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### Research Interests

* Green synthesis of nanomaterials for antimicrobial and anticancer activities
* Detection of functional microbial diversity for bioremediation & other application
* Testing of plant growth enhancing properties of microbes for crop improvement
* Newly synthesized chemical compounds antimicrobial activities
* Heavy metals toxicity in plants and microbes



### Education

* Ph.D. (Microbiology) Aligarh Muslim University, Uttar Pradesh, India. 2008-2013.
* Master of Science: Microbiology, Aligarh Muslim University, Uttar Pradesh, India. 2004-2006.
* Bachelor of Science: Chemistry (Hons.), Aligarh Muslim University, Uttar Pradesh, India. 2000-2003.



### Citation on google scholar

* Total Citation 2310 with 20 H index (https://scholar.google.co.in/citations?user=wC7QxT0AAAAJ)

### Research titles and experience

* Senior Research Fellow (2014): FP-7, European Union Funded International Project, Safeguarding Water Resources in India with Green and Sustainable Technologies (SWINGS).
* Senior Research Fellow (2012-2013): Council of Scientific and Industrial Research (CSIR) India, Biofabrication of Nanomaterials for Antimicrobial and Anticancer Activities.
* PhD: Studies on microbes associated bioremediation and phytotoxicity of heavy metals to certain legume crops.
* Master of Science: Phosphate solubilising microbial diversity in rhizospheric soil



### Memberships

* Association of Microbiology of India (Membership # 3438-2012- Life Time)
* American Society of Microbiology



### Professional Capabilities

* Isolation and biochemical and molecular characterization of bacteria and fungi
* Estimation and characterization of secondary metabolites from microbes
* Maintenance and culturing of cancerous cell lines
* Screening of antibiotic and heavy metal resistance bacteria
* Utilization of microbial biomass for bioremediation purposes
* PGP trait bacterial utilize for biofertilizer preparation
* Heavy metal toxicity in detection in legume plants
* Chlorophyll content, legheamoglobin, antioxdent enzyme and proline content detection
* BLAST (Protein & DNA), Clustal W, Expasy, MEGA4, Phylogenetic tree analysis
* Hands on experience in Microscopy, SEM, EDX, FTIR, UV-VIS, PCR and Lyophilizer
* Statically analysis of data



### Reviewer of International Journals >25 ISI Journals

* International Journal of Environmental Science and Technology (Springer)
* World Journal of Microbiology and biotechnology (Springer)
* Environmental Science and Pollution Research (Springer)
* International Journal of Nanomedicine (Dove press)
* Ecotoxicology and Environmental Safety (Elsevier)
* Colloids and Surfaces B: Biointerfaces (Elsevier)
* Saudi Journal of chemical Society (Elsevier)
* Journal of Hazardous material (Elsevier)
* EIT-Nanobiotechnology
* Applied Soil ecology
* Plos one

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### Workshop and Short term Course

* Workshop on "**Role of Extremophiles on Biodegradation of Petrolium Hydrocarbons**" At Center of Excellence in Environmental Studies, King Abdul Aziz University, Jedddah, Kingdom of Saudi Arabia (2 December 2015)
* Workshop on "**Biormediation of Petrolium Hydrocarbon Under Extreme Condition**" At Center of Excellence in Environmental Studies, King Abdul Aziz University, Jedddah, Kingdom of Saudi Arabia (31 March 2015)
* Saminar on "**Latest Advancement in Nanotechnology Solution Using FEI-SEM and Daul Beam Microscopy**" Center of Excellence in Desalination Technology Organised in collaboration with "Naizak Global Enginnering System- Lab System Division and FEI, Netherlands" at At Center of Excellence in Environmental Studies, King Abdul Aziz University, Jedddah, Kingdom of Saudi Arabia (14 April 2015)
* International Workshop on **Sustainable Technology for Wastewater Management** within SWINGS Research Project, organized by Department of Civil Engineering, Aligarh Muslim University, Aligarh (5-6 June 2014).
* International Workshop on **SME Bridging and Entrepreneurship** Development for Eco-India Project organized by school of water Resources Engineering, Jadavpur University, Kolkata, India (8-11 May 2014).
* **Biomedical Engineering & its Recent Trends** (BERT-2014) workshop organized by Zakir Hussain College of Engineering & Technology, Aligarh Muslim University, Aligarh (Under TEQIP-II).
* **Bacteriology** training workshop International Forum of Infection and Immunity, Awaji Japan (2013).
* **Bacteriology** training workshop International Forum of Infection and Immunity, Awaji Japan (2012)
* National Workshop on “**Minimization of Environmental Impact of Slaughter house Waste by Value Addition as Pet Foods**” organised by Department of Post Harvest Engineering & Technology, Aligarh Muslim University, Aligarh (Jan 2013)
* “**Pedagogy 2.0 Open University Coaching & Guidance Workshop**” organised by Coaching and guidance centre associated with M. Habib Hall AMU Aligarh (24-26 Feb. 2012)
* “**Workshop on Real Time PCR**” organised by Roche associated with Jamia Hamdard New Delhi (26-27 Dec. 2007)
* **Workshop on FACS by BD Biosciences**, India at Aligarh Muslim University, Aligarh (2-3 Jan. 2008.
* Short term course on “**Technology based Entrepreneurship Development Programme**” organised by National Small industries Corporation LDT. (NSIC), A Government of India Enterprise, Technical Service Centre, A-1, Industrial Estate, Aligarh-202001 (March 2013).
* Short term course on “**Plant Tissue Culture and Molecular Biology**” organized by Department of Botany associated with UGC Acadmic Staff College, Aligarh Muslim University, Aligarh (Jan. 2013).



