

Muhammad Anwar Baig

Professor

Institute of Environmental Sciences & Engineering

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About

Dr. Muhammad Anwar Baig is working as Professor in the Institute of Environmental Sciences & Engineering. Dr. Muhammad Anwar Baig has a PhD in Soil & Water Science (Environment). Dr. Muhammad Anwar Baig has published 37 research articles & conference papers having a citation count of 959, carried out 4 projects and filed 0 intellectual property.

Qualifications

PhD in Soil & Water Science (Environment) University of Arizona , United States	1990 - 1993
MPhil in Water Resources Management UET Lahore , Pakistan	1984 - 1987

Experience

Professor Institute of Environmental Sciences & Engineering	2021- Present
Professor Institute of Environmental Sciences & Engineering	2009 - 2009
Associate Professor Institute of Environmental Sciences & Engineering	2002 - 2002
Assistant Professor Institute of Environmental Sciences & Engineering	1998 - 1998
Lecturer/JRA Centre of Excellence in Water Resources Engineering , CEWRE, UET, Zero Gate, GT Road, Lahore	1983 - 1998
Research Officer (Planning) PARCB , PARCB University of Agriculture Faisalabad	1981 - 1983

Research Projects

National Projects

Rehabilitation of Open Solid Waste Dump Site at H-12 Islamabad and Establishment of a Model Landfill Research Facility in the Country	2008
Funding Agency: NUST	
Amount: PKR 10,000,000.00	
Status: Completed	
Clean Drinking Water Initiative Project	2005
Funding Agency: MoE	
Amount: PKR 6,810,000.00	
Status: Completed	
Development of Low Cost Indigenous Water Testing Kit for Various Local Communities	2002
Funding Agency: MoST	
Amount: PKR 700,000.00	
Status: Completed	
Establishment of Institute of Environmental Science and Engineering (IESE)	1996
Funding Agency: MoST	
Amount: PKR 13,862,000.00	
Status: Completed	

International Projects

Research Articles

Synthesis of Carbon Nanotubes (CNTs) from Poultry Litter for Removal of Chromium (Cr (VI)) from Wastewater	2021
Noor Haleem Yousuf Jamal Shahid Nawaz Khan Muhammad Anwar Baig Maryam Wahab Xufei Yang	
Materials , Volume 14(18), Article Number 5195	
Impact Factor: 3.623 Quartile: 1 Citations: 12	
DOI: 10.3390/ma14185195	
Synthesis, Characterization and Heavy Metal Removal Efficiency of Nickel Ferrite Nanoparticles (NFN's)	2021
Waheed Ali Khoso Noor Haleem Muhammad Anwar Baig Yousuf Jamal	
Scientific Reports , Volume 11, Article Number 3790	
Impact Factor: 4.997 Quartile: 2 Citations: 107	
DOI: doi.org/10.1038/s41598-021-83363-1	
Phytoaccumulation of heavy metals from municipal solid waste leachate using different grasses under hydroponic condition	2020
Malik Muhammad Hassan Noor Haleem Muhammad Anwar Baig Yousuf Jamal	
Scientific Reports , Volume 10, Article Number 15802	
Impact Factor: 4.380 Quartile: 1 Citations: 21	
DOI: doi.org/10.1038/s41598-020-72800-2	
High resolution target localization using rotating linear array radar	2019
Nauman Anwar Baig Mohammad Bilal Malik Muhammad Zeeshan Muhammad Anwar Baig	
Multidimensional Systems and Signal Processing, Volume 30, Issue 4, Pages 2059-2079	
Impact Factor: 1.810 Quartile: 2 Citations: 1	
DOI: 10.1007/s11045-019-00641-y	
Growth and nutrient removal efficiency of duckweed (lemna minor) from synthetic and dumpsite leachate under artificial and natural conditions	2019
Jamshaid Iqbal Atif Javed Muhammad Anwar Baig	
PLoS ONE , Volume: 14, Issue: 8, Article Number: e0221755	
Impact Factor: 2.740 Quartile: 2 Citations: 52	
DOI: DOI:10.1371/journal.pone.0221755	
Assessing the generation, recycling and disposal practices of electronic/electrical-waste (E-Waste) from major cities in Pakistan	2019
Muhammad Sajid Jabir Hussain Syed Mehreen Iqbal Zaigham Abbas Ministry of Climate Change Islamabad Muhammad Anwar Baig	
Waste Management , Waste Management Volume: 84 Pages: 394-401	

