



Dr. Naeem Akhtar
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Objective

To make a meaningful contribution as part of a dynamic and well-reputed organization in a role where my expertise in materials science and machine learning integration can drive innovation in developing **Materials for the Future**. I seek to leverage my technical proficiency, research expertise, grant acquisition experience, and leadership skills to develop cutting-edge solutions in sensing, energy, and biomedical applications. Additionally, I aim to enhance my management, decision-making, and communication skills while fostering interdisciplinary collaborations and mentoring future researchers.

Education

PhD (Doctor of Science) (2013-2016)

Graduate School of Advance Science and Engineering, Waseda University, Tokyo, Japan.

Thesis: "Nanoelectrochemical Sensors for Selective Molecular Recognition"

Working Experience

2024 ~ Present: Associate Professor: Institute of chemical sciences, Bahauddin Zakariya University, Multan, Pakistan

2022 ~ 2024: Assistant Professor: Institute of chemical sciences, Bahauddin Zakariya University, Multan, Pakistan

2018 ~ 2022: Assistant Professor: Interdisciplinary Research Centre in Biomedical Materials (IRCBM), COMSATS University Islamabad, Lahore Campus, Pakistan

2016 ~ 2017: Assistant Professor: Institute of chemical sciences, Bahauddin Zakariya University, Multan, Pakistan

Research Experience

2022 ~ Present: Developing Expertise in Energy Harvesting Applications, Including Water Splitting and Electrochemical Monitoring | Integration of Machine Learning with Materials Science | Leadership and Research

Work Styles

Self-Motivated and Proactive

Analytical and Strategic Thinking

Collaborative and Team-Oriented Approach

Work Values

Accurate Interpretation of Experimental Data

Strong Time Management & Organizational Skills

Creative Problem-Solving Approach

Leadership in Driving Innovation and Best Practices

Chemical Knowledge

Expertise in Safe Handling of Chemical Materials

Extensive Experience in Education & Training in Materials Science and Nanotechnology

Skills

Critical Thinking &

Management Project Management Charge Transfer Complex-Derived Nanoparticles Pathogen Identification Teaching Courses related to Materials Chemistry and Nanotechnology to Bachelor, Master and PhD students	Problem-Solving Scientific Writing & Technical Reporting Basic Programming: C++, Basic Python,
2018 ~ 2022: Lab Management Workshop and Symposium Coordination Instrument Procurement and Installation Material Characterization and Composition Tuning with Controlled Morphology Lab Safety Management Biomolecular Monitoring Project Management	Research & Project Management
2016 ~ 2017: Electrochemical Monitoring of Toxic Metal Ions and Compounds Teaching Undergraduate and Master student Courses in Materials Chemistry and Nanotechnology	Laboratory Management & Safety Compliance
2013 ~ 2016: Nanoelectrochemical Sensors for Selective Molecular Recognition Controlled Synthesis of Functional Materials Advanced Material Characterization Interpretation (XRD, XPS, Raman Spectroscopy, SEM, TEM, FTIR, UV-Vis) Electrochemical Monitoring of Biomolecules Expertise in Operating Analytical Instruments (SEM, TEM, UV, FTIR, Raman, Electrochemical Workstation)	Teaching & Mentorship (Materials Chemistry, Nanotechnology)
2008 ~ 2012: Synthesis of Nanoparticles and Electrochemiluminescence Analysis	Conference, Workshop & Symposium Organization

SDGs Alignment

My research aligns closely with several United Nations Sustainable Development Goals (SDGs), particularly those focused on health and environmental monitoring, clean energy, and sustainable innovation. Through the design and synthesis of advanced inorganic and hybrid nanomaterials, my work on electrochemical sensing platforms for real-time detection of biomolecules and toxic heavy metals directly contributes to improving public health and environmental safety (**SDG 3: Good Health and Well-being**, **SDG 6: Clean Water and Sanitation**). Additionally, I aim to develop efficient and cost-effective systems for electrochemical energy conversion (**SDG 7: Affordable and Clean Energy**) and solar-driven CO₂ utilization (**SDG 13: Climate Action**). Furthermore, by emphasizing the use of earth-abundant and environmentally benign materials, my research supports sustainable production and green materials development (**SDG 12: Responsible Consumption and Production**), while fostering collaborative innovation through interdisciplinary and international partnerships

Languages

English
Urdu

Hobbies

Playing Football,
Hiking

(SDG 9 & SDG 17).