### International travel grant award

* Department of Science and Technology (New Delhi, India) for **Japan** (2011)
* Council of Science and Industrial Research (New Delhi, India) for **Japan** (2011)
* International forum of Infection and Immunity, Awaji **Japan** (2012)
* International forum of Infection and Immunity, Awaji **Japan** (2013)



### Book

1. Modern Age Wastewater Problems and their Remediation, (eds, **Oves M**, Khan MZ,  Ismail IMI, MH Shahdat ), 2st ed. 2018 edition, **Springer Nature**, Under process
2. Modern Age Environmental Problems and their Remediation, (eds, **Oves M**, Khan MZ,  Ismail IMI), 1st ed. 2018 edition, **Springer Nature** ISBN-10: 3319645005, ISBN-13: 978-3319645001.
3. Phosphate Solubilizing Microbes: Functional Aspects, (Author, **Mohammad Oves**), **Lambert Academic Publishing** GmbH & Co. KG, Germany, (US $91.70) ISBN 3845400641



### Book chapters

1. **Oves M**, Shahdat M, Ansari SA, Aslam M,  Ismail IMI (2018) Polyaniline nanocomposite materials for biosensor designing. In: Electric Conductive Polymers and Polymer Composites: From Synthesis to Biomedical Applications (eds. Khan A, Jawaid M, Khan AAP, Asiri AM). Publisher: Wiley, ISBN: 978-3-527-34289-1, Chapter 6.
2. Weldeslassie T, Naz H, Singh B, **Oves M** (2018) Contaminant Chemicals For Soil, Air And Aquatic Ecosystem. In: Modern Age Environmental Problems and their Remediation.(eds. Ovem M, Khan ZM, Ismail IMI. Publisher: Springer Nature, ISBN-13: 978-, Chapter 1.
3. **Oves M**, FM Hussain, IMI Ismail, HA Qari (2017) Microbiological Carbon Sequestration: A Novel Solution for Atmospheric Carbon – Carbon Sequestration through Biological Approach.  Handbook of Research on Inventive Bioremediation, IGI Publisher. DOI: 10.4018/978-1-5225-2325-3.ch005.
4. [C Karthik](https://www.researchgate.net/profile/Chinnannan_Karthik), [**M Oves**](https://www.researchgate.net/profile/Mohammad_Oves),  [MS Khan](https://www.researchgate.net/researcher/2006276756_MS_Khan), [RK Sharma](https://www.researchgate.net/researcher/2122502324_RK_Sharma),  [PI Arulselvi](https://www.researchgate.net/researcher/2118306495_PI_Arulselvi),  [HA Qari](https://www.researchgate.net/profile/Huda_Qari) (2017) [Plant–Bacteria Partnerships: A Major Pollutant-Remediation Approach](https://www.researchgate.net/publication/313647458_Plant-Bacteria_Partnerships_A_Major_Pollutant-Remediation_Approach?ev=prf_pub). In book: Chemical Pollution Control with Microorganisms (ed Naser A. Anjum), Publisher: Nova Science Publisher.
5. MZ Khan, M Shahdat, HA Qari, IMI ismail, ZA Sahikh, **M Oves** (2017) Pollutants decontamination from water: role of nano-composite materials In book: Enhancing Cleanup of Environmental Pollutants (eds, Anjum, Gill, Tuteja) Volume 2: Non-Biological Approaches, Publisher: Springer
6. K Ahmad, MH Baig, FM Husain, I Ahmad, ME Khan, **M Oves**, I Choi, NA Al-Shabib (2017) Anti-QS/Anti-Biofilm Agents in Controlling Bacterial Disease: An in silico Approach. In: Biofilms in Plant and Soil Health, First Edition. Edited by Iqbal Ahmad and Fohad Mabood Husain. © 2017 John Wiley & Sons Ltd. Published 2017 by John Wiley & Sons Ltd. Pp.497-511.
7. M Gulfishan, TA Bhat, **M** **Oves** (2016), In: Mutants as a Genetic Resource for Future Crop Improvement, Jameel M. Al-Khayri (Editor), Springer. pp 95-112.
8. MS Khan, E Ahmad, A Zaidi, **M Oves** (2013) Functional aspect of phosphate-solubilizing bacteria: Importance in crop production. In: Bacteria in agrobiology: Crop productivity, Maheshwari DK, Meenu S, Abhinuv A (Editors), Springer-Verlag Berlin Heidelberg, DOI 10.1007/978-3-642-37241-4\_10 .
