

CURRICULUM VITAE

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Web Profiles

Web of Science ResearcherID: <https://www.webofscience.com/wos/author/record/W-1896-2017>

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Academic Profile

Dec 2021-present: *Associate Professor*, King Abdullah Institute for Nanotechnology, King Saud University, Riyadh, Saudi Arabia

Feb 2013- Dec 2021: *Assistant Professor*, King Abdullah Institute for Nanotechnology, King Saud University, Riyadh, Saudi Arabia.

Research Projects and Activities

A. Funded Projects

I. Completed Projects as Principal Investigator –

1. NPST Project (14-BIO144-02) titled “Potential immunomodulatory responses of surface functionalized nanomaterials used in nanomedicine”.

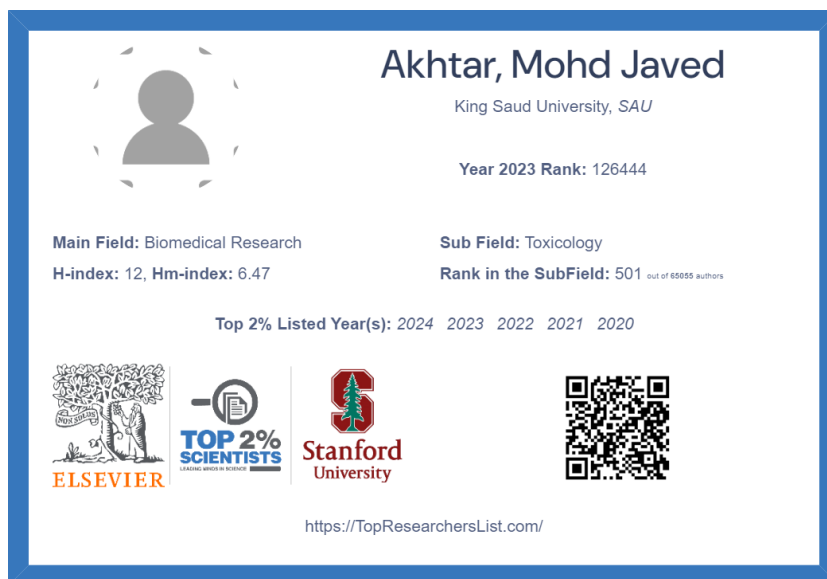
2. King Saud University (KSU) Deanship of Scientific Research (DSR) project titled "Nanobiotechnology" (RG-1440-097).
3. IFKSU-653 and IFKSU-661
4. IFKSUOR3-529

II. Running Projects as Principal Investigator-

Currently, there is no project running and waiting for funding.

B- Top 2% List

According to a report by Stanford University, USA, for the years 2020, 2021, 2022, 2023, and 2024, I have been ranked in the top 2% of the world's scientists in toxicology and pharmacology.



C- Reviewer of Scientific Journals

Chemosphere (Elsevier), ACS Nano (ACS publisher), Food and Chemical Toxicology (Elsevier), Food Toxicology (Elsevier), Free Radical Biology and Medicine (Elsevier), International Journal of Nanomedicine (Dove Press), Journal of Colloid and Interface Science (Elsevier), Journal of Hazardous Materials (Elsevier), Journal of Nanoparticle Research (Springer), Oxidative Medicine and Cellular Longevity (Hindawi), Scientific Reports (NPG), Toxicology Letters (Elsevier)

List of publications as in the Web of Science

Year 2024-

1. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham Alhadlaq. Cobalt-based nanoparticles strongly diminish CalceinAM fluorescence independently of their cytotoxic potential in human lung cell line. Journal of King Saud University – Science 36, (1), Jan 2024, 102987. <https://doi.org/10.1016/j.jksus.2023.102987>. IF-3.7, Q1

