Resume

Dr. Waheed Ahmad Khanday

Designation: Assistant Professor

Subject: Chemistry

Area of Specialization: Physical/Inorganic Chemistry **Research area:** Surface Chemistry (Catalysis, Adsorption, Wastewater treatment, Waste Management, Zeolites, Activated Carbon, Zeoliteactivated Carbon composites, Supramolecular Beads, etc.)

Teachingarea:SurfaceChemistry;Thermodynamics;Chemical Kinetics;Chemical &Phaseequilibrium;Electrochemistry&Redoxreactions;Solid State,Liquid State &Gaseous State;Photochemistry,etc.

College: Government Degree College, Anantnag

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Phone: +91-9906845272

Date of Appointment: 06-04-2017

	Research Experience		
Research Stage	Title of the Work/Thesis	University where the work was carried out	Year
Ph.D (Chemistry)	To Study synthesis and characterization of zeolites and their role as catalysts in Synthesis of biologically active compounds	DRDE, Gwalior/ Jiwaji University	2011-14
Post-Doctoral Fellowship	Synthesis of zeolites from low cost materials such as oil palm ash, etc, to be used as catalyst for pyrolysis of Agricultural waste to bio- fuels	Universiti Sains Malaysia(USM), Malaysia	2016-17

Desearch Experience

Summary

- After obtaining Master's Degree in Chemistry, Dr. Khanday joined Ph.D program under the supervision of Prof. RadhaTomar in the area of surface chemistry and the title of his work was, "To Study synthesis and characterization of zeolites and their role as catalysts in synthesis of biologically active compounds" which he successfully completed in June 2014. He carried out most of his lab work at Protective Device Division, Defense Research Development Establishment (DRDE), Gwalior, India where he worked as Junior Research Fellow (JRF) between 2011-2013 in connection with the Major Research Project entitled "Synthesis, Characterization and applications of zeolites" funded by Defense Research Development Organization (DRDO).During the collaborative project he worked with Dr. S. Chandrasekhar, Scientist E, over desorption and kinetics of chemical warfare agents with specific to organophosphorous compounds.
- During his Ph.D., he has synthesized different zeolites, converted them successfully into proton and various metal ion-exchanged catalytic forms and carried out catalytic studies to synthesize biologically active compounds using various ion-exchanged forms of zeolites. Also remediations of some environmental problems were studied using zeolites such as adsorption and thermal desorption of DMMP from environment and sorption of toxic metal ions from waste water. He also got acquainted and learnt various techniques like Gas Chromatography, Temperature Programmed Desorption, IR Spectroscopy, Cyclic Voltammetery, BET Surface area analysis, etc.
- He has worked as Post-Doctoral Research fellow in School Of Chemical Engineering, Universiti Sains Malaysia, under the supervision of Prof. Bassim H. Hameed on "Synthesis of zeolites from low cost materials such as oil palm ash etc to be used as catalyst for pyrolysis of agricultural waste to bio-fuels".
- Dr. Khanday has published more than 30 research articles in high quality ISI indexed journals (almost all Q1). He had also delivered paper and poster presentations in more than 10 national and international Conferences. He is also reviewer of more than 20 journals of Elsevier publication like catalysis communication, microporous and mesoporous materials, material engineering A, B & C being few among them.
- His area of research interest is synthesis of porous materials particularly zeolites, activated carbon, composites, mica minerals, etc. He also focuses on surface science and modification of these materials for various applications especially in surface catalysis, adsorption and detoxification of environment. He is also interested to work on organic synthesis under green technology using heterogeneous catalysts.

Research Publications

S. No	Name of authors, title, year, Vol. No. and Page Nos.	Journal and Publisher	ISSN No.	Impact Factor
1	Porous carbon-based material from fish scales for the adsorption of tetracycline antibiotics M Islam, BH Hameed, MJ Ahmed, WA Khanday, MA Khan, F Marrakchi (2022) 1-10	Biomass Conversion and Biorefinery Springer	2190-6823	4.050
2	A comprehensive review on green perspectives of electrocoagulation integrated with advanced processes for effective pollutants removal from water environment A Othmani, A Kadier, R Singh, C A Igwegb, M Bouzid, Md O Aquatar, W A Khanday, M E Bote, F Damiri, Ö Gökkuş, F Sher	Environmental Research Elsevier	0013-9351	8.431
3	Catalytic efficiency of various ion- exchanged forms of Erionite zeolite for the synthesis of 2-methylquinoxaline WA Khanday , SA Khanday, M Danish, R Tomar 9 (2022) 100261	Applied Surface Science Advances Elsevier	2666-5239	Not Computed Yet
4	Novel green adsorbents for removal of aniline from industrial effluents: A review S Ghosh, A Malloum, C Bornman, A Othmani, C Osagie, Z K Esfahani, W A Khanday , S Ahmadi, M H Dehghani 345 (2022) 118167	Journal of Molecular Liquids Elsevier	2190-6823	6.633
5	Preparation and characterization of banana trunk activated carbon using H_3PO_4 activation: A rotatable central composite design approach M Danish, Z Pin, L Ziyang, T Ahmad, S Majeed, ANA Yahya, WA Khanday , HPSA Khalil 282 ((2022) 125989	Materials Chemistry and Physics Elsevier	0254-0584	4.778
6	Continuous biodiesel production: A review of advances in catalysis, microfluidic and cavitation reactors JA Okolie, JI Escobar, G Umenweke, W Khanday, PU Okoye 307 (2022) 121821	Fuel Elsevier	0016-2361	8.035
7	Microporous Erionite-activated Carbon Composite From Oil Palm Ash for Doxycycline Antibiotic Removal WA Khanday , SA Khanday, MA Shah, M Danish, PU Okoye (2021) 1-15	Environmental Processes Springer	2198-7505	3.06

