sc. University of Peshawar, Pakistan, 1989.

B.Sc. University of Peshawar, Pakistan, 1985.

Research/Teaching Experience:

Profession	Institutes	Period
Research Scholar	N.C.E. in Physical Chemistry, University of Peshawar	1989 - 1996.
Research Associate in Higher Education Commission Project	National Centre of Excellence in Physical Chemistry University of Peshawar, Studied the removal of toxic species using metal oxides/hydroxides, mixed oxides and organic resins etc,	June 1997- Nov. 1997
Lecturer	Islamia College, University of Peshawar	Sep. 1996 - June 1997
Research Officer on PSF Project	National Centre of Excellence in Physical Chemistry, University of Peshawar, Studied the cation exchange properties of metal(III) phosphates,	Dec.1997- Dec.1999.

Assistant Professor (BPS -19)	National Centre of Excellence in Physical Chemistry, University of Peshawar,	29 March 2000 - 2009
Professor (BPS-21)	National Centre of Excellence in Physical Chemistry, University of Peshawar	16 May, 2009
Meritorious Professor (BPS-22)	National Centre of Excellence in Physical Chemistry, University of Peshawar	27-12-2023 to - 05-02-2024
Professor Emeritus	National Centre of Excellence in Physical Chemistry, University of Peshawar	30 August 2024
Director	National Centre of Excellence in Physical Chemistry, University of Peshawar	14-04-2017 to 05-02-2024

Administrative Experience

Profession	Institute	Period
Director	National Centre of Excellence in Physical Chemistry, University of Peshawar	Since 14. 04. 2017 till 05. 02. 2024
Head of Surface Laboratories	National Centre of Excellence in Physical Chemistry, University of Peshawar	Since 2002 till 05. 02. 2024
In-Charge Main Store	National Centre of Excellence in Physical Chemistry, University of Peshawar	since 19/6/2014 till April 2017
Internal Checking Officer	National Centre of Excellence in Physical Chemistry, University of Peshawar	2012 to 2017
Convener of Scholarship Committee	National Centre of Excellence in Physical Chemistry, University of Peshawar	19/7/2013 till 2017
Convener of Departmental Promotion Committee	National Centre of Excellence in Physical Chemistry, University of Peshawar	since 19/6/2017 till 05. 02. 20 24
Convener of Purchase/Works Committee	National Centre of Excellence in Physical Chemistry, University of Peshawar	since 19/6/2014 till 2017
Convener of Disciplinary Committee	National Centre of Excellence in Physical Chemistry, University of Peshawar	since 19/6/2014 till 2017.

Convener of House Building Loan Committee	National Centre of Excellence in Physical Chemistry, University of Peshawar	since 19/6/2014 till 2017
Convener of Welfare Fund Committee	National Centre of Excellence in Physical Chemistry, University of Peshawar	since 19/6/ 2014 till 2017
Convener of Teacher Incentive	National Centre of Excellence in Physical Chemistry, University of Peshawar	since 2/2/2015 till 2017
Convener of the Graduate Studies Committee	National Centre of Excellence in Physical Chemistry, University of Peshawar	since April 2017 till 05. 02. 2024
Member of Academic Council of the University of Peshawar	University of Peshawar	2009 till 05. 02. 2024
Member of Purchase Committee	NCEPC, University of Peshawar	since 2009 to 2014
Member of Promotion Committee	NCEPC, University of Peshawar	since 2009 to 2014
Member of Remuneration and Res. Committee	NCEPC, University of Peshawar	since 2010 to 2015
Member of Disciplinary Committee	NCEPC.University of Peshawar	since 2010 to 2014
Member of Staff Welfare Fund Committee	NCEPC, University of Peshawar	since 2012 to 2014
Member of House Building/Loan Committee	NCEPC, University of Peshawar	since 2013 to 2014
Member of Graduate Studies Committee	NCEPC, University of Peshawar	since 2013 to 2017
Member of Graduate Studies Committee	ICS, University of Peshawar	since 2016 to date.