Year 2023-

2. Maqsood Ahamed, **Mohd Javed Akhtar**, M.A. Majeed Khan. Green-fabricated MgO nanoparticles: A potent antimicrobial and anticancer agent. *Journal of King Saud University - Science* 35; (8), November 2023, 102889. <https://doi.org/10.1016/j.jksus.2023.102889>. IF-3.7, Q1
3. Maqsood Ahamed, **Mohd Javed Akhtar**, M.A. Majeed Khan. ZrO₂ nanoparticles anchored on RGO sheets: Eco-friendly synthesis from *Acacia nilotica* (L.) fruit extract, characterization, and enhanced anticancer activity in different human cancer cells. *Materials Today Communications*, Volume 36, August 2023, 106756. <https://doi.org/10.1016/j.mtcomm.2023.106756>. IF-3.7, Q2
4. Maqsood Ahamed, **Mohd Javed Akhtar**, Hisham Alhadlaq. Synergistic toxicity of NiO nanoparticles and benzo[a]pyrene co-exposure in liver cells: Role of free oxygen radicals induced oxidative stress. *Journal of King Saud University – Science*, Volume 35, Issue 6, August 2023, 102750. <https://doi.org/10.1016/j.jksus.2023.102750n>. IF-3.7, Q1
5. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham Alhadlaq. Bismuth Oxide (Bi₂O₃) Nanoparticles Cause Selective Toxicity in a Human Endothelial (HUVE) Cell Line Compared to Epithelial Cells. *Toxics* 2023, 11(4), 343; <https://doi.org/10.3390/toxics11040343>. IF-3.9, Q1
6. Maqsood Ahamed, **Mohd Javed Akhtar**, M.A. Majeed Khan, Hisham A. Alhadlaq. Improved antimicrobial and anticancer potential of eco-friendly synthesized Co-doped Bi₂O₃/RGO nanocomposites. *Journal of Drug Delivery Science and Technology*, 84, June, (2023) 104525. <https://doi.org/10.1016/j.jddst.2023.104525>. IF-4.5, Q1
7. Maqsood Ahamed, **Mohd Javed Akhtar**, Hisham Alhadlaq. Natural antioxidant curcumin attenuates NiO nanoparticle-induced cytotoxicity in mouse spermatogonia cells: A mechanistic study. *Journal of King Saud University – Science*, Volume 35, Issue 4, May 2023, 102624. <https://doi.org/10.1016/j.jksus.2023.102624>. IF-3.7, Q1
8. Maqsood Ahamed, **Mohd Javed Akhtar**, MA Majeed Khan, Hisham Alhadlaq. Protocatechuic acid mitigates CuO nanoparticles-induced toxicity by strengthening the antioxidant defense system and suppressing apoptosis in liver cells. *Journal of King Saud University-Science* <https://doi.org/10.1016/j.jksus.2023.102585>. IF-3.7, Q1
9. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham Alhadlaq. A selective toxicity of Pt-coated Au nanoparticles in cancerous MCF-7 cells over non-cancerous HUVE cells. *Journal of King Saud University-Science* 35, (3), 102583, <https://doi.org/10.1016/j.jksus.2023.102583>. IF-3.7, Q1