9	Box-Behnken optimization of glycerol transesterification reaction to glycerol carbonate over calcined oil palm fuel ash derived catalyst P.U.Okoye, S.Wang, W.A.Khanday , S. Li, T. Tang, L. Zhang 146 (2020) 2676-2687 Application of erionite as an adsorbent for Cd ²⁺ , Cu ²⁺ , and Pb ²⁺ ions in water WA Khanday , SA Khanday, M Danish	Renewable Energy Elsevier Desalination And Water Treatment	0960-1481	8.634
	205 (2020) 328-335	Taylor & Francis		
10	Single-Step pyrolysis of phosphoric acid- activated chitin for efficient adsorption of cephalexin antibiotic WA Khanday , MJ Ahmed, PU Okoye, EH Hummadi, BH Hameed 280 (2019) 255-259	Bioresource Technology Elsevier	0960-8524	11.889
11	Zeolite-hydroxyapatite-activated oil palm ash composite for antibiotic Tetracycline adsorption W.A.Khanday , B.H.Hameed 215 (2018) 499-505	Fuel Elsevier	0016-2361	8.035
12	Optimization of banana trunk- activated carbon production for methylene blue- contaminated water treatment Mohammed Danish, Tanweer Ahmad, W. N. A. W. Nadhari, Mehraj Ahmad, Waheed Ahmad Khanday , Lou Ziyang, Zhou Pin 8 (2018) 9	Applied Water Science Springer	2190-5495	5.411
13	Biodiesel byproduct glycerol upgrading to glycerol carbonate over lithium–oil palm ash zeolite W.A. Khanday , P.U. Okoye, B.H. Hameed 151 (2017) 472-480	Energy Conversion and Management Elsevier	0196-8904	11.533
14	Dynamic cum batch adsorption of a vesicant CWA (2-chloroethylethylsulfide) over synthetic erionite Waheed Ahmad Khanday 244 (2017) 15-20	Microporous and Mesoporous Materials Elsevier	1387-1811	5.876
15	Cross-linked beads of activated oil palm ash zeolite/chitosan composite as a bio- adsorbent for removal of methylene blue and acid blue 29 dyes W.A. Khanday , A. Asif, B.H. Hameed 95(2017) 895–902	International Journal of Biological Macromolecules Elsevier	0141-8130	8.025
16	Mesoporous zeolite-activated carbon composite from oil palm ash as an effective adsorbent for methylene blue W.A. Khanday , F. Marrakchi, B.H. Hameed 70 (2017) 32–41	Journal of the Taiwan Institute of Chemical Engineers Elsevier	1876-1070	5.477