Impact Factor: 5.448 Quartile: 1 Citations: 74 DOI: 10.1016/j.wasman.2018.11.026	
Photocatalytic Inactivation of Hospital-Associated Bacteria using Titania Nanoparticle Coated Textiles <i>Tehseen Tahir Ishtiaq Ahmed Qazi Imran Hashmi Muhammad Anwar Baig</i> <i>Journal of the Chemical Society of Pakistan</i> , NULL Impact Factor: 0.28 Quartile: 4 Citations: 175 DOI: 10.1016/j.jhin.2015.02.017	2017
Nitrogen and Phosphorous Removal from Leachate by Duckweed (Lemna minor). <i>Muhammad Anwar Baig Jamshaid Iqbal</i> <i>Environment Protection Engineering</i> , Volume: 43 Issue: 4 Pages: 123-134 Impact Factor: 0.486 Quartile: 3 DOI: 10.5277/epe170410	2017
Estimation of Physico-Chemical Characteristics of Suspended Particulate Matter (SPM) at Construction Sites: A Statistical Regression-Based Model <i>Khalid Iqbal Muhammad Anwar Baig Sher Jamal Khan</i> <i>Journal of the Chemical Society of Pakistan</i> , Volume 39, No. 02, Pages 197-207 Impact Factor: 0.280 Quartile: 4 DOI: https://www.researchgate.net/publication/317742224_Estimation_of_physico-chemical_characteristics_of_suspended_particulate_matter_SPM_at_construction_sites_A_statistical_regression-based_model	2017
Enhanced photodegradation of titania loaded polyethylene films in a humid environment <i>Ch. Tahir Mehmood Ishtiaq A. Qazi Muhammad Anwar Baig Muhammad Arshad Abdul Quddos</i> <i>International Biodeterioration & Biodegradation</i> , Volume 113, Pages 287-296 Impact Factor: 2.962 Quartile: 2 Citations: 15 DOI: 10.1016/j.ibiod.2015.12.005	2016
Survivability of Polyethylene Degrading Microbes in the Presence of Titania Nanoparticles <i>Ishtiaq A Qazi Saadia Andleeb Aashifa Yaqoob Salma Alvi MUHAMMAD ANWAR BAIG Chaudary Tahir Mahmood</i> <i>Journal of Nanomaterials and Molecular Nanotechnology</i> , Published 2016 Impact Factor: N/A DOI: http://dx.doi.org/10.4172/2324-8777.1000185	2016
Optimization of bio-oil pH with co-pyrolysis of cotton gin trash, animal manure and micro-algae <i>Muhammad Usman Hanif Renato O. Arazo Sergio C. Capareda Hamid Iqbal Muhammad Adnan Hanif Muhammad Anwar Baig</i> <i>International Journal of Biosciences</i> , Volume 8, No. 5, Pages 8-14 Impact Factor: - DOI: http://dx.doi.org/10.12692/ijb/8.5.8-5	2016
Effects of Pyrolysis Temperature on Product Yields and Energy Recovery from Co-Feeding of Cotton Gin Trash, Cow Manure, and Microalgae: A Simulation Study <i>Sergio C. Capareda Hamid Iqbal Renato Ortiz Arazo Muhammad Anwar Baig Muhammad Usman Hanif</i> <i>PLoS ONE</i> , Volume 11, Issue 4, Article Number e0152230 Impact Factor: 2.806 Quartile: 1 Citations: 43 DOI: 10.1371/journal.pone.0152230	2016
Leaching of Metals, Organic Carbon and Nutrients from Municipal Waste under Semi-Arid Conditions <i>Hamid Iqbal Muhammad Anwar Baig Muhammad Usman Hanif Muhammad Usman Ali Bukhari Flury M</i> <i>International Journal of Environmental Research</i> , Volume 9, Issue 1, Pages 187-196 Impact Factor: 1.100 Quartile: 4 DOI: -	2015
Leaching of Metals, Organic Carbon and Nutrients from Municipal Waste under Semi-Arid Conditions <i>H Iqbal Muhammad Anwar Baig Muhammad Usman Hanif S. Usman Ali M. Flury</i> <i>International Journal of Environmental Research</i> , Volume 9, Issue 1, Pages 187-196 Impact Factor: 0.992 Quartile: 4 DOI: 10.22059/IJER.2015.888	2015
Application of photodegraded polythene films for the treatment of Drimarene Brilliant Red (DBR) dye <i>Ch. Tahir Mehmood Ishtiaq A. Qazi Muhammad Anwar Baig Abdul Quddos Muhammad Arshad</i> <i>International Biodeterioration & Biodegradation</i> , Volume 102, Pages 31-39 Impact Factor: 2.429 Quartile: 2 Citations: 9 DOI: 10.1016/j.ibiod.2014.12.014	2015

