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List of Publications 2015-2020

2020

- Kowsalya, E.; MosaChristas, K.; Jaqueline, C.; Balashanmugam, P.; Devasena, T., Gold nanoparticles induced apoptosis via oxidative stress and mitochondrial dysfunctions in MCF-7 breast cancer cells. *Applied Organometallic Chemistry* 2020
- Pannerselvam, B.; Durai, P.; Thiagarajan, D.; Song, H.; Kim, K.; Jung, Y.; Kim, H.; Rangarajulu, S., Facile Synthesis of Silver Nanoparticles Using Asian Spider Flower and Its In Vitro Cytotoxic Activity Against Human Breast Carcinoma Cells. *Processes* 2020, 8 (4).
- Ravishankar, H.; Mangani, A.; Shankar, M.; Joshi, M.; Devasena, T.; Parameswaran, S.; Subramaniam, K., Characterization of NCC-RbC-51, an RB cell line isolated from a metastatic site. *Histochemistry and Cell Biology* 2020, 153 (2), 101-109.

2019

- Gopalakrishnan, V.; Radha, K.; Devasena, T., Silver nanoparticles synthesised using *Andrographis paniculata* ameliorates oxidative stress in erythrocyte model. *Materials Research Express* 2019, 6 (8).
- Kanagarajan, S.; Thiagarajan, D., Carboxymethyl cellulose-functionalised magnetic nanocarriers for pH responsive delivery of Curcumin in cancer therapy. *Materials Research Express* 2019, 6 (1).
- Saranya, A.; Devasena, T.; Sivaram, H.; Jayavel, R., Role of hexamine in ZnO morphologies at different growth temperature with potential application in dye sensitized solar cell. *Materials Science in Semiconductor Processing* 2019, 92, 108-115.
- Sunderam, V.; Thiagarajan, D.; Lawrence, A.; Mohammed, S.; Selvaraj, A., In-vitro antimicrobial and anticancer properties of green synthesized gold nanoparticles using

Anacardium occidentale leaves extract. Saudi Journal of Biological Sciences 2019, 26 (3), 455-459.

- Veena, S.; Devasena, T.; Sathak, S.; Ysasve, M.; Vishal, L., Green Synthesis of Gold Nanoparticles from Vitex negundo Leaf Extract: Characterization and In Vitro Evaluation of Antioxidant-Antibacterial Activity. Journal of Cluster Science 2019, 30 (6), 1591-1597.

2018

- Dey, N.; Devasena, T.; Sivalingam, T., A Comparative evaluation of Graphene oxide based materials for Electrochemical non-enzymatic sensing of Curcumin. Materials Research Express 2018, 5 (2).
- Dhanraj, M.; Hanisha, R.; Senthil, B.; Devasena, T., Optical Sensing of Milk Adulterant Using Phytostabilized Metal Nanoparticles. Advanced Science Letters 2018, 24 (2), 824-827.
- Francis, A.; Devasena, T., Toxicity of carbon nanotubes: A review. Toxicology and Industrial Health 2018, 34 (3), 200-210.
- Francis, A.; Devasena, T.; Ganapathy, S.; Palla, V.; Murthy, P.; Ramaprabhu, S., Multi-walled carbon nanotube-induced inhalation toxicity: Recognizing nano bis-demethoxy curcumin analog as an ameliorating candidate. Nanomedicine-Nanotechnology Biology and Medicine 2018, 14 (6), 1809-1822.
- Preetha, K.; Devasena, T., Lycopene loaded gelatin nanoparticles induces internucleosomal DNA fragmentation and apoptosis in human breast adenocarcinoma cells. Materials Research Express 2018, 5 (6).
- Ranjani, B.; Kalaiyarasi, J.; Pavithra, L.; Devasena, T.; Pandian, K.; Gopinath, S., Amperometric determination of nitrite using natural fibers as template for titanium dioxide nanotubes with immobilized hemin as electron transfer mediator. Microchimica Acta 2018, 185 (3).
- Selvi, R.; Prasanna, A.; Niranjan, R.; Kaushik, M.; Devasena, T.; Kumar, J.; Chelliah, R.; Oh, D.; Swaminathan, S.; Venkatasubbu, G., Metal oxide curcumin incorporated polymer patches for wound healing. Applied Surface Science 2018, 449, 603-609.