17	Application of Optimized Large Surface Area Date Stone (Phoenix Dactylifera) Activated Carbon for Rhodamin B Removal: Box-Behnken Design Approach M. Danish, W.A. Khanday , R. Hashim, N. Syuhada, M.N. Akhtar, M. Nizami <i>139 (2017) 280–290</i>	Ecotoxicology and Environmental Safety Elsevier	0147-6513	7.129
18	Mesoporous-activated carbon prepared from chitosan flakes via single-step sodium hydroxide activation for the adsorption of methylene blue. F. Marrakchi, Muthanna J. Ahmed, W.A. Khanday , M. Asif, B.H. Hameed <i>98 (2017) 233–239</i>	International Journal of Biological Macromolecules Elsevier	0141-8130	8.025
19	Mesoporous activated coconut shell- derived hydrochar prepared via hydrothermal carbonization-NaOH activation for methylene blue adsorption Md. Azharul Islam, M.J. Ahmed, W.A. Khanday , M. Asif, B.H. Hameed 203 (2017) 237–244	Journal of Environmental Management Elsevier	0301-4797	8.910
20	High-surface-area and nitrogen-rich mesoporous carbon material from fishery waste for effective adsorption of methylene blue F. Marrakchi, M. Auta, W.A. Khanday , B.H. Hameed 321 (2017) 428–434	Powder Technology Elsevier	0032-5910	5.64
21	Mesoporous activated carbon prepared from NaOH activation of rattan (<i>Lacosperma secundiflorum</i>) hydrochar for methylene blue removal Md. Azharul Islam, M.J. Ahmed, W.A. Khanday , M. Asif, B.H. Hameed <i>138 (2017) 297–285</i>	Ecotoxicology and Environmental Safety Elsevier	0147-6513	7.129
22	Mesoporous carbonaceous material from fish scales as low-cost adsorbent for reactive orange 16 adsorption F. Marrakchi, Muthanna J. Ahmed, W.A. Khanday , M. Asif, B.H. Hameed 71(2017) 47–54	Journal of the Taiwan Institute of Chemical Engineers Elsevier	1876-1070	5.477
23	Nanoporous activated carbon prepared from karanj (Pongamiapinnata) fruit hulls for methylene blue adsorption Md. Azharul Islam, S. Sabar, A. Benhouria, W.A. Khanday , M.Asif, B.H.Hameed 74 (2017) 96–104	Journal of the Taiwan Institute of Chemical Engineers Elsevier	1876-1070	5.477
24	Catalytic pyrolysis of oil palm mesocarp fibre on a zeolite derived from low-cost oil palm ash Waheed Ahmad Khanday , G. Kabir, B.H. Hameed <i>127 (2016) 265-272</i>	Energy Conversion and Management Elsevier	0196-8904	11.533

25	Cross-linked chitosan/sepiolite composite for the adsorption of methylene blue and reactive orange 16 F. Marrakchi, W.A. Khanday , A. Asif, B.H. Hameed 93 (2016) 1231–1239	International Journal of Biological Macromolecules Elsevier	0141-8130	8.025
26	Polypyrrole and its composites with various cation exchanged forms of Zeolite X and their role in sensitive detection of Carbon monoxide Rawoof A. Naikoo, Sami U. Bhat, Muzzaffar A.Mir, Radha Tomar, Waheed A. Khanday , P. Dipak & DineshCTiwari 6 (2016) 99202-99210	RSC Advances RSC	2046-2069	4.036
27	Conversion of zeolite–A in to various ion- exchanged catalytic forms and their catalytic efficiency for the synthesis of benzimidazole. Waheed Ahmad Khanday , RadhaTomar 43 (2014) 141–145	Catalysis Communications Elsevier	1566-7367	3.51
28	Dynamic adsorption of DMMP over synthetic zeolite-Alpha Waheed Ahmad Khanday , Sheikh Abdul Majid, S. Chandra Shekar, Radha Tomar 7 (2014) 115–123	Arabian Journal of Chemistry Elsevier	1878-5352	6.212
29	Synthesis and characterization of various zeolites and study of dynamic adsorption of dimethyl methyl phosphate over them Waheed Ahmad Khanday , Sheikh Abdul Majid, S. Chandra Shekar, RadhaTomar <i>48 (2013) 4679–4686</i>	Materials Research Bulletin Elsevier	0025-5408	5.6
30	Study of sorption of metal oxoanions from waste water on surfactant modified analog of laumontite Preeti Gupta, Waheed Ahmad Khanday , Sheikh Abdul Majid, Vandna Kushwa, S.S. Tomar, RadhaTomar 1(2013) 510–515	Journal of Environmental Chemical Engineering Elsevier	2213-3437	7.968
31	Study of sorption of Pb ²⁺ , Cd ²⁺ , Zn ²⁺ and Cu ²⁺ from waste water on synthetic analogues of clintonite W.A. Khanday , S.K.Singh, J. Bhaudoriya, S.A. Majid, S.S. Tomar, and RadhaTomar 2012, Vol. 74, No. 5, pp. 573–581. 2012.	Colloid Journal Springer	1608-3067	1.119
32	Synthesis of 1, 5-Benzodiazepine and Its Derivatives by Condensation Reaction Using H-MCM-22 as Catalyst Sheikh Abdul Majid, Waheed Ahmad Khanday and Radha Tomar <i>Volume2012,ArticleID510650,6pages</i> <i>doi:10.1155/2012/510650</i>	Oldname: Journal of Biomedicine and Biotechnology New name: BioMed Research International Hindawi	2314-6141	3.246

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Total Citations = 2253, h-index = 21 & i10-index = 25

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Date: 18-03-23

Place: Anantnag, Kashmir

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Waheed Ahmad Khanday