Research grants

- 2023: (PI) Title: Engineering portable nano-sensors for biofilm identification and pathogen monitoring: A step toward on-site diagnosis of infectious Diseases. Funding Source: HEC. Grant Number: Ref No. 20-16236/NRPU/R&D/HEC/2021 Amount: ~ **32000 USD**
- 2019: (PI) Title: Fabrication of highly sensitive and selective electrochemiluminescence biosensor for precise monitoring of dopamine from nerve cells Funding Source: PSF-MSRT IRAN (PSF-MSRT II/Phy/P-COMSATS-Ihr (13)) Amount: ~ **4500 USD**
- 2018: (PI) Title: Fabrication of photo-electrochemical sensor to monitor H₂O₂ released by living cells. Funding Source: COMSATS-SRGP (16-53/CRGP/CUI/LHR/18/707) Amount: ~ **1100 USD**
- 2018 (PI) Title: Sensor for precise monitoring of vitamin c from saliva of gingivitis patient Funding Source: HEC-SRGP (No.21-1910/SRGP/R&D/HEC/2018) Amount: ~ **1700 USD**
- 2021 Co-PI Title: Enzyme-free detection of metabolites related to SARS-CoV-2 infection Funding Source: ATU-Net Young Researcher Grant 2021 Amount: **2400 USD**
- 2022 Co-PI Title: Development of electrochemical sensing platform for simultaneous detection of multiple trace metal ions in aqueous solution Funding Source: HEC-NRPU Amount: ~ **27000 USD**

Honor & Awards

- 2024: Guest Editor: Discover Sensors (Springer Nature): Collection Call for Papers - Emerging Trends in Machine Learning Integrated Devices for Non-Invasive Diagnostics
- 2024: PIFI Visiting Scientist China Award
- 2017: Gold Medal-Bahauddin Zakariya University Multan (ZACHO).
- 2016: Waseda university-NIMS joint graduate assistantship (~180,0 USD/month)

Research Publications (Corresponding + First Author)

1. Abdul Sami, Atiba Wahid, Shaaban M. Shaaban, Wajid Sajjad, Farhan Zafar, **Naeem Akhtar***, Muhammad Ali Khan* and Muhammad Ehsan Mazhar, ACS Applied Energy Materials, 2025, <https://doi.org/10.1021/acsaem.5c01002> (IF 5.5) (Q2)

