



Azhar Mahmood

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Education

- 08/2013 ~ 06/2017 Ph.D., Department of Chemistry, Tsinghua University, Beijing, China
Thesis: Multimetallic Nanosheets for Fuel Cells
Supervisor: Prof. Xun Wang
- 02/2011 ~ 04/2013 M.Phil., Department of Chemistry, The IUB Bahawalpur, Pakistan
Thesis: Synthesis and characterization of Magnetic materials
- 08/2006 ~ 07/2010 M.Sc., Department of Chemistry, BZU Multan, Pakistan
Thesis: Shape-controlled synthesis of multimetallic alloy nanocrystals

Working Experience

- 2022 ~ Present Distinguished Lecturer
- Guangzhou University, China
- 2019 ~ 2021 Post Doctorate:
- Guangzhou University, China
- 2017 ~ 2019 Post Doctorate:
- Tsinghua-Berkeley, Tsinghua University, China

Research Experience

- 2017 ~ Present - Structure controlled synthesis of layered-double-hydroxides
- Integration of conducting-polymer with layered-double-hydroxides
- 2013 ~ 2017 - Controlled synthesis of ultrathin two-dimensional metal alloy nanosheets
- Synthesis of precise noble metal based multi-dimensional nanocrystals
- 2006 ~ 2013 - Hydrothermal synthesis of multimetallic alloy magnetic nanocrystals

Skill

Mastery of nanomaterial synthesis (hydrothermal, wet chemistry)
Experienced operation of high resolution transmission electron microscope
Performing thermal, electrochemical catalysis alone
Patient and skillful teaching of chemistry

Linguistic

English	Excellent
Urdu	Excellent
Arabic	Familiar
Chinese	Familiar

Awards

- 2020 Fellowship of China Postdoctoral Science Foundation, Funding number: 2020M672567
- 2020 Postdoctoral International Exchange Award, Guangzhou University (China)
- 2016 Guanghua Scholarship to Outstanding Students of Chemistry, Tsinghua University (China)
- 2013 CSC Postgraduate Scholarship (China)

Publications

Azhar Mahmood has corporately published 33 papers in SCI journals including ACS-Catalysis., *Chemistry of Materials*, *Chemical Science*, *Chemical Communications*, *Electrochemical Energy Reviews*, *Catalysis Today*, *Nanoscale*, *Advanced Materials Interfaces* and *Advanced Functional Materials*.

1. **Azhar Mahmood**.; Dequan He, Bolin Zhao, Shamraiz Hussain Talib, Weng-Chon Cheong, Zi-Ang Nan, Ying He, Dongxue Han,* Xun Wang,* and Li Niu*. *Advanced Functional Materials*,2022,2202639. **(IF. 19.924)**
2. **Azhar Mahmood**, * Dequan He, Shamraiz Hussain Talib, Ying He, Zhongqian Song, Liu zhenbang, Dongxue Han,* and Li Niu*. *Advanced Functional Materials*, DOI:10.1002/adfm.202205223. **(IF. 19.924)**
3. **Azhar Mahmood**.; Lin, H.; Xie, N; Wang, Xun. *Chemistry of Materials* 2017, 29 (15), 6329–6335. **(IF. 10.508)**
4. **Azhar Mahmood**.;Xie, N.; Din, M. A. U.; Saleem, F.; Lin, H.; Wang, Xun. *Chemical Science* 2017, 8, 4292-4298. **(IF. 9.969)**
5. **Azhar Mahmood**.; Saleem, F.; Lin, H.; Ni, B.; Wang, Xun. *Chemical Communications* 2016,52, 10547-10550. **(IF. 6.065)**
6. **Azhar Mahmood**, Qiangmin Yu, Yuting Lu, Zhiyuan Zhang, Chi Zhang, Ling Qiu and Bilu Liu., , *Nanoscale*, 2020,12, 10751–10759. **(IF. 8.3)**
7. **Azhar Mahmood**; Nanhong Xie; Bolin Zhao; Lijie Zhong; Yuwei Zhang; Li Niu* *Advanced Materials Interfaces*, 2021, 2100197. **(IF. 6.38)**
8. **Azhar Mahmood**, Bolin Zhao, Nanhong Xie*, Li Niu*, *Nanoscale*, 2020,12, 10751–10759. **(IF.8.3)**
9. **Azhar Mahmood**, Bolin Zhao, Muhammad Sufyan Javed,* Dequan He, Weng-Chon Cheong, Dongxue Han,* and Li Niu* *Macromol. Rapid Commun.* 2022, 2100905. **(IF. 5.06)**
10. **Azhar Mahmood**.; Warsi, M. F.; Ashiq, M. N.; Sher, M., *Materials Research Bulletin* 2012,47, 4197-4202. **(IF. 5.6)**
11. **Azhar Mahmood**.; Warsi, M. F.; Ashiq, M. N.; Ishaq, M., *Journal of Magnetism and Magnetic Materials* 2013,327, 64-70. **(IF. 3.09)**
12. **Azhar Mahmood**.; Nadeem, M.; Bashir, B.; Shakir, I.; Ashiq, M. N.; Ishaq, M.; Jabbar, A.; Parveen, R.; Shahid, M.; Warsi, M. F., *Journal of Magnetism and Magnetic Materials* 2013,348, 82-87. **(IF. 3.09)**
13. Qiangmin Yu· Yuting Luo · **Azhar Mahmood** · Bilu Liu · Hui-Ming Cheng. *Electrochemical Energy Reviews* 2019,2, 373- 394. **(IF. 32.8)**
14. Yan, B.; Tao, L.; **Azhar Mahmood**.; Liang, Y.; Xu, B.-Q., *ACS Catalysis* 2017,7 538–550 **(IF. 13.7)**