Year 2022-

10. Maqsood Ahamed, Rashid Lateef, **Mohd Javed Akhtar**, Pavan Rajanahalli. Dietary Antioxidant Curcumin Mitigates CuO Nanoparticle-Induced Cytotoxicity through the Oxidative Stress Pathway in Human Placental Cells. *Molecules*. 30 October 2022; 27(21):7378. doi: <https://doi.org/10.3390/molecules27217378>. IF-4.2, Q2
11. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham Alhadlaq. Immunotoxic potential of nanoparticles of cerium oxide and gadolinium oxide in human monocyte (THP-1) cells. *Journal of King Saud University – Science*, 1 November, 2022, <https://doi.org/10.1016/j.jksus.2022.102291>. IF-3.7, Q1
12. Maqsood Ahamed, **Mohd Javed Akhtar**, M.A. Majeed Khan, Ponmurugan Karupiah. Antibacterial, antifungal, and anticancer potential of two-dimensional Ti₃C₂Tx MXene. *Materials Letters*, Volume 327, 15 November 2022, 133020, <https://doi.org/10.1016/j.matlet.2022.133020>. IF-4.1, Q2
13. Maqsood Ahamed, **Mohd Javed Akhtar**, Hisham A Alhadlaq. Combined effect of single-walled carbon nanotubes and cadmium on human lung cancer cells. *Environmental Science and Pollution Research*. 6 November 2022. <https://link.springer.com/article/10.1007/s11356-022-21933-0>. IF-4.1, Q2
14. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham Alhadlaq. CeO₂-Zn Nanocomposite Induced Superoxide, Autophagy and a Non-Apoptotic Mode of Cell Death in Human Umbilical-Vein-Derived Endothelial (HUVE) Cells. *Toxics* 16 May 2022, 10(5), 250; <https://doi.org/10.3390/toxics10050250>. IF-4.1, Q2
15. Maqsood Ahamed, **Mohd Javed Akhtar**, M.A. Majeed Khan, and Hisham A. Alhadlaq. Enhanced Anticancer Performance of Eco-Friendly-Prepared Mo-ZnO/RGO Nanocomposites: Role of Oxidative Stress and Apoptosis. *ACS Omega* 15 February 2022, 7, 8, 7103–7115. <https://doi.org/10.1021/acsomega.1c06789>. IF-2.8, Q2
16. Maqsood Ahamed, **Mohd Javed Akhtar**, MA Majeed Khan, Hisham A Alhadlaq. Facile green synthesis of ZnO-RGO nanocomposites with enhanced anticancer efficacy. *Methods* 199, 1 March 2022, 28-36; <https://doi.org/10.1016/j.ymeth.2021.04.020> IF-3.8, Q1-Q2

Year 2021-

17. ZabnAllah M Alaizeri, Hisham A Alhadlaq, Saad Aldawood, **Mohd Javed Akhtar**, Mabrook S. Amer, Maqsood Ahamed. Facile synthesis, characterization, photocatalytic activity and cytotoxicity of Ag-doped MgO nanoparticles.

18. Javed Ahmad, Rizwan Wahab, **Mohd Javed Akhtar**, Maqsood Ahamed. Cytotoxicity and apoptosis response of hexagonal zinc oxide nanorods against human hepatocellular liver carcinoma cell line. *Journal of King Saud University – Science*, 1 December 2021, 101658; <https://doi.org/10.1016/j.jksus.2021.101658>. IF-3.7, Q1
19. Maqsood Ahamed, **Mohd Javed Akhtar**, M. A. Majeed Khan, Hisham Alhadlaq. A Novel Green Preparation of Ag/RGO Nanocomposites with Highly Effective Anticancer Performance. *Polymers* 30 September 2021, 13(19), 3350; <https://doi.org/10.3390/polym13193350> IF-4.3, Q1
20. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham Alhadlaq. Anti-inflammatory CeO₂ nanoparticles prevented cytotoxicity due to exogenous nitric oxide donors via induction rather than inhibition of superoxide/nitric Oxide in HUVE Cells. *Molecules* 6 September 2021, 26(17), 5416; <https://doi.org/10.3390/molecules26175416>. IF-4.4, Q2
21. Maqsood Ahamed, **Mohd Javed Akhtar**, M. A. Majeed Khan, ZabnAllah M. Alaizeri, Hisham Alhadlaq. Facile synthesis of Zn-Doped Bi₂O₃ nanoparticles and their selective cytotoxicity toward cancer cells. *ACS Omega* 29 June 2021, 6, 27, 17353–17361. <https://doi.org/10.1021/acsomega.1c01467>. IF-2.8, Q2
22. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham Alhadlaq, Salman Alrokayan. Pt coated Au nanoparticles toxicity is preferentially triggered via mitochondrial nitric oxide/reactive oxygen species in human liver cancer (HepG2) cells. *ACS Omega* 28 May 2021, 6, 23, 15431–15441. <https://doi.org/10.1021/acsomega.1c01882>, IF-2.8, Q2
23. Maqsood Ahamed, **Mohd Javed Akhtar**, MA Majeed Khan, Hisham A Alhadlaq. SnO₂-Doped ZnO/Reduced Graphene Oxide Nanocomposites: Synthesis, Characterization, and Improved Anticancer Activity via Oxidative Stress Pathway. *International Journal of Nanomedicine* 8 January, 2021, (16);89-104. DOI <https://doi.org/10.2147/IJN.S285392>. IF-5.1, Q2.
24. Maqsood Ahamed, **Mohd Javed Akhtar**, Mohd Abdul Majeed Khan, Hisham Abdulaziz Alhadlaq. Co-exposure of Bi₂O₃ nanoparticles and bezo[a]pyrene-enhanced in vitro cytotoxicity of mouse spermatogonia cells. *Environmental Science and Pollution Research* 4 January, 2021; <https://doi.org/10.1007/s11356-020-12128-6>. IF-3.0, Q2