2. Bushra Yaqub, Sadaf Sarfraz, Anam Zulfiqar, Tehreem Ul Wara, Samra Rasheed, Shahid Habib Ansari, Sehrish Hanif, Safi Ullah Khan, Mohibullah Shah, **Naeem Akhtar***, New Journal of Chemistry, 2025, <http://dx.doi.org/10.1039/D5NJ00760G>, (IF 2.7) (Q2)
3. Mohammad Waseem, Salah M. El-Bahy, Mehar Muhammad Hamza Maqbool, Noor ul Islam, Farhan Zafar, Muhammad Ali Khan*, **Naeem Akhtar***, Muhammad Sohail, Mujahid Abbas, Adel Qlayel Alkhedaidee and Cong Yu*, Journal of Materials Chemistry C, 2025, <https://doi.org/10.1039/D4TC05271D> (IF 5.7) (Q1) (ML Integration)
4. Wajid Sajjad, Eman A Ayob, Abdul Sami, Farhan Zafar, Saifullah, **Naeem Akhtar***, Muhammad Ali Khan*, Muhammad Usman Ur Rehman, Rana Abdul Shakoor*, Mohammed A. Amin, ACS Energy & Fuels, 2025, <https://doi.org/10.1021/acs.energyfuels.5c01468> (IF 5.2) (Q1) (ML Integration)
5. Farhan Zafar, Salah M. El-Bahy, Abdul Sami, Sadaf Ul Hassan*, **Naeem Akhtar***, Adel Qlayel Alkhedaide, Hailing Ma, Yao Tong*, Shuaifei Zhao, ACS Applied Materials & Interfaces, 2025, <https://doi.org/10.1021/acsami.5c00455> (IF 8.5) (Q1) (ML Integration)
6. Azza A. Al-Ghamdi, Abdul Sami, Salah M. El-Bahy, Merfat M. Alsabban, Wajid Sajjad, Ahlam I. Al-Sulami, Muhammad Waseem Fazal, Reema H. Aldahiri, Fatimah Mohammad H. Al-Sulami, Muhammad Ali Khan, **Naeem Akhtar***. Scientific Reports, 2025, 10677, <https://doi.org/10.1038/s41598-025-95130-7> (IF 3.8) (Q1)
7. Farhan Zafar, Muhammad Ali Khan, Mohamed M. El-Toony, **Naeem Akhtar***, Sadaf Ul Hassan*, Rana Abdul Shakoor, Cong Yu*. Advanced Sustainable Systems, 2025, 2400840 <https://doi.org/10.1002/adsu.202400840> (IF 6.5) (Q1) (ML Integration)
8. Ammara Fatima, Muhammad Asad, Farhan Zafar, Merfat M. Alsabban, Mehar Muhammad Hamza Maqbool, **Naeem Akhtar***, Muhammad Ali Khan*, Cong Yu*. ACS Energy & Fuel, 2025. <https://doi.org/10.1021/acs.energyfuels.4c05417> (IF 5.2) (Q1) (ML Integration)
9. Farhan Zafar, Muhammad Asad, Wajid Sajjad, Muhammad Ali Khan, **Naeem Akhtar***, Sadaf Ul Hassan, Cong Yu. International Journal of Hydrogen Energy, 2025, 384-393. <https://doi.org/10.1016/j.ijhydene.2024.12.006> (IF: 8.1) (Q1) (ML Integration)
10. Sana Riaz, Muhammad Ali Khan, Taghrid S. Alomar, Aimon Furrakh, **Naeem Akhtar***, Nimra Saher Zain, Syed Waqas Bukhari, Noshawan Adil, Najla Al-Masoud. Journal of Non-Crystalline Solids, 2025. <https://doi.org/10.1016/j.jnoncrysol.2025.123398> (IF: 3.2) (Q2)
11. Nimra Saher Zain, Ibrahim A. Shaaban, Farhan Zafar, Hafiz Muhammad Asif, Muhammad Tariq, Muhammad Ali Khan, **Naeem Akhtar***, Hafsa Kainat, Mohammad A. Assiri. Journal of Environmental Management, 2024. <https://doi.org/10.1016/j.jenvman.2024.123211> (IF: 8.0) (Q1) (ML Integration)