2017

- Khaleelullah, M.; Murugan, M.; Radha, K.; Thiyagarajan, D.; Shimura, Y.; Hayakawa, Y., Synthesis of super-paramagnetic iron oxide nanoparticles assisted by brown

seaweed *Turbinaria decurrens* for removal of reactive navy blue dye. *Materials Research Express* 2017, 4 (10).

- Ramalingam, K.; Devasena, T.; Senthil, B.; Kalpana, R.; Jayavel, R., Silver nanoparticles for melamine detection in milk based on transmitted light intensity. *Iet Science Measurement & Technology* 2017, 11 (2), 171-178.
- Senthil, B.; Devasena, T.; Prakash, B.; Rajasekar, A., Non-cytotoxic effect of green synthesized silver nanoparticles and its antibacterial activity. *Journal of Photochemistry and Photobiology B-Biology* 2017, 177, 1-7.

2016

- Francis, A. P.; Ramaprabhu, S.; Devasena, T., Towards Intravenous Drug Delivery: Augmenting the Stability and Dispersity of Bis-Demethoxy Curcumin Analog by Bottom-Up Strategy. *Journal of Nanoscience and Nanotechnology* 2016, 16 (1), 1186-1189.
- Valantina, S.; Kumar, V.; Devasena, T., Selected Rheological Characteristics and Physicochemical Properties of Vegetable Oil Affected by Heating. *International Journal of Food Properties* 2016, 19 (8), 1852-1862.

2015

- Francis, A.; Ganapathy, S.; Palla, V.; Murthy, P.; Devasena, T., Future of nano bisdemethoxy curcumin analog: Guaranteeing safer intravenous delivery. *Environmental Toxicology and Pharmacology* 2015, 39 (1), 467-474.
- Malathi, B.; Mona, S.; Thiyagarajan, D.; Kaliraj, P., Immunopotentiating nano-chitosan as potent vaccine carter for efficacious prophylaxis of filarial antigens. *International Journal of Biological Macromolecules* 2015, 73, 131-137.
- Rajasekar, A.; Devasena, T., Facile Synthesis of Curcumin Nanocrystals and Validation of Its Antioxidant Activity Against Circulatory Toxicity in Wistar Rats. *Journal of Nanoscience and Nanotechnology* 2015, 15 (6), 4119-4125.
- Sambandam, B.; Devasena, T.; Islam, V. I. H.; Prakhya, B. M., Characterization of coal fly ash nanoparticles and their induced in vitro cellular toxicity and oxidative DNA damage in different cell lines. *Indian Journal of Experimental Biology* 2015, 53 (9), 585-593.

- Suganya, T. R.; Devasena, T., Exploring The Mechanism Of Anti-Inflammatory Activity Of Phyto-Stabilized Silver Nanorods. Digest Journal of Nanomaterials and Biostructures 2015, 10 (1), 277-282.
- Suganya, T. R.; Devasena, T., Green Synthesis of Silver Nanorods and Optimization of Its Therapeutic Cum Toxic Dose. Journal of Nanoscience and Nanotechnology 2015, 15 (12), 9565-9570.
- Durga, M.; Devasena, T.; Rajasekar, A., Determination of LC50 and sub-chronic neurotoxicity of diesel exhaust nanoparticles. Environmental Toxicology and Pharmacology 2015, 40 (2), 615-625.
- Durga, M.; Bharathi, S.; Murthy, P.; Devasena, T., Characterization and phytotoxicity studies of suspended particulate matter (SPM) in Chennai urban area. Journal of Environmental Biology 2015, 36 (3), 583-589.