Member of the ASRB Committee	University of Peshawar	since 2017 to 2020
Member of the Board of Studies	Kohat University of Science and Technology	since 2017 to 2020
Member of the Board of Studie	Hazara University	since 2017 2020.
Member of the Board of Studies	Khushal Khan University Karak	since 2020
Member of the Selection Board	Bacha Khan University Charsadda	since 2021 till 2024
Member of the Senate	Agriculture University of Peshawar	Since 2024

Organized Conferences/Workshops/Seminar

1. **Organizer** of the First Workshop on the Contribution of NCE in Physical Chemistry in National Development on 17 January, 2011.
2. **Organizer** of the Two Days Workshop on Recent Advances and New Horizons in Chemistry, April 6-7, 2015.
3. **Organizer** Committee Member of 11 International & 23 National Chemistry Conference held in October 15 - 17 (2012).
4. **Resource Person** for refresher course in Physical Chemistry for College Teachers held NCE in Physical Chemistry from 7 to 16 May, 2006.
5. **Organizer** in Two Days Workshop on Recent Advances and New Horizons in Chemistry from 6 to 7 April, 2015.
6. **Organizer** of the 1st International Conference on Emerging Trends in Materials Sciences 27 February to 1 March, 2018.
7. **Organizer of** the Science and Technology Poster Exhibition 2 to 3 April 2018.
8. **Chief Organizer** of the Workshop on Advanced Material Characterization Techniques, 16 to 17 August, 2018.
9. **Chief Organizer** of Two Days Workshop on Citation Management Tool (End Note), 25 to 26 April, 2019.
10. **Organizer of Seminar**, National Centre of Excellence in Physical Chemistry, University of Peshawar in 2020.

11. **Chief Organizer**, International Chemistry Workshop for Young Scientists (ICWYS) 2020, Jointly Organized by NCEPC, PAS & UoP, January 23rd – 24th, 2020;
12. **Patron in Chief**, Post-Doctoral & Senior Research Fellowship Opportunities in Germany, Organized by NCEPC March 9th, 2020.
13. **Chief Organizer**, International Conference, Environment & Safety Requirements Under Higher Education Development in Pakistan(HEDP), Patron in Chief, Organized by NCEPC September 2nd - 3rd, 2021.
14. Patron in Chief, Role of Catalyst for Renewable Energy, August 25-26 (2021).
15. **Chief Organizer**, Building Better Batteries: Progress and Challenges & Electron-A powerful Entity to Probe Nature, Organized by UoP NCEPC, October 12th -3th, 2021.
16. **Chief Organizer**, MENDELEY, Organized by UoP NCEPC, November 22nd -23rd 2021.
17. **Patron in Chief**, Conducting Polymers, Organized by NCEPC, UoP, July 1st, 2022.
18. **Chief Organizer**, 3 Day International Conference on RENEWABLE ENERGY and Advanced Materials, , Organized by NCEPC , UoP on March 6th - 8th, 2023.

Participated/Attended in Conferences/Workshops/Seminar

1. **1st National /International Conference on Chemistry** Jointly Organized by ICS and NCEPC, University of Peshawar, 1989
2. **7th National Symposium on Analytical and Environmental Chemistry**, Organized by Centre of Excellence in Analytical Chemistry, March 4 to 5, 2003
3. **Chemistry Conference**, Notre Dame University, USA , 2004.
4. **1st National Workshop/Seminar**, Global Recognition of Patent System, Institute of Electronics Engineering (IIEE), Karachi, December 13 – 14, 2006
5. **19th National Chemistry Conference**, Department of Chemistry Organized by Kohat University of Science and Technology, Kohat on 9 to 11 June, 2009
6. **1st National Conference on Materials Processing**, Characterization, Properties and their Economic Potentials Organized by MRL on 1 to 3 December, 2010.
7. **Symposium on Building Effective Coordination between R&D and Industry for Enhancing Innovations**, Competitiveness and Productivity of Indigenous Technologies Organized by PASTIC Islamabad and IRP Lahore on 26 January, 2011.
8. **9th International & 21st National Chemistry Conference 2011**, Jointly Organized by the Department of Chemistry & International Centre for Chemical & Biological Sciences 14 to 16 March, 2011.
9. **Workshop on Edible Oil & Oilseeds Quality Assessment Techniques** Organized by Nuclear Institute for Food and Agriculture (NIFA), Peshawar, September 7-8, 2011
10. **9th International & 21st National Chemistry Conference 2011**, Jointly Organized by the Department of Chemistry & International Centre for Chemical & Biological Sciences 14 to 16 March, 2011.