12. Saima Zulfiqar, Rabia Rafi, Muhammad Shahbaz Nawaz, Tariq Iqbal, Muhammad Mustehsan Bashir, Shahzad Sharif, **Naeem Akhtar***, Muhammad Yar. Materials Today Communications, 2024. <https://doi.org/10.1016/j.mtcomm.2024.111002> (IF: 3.7) (Q2)
13. Shanza Anzar, Sehrish Hanif, Ibrahim A. Shaaban, Ali Raza, Muhammad Ali Khan, Asma Naz, Hammad khalid, **Naeem Akhtar***, Lubna Sherin, Mohammed A. Assiri, Zeinhom M. El-Bahy. Microchemical Journal, 2024. <https://doi.org/10.1016/j.microc.2024.112001> (IF: 4.9) (Q1)
14. Waseem Abbas, Farhan Zafar, Manal F. Abou Taleb, Mavra Ameen, Abdul Sami, Muhammad Ehsan Mazhar, **Naeem Akhtar***, Muhammad Waseem Fazal, Mohamed M. Ibrahim, Zeinhom M. El-Bahy. Food Chemistry, 2024. <https://doi.org/10.1016/j.foodchem.2024.140395> (IF: 8.5) (Q1) (ML Integration)
15. Nimra Saher Zain; M. H. H. Mahmoud; Muhammad Imran Khan; Farhan Zafar; Surryia Manzoor; **Naeem Akhtar***; Muhammad Ali Khan; Islam H. El Azab; Zeinham M. El-Bahy. Journal of the Taiwan Institute of Chemical Engineers, 164, 105696, 2024. <https://doi.org/10.1016/j.jtice.2024.105696> (IF: 5.5) (Q1) (ML Integration)
16. Muhammad Usman Ur Rehman, Anoud Saud Alshammari, Anam Zulfiqar, Farhan Zafar, Muhammad Ali Khan, Saadat Majeed, **Naeem Akhtar***, Wajid Sajjad, Sehrish Hanif, Muhammad Irfan, Zeinhom M. El-Bahy, Mustafa Elashiry. Biosensors and Bioelectronics, 2024. <https://doi.org/10.1016/j.bios.2024.116498> (IF: 10.7) (Q1) (ML Integration)
17. Zulfiqar, A.; Zafar, F.; Yaqub, B.; Mahmoud, H. M. A.; Shah, M.; Widaa, E. M. A.; Nawaz, H.; **Naeem Akhtar.**; Nishan, U. *Microchimica Acta*, 190 (9), 355, 2023. <https://doi.org/10.1007/s00604-023-05936-3> (IF: 5.3) (Q1)
18. Mehvish Fatima, Sehrish Hanif, Eman Ramadan Elsharkawy, Farhan Zafar, Anam Zulfiqar, Muhammad Ali Khan, **Naeem Akhtar***, Zainab Fareed, Zeinhom M. El-Bahy, Zahid Shafiq, Cong Yu. Microchemical Journal, 2024. <https://doi.org/10.1016/j.microc.2024.110921> (IF: 4.9) (Q1) (ML Integration)
19. Muhammad Farhan Farid, Muhammad Usman Ur Rehman, Junaid Ur Rehman, Wajid Sajjad, Muhammad Waseem Fazal, Muhammad Ali Khan & **Naeem Akhtar***. Journal of Materials Research, 2024. <https://doi.org/10.1557/s43578-024-01286-9> (IF: 2.7) (Q2)
20. Ahlam I. Al-Sulami, Ammara Fatima, Fatimah Mohammad H. Al-Sulami, Abdul Sami, Reema H. Aldahiri, Maria Khan, Azza A. Al-Ghamdi, **Naeem Akhtar*** and Waleed Ahmed El Said*. New Journal of Chemistry, 2023. <https://doi.org/10.1039/D3NJ05380F> (IF:2.7) (Q2)
21. Reda M. El-Shishtawy, Mahmoud A. Hussein, Salih S. Al-Juaid, Muhammad Waseem Fazal, Waleed A. El-Said*, and **Naeem Akhtar****. New Journal of Chemistry, 2023. <https://doi.org/10.1039/D3NJ02322B> (IF: 2.7) (Q2)

22. Rabia Rafi, Saima Zulfiqar, Muhammad Asad, Rabia Zeeshan, Mubashra Zehra, Hamad Khalid, **Naeem Akhtar***, Muhammad Yar**. Materials Today Communications, 2023, 105914. <https://doi.org/10.1016/j.mtcomm.2023.105914> (IF: 3.6) (Q2)
23. Muhammad Waseem Fazal, Farhan Zafar, Muhammad Asad, Fatimah Mohammad H. Al Sulami, Hamad Khalid, Adel A. Abdelwahab, Muhammad Usman Ur Rehman, **Naeem Akhtar***, Waleed Ahmed El-Said, Sajjad Hussain, and Mohamed A. Shenashen; Applied Energy Materials, 2023. <https://doi.org/10.1021/acsaem.2c03439> (IF: 5.4) (Q1)
24. Nageen Shoukat, Shanza Anzar, Muhammad Asad, Ahlam I. Al-Sulami, Hamad Khalid, Aqif Anwar Choudhary, Lubna Sherin, and **Naeem Akhtar***. ACS Sustainable Chemistry & Engineering, 2023. <https://doi.org/10.1021/acssuschemeng.2c04482> (IF: 9.2) (Q1)
25. Muhammad Usman Ur Rehman; Gaber A. M. Mersal; Muhammad Farhan Farid; Azza A. Al-Ghamdi; Ahlam I. Al-Sulami; Muhammad Waseem Fazal; Mohamed M. Ibrahim; Saadat Majeed; **Naeem Akhtar***. New Journal of Chemistry, 47 (39), 18411-18418, 2023. <https://doi.org/10.1039/D3NJ03230B> (IF: 2.7) (Q2)
26. Farhan Zafar, Muhammad Waseem, Muhammad Asad, Adel A Abdelwahab, Muhammad Usman Ur Rehman, **Naeem Akhtar***, Abdullah Akhtar, and Mohamed A Shenashen. Materials chemistry and physics, 2022, 126985. <https://doi.org/10.1016/j.matchemphys.2022.126985> (IF: 4.3) (Q2)
27. Yasir Abbas, **Naeem Akhtar**, Sania Ghaffar, Ahlam I Al-Sulami, Muhammad Asad, Muhammad Ehsan Mazhar, Farhan Zafar, Akhtar Hayat, Zhanpeng Wu, Biosensors (Basel). (2022)1106 <https://doi.org/10.3390/bios12121106> (IF: 4.9) (Q1)
28. Faria Shakeel, Muhammad Waseem Fazal, Anam Zulfiqar, Farhan Zafar, **Naeem Akhtar***, Arsalan Ahmed, Hafiz Badaruddin Ahmad, Safeer Ahmed, Asad Syed, and Ali H Bahkali. RSC Advances, 12, 2022, 26390-99. <https://doi.org/10.1039/D2RA02754B> (IF: 3.9) (Q2)
29. Faria Shakeel, Muhammad Asad, Farhan Zafar, Adel A Abdelwahab, **Naeem Akhtar***, Hafiz Badaruddin Ahmad, Zahid Shafiq, and Mohamed A Shenashen. Electroanalysis, 2022. <https://doi.org/10.1002/elan.202200128> (IF: 2.7) (Q2)
30. Tayyab Masood, Muhammad Asad, Sara Riaz, **Naeem Akhtar***, Akhtar Hayat, Mohamed A. Shenashen, Mohammed M. Rahman. Materials Chemistry and Physics, 2022. (IF: 4.3) (Q2)
31. Aqsa Munawar, Farhan Zafar, Saadat Majeed, Masooma Irfan, Hidayat Ullah Khan, Ghazala Yasmin, **Naeem Akhtar***. Journal of Electroanalytical Chemistry, 2021. <https://doi.org/10.1016/j.jelechem.2021.115469> (IF: 4.5) (Q1)