Year 2020-

25. Maqusood Ahamed, **Mohd Javed Akhtar**, Mohd Abdul Majeed Khan, Hisham A. Alhadlaq, Aws Alshamsan. Barium Titanate (BaTiO₃) Nanoparticles Exert Cytotoxicity through Oxidative Stress in Human Lung Carcinoma (A549) Cells. 22 November, *Nanomaterials* 2020, 10(11), 2309. <https://doi.org/10.3390/nano10112309>. IF: 4.2, Q2
26. Maqusood Ahamed, **Mohd Javed Akhtar**, Mohd Abdul Majeed Khan. Single-Walled Carbon Nanotubes Attenuate Cytotoxic and Oxidative Stress Response of Pb in Human Lung Epithelial (A549) Cells. *International Journal of Environmental Research and Public Health* 6 November 2020, 17, 8221. <https://doi.org/10.3390/ijerph17218221>. IF: 2.9, Q2
27. **Mohd Javed Akhtar***, Maqusood Ahamed, Hisham A. Alhadlaq. Gadolinium Oxide Nanoparticles Induce Toxicity in Human Endothelial HUVECs via Lipid Peroxidation, Mitochondrial Dysfunction and Autophagy Modulation. *Nanomaterials*. 26 August 2020, 10(9), 1675; <https://doi.org/10.3390/nano10091675> . Impact Factor: 5.0, Q1-Q2
28. Maqusood Ahamed, **Mohd Javed Akhtar**, Mohd Abdul Majeed Khan, Hisham A. Alhadlaq. Reduced graphene oxide mitigates cadmium-induced cytotoxicity and oxidative stress in HepG2 cells. *Food and Chemical Toxicology*, 143, 1 September 2020, 111515. <https://doi.org/10.1016/j.fct.2020.111515>. IF: 4.2, Q1
29. Maqusood Ahamed, **Mohd Javed Akhtar**, Mohd Abdul Majeed Khan, Hisham A. Alhadlaq. Alleviating effects of reduced graphene oxide against lead-induced cytotoxicity and oxidative stress in human alveolar epithelial (A549) cells. *J Appl Toxicol*. 27 March 2020. <https://doi.org/10.1002/jat.3980>. IF: 3.2, Q2
30. **Mohd Javed Akhtar***, Maqusood Ahamed, Salman A. Alrokayan, Ramamoorthy MM, Alaizeri ZM. High Surface Reactivity and Biocompatibility of Y₂O₃ NPs in Human MCF-7 Epithelial and HT-1080 Fibroblast Cells. *Molecules*. 3 March 2020; 25(5). <https://doi.org/10.3390/molecules25051137>. IF: 3.2, Q2
31. Maqusood Ahamed, **Mohd Javed Akhtar**, Mohd Abdul Majeed Khan. Investigation of Cytotoxicity, Apoptosis, and Oxidative Stress Response of Fe₃O₄-RGO Nanocomposites in Human Liver HepG2 cells. *Materials* (Basel). 2 February, 2020;13(3). <https://doi.org/10.3390/ma13030660> IF: 3.2, Q2
32. Maqusood Ahamed, **Mohd Javed Akhtar**, Zabnalla M. Alaizeri, Hisham A. Alhadlaq. TiO₂ nanoparticles potentiated the cytotoxicity, oxidative stress and apoptosis response of cadmium in two different human cells. *Environ Sci Pollut Res Int*. 1 April 2020;27(10):10425-10435. <https://doi.org/10.1007/s11356-019-07130-6>. IF: 4.2, Q2