11. Seminar on Research Methodology, & Statistical Software in Research, Endnotes Organized by Peshawar University Teacher, Association (PUTA) on 3 November, 2011.
12. 10th International & 21st National Chemistry Conference 2011, Jointly Organized by the Department of Chemistry University of Agriculture , Faisalabad, 21 to 23 November, 2011.
13. 2nd National Conference on Materials Processing, Characterization, Properties and their Economic Potentials Organized by MRL on 30 November to 2 December, 2011.
14. International Year of Chemistry 2011, One Day Research Poster Symposium Organized by National Centre of Excellence in Physical Chemistry on 23 December, 2011.
15. Workshop on Computer Resources for Molecular Modelling Organized by National Centre of Excellence in Physical Chemistry, University of Peshawar on 27 to 29 March, 2012.
16. Workshop on Effective Professional Communication Organized by University of Peshawar on 16 to 18 May, 2012.
17. Workshop on Materials Characterization by X-ray Diffraction organized by NIFA on 21 to 25 May, 2012.
18. Training Course on Water Quality for Plant and Human Health Organized by NIFA on 12 to 13 December, 2012.
19. Workshop on Citation & Referencing Using EndNote Organized by National Centre of Excellence in Physical Chemistry, University of Peshawar on 16 February, 2012.
20. Workshop on Indoor Ambient Air Pollution Organized by Environmental Protection Agency Govt. Khyber Pakhtunkhwa, Peshawar on 31 May, 2013.
21. 12th International & 24th National Chemistry Conference Organized by the Chemical Society of Pakistan & Institute of Chemical Sciences on 28 to 30 October, 2013.
22. Seminar on Research Paper Writing Organized by National Centre of Excellence in Physical Chemistry, University of Peshawar on 11 to 12 December, 2014.
23. 5th Innovation Summit Organized by University of Peshawar on 3 to 4 November, 2015.
24. Workshop on the Use of Digital Library Organized by National Centre of Excellence in Physical Chemistry, University of Peshawar on 11 February, 2015.
25. 5th Spring Research Poster Exhibition, Organized by Institute of Chemical sciences University of Peshawar on 12 April, 2016.

26. One Day Seminar on Quraan, Chemistry Biomimicry Organized by National Centre of Excellence in Physical Chemistry, 6 April, 2017.
27. Advanced Material Characterization Technique, Chief Organizer, August 16th – 17th, 2018.
28. Science & Technology Poster Exhibition, Chief Organizer, April 2nd - 3rd, 2018.
29. 1st International Conference on Emerging Trends in Materials Sciences, Organizer, Jointly Organized by ICP and NCEPC, February 27th – March 1st, 2018.
30. Citation Management Tool (End Note), Chief Organizer, Organized by NCEPC, April 25th – 26th. 2019.
31. International Chemistry Workshop for Young Scientists (ICWYS) 2020, Chief Organizer, Jointly Organized by NCEPC, PAS & UoP, January 23rd – 24th, 2020.
32. Post-Doctoral & Senior Research Fellowship Opportunities in Germany, Patron in Chief, Organized by NCEPC March 9th, 2020.
33. Environment & Safety Requirements Under Higher Education Development in Pakistan(HEDP), Patron in Chief, Organized by NCEPC September 2nd - 3rd, 2021.
34. Building Better Batteries: Progress and Challenges & Electron-A powerful Entity to Probe Nature, Chief Organizer, Organized by UoP NCEPC October 12th -3th, 2021.
35. MENDELEY, Chief Organizer, , Organized by UoP NCEPC, November 22nd -23rd 2021.
36. Conducting Polymers, Patron in Chief, , Organized by NCEPC, UoP, July 1st, 2022.
37. Seminars Attended = 200

