

Mr. AJAZ AHMAD WANI

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Experience and Skills

1. Design and development of polymer-based biodegradable nanomaterials for water treatment.
2. Modification of organic-inorganic ion exchanger and superparamagnetic nanomaterials.
3. Well-versed with spectroscopic, structural, and morphological characterization techniques.
4. Risk Assessment of Metal Contamination in Soil and Groundwater.

Professional Experience

Ph.D. fellow (November 2016 to present): Senior research fellow, research topic entitled "Synthesis, characterization of Nanohybrid materials and their applications." Department of Chemistry, AMU, Aligarh India

Educational Qualifications

1. Ph.D. in Chemistry (November 2016 to present) entitled "Synthesis, characterization of Nanohybrid materials and their applications" from Aligarh Muslim University, Aligarh, AMU, Aligarh U.P, India
2. Master of Science in Chemistry (M. Sc.) 2014, Jiwaji University Gwalior, M.P, India
3. Bachelor of Science (B. Sc. (Hons)) 2011, Kashmir University, J&K, India

Fellowship achieved

- Received Junior Research Fellowship (from 2019 to 2021) from CSIR-New Delhi, India.
- Received Senior Research Fellowship (from 2021 to present) from CSIR-New Delhi, India

Publications: Citations: **80**; h-index: **4**; i10-index: **3**; *Corresponding author

Published - 7, Communicated – 3

S.No.	Published articles in Journals	IF
1.	Wani, Ajaz Ahmad , Amjad Mumtaz Khan, Yahiya Kadaf Manea, Mohammad Shahadat, Ziauddin Ahammad Shaikh, and Syed Wazed Ali. "Graphene-supported organic-inorganic layered double hydroxides and their environmental applications: A review." <i>Journal of Cleaner Production</i> (2020): 122980.	9.3
2.	Wani, Ajaz Ahmad , Amjad Mumtaz Khan, Yahiya Kadaf Manea, Mansour AS Salem, and Mohammad Shahadat. "Selective adsorption and ultrafast fluorescent detection of Cr (VI) in wastewater using neodymium-doped polyaniline supported layered double hydroxide nanocomposite." <i>Journal of Hazardous Materials</i> 416 (2021): 125754.	10.5
3.	Wani, Ajaz Ahmad , Amjad Mumtaz Khan, Yahiya Kadaf Manea, and Mansour A.S Salem. "Enhanced photocatalytic degradation of organic dyes from aqueous environment using neodymium-doped mesoporous layered double hydroxide." <i>Journal of Rare Earths</i> (2021).	3.7

4.	Yahiya Kadaf Manea, Amjad M.T Khan, Mohsen T.A Qashqoosh Ajaz Ahmad Wani , and Mohammad Shahadat, Ciprofloxacin-supported chitosan/polyphosphate nanocomposite to bind bovine serum albumin: its application in drug delivery, Journal of Molecular Liquids 292 (2019) 111337	6.1
5.	Manea, Yahiya Kadaf, Afreen Banu, Mohsen TA Qashqoosh, Amjad Mumtaz Khan, Faiza MA Alahdal, Ajaz Ahmad Wani , Mansour AS Salem, and Saeeda Naqvi. "Interaction of AMOT@ CS NPs and AMOT drug with bovine serum albumin: Insights from spectroscopic and molecular docking techniques." Chemical Physics 546 (2021): 111139.	2.34
6.	Manea, Yahiya Kadaf, Amjad Mumtaz Khan, Ajaz Ahmad Wani , Mohsen TA Qashqoosh, Mohammad Shahadat, and Mansour AS Salem. "Hydrothermally synthesized mesoporous CS-g-PA@ TSM functional nanocomposite for efficient photocatalytic degradation of Ciprofloxacin and treatment of metal ions." Journal of Molecular Liquids 335 (2021): 116144.	6.1
7.	Manea, Yahiya Kadaf, Amjad Mumtaz Khan, Ajaz Ahmad Wani , Mansour AS Saleh, Mohsen TA Qashqoosh, Mohammad Shahadat, and Mashallah Rezakazemi. "In-grown flower-like Al-Li/Th-LDH@ CNT nanocomposite for enhanced photocatalytic degradation of MG dye and selective adsorption of Cr (VI)." Journal of Environmental Chemical Engineering 10, no. 1 (2022): 106848.	5.9
8.	Wani, Ajaz Ahmad , Amjad Mumtaz Khan, Yahiya Kadaf Manea, and Mohammad Shahadat Synthesis, Characterization of Superparamagnetic Fe ₃ O ₄ -MoS ₂ @Chitosan Nanohybrid material and Its Application In Wastewater Treatment. (Communicated).	

Book Chapters (1)

1. Shahadat, Mohammad, **Ajaz Ahmad Wani**, Yahiya Kadaf Manea, Rohana Adnan, Shaikh Ziauddin Ahammad, and S. Wazed Ali. "Heavy metals scavenging using multidentate/multifunctional aerogels and their composites." **In Advances in Aerogel Composites for Environmental Remediation**, pp. 275-296. Elsevier, 2021.

Conferences and Seminars: -

- **Ajaz Ahmad Wani**, Amjad Mumtaz Khan, Yahiya Kadaf Manea, Mansour A S Salem, "Polyaniline (PANI) Supported 2D Nanomaterial for Efficient Removal of Cr(VI) from Aqueous Solution". International Conference on Emerging Trends in Chemical Sciences & ETCS-ACS Joint Symposium: Department of Chemistry, AMU, Aligarh (14-16 February 2020).
- **Ajaz Ahmad Wani**, Amjad Mumtaz Khan, Yahiya Kadaf Manea "A Novel Layered Double Hydroxide, Removal of Toxic Pollutants," "International Conference on Recent Trends in Chemical Sciences" School of Studies in Chemistry Jiwaji University Gwalior M.P, February, 15-17, 2018.
- **Ajaz Ahmad Wani**, Amjad Mumtaz Khan, Yahiya Kadaf Manea "Graphene Oxide Supported Layered Double Hydroxides as Potential Candidates for Adsorption of Heavy Metals," National Conference on Emerging Trends in Chemical Sciences, Department of Chemistry, AMU Aligarh, 24-25 February 2018.
- Participated in National Workshop organized by CEDMAP, Sponsored by M.P. Council of Science and Technology, Bhopal on "Intellectual Property Rights" held on March 7, 2014, at Jiwaji University Gwalior M.P.

- Participated in the ACS Webinar "Science, Technology, and Innovation: Key Drivers for Aatmanirbhar Bharat" on December 23, 2021.

Instruments Handled

- ICP-MS, GC-MS, FTIR, PXRD, SEM, TEM, TGA-DTA/DSC, UV-vis, HPLC, LC-MS, FAAS, zeta sizer,

Languages known

- English

References

Dr. Amjad M.T. Khan

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Dr. Mohammad Shahadat

Senior Lecturer

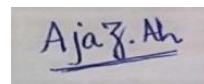
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DECLARATION:

I hereby declare that all the information given above about me is true to the best of my knowledge.

Date: February 18, 2022

Place: Aligarh, India



(Ajaz Ahmad Wani)