33. Maqsood Ahamed, **Mohd Javed Akhtar**, Hisham A. Alhadlaq. Influence of silica nanoparticles on cadmium-induced cytotoxicity, oxidative stress, and apoptosis in human liver HepG2 cells. *Environmental Toxicology*. 1 May 2020; 35(5):599-608. <https://doi.org/10.1002/tox.22895>. IF:2.5, Q2
34. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham A. Alhadlaq, Sudhir Kumar, Salman A. Alrokayan. Mitochondrial dysfunction, autophagy stimulation and non-apoptotic cell death caused by nitric oxide-inducing Pt-coated Au nanoparticle in human lung carcinoma cells. *BBA - General Subjects*. 1 January 2020; 1864 (1), 129452 <https://doi.org/10.1016/j.bbagen.2019.129452>. IF: 3.6, Q2.

Year 2019-

35. Maqsood Ahamed, **Mohd Javed Akhtar**, Mohd Abdul Majeed Khan, Alaizeri ZM, Hisham A. Alhadlaq. Evaluation of the Cytotoxicity and Oxidative Stress Response of CeO₂-RGO Nanocomposites in Human Lung Epithelial A549 Cells. *Nanomaterials*. 2019, 9(12), 1709. <https://doi.org/10.3390/nano9121709>. Impact Factor: 4.2, Q2
36. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham A. Alhadlaq, Salman A. Alrokayan. Toxicity Mechanism of Gadolinium Oxide Nanoparticles and Gadolinium Ions in Human Breast Cancer Cells. *Current Drug Metabolism*. 2019 Nov 4. [10.2174/1389200220666191105113754](https://doi.org/10.2174/1389200220666191105113754). IF: 2.2, Q2-Q3
37. Hisham A. Alhadlaq, **Mohd Javed Akhtar**, Maqsood Ahamed. Different cytotoxic and apoptotic responses of MCF-7 and HT1080 cells to MnO₂ nanoparticles are based on similar mode of action. *Toxicology*. 2019, 411:71-81. DOI: <https://doi.org/10.1016/j.tox.2018.10.023>. IF: 4.2, Q2
38. Maqsood Ahamed, **Mohd Javed Akhtar**, Hisham A. Alhadlaq. Co-Exposure to SiO₂ Nanoparticles and Arsenic Induced Augmentation of Oxidative Stress and Mitochondria-Dependent Apoptosis in Human Cells. *Int J Environ Res Public Health*. 2019 Sep 1;16(17). <https://doi.org/10.3390/ijerph16173199>. IF: 2.4, Q2
39. Maqsood Ahamed, **Mohd Javed Akhtar**, Hisham A. Alhadlaq. Preventive effect of TiO₂ nanoparticles on heavy metal Pb-induced toxicity in human lung epithelial (A549) cells. *Toxicology In Vitro*. 2019 Jun; 57:18-27. <https://doi.org/10.1016/j.tiv.2019.02.004>. IF: 3.5, Q2
40. Ansari AA, Khan A, Labis JP, Alam M, Aslam Manthrammel M, Maqsood Ahamed, **Mohd Javed Akhtar**, Aldalbahi A, Ghaithan H. Mesoporous multi-silica layer-coated Y₂O₃:Eu core-shell nanoparticles: Synthesis, luminescent properties and cytotoxicity evaluation. *Mater Sci Eng C Mater Biol Appl*. 2019 Mar; 96:365-373. <https://doi.org/10.1016/j.msec.2018.11.046>. IF: 4.9, Q1
41. Maqsood Ahamed, **Mohd Javed Akhtar**, Mohd Abdul Majeed Khan, Salman A. Alrokayan, Hisham A. Alhadlaq. Oxidative stress mediated cytotoxicity and apoptosis response of bismuth oxide (Bi₂O₃) nanoparticles in human breast cancer (MCF-7) cells.