Application of Remote Sensing Technologies to detect the vegetation changes during past two decades in Islamabad, Pakistan <i>Nusrat Shaheena Muhammad Anwar Baig Muhammad Ahsan Mahboob Saeed Akbar Muhammad Fahim Khokar</i> <i>Journal of Social Sciences</i> , Volume 4, Number 3, Pages 886-900 Impact Factor: 0	2015
Characterization of first flush in urban highway runoffs <i>Hamid Iqbal Muhammad Anwar Baig</i> <i>Environmental Engineering and Management Journal</i> , Volume 14, No. 1, Pages 45-50 Impact Factor: 1.008 Quartile: 4 DOI: -	2015
Laser Based Optical Emission Studies of Zinc Oxide (ZnO) Plasma <i>Muhammad Hanif Muhammad Salik Muhammad Anwar Baig</i> <i>Plasma Chemistry and Plasma Processing</i> , Volume: 33 Issue: 6 Pages: 1167-1178 Impact Factor: 1.599 Quartile: 2 Citations: 11 DOI: 10.1007/s11090-013-9478-0	2013
A Comparison of TiO₂ Nanoparticles and Nanotubes for Catalytic Gas Phase Destruction of H₂S Gas at High Temperatures <i>Naeem Shahzad Syed Tajammul Hussain Asima Siddiqua Muhammad Anwar Baig</i> <i>Journal of Nanoscience and Nanotechnology</i> , Volume: 12 Issue: 6 Pages: 5061-5065 Impact Factor: 1.149 Quartile: 3 Citations: 14 DOI: 10.1166/jnn.2012.4934	2012
Drought Severity Assessment in Arid Area of Thal Doab using Remote Sensing and GIS <i>Muhammad Anwar Baig Asma Shaheen</i> <i>International Journal of Water Resources and Arid Environments</i> , Vol.1(2), Pages 92-101 Impact Factor: 0 DOI: ISSN: 2079-7079	2011
On-line Monitoring of Remediation Process of Chromium Polluted Soil using LIBS <i>M.A. Gondal Talib Hussain Z.H. Yamani Muhammad Anwar Baig</i> <i>Journal of Hazardous Materials</i> , Volume 163, Issues 2–3, Pages 1265-1271 Impact Factor: 4.144 Quartile: 1 Citations: 75 DOI: https://doi.org/10.1016/j.jhazmat.2008.07.127	2009
Treatment performances of compost-based and gravel-based vertical flow wetlands operated identically for refinery wastewater treatment in Pakistan <i>Muhammad Masud Aslam Murtaza Malik M.A. Baig Ishqat Ahmad Qazi Javed Iqbal</i> <i>Ecological Engineering</i> , Volume 30, Issue 1, Pages 34-42 Impact Factor: 2.175 Quartile: 1 Citations: 77 DOI: 10.1016/j.ecoleng.2007.01.002	2007
The role of various binding materials for trace elemental analysis of powder samples using laser-induced breakdown spectroscopy <i>M.A. Gondal Talib Hussain Z.H. Yamani M.A. Baig</i> <i>TALANTA</i> , Volume 72, Issue 2, Pages 642-649 Impact Factor: 3.374 Quartile: 1 Citations: 90 DOI: 10.1016/j.talanta.2006.11.039	2007
Measurement of nutrients in green house soil with laser induced breakdown spectroscopy <i>Muhammad Anwar Baig Talib Hussain M. A. Gondal Z. H. Yamani</i> <i>Environmental Monitoring and Assessment</i> , Volume 124, Issue 1-3, Pages 131-139 Impact Factor: 0.885 Quartile: 3 Citations: 71 DOI: 10.1007/s10661-006-9213-x	2007
Detection of heavy metals in Arabian crude oil residue using laser induced breakdown spectroscopy <i>M.A. Gondal Talib Hussain Z.H. Yamani Muhammad Anwar Baig</i> <i>Talanta</i> , Volume 69, Issue 5, Pages 1072-1078 Impact Factor: 2.810 Quartile: 1 Citations: 112 DOI: 10.1016/j.talanta.2005.11.023	2006
Textile Wastewater Characterization & Reduction of its COD & BOD by Oxidation <i>Muhammad Masud Aslam Muhammad Anwar Baig Ishtiaq Hassan Dr. Ishtiaq A Qazi Murtaza Malik Haroon Saeed</i>	2004