Participation in International Events

S. No	Title of Workshop/Seminar Exhibition/Conference Certificates	Organized By	Country Name	Date
1	Science & Engineering Design Exhibition (SEDEX 38)	Universiti Teknologi Petronas (UTP)	Malaysia	November 30 th – December 1 st , 2016
2.	Belt and Road Science, Technology, Innovation Caravan 2018 (CPEC)	China International Technology Transfer Centre	Beijing China	July 7 th – 11 th , 2018

M.Phil and PhD ScholarsSuprvised/Produced by Prof. Dr. Abdul Naeem Khan

S. No	M.Phil Scholar	Title of Thesis	Year
1	Qamar Sultana	Sorption Studies of Xanthane on copper Sulphid(Cus)	2006
2	Syed Lal Badshah	Molecular Dynamics Simulation of Cholera Toxin A1 Polypeptide	2009
3	Tasleem Bibi	Electrochemical Deposition of Nickel from Nickel sulphate and Nickel Sulfamate Baths	2009
4	Najma Afridi	Effect of Temperature and Divalent metal Ions on the Surface Charge Properties of Al ₂ O ₃ .	2009
5	Fida Hussain	Impact Assessment of Poor Sanitation on Ground Water in Rural Area of Peshawar	2010
6	Naseerullah Khan	Environmental Pollutants in and Around the City of Peshawar	2011
7	Irfan Shah	Competitive Sorption of Selenite and Arsenate on Iron Impregnated Activated Carbon.	2011
8	Sayyar Muhammad	Surface Charge properties of Zirconium Dioxide	2011
9	Muhammad Ayaz	Estimation of Acid Rain Over Peshawar City	2012
10	Mairman Muska	Removal of Cr(VI) from Aqueous Media by Fe ₂ O ₃ Nanopowder	2012
11	Afsar Khan	Adsorption of Mn(II) Ions from Aqueous solutions on Pleurotus Ostreatus	2013
12	Israf Ud Din	Synthesis and Characterization of Nickle Ferrite	2014
13	Asif Khan	Synthesis and Characterization of Nickle Copper Ferrite by co-precipitation	2014
14	Zahid Ali Ghazi	Ion Exchange Adsorption of Cd (II) from aqueous solution by Aluminum and Titanium Oxides.	2015
15	Akhlaq Hussain	Comparative Studies of the Cobalt Ferrite Nanoparticles Synthesized by Different Methods	2015
16	Shah Zareen	Comparative Adsorption Studies of Methylene blue onto Oxides and binary mixed oxide of Aluminum and Iron	2016
17	Qadeer ullah Shah	Adsorption of Heavy Metals From Aqueous Solutions by Using Lycopersicon Esculentum Brassica Leaves	2016
18	Ihtisham Wali Khan	Catalytic Conversion of Spent Frying oil into biodiesel/raw and 12-Tungsto Phosphoric Acid modified clay.	2017
19	Shah Zaman	Biodiesel Production from Waste Cooking Oil (WCO) Using Acid Modified Local Bentonite Clay as Heterogeneous Catalyst.	2017
20	Juma Sahar	Comparative Adsorption Studies of Graphene Oxide towards the Removal of Rhodamine B and Congo Red Dye	2017
21	Rabil Razzaq	Removal of Nickel(II) and Cadmium From Aqueous Solution by Amberlyst-15(H)	2018