Chemosphere, 2019; 216:823-831. DOI: <https://doi.org/10.1016/j.chemosphere.2018.10.214>. IF: 3.2, Q1

Year 2018-

42. Maqsood Ahamed, **Mohd Javed Akhtar**, Mohd Abdul Majeed Khan, Hisham A. Alhadlaq. Oxidative stress mediated cytotoxicity of tin (IV) oxide (SnO₂) nanoparticles in human breast cancer (MCF-7) cells. **Colloids and Surfaces B: Biointerfaces**, 2018; 172; 152-160. DOI: <https://doi.org/10.1016/j.colsurfb.2018.08.040>. IF: 4.3, Q1-Q2
43. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham A. Alhadlaq, Salman A. Alrokayan. 2018. MgO nanoparticles cytotoxicity caused primarily by GSH depletion in human lung epithelial cells. **Journal of Trace Elements in Medicine and Biology**, 50; 283-290. DOI: <https://doi.org/10.1016/j.jtemb.2018.07.016>. IF: 3.2, Q2
44. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham A. Alhadlaq. 2018. Challenges facing nanotoxicology and nanomedicine due to cellular diversity. **Clinica Chimica Acta**. 2018 Oct 3;487:186-196. DOI: <https://doi.org/10.1016/j.cca.2018.10.004>. IF: 2.6, Q2
45. Javed Ahmad, Siddiqui MA, **Mohd Javed Akhtar**, Hisham A. Alhadlaq, Aws Alshamsan, Khan ST, Wahab R, Al-Khedhairi AA, Al-Salim A, Musarrat J, Saquib Q, Fareed M, Maqsood Ahamed. 2018. Copper doping enhanced the oxidative stress-mediated cytotoxicity of TiO₂ nanoparticles in A549 cells. **Human & Experimental Toxicology**. 2018; 37: 496-507 DOI: <https://doi.org/10.1177/0960327117714040>. IF: 2.06, Q4

Year 2017-

46. Maqsood Ahamed, Mohd Abdul Majeed Khan, **Mohd Javed Akhtar**, Hisham A. Alhadlaq, Aws Alshamsan. 2017. Ag-doping regulates the cytotoxicity of TiO₂ nanoparticles *via* oxidative stress in human cancer cells. **Scientific Reports** 2017; 7: 17662. <https://www.nature.com/articles/s41598-017-17559-9#Abs1>. IF: 4.2, Q1
47. Maqsood Ahamed, **Mohd Javed Akhtar**, Mohd Abdul Majeed Khan, Hisham A. Alhadlaq, Aldalbahi A. 2017. Nanocubes of indium oxide induce cytotoxicity and apoptosis through oxidative stress in human lung epithelial cells. **Colloids and Surfaces B: Biointerfaces** 156: 157-164. <https://doi.org/10.1016/j.colsurfb.2017.05.020> IF: 3.8, Q1
48. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham A. Alhadlaq, Aws Alshamsan. 2017. Mechanism of ROS scavenging and antioxidant signalling by redox metallic and fullerene nanomaterials: Potential implications in ROS associated degenerative disorders. **Biochimica et Biophysica Acta (BBA) - General Subjects**. 1861: 802-813. <https://doi.org/10.1016/j.bbagen.2017.01.018> Impact Factor: 3.60, Q2
49. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham A. Alhadlaq, Aws Alshamsan. 2017. Nanotoxicity of cobalt induced by oxidant generation and glutathione depletion in MCF-