9. E Ahmad, A Zaidi, MS Khan,  **M Oves** (2012) Heavy Metal Toxicity to Symbiotic Nitrogen-Fixing Microorganism and Host Legumes. In: Toxicity of Heavy Metals to Legumes and Bioremediation. Zaidi A, Wani PA, Khan MS (Editors), Springer-Verlag/Wien. pp. 29-44.
10. **M Oves**, MS Khan, A Zaidi, E Ahmad (2012) Soil Contamination, Nutritive Value and Human Health Risk Assessment of Heavy Metals: An Overview. In: Toxicity of Heavy Metals to Legumes and Bioremediation. Zaidi A, Wani PA, Khan MS (Editors), Springer-Verlag/Wien. pp. 1-28.
11. A Zaidi, **M Oves**, E Ahmad, MS Khan (2011) Importance of free living fungi in heavy metal remediation. In: Biomanagement of Metal Contaminated Soil. Khan MS, Zaidi A, Goel R, Musarrat J (Editors), Springer The Netherlands, pp. 479-494.
12. **M Oves**, A Zaidi, MS Khan (2010) Role of metal tolerant microbes in legume improvement. In: Microbes for Legume Improvement, Khan MS, Zaidi A, Musarrat J (Editors), Springer, pp 337-352.
13. A Zaidi, M Ahemad, **M** **Oves**, E Ahmad, MS Khan (2010) Role of Phosphate-Solubilizing Bacteria in Legume Improvement; In: Microbes for Legume Improvement, Khan MS, Zaidi A, Musarrat J (Editors), Springer, pp 273-292.
14. MS Khan, A Zaidi, PA Wani, **M Oves** (2010) Role of Plant Growth Promoting Rhizobacteria in the Remediation of Metal Contaminated Soils: A Review. In: Lichtfouse E (Editor) Organic Farming, Pest Control and Remediation of Soil Pollutants, Sustainable Agriculture Reviews, 1, 319-350, ISBN 978-1-4020-9653-2 (Print) 978-1-4020-9654-9, Springer Netherlands.
15. **M Oves**, A Zaidi, MS Khan, M Ahemad (2009) Variation in plant growth promoting activities of phosphate-solubilizing microbes and factors affecting their colonization and solubilizing efficiency in different agro-ecosystems; In: Phosphate solubilizing microbes for crop improvement, Khan MS, Zaidi A (Editors), Nova Science Publishers, Inc., New York, USA, pp. 247-263, ISBN 978-1-60876-112-8. Pp. 247-263.
16. MS Khan, A Zaidi, PA Wani, M Ahemad, **M** **Oves** (2009) Functional Diversity Among Plant Growth-Promoting Rhizobacteria: Current Status. In: Microbial Strategies for Crop Improvement, Khan MS, Zaidi A, Musarrat J (Editors), Springer Berlin Heidelberg, pp. 105-132.
17. A Zaidi A, Khan MS, Wani PA, Ahemad M, **Oves M** (2009) Recent Advances in Plant Growth Promotion by Phosphate-Solubilizing Microbes: In: Microbial Strategies for Crop Improvement, Khan MS, Zaidi A, Musarrat J (Editors), Springer Berlin Heidelberg, pp. 23-50.
18. Ahemad M, Zaidi A, Khan MS, **Oves M** (2009) Factors Affecting the Variation of Microbial Communities in Different Agro-Ecosystems: In: Microbial Strategies for Crop Improvement, Khan MS, Zaidi A, Musarrat J (Editors), Springer Berlin Heidelberg, pp. 301-324.
19. Ahemad M, Zaidi A, Khan MS, **Oves M** (2009) Biological Importance of Phosphorus and Phosphate Solubilizing Microbes; In: Phosphate solubilizing microbes for crop improvement, Khan MS, Zaidi A (Editors), Nova Science Publishers, Inc., New York, USA, pp. 1-14, ISBN 978-1-60876-112-8. Pp. 1-14.
20. Zaidi A, Khan MS, **Oves M**, Ahemad M (2009) Strategies for development of microphos and mechanisms of phosphate solubilization.In: Phosphate solubilizing microbes for crop improvement, Khan MS, Zaidi A (Editors), Nova Science Publishers, Inc., New York, USA, pp. 229-245, ISBN 978-1-60876-112-8. Pp. 229-245.
21. MS Khan, A Zaidi, **M Oves**, PA Wani (2008) Heavy Metal Toxicity to Legumes. In Heavy Metal Pollution, Samuel E. Brown and William C Welton (eds.) Nova Science Publishers, Inc, New York, USA, pp. 197-225, ISBN: 978-1-60456-899-8.