22	Sajjad Ahmad	Comparative sorption Properties of Metal (III) towards for Removl of Methylene Blue and Rhodamine B from aqueous solutions.	2018
23	Muhammad Rahim	Evaluation of OAK Plant (Quercus Suber) Oil as a Potential feed stock for biodiesel Production in Pakistan	2018
24	Tooba Saeed	Removal of Methylene Blue and Congo Red from Model Aqueous Solutions by MnO ₂ Naosheets and its composites with Polyvinyl Chloride as Potential Adsorbents	2018
25	Mariam Mahabat Khan	Adsorption Behavior of Palm Kernel Shell and Manganese Dioxide Towards the Removal of Rhodamine B and Methyl Orange	2019
26	Nazish Rashid	Removal of Cationic Dyes from Aqueous Solutions Using Boron Nitride Natnosheets	2020
27	Farida	Removal of Dyes and Cadmium Ions from Aqueous Solutions by Hexagonal Boron Nitride as Potential Sorbent	2019
28	Faiza Javed	Investigation of Biodiesel Production from Nanoorrhops Ritchiana Seeds Oil as A Potential Feedstock	2020
29	Zahoor Ahmad	Synthesis, Characterization and Temperature Dependent Magnetic Properties of cobalt	2021
30	Maria Gul	Removal of Methylene Blue using Oxides and Mixed Oxides of Aluminium and Zinc as Potential Adsorbents	2022
31	Naila Masood	Adsorptive removal of Heavy Metal ions from model aqueous media using Titanium metal organiv frame work and its PVC Functionalized Composite	2023
32	Sidra Tul Muntaha	PVC Composite of Manganese Metal organic Framework as a Potential adsorbent for the removal of dyes from aqueous Media	2023
33	Roshni	Designing Nickle Coated – Activated Carbon (Ni-AC) Based Electrode for Supercapacitor Applications.	2023
34	Muhammad Fahad	Synthesis of Redox-Responsive Nickle Cobalt Sulfide/Polyaniline Nanocomposite for High Performance Supercapacitor	2023
35	Asad Ullah	Synthesis of Nickle and Iron Co-Doped Multiwalled Nanotubes for use in Supercapacitor	2023
36	Waqas Ahmed	Synthesis of Na ₂ O/BaCOO ₂ @SiO ₂ as a Potential Heterogenous Catalyst System for the Production Of Biodiesel FromWild Olive Oil	2024
37	Imran Ullah	Synthesis and Characterization of Na ₂ O/Ba-Chitosan as a Potential Heterogenous Catalyst For Sustainable Biodiesel Production from Pongamia Pinnata(Sukhchain) Seeds Oil: Kinetics andThermodynamic Studies	2024

S.No	PhD Scholar	Title of PhD Thesis	Year
38	M. Tahir Saddique	Comparativr Sorption Studies of divalent Metal Ions on Nickel Oxide (NiO)	2011
39	Salah ud Din	Arsenate Adsorption on Iron Hydroxide and Mixed Oxide of Iron and Silicon	2014
40	M.Hamayun	Comparative Sorption Studies Arsenate to Ferric Phosphate virgin and Iron Impregnated Activated Carbons.	2015
41	Zafar Khan	Flash Pyrolysis study of Pakistani coal effect of Lithophilic, Chalcophilic, Metals and Hydrogen Donor Solvents on Product Distribution	2015
42	Israf Ud Din	Synthesis of Novel Catalyst CuZrO ₂ Based on Carbon Nanofibre for the Hydrogenation of CO ₂ to Methanol.	2015
43	Asad Mahmood	Effect of Sr.and Mn Dopants on the Microsture and Dielectric Properties of BaTiO ₃ Based Electroceramics.	2016
44	Sajid	Phytoremediation of Selected Heavy Metals using Indigneous Plant Species of Dir Lower	2016
45	Asadullah	Synthesi and Characterization of MgTiO ₃ based Microwave Dielectric Ceramics	2017
46	Qamar Sultana	Comparative Sorption studies of Chromate by Iron Oxide, Virgin and Iron Impregnated Activated Carbons	2019
47	Afsar Khan	Removal of Dyes from Aqueous Solutions by Plain and Functionalized Metal Oxides	2019
48	Asma	Removal of Dyes through Carbon Beads	2019
49	Rashman Naz	Phytoremediation of the Selected Heavy Metal ions using some Indigneous Plant Species of Hayatabad Industrial Estate Peshawar	2020
50	Ihtisham Wali Khan	Synthesis and Characterization of Core Shell Microsphere as Catalysts for Biodiesel Production from Wild Olive Oil and Waste Cooking Oil.	2021
51	Tooba Saeed	Adsorptive behaviour of metal organic framework towards the removal of dyes	2022
52	Tabassum Malik	Synthesis of Ternary Deep Eutectic Solvents for Extractive Denitrogenation and Desulfurization of Petro-Fuels.	2024
53	Safia Tabassum	Ultrafast Kinetic Studies of Benzene and its Derivatives using Nanosecond Pulse Radiolysis: Reactivity Trend Studies Correlated Through Density Functional Theory Ultrafast Kinetic Studies of Benzene and its Derivatives using Nanosecond Pulse Radiolysis: Reactivity Trend Studies Correlated Through Density Functional Theory	2024