7 cells. **Toxicology in Vitro** 40: 94-101. <https://doi.org/10.1016/j.tiv.2016.12.012> IF: 3.1, Q2

50. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham A. Alhadlaq. 2017. Therapeutic targets in the selective killing of cancer cells by nanomaterials. **Clinica Chimica Acta**, 469: 53-62. <https://doi.org/10.1016/j.cca.2017.03.020> Impact Factor: 2.9, Q2

Year 2016-

51. Maqsood Ahamed, **Mohd Javed Akhtar**, Mohd Abdul Majeed Khan, Hisham A. Alhadlaq, Aws Alshamsan. 2016. Cobalt iron oxide nanoparticles induce cytotoxicity and regulate the apoptotic genes through ROS in human liver cells (HepG2). **Colloids and Surfaces B: Biointerfaces**, 148: 665-673. <https://doi.org/10.1016/j.colsurfb.2016.09.047> IF: 3.9, Q1

52. **Mohd Javed Akhtar**, Salman A. Alrokayan, Hisham A. Alhadlaq, Maqsood Ahamed. 2016. Dose-dependent toxicity of copper oxide nanoparticles in human lung epithelial cells. **Toxicology and Industrial Health**, 32(5): 809-821. <https://doi.org/10.1177/0748233713511512> IF: 1.4, Q3

53. Maqsood Ahamed, **Mohd Javed Akhtar**, Hisham A. Alhadlaq, Aws Alshamsan. 2016. Copper ferrite nanoparticle-induced cytotoxicity and oxidative stress in human breast cancer MCF-7 cells. **Colloids and Surfaces B: Biointerfaces**, 142: 46-54. <https://doi.org/10.1016/j.colsurfb.2016.02.043>, IF: 3.9, Q1

54. Javed Ahmad, Hisham A. Alhadlaq, Aws Alshamsan, Siddiqui MA, Saquib Q, Khan ST, Wahab R, Al-Khedhairi AA, Musarrat J, Mohd Javed Akhtar, Maqsood Ahamed. 2016. Differential cytotoxicity of copper ferrite nanoparticles in different human cells. **Journal of Applied Toxicology**, 36:1284-1293. <http://onlinelibrary.wiley.com/doi/10.1002/jat.3299/abstract>, IF: 3.6, Q2

55. Maqsood Ahamed, Mohd Abdul Majeed Khan, **Mohd Javed Akhtar**, Hisham A. Alhadlaq, Aws Alshamsan. Role of Zn doping in oxidative stress mediated cytotoxicity of TiO₂ nanoparticles in human breast cancer MCF-7 cells. **Scientific Reports** 2016; 6: 30196. <https://www.nature.com/articles/srep30196> IF: 4.259, Q1

56. Maqsood Ahamed, **Mohd Javed Akhtar**, Khan MA, Hisham A. Alhadlaq, Salman A. Alrokayan. Cytotoxic response of platinum-coated gold nanorods in human breast cancer cells at very low exposure levels. **Environmental Toxicology** 2016, 31(1): 1344-1356. <https://www.ncbi.nlm.nih.gov/pubmed/25846798> IF: 2.937, Q2