### Research articles

1. **M Oves**, H Qari, M Aslam, A A P Khan, F M Husain, I IM Ismail, F Ahmed (2018) Red sea Bacterium Marinobacter Kribensis Exopolysaccharide Assisted Silver Nanoparticle fabrication and their Application in Bacteriostatic studies. Frontier Microbiology (Under Review).
2. **M Oves**, H Qari, and D Sigee (2018) Phosphorus limitation effect on the fatty acid and phospholipid synthesis in Chlymydomonas sp. Journal of Bioenergitics and Biomembrane (Under Review).
3. **M Oves** et al (2018) ntimicrobial and anticancer potential of silver nanoparticles synthesized from trivial Phoenix dactylifera root hair extracts
Journal: Materials Science & Engineering C **(Accepted**)
4. **M Oves**, H Qari, I Khan, A A P Khan, F Ahmed, N Felemban, M Rehan, S Tabrez, A Haque, M S Khan, J M Khan, F M Husain, M K Warsi, AHussain, and IM Ismail (2018) Exosomes: A new paradigm in drug development against cancer and infectious disease. Journal of Nanomaterials, (**Accepted**).
5. JB Fathima, A Pugazhendhi, M Oves, R Venis (2018) Synthesis of eco-friendly copper nanoparticles for augmentation of catalytic degradation of organic dyes. Journal of Molecular Liquids. 260: 1–8
6. M Arsalan, F Alam, I Khan, **M Oves** (2018) Synthesis and characterization of Co3 (Po4)2 and Ni3 (Po4)2 composite membranes based on PVC: A Comparative electrochemical studies through aqueous electrolyte solutions. Journal of Membrane Sceince and Research. 4 (1), 41-50.
7. NA Al-Shabib, FM Husain, I Hassan, MS Khan, F Ahmed, FA Qais, **M Oves** ,et al. (2018) Bio-fabrication of Zinc oxide nanoparticle from Ochradenus baccatus leaves: broad-spectrum anti-biofilm activity, protein binding studies, in vivo toxicity and stress studies. Journal of Nanomaterials, 8612158
8. A Jilani, MHD Othman, MO Ansari, **M Oves**, A Alshahrie, IU Khan, Sajith VK (2018) A simple route to layer-by-layer assembled few layered graphene oxide nanosheets: optical, dielectric and antibacterial aspects. Journal of Molecular Liquids, 253: 284-296
9. [NR Jabir](http://www.tandfonline.com/author/Jabir%2C%2BNasimudeen%2BR), [K Anwar](http://www.tandfonline.com/author/Anwar%2C%2BKhalid), [CK Firoz](http://www.tandfonline.com/author/Firoz%2C%2BChelapram%2BK), [**M Oves**](http://www.tandfonline.com/author/Oves%2C%2BMohammad), [M A Kamal](http://www.tandfonline.com/author/Kamal%2C%2BMohammad%2BAmjad), [S Tabrez](http://www.tandfonline.com/author/Tabrez%2C%2BShams) (2018) An overview on the current status of cancer nanomedicines. Current Medicinal Research and Opinion, 1-22
10. N Al-Shabib, FM Hussain, I Hassan, M Khan, F Ahmed, F Qais, **M Oves**, et al.  (2017) Bio-fabrication of Zinc oxide nanoparticle from Ochradenus baccatus leaves: broad-spectrum anti-biofilm activity, protein binding studies, in vivotoxicity and stress studies, Journal of Nanomaterials, **Article in Press** (<https://www.hindawi.com/journals/jnm/aip/8612158/>)
11. **M Oves**, Khan MS, Qari HA (2017) Ensifer adhaerens for heavy metal bioaccumulation, biosorption, and phosphate solubilization under metal stress condition. Journal of the Taiwan Institute of Chemical Engineers 80: 540-552
12. S Qayyum, **M Oves**, AU Khan (2017) Obliteration of bacterial growth and biofilm through ROS generation by facilely synthesized green silver nanoparticles. PloS one 12 (8), e0181363.
13. R Kumar, **M Oves**, T Ameelbi, NH Al-Makishah, MA Barakat (2017) Hybrid chitosan/polyaniline-polypyrrole biomaterial for enhanced adsorption and antimicrobial activity. Journal of Colloid and Interface Science. 490, 488-496.