32. Yasir Abbas, Shafqat Ali, Majid Basharat, Wenqi Zou, Fan Yang, Wei Liu, Shuangkun Zhang, Zhanpeng Wu, **Naeem Akhtar***, Dezhen Wu*. ACS Applied Nano Materials, 2020. <https://doi.org/10.1021/acsanm.0c02466> (IF: 5.3) (Q1)
33. Khizer Hayat, Aqsa Munawar, Anam Zulfiqar, Mahmood Hassan Akhtar, Hafiz Badaruddin Ahmad, Zahid Shafiq, Muhammad Akram, Awais Siddique Saleemi, **Naeem Akhtar***. ACS Applied Materials and Interfaces, 2020. (IF: 10.3) (Q1)
34. Khizar Hayat, Mahmood Hassan Akhtar, Awais Siddique Saleemi, Hafiz Badaruddin Ahmad, **Naeem Akhtar***. Electroanalysis, 2020. <https://doi.org/10.1002/elan.202000047> (IF: 3.07) (Q2)
35. Muhammad Asad, Anam Zulfiqar, Rizwan Raza, Minghui Yang, Akhtar Hayat, **Naeem Akhtar***. Electroanalysis, 2019. <https://doi.org/10.1002/elan.201900468> (IF: 3.07) (Q2)
36. Waseem Abbas, Qinglei Liu, **Naeem Akhtar***, Javed Ahmad, Muhammad Ehsan Mazhar, Tengfei Li, Imran Zada, Lulu Yao, Raheela Naz, Muhammad Imtiaz, Wang Zhang, Ali Amjad, Di Zhang, Jiajun Gu. Journal of Electroanalytical Chemistry, 2019. <https://doi.org/10.1016/j.jelechem.2019.113560> (IF: 4.59) (Q1)
37. Faria Khan, **Naeem Akhtar***; Nasir Jalal; Irshad Hussain; Rafal Szmi-gielsk; Muhammad Qasim Hayat; Hafiz Ahmad; Waleed A. El-Said; Minghui Yang; Hussnain Janjua; Microchimica Acta, 2019. <https://doi.org/10.1007/s00604-019-3227-x> (IF: 5.3) (Q1)
38. Waqas, Muhammad; Zulfiqar, Anam; Ahmad, H. Badar; **Naeem Akhtar**; Hussain, M.; Shafiq, Z.; Abbas, Y.; Mehmood, K.; Ajmal, M.; Yang, M. Electrochimica Acta, 2018. <https://doi.org/10.1016/j.electacta.2018.03.049> (IF: 5.38) (Q1)
39. **Naeem Akhtar**, Mohamme Y. Emran, M. A. Shenashena, H. Khalifaa, T. Osaka, A. Faheem, T. Homma b, H. Kawarada, S. A. El-Safya, b, Journal of Materials Chemistry B (2017). 7985-7996 <https://doi.org/10.1039/C7TB01803G> (IF: 7.57) (Q1)
40. **Naeem Akhtar**; El-Safy, Sherif A.; Abdelsalam, Mamdouh E.; Shenashen, Mohamed A.; Kawarada, Hiroshi, Biosensors and Bioelectronics (2015). 656-665 <https://doi.org/10.1016/j.bios.2015.10.023> (IF: 10.7) (Q1)
41. **Naeem Akhtar**; El-Safy, Sherif A.; Abdelsalam, Mamdouh E.; Kawarada, Hiroshi, Advanced Healthcare Materials, (2015). 2110-2119 <https://doi.org/10.1002/adhm.201500369> (IF: 11.092) (Q1)
42. **Naeem Akhtar**; El-Safy, Sherif A.; Abdelsalam, Mamdouh E.; Nanostructures & Nano-Objects (2015). 35-44 <https://doi.org/10.1016/j.nanoso.2015.08.001> (IF:1.09) (Q3)
43. **Naeem Akhtar**; El-Safy, Sherif A.; Khairy, Mohamed. Chemosensors (2014) 235-250; <http://doi.org/10.3390/chemosensors2040235> (IF: 4.22) (Q2)