Year 2015-

57. Maqsood Ahamed, **Mohd Javed Akhtar**, Hisham A. Alhadlaq, Mohd Abdul Majeed Khan, Salman A. Alrokayan. Comparative cytotoxic response of nickel ferrite nanoparticles in human liver HepG2 and breast MFC-7 cancer cells. **Chemosphere** 2015; 135: 278-288. <https://doi.org/10.1016/j.chemosphere.2015.03.079> IF: 4.4, Q1

58. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham A. Alhadlaq, Mohd Abdul Majeed Khan, Salman A. Alrokayan. Glutathione replenishing potential of CeO₂ nanoparticles

in human breast and fibrosarcoma cells. **Journal of Colloid & Interface Science** 2015; 453: 21-27. <https://doi.org/10.1016/j.jcis.2015.04.049> IF: 9.9, Q1

59. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham A. Alhadlaq, Mohd Abdul Majeed Khan, Salman A. Alrokayan. Antioxidative and cytoprotective response elicited by molybdenum nanoparticles in human cells. **Journal of Colloid & Interface Science** 2015; 457: 370-377. <https://doi.org/10.1016/j.jcis.2015.07.034> IF: 9.9, Q1
60. Maqsood Ahamed, **Mohd Javed Akhtar**, Hisham A. Alhadlaq, Salman A. Alrokayan. Assessment of the lung toxicity of copper oxide nanoparticles: Current status. **Nanomedicine (Lond.)** 2015; 10(15); 2365-2377. <https://doi.org/10.2217/nmm.15.72> IF: 4.727, Q1
61. **Mohd Javed Akhtar**, Hisham A. Alhadlaq, Salman A. Alrokayan, Maqsood Ahamed. Aluminum doping tunes band gap energy level as well as oxidative stress-mediated cytotoxicity of ZnO nanoparticles in MCF-7 cells. **Scientific Reports** 2015; 5: 13876. <https://www.nature.com/articles/srep13876> IF: 4.259, Q1
62. Hisham A. Alhadlaq, **Mohd Javed Akhtar**, Maqsood Ahamed. Zinc ferrite nanoparticles induced cytotoxicity and oxidative stress in different human cells. **Cell & Bioscience** 2015; 5: 55. doi: [10.1186/s13578-015-0046-6](https://doi.org/10.1186/s13578-015-0046-6) IF: 3.294, Q2
63. **Mohd Javed Akhtar**, Hisham A. Alhadlaq, Sudhir Kumar, Salman A. Alrokayan, Maqsood Ahamed. Selective cancer-killing ability of metal-based nanoparticles: implications for cancer therapy. **Archives of Toxicology** 2015; 89 (11): 1895-1907. <https://link.springer.com/article/10.1007/s00204-015-1570-1> IF: 5.901, Q1

Year 2014-

64. **Mohd Javed Akhtar**, Maqsood Ahamed, MAM Khan, Salman A. Alrokayan, Iqbal Ahmad, Sudhir Kumar. Cytotoxicity and apoptosis induction by nanoscale talc particles from two different geographical regions in human lung epithelial cells. **Environmental Toxicology** 2014; 29: 394-406. <http://onlinelibrary.wiley.com/doi/10.1002/tox.21766/full> IF: 2.937, Q2
65. **Mohd Javed Akhtar***, Maqsood Ahamed, Hisham A. Alhadlaq, Salman A. Alrokayan, Sudhir Kumar. Targeted anticancer therapy: overexpressed receptors and nanotechnology. **Clinica Chimica Acta** 2014; 436: 78-92. <https://doi.org/10.1016/j.cca.2014.05.004> IF: 2.9, Q2
66. Maqsood Ahamed, Ali D, **Mohd Javed Akhtar**, Hisham A. Alhadlaq. Nickel oxide nanoparticles exert cytotoxicity *via* oxidative stress and induce apoptotic response in human liver cells (HepG2). **Chemosphere** 2013; 93(10): 2514-2422. <https://doi.org/10.1016/j.chemosphere.2013.09.047> IF: 5.4, Q1

List of publications during Ph.D. (2010-2013)

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