Publication (continue)

15. L. Zhong, D. He, J. Xie, J. Zhong, Z. Kang, X. Yang, P. Liu, Z. Sun, Azhar Mahmood, and L. Niu, Chemical Engineering Journal 435 (2022) 135105. **(IF. 16.744)**
16. Yan, B.; Azhar Mahmood.; Liang, Y.; Xu, B.-Q., Catalysis Today 2016,269, 65-73. **(IF. 6.566)**
17. Sultan, A.; **Azhar Mahmood.**; Goraya, N. K.; Qureshi, A. M.; Ahmad, I.; Ashiq, M. N.; Shakir, I.; Warsi, M. Journal of Alloys and Compounds 2014,585, 790-794. **(IF. 6.36)**
18. Ahmad, B.; **Azhar Mahmood.**; Ashiq, M. N.; Malana, M. A.; Najam-Ul-Haq, M.; Ehsan, M. F.; Warsi, M. F.; Shakir, I., Journal of Alloys and Compounds 2014,590, 193-198. **(IF. 6.36)**
19. Ijaz, M.; **Azhar Mahmood.**; Khan, M. A.; Hussain, A.; Sultan, A.; Mahmood, A.; Chughtai, A. H.; Ashiq, M. N.; Warsi, M. F. Journal of Magnetism and Magnetic Materials 2016,404, 257-264. **(IF.3.09)**
20. Ali, R.; **Azhar Mahmood.**; Khan, M. A.; Chughtai, A. H.; Shahid, M.; Shakir, I.; Warsi, M. F., Journal of Alloys and Compounds 2014,584, 363-368. **(IF. 6.36)**
21. Malik, H.; **Azhar Mahmood.**; Mahmood, K.; Lodhi, M. Y.; Warsi, M. F.; Shakir, I.; Wahab, H.; Asghar, M.; Khan, M. A., Ceramics International 2014,40, 9439-9444. **(IF. 5.53)**
22. Shakoor, S.; Ashiq, M. N.; Malana, M. A.; **Azhar Mahmood.**; Warsi, M. F.; Najam-ul-Haq, M.; Karamat, N. Journal of Magnetism and Magnetic Materials 2014,362, 110-114. **(IF. 3.09)**
23. Khan, M. A.; Sabir, M.; **Azhar Mahmood.**; Asghar, M.; Mahmood, K.; Khan, M. A.; Ahmad, I.; Sher, M.; Warsi, M. F., Journal of Magnetism and Magnetic Materials 2014,360, 188-192. **(IF. 3.09)**
24. Anwar, Z.; Khan, M. A.; **Azhar Mahmood.**; Asghar, M.; Shakir, I.; Shahid, M.; Bibi, I.; Warsi, M. F., Journal of Magnetism and Magnetic Materials 2014,355, 169-172. **(IF. 3.09)**
25. Khan, M. A.; Khan, K.; **Azhar Mahmood.**; Murtaza, G.; Akhtar, M. N.; Ali, I.; Shahid, M.; Shakir, I.; Warsi, M. F., Ceramics International 2014,40 (8), 13211-13216. **(IF. 5.53)**
26. Choudhry, Q.; Khan, M. A.; Nasar, G.; **Azhar Mahmood.**; Shahid, M.; Shakir, I.; Warsi, M. F., Journal of Magnetism and Magnetic Materials 2015,393, 67-72. **(IF. 3.09)**
27. Ali, R.; Khan, M. A.; **Azhar Mahmood.**; Chughtai, A. H.; Sultan, A.; Shahid, M.; Ishaq, M.; Warsi, M. F., Ceramics International 2014,40 (3), 3841-3846. **(IF. 5.53)**
28. Lodhi, M. Y.; Mahmood, K.; **Azhar Mahmood.**; Malik, H.; Warsi, M. F.; Shakir, I.; Asghar, M.; Khan, M.A. Current Applied Physics 2014,14 (5), 716-720. **(IF. 2.85)**
29. A. Zubair, Z. Ahmad, **Azhar Mahmood**, W.C Cheong, I.Ali, M. Khan, A.H. Chughtai, M.N Ashiq. Results in Physics 7 (2017) 3203–3208. **(IF. 4.56)**
30. M.Mustaqeem, T.A. Saleh, A.Rehman, M.F Warsi, **Azhar Mahmood**, A.Sharif, S. Akther. Arabian Journal of Chemistry 13, (2018) 3246-3254. **(IF. 6.21)**
31. M.Ahmad, M.Khan, **Azhar Mahmood**, S. Liu, A.H Chughtai, W.C Cheong, B.Akram, G.Nasar. Ceramics International 44 (2018) 5433–5439 **(IF. 5.53)**
32. Javed, M. S.; Najam, T.; Hussain, I.; Shah, S. S. A.; Ibraheem, S.; **Azhar Mahmood**; Imran, M.; Assiri, M. A.; Siyal, S. H. J. M. L., Materials Letters, 2021,303, 130478. **(IF. 3.57)**

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33. H. Gao, S. Zhu, Y. Kang, D. A. Dinh, K. S. Hui, F. Bin, X. Fan, F. Chen, **Azhar Mahmood**, *ACS Appl. Energy Mater.* 2022, 5, 2, 1662-1671 **(IF. 6.95)**
34. Xue Sui, Hanchu Chen, Hui Wang, **Azhar Mahmood**, Yanyan Li, Zihui Li, Teng Hou, Haifeng Lin,* , Shaoxiang Li, Lei Wang, *Inter.J.Hydrogen Energy* 2022,47, 27, 13386-13398, **(IF. 7.139)**