Editor in Chief:

Physical Chemistry Journal, NCEPC, University of Peshawar

Editor:

World Applied Science Journal (WASJ).

Member of the Society

Member of the Journal of Chemical Society of Pakistan since 2011.

Projects Participated/Completed by Prof. Dr. Abdul Naeem as PI/Co-PI

1. Principal Investigator. Conversion of wild olive plant oil into environmentally friendly Biodiesel using biofunctional heterogeneous catalyst. Funded by HEC Via NRPU Project # 8959 Awarded 2019. Cost Rs.4.32 million. (2 years duration)
2. Co-PI: Green vs. conventional nanoparticles towards improved morphological enhanced thermal and enriched antibacterial activity of composites: A comparative study. Funded by DoST, Govt. of Khyber Pakhtunkhwa. Project # MPUI-22/HEREF/2014-15/Vol-IV/3412, Cost Rs.2.417 million (Duration 1 year)
3. Principal Investigator. Adsorption of arsenate from aqueous media by iron impregnated activated carbon. Funded by HEC via NRPU Project No.9316 Awarded 2020. Cost Rs.1.21 million. (03 years duration)
4. Co-PI: Synthesis, characterization and sorption properties of nanoparticles supported natural clays for water decontamination. Funded by HEC via NRPU Project No.8817. Awarded 2018. Cost Rs.3.291 million, (02 years duration)
5. Co-PI: Designing next generation high energy density Li based batteries & advanced super capacitors. Funded by HEC via LCF HEC No20-LCF-5/RGM/R&D/HC/2020 dated.28.5.2021. Awarded 2021. Cost Rs.39.071 million. (Duration 2 years)
6. Co-PI: Development of long life and high areal capacity rechargeable lithium sulfur batteries. Funded by HEC via NRPU No17209. Awarded 2021. Cost Rs.14.278 million (Duration 3 years)

Awards Received

Award	Name	Given by
Presidential Award 2023	Tamgha-e- Imtiaz	Govt. of Pakistan
Award 2024	Quaid-e-Azam Gold Medal	President of Sadre Istehakam Pakistan Foundation
Awards 2001 to 2008	Research Productivity Award	Ministry of Science and Technology, Govt. of Pakistan
Award 2010	Research Productivity Award	Ministry of Science and Technology, Govt. of Pakistan.
Award 2011	Research Productivity Award	Ministry of Science and Technology, Govt. of Pakistan.
Award 2012	Research Productivity Award	Ministry of Science and Technology, Govt. of Pakistan
Award 2016	Research Productivity Award	Ministry of Science and Technology, Govt. of Pakistan
Award 2017	Research Productivity Award	Ministry of Science and Technology, Govt.of Pakistan.