14. C Karthik, **M Oves**, K Sathya, V Sri Ramkumar, PI Arulselvi (2017) Isolation and characterization of multi-potential Rhizobium strain ND2 and its plant growth promoting activities under Cr (VI) stress. Archives of Agronomy and Soil Science. 63 (8), 1058-1069.
15. M Anjum, **M Oves**, R Kumar, MA Barakat (2017) Fabrication of ZnO-ZnS@ polyaniline nanohybrid for enhanced photocatalytic degradation of 2-chlorophenol and microbial contaminants in wastewater. International Biodeterioration & Biodegradation. 119, 66-77.
16. M Farhan, **M Oves**, S Chibber, SM Hadi, A Ahmad (2017). [Mobilization of Nuclear Copper by Green Tea Polyphenol Epicatechin-3-Gallate and Subsequent Prooxidant Breakage of Cellular DNA: Implications for Cancer Chemotherapy](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=wC7QxT0AAAAJ&sortby=pubdate&citation_for_view=wC7QxT0AAAAJ:R8TPKZP7usQC). International journal of molecular sciences, 18 (1), 34.
17. C Karthik, N Elangovan, TS Kumar, S Govindharaju, S Barathi, **M Oves**, PI Arulselvi (2017) Characterization of multifarious plant growth promoting traits of rhizobacterial strain AR6 under Chromium (VI) stress. Microbiological Research 204: 65-71.
18. M Arsalan, M Alam, I Khan, **M Oves** (2017) [Synthesis and electrochemical observation of polyvinyl chloride based Sn-tungusto-arsenate composite membrane for purification of aqueous electrolyte solutions](http://www.sciencedirect.com/science/article/pii/S2352801X17300425), Groundwater for Sustainable Development. <https://doi.org/10.1016/j.gsd.2017.07.002>
19. ZA Mir, S Ali, A Tyagi, A Ali, JA Bhat, P Jaiswal, HA Qari, **M Oves** (2017) Degradation and conversion of endosulfan by newly isolated Pseudomonas mendocina ZAM1 strain. 3 Biotech, 7(3), 211.
20. AAP Khan, A Khan, MM Rahman, AM Asiri, **M Oves** (2017) Chemical Sensor Development and Antibacterial Activities Based on Polyaniline/Gemini Surfactants for Environmental Safety. Journal of Polymers and the Environment, 1-12.
21. M Arsalan, MA Khan, F Alam, **M Oves** (2017) PVC-supported SP composite membrane: its synthesis, physicochemical, and electrochemical characterization. Journal of Solid State Electrochemistry, 1-9.
22. MA Usmani, I Khan, AH Bhat, RS Pillai, N Ahmad,  MK MHaafiz, **M Oves** (2017) Current Trend in the Application of Nanoparticles for Waste Water Treatment and Purification: A Review. Current Organic Synthesis. 14 (2), 206-226.
23. JM Khan, MS Khan, MA Alsenaidy, A Ahmed, P Sen, **M Oves** (2017) Sodium louroyl sarcosinate (sarkosyl) modulate amyloid fibril formation in hen egg white lysozyme (HEWL) at alkaline pH: A molecular insight study Journal of Biomolecular Structure and Dynamics, 1-48.
24. SA Ansari, **M Oves**, SI Ahmad, MA Jafri, A Khan, M Rehan, SK Zaidi, R Satar, J Kumar, and MH Alqahtani (2017) Antimicrobial activity of iron oxide nanoparticles against Klebsiella pneumoniae and Bacillus cereus. Journal of Nanotechnology, Article ID 6012939.
25. AAP Khan, A Khan, MM Rahman, AM Asiri, **M Oves** (2017) Sensor development of 1, 2 Dichlorobenzene based on polypyrole/Cu-doped ZnO (PPY/CZO) nanocomposite embedded silver electrode and their antimicrobial studies. International Journal of Biological Macromolecules 98, 256-267.
26. **M Oves**, HA Qari, NM Felemban, MZ Khan, ZA Rehan, IMI Ismail (2016) Marinobacter lipolyticus from Red Sea for lipase production and modulation of silver nanomaterials for anti-candidal activities. IET Nanobiotechnology.  11 (4), 403-410.