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DOI: -

Pakistan: Preliminary National Greenhouse Gas Inventory 2004

Bahadar Khan Muhammad Anwar Baig

Journal of Applied Sciences & Environmental Management, Vol.7 No. 2, Pages 49-54

Impact Factor: 0

DOI: 10.4314/jasem.v7i2.17211

Constructed Treatment Wetlands: An Option for Wastewater Treatment in Pakistan 2004

Muhammad Masud Aslam Muhammad Anwar Baig

Electronic Journal of Environmental Agricultural and Food Chemistry,, Vol.3 No. 5, Pages 739-742, 2004

Impact Factor: 0

DOI: -

Removal of Oil and Grease from Industrial Effluents 2003

M Abid Baig Mohsin Mir Zafar I Bhatti Muhammad Anwar Baig

Electronic Journal of Environmental Agricultural and Food Chemistry, Vol.2 No. 5,

Impact Factor: 0

DOI: https://www.researchgate.net/publication/265223230_Removal_of_oil_and_grease_from_industrial_effluents

Recovery of Chromium (III) from Tannery Wastewater 2003

Dr. Muhammad Ali Awan Muhammad Anwar Baig Javed Iqbal Muhammad Rizwan Aslam Naveed Ijaz

Journal of Applied Sciences and Environmental Management, Vol: 7, No. 2, Pages:05-08

Impact Factor: 0

DOI: <https://tspace.library.utoronto.ca/handle/1807/2712>

Current Situation of Islamabad Solid Waste Dumpsite and Options for Improvement 2003

Muhammad Anwar Baig R. E Elahi Dr. Murtaza Malik

The Nucleus , Volume 40, No.1-4, Pages 59-62

Impact Factor: 0

DOI: https://inis.iaea.org/search/search.aspx?orig_q=RN:36030134

Laboratory Scale Studies on Removal of Chromium from Industrial Wastes 2003

Muhammad Anwar Baig Mohsin Mir Shazad Murtaza Zafar I Bhatti

Journal of Environmental Sciences , Vol.15, No. 6

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DOI: <https://pubmed.ncbi.nlm.nih.gov/12938996/>

Removal of Chromium from Industrial Effluents by Sand Filtration 2003

Muhammad Anwar Baig Biala Mehmood Asif Matin

Electronic Journal of Environmental Agricultural and Food Chemistry, Spain., Vol.2 No. 3

Impact Factor: 0

DOI: -

Development of Thermochromic Strips as Water pasteurization indicator 2003

Dr. Ishtiaq Ahmad Qazi Dr. Muhammad Ali Awan Muhammad Anwar Baig

Journal of Environmental Sciences-China , Volume: 15, Issue: 6, Pages: 863-864

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DOI: -

Conference Proceedings

Application of GIS/ RS for Management Zoning of Margallah Hills National Park, Islamabad 2011

Syeda Maria Zafar Dr. Muhammad Anwar Baig Muhammad Irfan

2011 2nd International Conference on Environmental Science and Technology, res.country(197,)

Citations: N/A

DOI: https://www.researchgate.net/publication/267264437_Application_of_GIS_RS_for_Management_Zoning_of_Margallah_Hills_National_Park_Islamabad