Presidential Award (Tamgha-i-Imtiaz)	2023
Quaid –e- Azam Gold Medal Award	2024
Best Researcher Award by UoP	2012
Research & Productivity Awards:	10 times
Research Papers:	217
Patent Granted:	05
Patent Filed:	10
Impact Factor (ISI Web of Knowledge):	900 +
Citation of Research Papers:	7592
h- Index:	44
i10-index:	122
International Book Chapters:	12
PhD/MPhil Produced:	53
Projects Completed	06
Organizer of Conference	20

International Collaboration with

1. Mr. Guo Sheng, a PhD Student from Wuhan University of Technology, Wuhan, China joined NCE in Physical Chemistry, UoP for 6 months to carry out his Ph D reasech work under the supervision of Prof. Dr. Naeem.
2. Miss Asma a PhD Student from Departmental of Fundamental and Applied Sciences, Universiti Teknology PETRONAS, **Malaysia** joined NCE in Physical Chemistry, UoP for 3 months to carry out her Ph D reasech work under the supervision of Prof. Dr. Naeem.
3. Arizona State University (ASU), Arizona, **USA**.
4. Sakarya University, **Turkey**.

Refereeing & Reviewing For the Following Journals:

1. Adsorption Science and Technology, International Journal
2. Chemical Engineering Journal, International Journal
3. Bioreseource Technology, International Journal
4. J. Chem. Soc. Pakistan
5. Physical Chemistry Journal
6. Science International
7. Chemical Engineering Journal, International Journal
8. Water Research, International Journal
9. J. Hazard Mat., International Journal
10. The Korean Journal of Chemical Engineering, International Journal
11. Materials Research Bulletin, International Journal
12. Desalination Water Treatment, International Journal
13. Desalination, International Journal
14. Arabic Journal, International Journal
15. Colloid and Surface A, International Journal
16. Water Science and Technology, International Journal
17. Surface Review Letters, International Journal
18. J. Radioanalytical & Nuclear Chemistry, International Journal
19. J. Toxicology & Environmental Health Sciences, International Journal
20. J. Polymer Engineering, International Journal
21. Applied Surface Science, International Journal
22. J. Taiwan Institute of Chemical Engineering, International Journal
23. J. Environmental Chemical Engineering, International Journal
24. Basic Res. J. Soil & Environmental Science, International Journal
25. J. Industrial & Engineerinng Chemistry, International Journal
26. Research on Chemical Intermediates, International Journal
27. African Journal of Biotechnology, International Journal
28. Energy Conversion & Management, International Journal
29. J. Inorganic & Organometallic Polymers & Materials, International Journal

30. Materials Science & Engineering B, International Journal
31. J. Thermal Analysis & Calorimetry, International Journal
32. J. Mat. Science Materials in Electronic, International Journal
33. World Applied Science Journal, International Journal
34. Separation& Purification Technology, International Journal
35. Chilean Chemical Society, International Journal
36. Physical Chemistry and Chemical Physics (PCCP)
37. PLOS ONE
38. Thin Solid Film

Course Work Offered to PhD & MPhil Students

1. Molecular Spectroscopy Course
2. Chemical and Statistical Thermodynamics Course
3. Thermochemistry Course
4. Aquatic Chemistry Course
5. Ion Exchange Course
6. Surface Chemistry
7. Heterogenous Catalysis

International Book Chapters Published

1. High-k Polymer Nanocomposites for Energy Storage Applications
Asad Mahmood, **Abdul Naeem*** and Tahira Mahmood
Book Title: Polymer Dielectrics, ISBN 978-953-51-4994-1, edited by: **Boxue Du**,
Tianjin University, China, Published May 2017, DOI: 10.5772/65944
<http://dx.doi.org/10.5772/65944>
2. Bifunctional Heterogeneous Catalyst for Biodiesel
Anita Ramli, Mohammad Farooq and **Abdul Naeem**
Book Title: Biofuel, Intech, ISBN 978-953-51-5024-4, edited by **Eduardo Jacob-Lopes**, Federal University of Santa Maria, Brazil, Published: January 25th 2017, DOI: 10.5772/65553
<http://dx.doi.org/10.5772/65553>
3. Sol-gel Derived Doped ZnO Thin Films: Processing, Properties and Applications,
Asad Mahmood, **Abdul Naeem***
Book Title: Intech, ISBN 978-953-51-4994-1, edited by Usha Chandra, Janeza, Tridine, 951000 Rijeka, Croatia, Published: July 5th, 2017, DOI: 10.5772/67857
<http://dx.doi.org/10.5772/67857>