27. F Nadeem, **M Oves**, HA Qari, IMI Ismail (2016)Red Sea Microbial Diversity for Antimicrobial and Anticancer Agents. Journal of Molecular Biomarkers & Diagnosis. 7, 267.
28. C Karthik, **M Oves**, R Thangabalu, R Sharma, SB Santhosh, PI Arul selvi (2016) Cellulosimicrobium funkei-like enhances the growth of Phaseolus vulgaris by modulating oxidative damage under Chromium (VI) toxicity. Journal of Advanced Research 7 (6), 839-850.
29. **M Oves** and FM Hussain (2016) Antibiotics and Heavy Metal Resistance Emergence in Water Borne Bacteria. Journal of Investigative Genomics. 3(2), 00045.
30. AAP Khan, A Khan, MM Rahman, AM Asiri, **M Oves** (2016) Lead sensors development and antimicrobial activities based on graphene oxide/carbon nanotube/poly (O-toluidine) nanocomposite. International journal of biological macromolecules. 89, 198-205.
31. MA Ansari, AK Shukla, **M Oves**, HM Khan (2016) [Electron microscopic ultrastructural study on the toxicological effects of AgNPs on the liver, kidney and spleen tissues of albino mice](https://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=wC7QxT0AAAAJ&sortby=pubdate&citation_for_view=wC7QxT0AAAAJ:WTkkuPxyGkUC). Environmental toxicology and pharmacology. 44, 30-43.
32. **M Oves** and Qari HA (2016) Bacillus Cells Division and Arrangements on Glass Slide. Advancements in Genetic Engineering. 5, 103.
33. **M Oves**, S Khan, H Qari, N Felemban, T Almeelbi (2016) Heavy Metals: Biological Importance and Detoxification Strategies. Journal of Bioremediation & Biodegradation. 07, 334.
34. MI Rashid, LH Mujawar, T Shahzad, T Almeelbi, IMI Ismail, **M Oves** (2016) Bacteria and fungi can contribute to nutrients bioavailability and aggregate formation in degraded soils. Microbiological research 183, 26-41.
35. M Farhan, HY Khan, **M Oves**, A Al-Harrasi, N Rehmani, H Arif, SM Hadi (2016) Cancer Therapy by Catechins Involves Redox Cycling of Copper Ions and Generation of Reactive Oxygenspecies. Toxins 8 (2), 37.
36. R Kumar, MO Ansari, N Parveen, **M Oves**, MA Barakat, A Alshahri (2016) Facile route to a conducting ternary polyaniline@ TiO 2/GN nanocomposite for environmentally benign applications: photocatalytic degradation of pollutants and biological activity. RSC Advances. 6 (112), 111308-111317.
37. R Bushra, T Arfin, **M Oves**, W Raza, F Mohammad, MA Khan, A Ahmad (2016). Development of PANI/MWCNTs decorated with cobalt oxide nanoparticles towards multiple electrochemical, photocatalytic and biomedical application sites. New Journal of Chemistry. 40 (11), 9448-9459.
38. S Sultana, MD Khan, S Sabir, KM Gani**, M Oves**, MZ Khan (2015) Bio-electro degradation of azo-dye in a combined anaerobic–aerobic process along with energy recovery. New Journal of Chemistry. 39 (12), 9461-9470.
39. **M Oves**, M Arshad, MS Khan, AS Ahmed, A Azam, IMI Ismail (2015), Anti-microbial activity of cobalt doped zinc oxide nanoparticles: Targeting water borne bacteria. Saudi Journal of chemical science. 19 (5), 581-588.
40. MS Khan, S Tabrez, N Rabbani, **M Oves**, A Shah, MA Alsenaidy, AM Al-Senaidy (2015), Physico-Chemical Stress Induced Amyloid Formation in Insulin: Amyloid Characterization, Cytotoxicity Analysis against Human Neuroblastoma Cell Lines and Its Prevention Using Black Seeds (Nigella sativa). Chin J Integrated Medicine. 1-8.
41. PS Nayab, M Pulaganti, SK Chitta, **M Oves** (2015) Synthesis, spectroscopic studies of novel N-substituted phthalimides and evaluation of their antibacterial, antioxidant, DNA binding and molecular docking studies. Bangladesh Journal of Pharmacology 10 (3), 703-713