44. **Naeem Akhtar**; El-Safty, Sherif A.; Khairy, Md; El-Said, Waleed A; Sensors and Actuators B: Chemical (2014). 158-166 <https://doi.org/10.1016/j.snb.2014.10.038> (IF: 8.0) (Q1)
45. **Naeem Akhtar**; Ahmad, Badar.; Hussain Mazhar., Asian Journal of Chemistry, (2012),2054-2056 <https://www.researchgate.net/publication/264125726> (IF: 0.45) (Q4)

Research Publications (Co-Author)

46. Abdullah Akhdhar, Abdullah S. Al-Bogami, Waleed A. El-Said, Farhan Zafar, **Naeem Akhtar**, PLOS ONE, 2025, <https://doi.org/10.1371/journal.pone.0324357> (IF 2.9) (Q1)
47. Ahmed Shahat, M.A. Mahmoud, I.M. El-Sewify, A. Reda, **Naeem Akhtar**, A. Alharbi, A. Radwan, M. Hasan, M.A. Shenashen, S.A. El-Safty. Nano Energy, 2025, 110897, <https://doi.org/10.1016/j.nanoen.2025.110897> (IF 16.8) (Q1)
48. Yousaf, Ayesha, Zhihua Zhao, **Naeem Akhtar**, Muhammad Aizaz, Maham Shahzadi. Chemical Engineering Journal, 2025. <https://dx.doi.org/https://doi.org/10.1016/j.cej.2025.161299> (IF 13.4) (Q1)
49. Waleed A. El-Said, Deia A. El-Hady, Wael Alshitari, Ziya A. Khan, **Naeem Akhtar**, Yusuke Yamauchi. Materials Chemistry and Physics, 2024. <https://doi.org/10.1016/j.matchemphys.2024.130120> (IF: 4.3) (Q2)
50. Mehmood, S.; **Naeem Akhtar**.; Arshad, M.; Azhar, U.; Ullah, S.; Waris, T. S.; Jabbar, F.; Hasan, A.; Iqbal, F.; Chaudhry, A. A.; Rehman, I. u.; Yar, M.. International Journal of Biological Macromolecules, 267, 129256, 2024. <https://doi.org/10.1016/j.ijbiomac.2024.129256> (IF: 7.7) (Q1)
51. Nawaz, R.; Hussan, Z.; Ali, F.; **Naeem Akhtar**.; Fatima, B.; Najam ul Haq, M.; Bokhari, A.; Raza Naqvi, S.; Ouladsmene, M.; Majeed, S. Fuel, 348, 128303, 2023. <https://doi.org/10.1016/j.fuel.2023.128303> (IF: 6.7) (Q1)
52. Ghafoor, M., Khan, Z.U., Nawaz, M.H., **Naeem Akhtar**., Rahim, A. and Riaz, S. Environmental Monitoring and Assessment, 195(3), p.423, 2023. <https://doi.org/10.1007/s10661-023-10966-8> (IF: 2.9) (Q1)
53. Aiza Azam, Gulzar Muhammad, Muhammad Shahbaz Aslam, Muhammad Mudassir Iqbal, Muhammad Arshad Raza, **Naeem Akhtar**, Muhammad Ajaz Hussain, Noreen Sajjad, Asad Syed, and Ali H Bahkali. Applied Organometallic Chemistry, e6923, 2022. <https://doi.org/10.1002/aoc.6923> (IF: 3.7) (Q1)
54. Muhammad Azhar Hayat Nawaz, Muhammad Waseem Fazal, **Naeem Akhtar**, Mian Hasnain Nawaz, Akhtar Hayat, and Cong Yu. Biosensors, 12, 2022, 844. <https://doi.org/10.3390/bios12100844> (IF: 5.2) (Q2)
55. Elham S Aazam, **Naeem Akhtar**, and Waleed Ahmed El-Said. Materials chemistry and physics, 2022, 126884. <https://doi.org/10.1016/j.matchemphys.2022.126884> (IF: 4.3) (Q2)