4. Zika Virus, Microcephaly and its Possible Global Spread,
Syed Badshah, Yahia Mabkhot, **Abdul Naeem***
Book Title, InTech Open Publisher, edited by , Rijeka, Croatia,
Published, December 20th, 2017, DOI: 10.5772/intechopen.72507
<http://dx.doi.org/10.5772/intechopen.72507>
5. Preparation of Nano-Particles and their Applications in Adsorption,
Tooba Saeed, **Abdul Naeem**, Tahira Mahmood and Nazish Huma Khan
Book Title: IntechOpen, Published: December 13th 2019,
DOI:10.5772/intechopen.89534
6. Graphene/Metal Oxide Nanocomposite Usage as Photoanode in Dye-Sensitized and
Perovskite Solar Cells, Tahira Mahmood, M. Aslam, **A. Naeem**
Published: March 16th 2020, DOI: <http://dx.doi.org/10.5772/intechopen.88971>
7. Ebola, The Negative Stranded RNA Virus
A. Farman, S. L. Badshah , N.Ahmad, **A. Naeem**
Published: April 22nd, 2020, DOI: <http://dx.doi.org/10.5772/intechopen.91776>
8. Organic Inorganic Perovskites: Low-Cost-Efficient Photovoltaic Materials
Madeeha Aslam, Tahira Mahmood and Abdul Naeem
BOOK TITLE: Perovskite and Piezoelectric Materials, 2021
9. Technologies for Removal of Emerging Contaminants from Wastewater
Tahira Mahmood, Saima Momin, Rahmat Ali, Abdul Naeem and Afsar Khan
Published: May 12th, 2022, DOI: 10.5772/intechopen.104466
Book Title : **Wastewater Treatment** Edited by Muharrem Ince and Olcay Kaplan Ince
10. Design and Fabrication of Microencapsulated Phase Change Materials for
Energy/Thermal Energy Storage and Other Versatile Applications
Tahira Mahmood, Rahmat Ali and Abdul Naeem
Published: May 11th 2022, DOI: 10.5772/intech.102806
Publisher Intech Open,

Patents Granted

1. Patent Application Number: 114/2019, SI.No: 143624 **(Granted)**, Method of Removal of Organic Pollutants from Waste Water, Government of Pakistan, Intellectual Property Organization, The Patent Office, Karachi.
2. Patent Application Number: 126/2019, SI. No: 143692 **(Granted)**, A Process for the Treatment of Wastewater, Government of Pakistan, Intellectual Property Organization, The Patent Office, Karachi.
3. Patent Application Number: 849/2018, SI. No: 143729 **(Granted)**, A Process for the Production of Biodiesel. From Waste Cooking Oil, Government of Pakistan, Intellectual Property Organization, The Patent Office, Karachi.
4. Patent Application Number: 501/2012, SI. No: 143723 **(Granted)**, Government of Pakistan, Intellectual Property Organization, The Patent Office, Karachi
5. Patent Application Number: 144122 **(Granted)**, Government of Pakistan, Intellectual Property Organization, The Patent Office, Karachi

Patents Filed

1. Patent Application Number: 324/2019, Government of Pakistan, Intellectual Property Organization, The Patent Office, Karachi.
2. Patent Application Number: 504/2019, Government of Pakistan, Intellectual Property Organization, The Patent Office, Karachi.
3. Patent Application Number: 543/2019, Process for Wastewater Treatment, Government of Pakistan, Intellectual Property Organization, The Patent Office, Karachi.

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