42. SI Al-Resayes, AA Khan, A Trzesowska-Kruszynska, R Kruszynski, **M** **Oves** (2014) Synthesis, Physico-Chemical and Antimicrobial Studies of Ionic Liquid, Asian Journal of Chemistry.26(3):887-890
43. R Bushra, M Shahadat, A Ahmad, SA Nabi, K Umar, AS Raeissi, **M Oves**, M Muneer (2014) Synthesis, characterization, antimicrobial activity and applications of polyanilineTi(IV)arsenophosphate adsorbent for the analysis of organic and inorganic pollutants. Journal of Hazardous Materials, 264 (1), 481-489.
44. **M Oves**, MS Khan, A Zaidi, AS Ahmed, A Azam (2014) production of plant-growth promoting substances by nodule forming symbiotic bacterium rhizobium sp. OS1 is influenced by CuO, ZnO and Fe2O3 nanoparticles. IIOABJ, 3: 15-30.
45. **M Oves**, MS Khan, A Zaidi (2013), Chromium reducing and plant growth promoting novel strain Pseudomonas aeruginosa OSG41 enhance chickpea growth in chromium contaminated soils. European Journal of Soil Biology. 56:72-83.
46. **M Oves**, MS Khan, A Zaidi (2013) Biosorption of heavy metals by Bacillus thuringiensis strain OSM29 originating from industrial effluent contaminated north Indian soil. Saudi Journal of Biological Science 20:121-129.
47. M Azam, I Warad, SI Al-Resayes, MR Siddiqui, **M Oves** (2013) Synthesis, Physico-chemical studies and in vitro antibacterial screening of Pd(II) complexes derived from thiosemicarbazone. Chemistry & Biodiversity 10: 1109-1119.
48. **M Oves**, MS Khan, A Zaidi, AS Ahmed, F Ahmed, E Ahmad, A Sherwani, (2013) Antibacterial and cytotoxic efficacy of extracellular silver nanoparticles biofabricated from chromium reducing novel OS4 strain of Stenotrophomonas maltophilia. PLOS one 8 (3), e59140.
49. A Azam, AS Ahmad, **M Oves**, MS Khan, A Memic (2012) Size-dependent antimicrobial properties of CuO nanoparticles against Gram-positive and -negative bacterial strains. International Journal of Nanomedicine 7: 1–9.
50. A Azam, AS Ahmed, **M Oves**, MS Khan, SS Habib, A Memic (2012) Antimicrobial activity of metal oxide nanoparticles against Gram-positive and Gram-negative bacteria: a comparative study. International Journal of Nanomedicine 7: 6003-6009.
51. SA Nabi, M Shahadat, R Bushra, **M Oves**, F Ahmed (2011) Synthesis and Characterization of PolyanilineZr(IV)sulphosalicylate composite and its applications (1) electrical conductivity, (2) and antimicrobial activity studies. Chemical Engineering Journal, 173: 706–714.
52. A Husain, SAA Nami, SP Singh, **M Oves**, KS Siddiqi (2011) Anagostic interactions, revisiting the crystal structure of nickel dithiocarbamate complex and its antibacterial and antifungal studies. Polyhedron 30: 33-40.
53. MI Khan, A Ahmad, **M Oves** (2010) Synthesis, characterization, spectrophotometric, structural and antimicrobial studies of the newly charge transfer complex of p- henylenediamine with π-acceptor picric acid. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 77: 1059–1064.
54. MS Khan, A Zaidi, M Ahemad, **M Oves**, PA Wani (2010) Plant growth promotion by phosphate solubilizing fungi– current perspective. Archives of Agronomy and Soil Science 56:73 – 98.
55. A Zaidi, MS Khan, M Ahemad, **M Oves** (2009) Plant growth promotion by phosphate solubilizing bacteria. Acta Microbiologica et Immunologica Hungarica 56:263-284.
56. MS Khan, A Zaidi, PA Wani, **M Oves** (2009) Role of plant growth promoting rhizobacteria in the remediation of metal contaminated soils. Environmental Chemistry Letter 7:1–19