56. Muhammad Azhar Hayat Nawaz, Mahmood Hassan Akhtar, Jia Ren, **Naeem Akhtar**, Akhtar Hayat, and Cong Yu. Nanotechnology, 33, 2022, 485502. (IF: 2.9) (Q2)
57. Sehrish Bilal, Shaifa Saleem, **Naeem Akhtar**, Amtul Jamil Sami, Gultekin Gokce, and Akhtar Hayat. JSFA Reports, 2022. <https://doi.org/10.1002/jsf2.85> (Q1)
58. Zahra Batool, Gulzar Muhammad, Muhammad Mudassir Iqbal, Muhammad Shahbaz Aslam, Muhammad Arshad Raza, Noreen Sajjad, Muhammad Abdullah, **Naeem Akhtar**, Asad Syed, Abdallah M. Elgorban, Salim S. Al-Rejaie & Zahid Shafiq. Scientific Reports, 2022. <https://doi.org/10.1038/s41598-022-10495-3> (IF: 3.8) (Q1)
59. Maria Zaib, Tabinda Malik, **Naeem Akhtar**, Tayyaba Shahzadi. Waste and Biomass Valorization, 2022. <https://doi.org/10.1007/s12649-021-01665-x> (IF: 3.7) (Q2)
60. Maria Zaib, A sarfraz, **Naeem Akhtar**, T Shahzadi. International Journal of Environmental Science and Technology, 2022. <https://doi.org/10.1007/s13762-021-03809-x> (IF: 2.8) (Q2)
61. Mazhar, Muhammad Ehsan, Muhammad Bilal, Abdul Waheed, Javed Ahmad, Imran Khan, Waseem Abbas, **Naeem Akhtar**. Physica Scripta 96, no. 12, 2021, 125822. <https://doi.org/10.1088/1402-4896/ac237b> (IF: 2.6) (Q2)
62. Amara, Umay, Sara Riaz, Khalid Mahmood, **Naeem Akhtar**, Muhammad Nasir, Akhtar Hayat, Muhammad Khalid, Muhammad Yaqub, and Mian Hasnain Nawaz. RSC advances 11, no. 40, 2021, 25084-25095. <https://doi.org/10.1039/d1ra03908c> (IF: 3.9) (Q2)
63. Aqsa Khan, Muhammad Azhar Hayat Nawaz, **Naeem Akhtar**, Rizwan Raza, Yu Cong, Silvana Andreescu, Akhtar Hayat. Applied Surface Science, 2021. <https://doi.org/10.1016/j.apsusc.2021.150647> (IF: 6.7) (Q1)
64. Sadaf Hashmi, Samra Khan, Zahid Shafiq, Parham Taslimi, Muhamamd Ishaq, Nastaran Sadeghian, Halide Sedef Karaman, **Naeem Akhtar**, Muhamamd Islam, Asnuzilawati Asari, Habsah Mohamad, İlhami Glucan. Bioorganic Chemistry, 2020. <https://doi.org/10.1016/j.bioorg.2020.104554> (IF: 4.5) (Q1)
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