### Conferences

* **International conference on Nanoscience & Nanotechnology,** 8-10 March 2014. "Antimicrobial activity of silver nanoparticles synthesized from bacteria" (Poster). Organised by Department of Applied Physics, Aligarh Muslim University, Aligarh, India, Under UGC-SAP(DRS-1) ICMR, TEQIP, Mecwin India
* **National conference on Nanoscience & Nanotechnology,** 15-16 March 2013. Antimicrobial activity of newly synthesized compound (Talk). Organised by Department of Applied Physics, Aligarh Muslim University, Aligarh, India, Under DST/UGC/CST(UP)
* **International Conference on Chemistry Frontiers and Challenges**, 2013, Chromium reduction and antimicrobial activity of silver nanoparticles synthesized from novel OS4 strain of S. maltophilia (Poster) Organised by Department of Chemistry, Aligarh Muslim University, Aligarh, India, Under UGC-SAP(DRS-1).
* **International Forum of Infection and Immunity, Awaji Japan**, September 2012. Bio-control of phytopathogenic fungus infection in chickpea by bacterial strain Pseudomonas aeruginosa.
* **International Conference Advance materials research Breakthrough to Ecoinnovation** III. 21st Academic symposium of MRS **Yokohama, Japan**, 2011. Biofabrication of silver nanoparticles from S. maltophilia strain OS4 and its antimicrobial activity against MRSA. (Poster/Procedding) D-P-11M, pp. 21,.
* **International Conference on** **surface science –Toward Nano-, Bio-, and Green Innovation**, 11-15 December 2011. Tower Hall Funabori, **Tokyo, Japan**. (http://www.sssj-org/isss-6.). Biofabrication of silver nanoparticles by using legume plant leaves extract and their toxicity against bacteria (Poster/Procedding), 14PN-95, pp.296.
* **International** **Interdisciplinary Science Conference**, published in J Nat Sc Biol Med 2012. Organized by JMI, New Delhi. Isolation and 16S rRNA gene sequence characterization of chromium reducing strain OS4 (Poster/Procedding).
* **International Conference on Microbial Biotechnology for Sustainable Development**, 52nd Annual conference of association of microbiologist of India (AMI) organized by Punjab Univ. Chandigarh, Nov. 3-6, 2011. Copper induced proline accumulation and antioxidant enzyme synthesis by cicer arietinum grown in copper treated soil (Poster/Procedding).
* **International SFRR Satellite Symposium**. Department of Biochemistry, Aligarh Muslim University, Aligarh, 17-18 March 2009. Alteration in growth and peroxidase activity by heavy metals in chickpea plant (Poster/Procedding).
* **International, 49th Annual conference of Association of Microbiologist** of India held at New Delhi from 18-20 Nov. 2008. Fungi is more efficient Inoganic Phosphate solubilizers than Bacteria at different temperature” (Poster/Procedding).
* **National Symposium on Advances in Clinical Biochemistry– Biomarkers, Molecular Diagnosis and Quality Assurances** and 1st U.P. Chapter of Association of Clinical Biochemists of India, Nov. 15-16th, 2008 (UPACBICON).
* **International Symposium on the Predictive, Preventive and Mechanistic Mutagenesis** & XXXIII EMSI Annual Meeting,1-3 January, 2008 Aligarh Muslim University, India
* **International Interdisciplinary Science Conference on Bioinformatics**: An Interface between Computer Science and Biology, Organised by CIRBSc Jamia Millia Islamia, New Delhi (15-17 Nov. 2011).



### Instruments application CEES

-Autoclave: Sterlization of glass ware and media

-Molecular Devices: 96 well plate reader and analyser

-Laminar flow: for microbial culture and media handling

-Spectrophotometer: Spectra observation

-Calorimeter: Optical density detection

-Colony counter: For bacterial culture

- IR-Affinity: Apllication for functional group detection in nanomaterials

-Basic applied microbiological tools and techniuqes