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**List of Publications (Last 5 years)**

1. S. Vijayakumar, B. Vaseeharan, R. Sudhakaran, J. Jeyakandan, P. Ramasamy, A. Sonawane, A. Padhi, P. **Velusamy**, P. Anbu, C. Faggio (2019). Bioinspired Zinc Oxide Nanoparticles Using *Lycopersicon esculentum* for Antimicrobial and Anticancer Applications. *Journal of Cluster Science*.
2. S.C.B. Gopinath, L. Wang, R.D.A.A. Rajapaksha, P. Anbu, **P. Velusamy**, K. Pandian, M.K. Md Arshad, T. Lakshmipriya, C-G. Lee (2019). Photovoltaic and Antimicrobial Potentials of Electrodeposited Copper Nanoparticle. *Biochemical Engineering Journal*. Vol. 142, 97-104.
3. **P. Velusamy**, C.M. Srinivasa, G. Venkat Kumar, Y. Qurishi, C-H. Su, S. C. B. Gopinath (2018). A pH Stimuli thiol modified mesoporous silica nanoparticles: doxorubicin carrier for cancer therapy. *Journal of the Taiwan Institute of Chemical Engineers*. Vol. 87, 264-271.
4. S.C.B. Gopinath, S. Ramanathan, K. Hann Suk, P. Anbu, **P. Velusamy**, K. Pandian (2018). Characterization of reduced graphene oxide obtained from vacuum-assisted low-temperature exfoliated graphite. *Microsystem Technologies*. Vol.24, 5007-5016.
5. M. Divya, B. Vaseeharan, , M. Anjugam, A. Iswarya, S. Karthikeyan, **P. Velusamy**, M. Govindaraj N.S. Alharbif S. Kadaikunnan, J.M. Khaled, C. Vágvölgyi (2018). Phenoloxidase activation, antimicrobial, and antibiofilm properties of  $\beta$ -glucan binding protein from *Scylla serrata* crab hemolymph. *International Journal of Biological Macromolecules*. Vol. 114, 864-873.
6. R. Pachaiappan, E. Tamboli, A. Acharya, C-H. Su, SCB. Gopinath, Y. Chen, **P. Velusamy**, (2018). Separation and identification of bioactive peptides from stem of *Tinospora cordifolia* (Willd.) Miers. *PLoS ONE* 13(3): e0193717.
7. B. Abinaya, B. Manish, S. Meenakumari, T. Munusamy, M. Thirumurthy, N. Santhosh Kumar, **P. Velusamy**, R. Pachaiappan, (2018). Isolation, purification and characterization of proteinaceous fungal  $\alpha$ -amylase inhibitor from rhizome of *Cheilocostus speciosus* (J.Koenig) C.D.Specht. *International Journal of Biological Macromolecules*. Vol. 111: 39-51.
8. Chia-Hung Su, G. Venkat Kumar, S. Adhikary, P. Velusamy\*, K. Pandian, P. Anbu, (2017). Preparation of cotton fabric using sodium alginate-coated nanoparticles to

protect against nosocomial pathogens. *Biochemical Engineering Journal*. Vol. 117, 15: 28–35.

9. S. Vijayakumar, B. Vaseeharan, B. Malaikozhundan, N. Gopi, P. Ekambaram, R. Pachaiappan, P. Velusamy, K. Murugan, G. Benelli, R. Suresh kumar, M. Suriyanarayanamoorthy, 2017. Therapeutic effects of gold nanoparticles synthesized using *Musa paradisiaca* peel extract against multiple antibiotic resistant *Enterococcus faecalis* biofilms and human lung cancer cells (A549). *Microbial Pathogenesis*. Vol. 102, 173–183.
10. V. Gopinath, S. Priyadarshini, M F Loke, J. Arunkumar, E. Marsili, D. MubarakAli, P. Velusamy, J. Vadivelu, 2017. Biogenic synthesis, characterization of antibacterial silver nanoparticles and its cell cytotoxicity. *Arabian Journal of Chemistry*. Vol. 10,: 1107-1117.
11. Chia-Hung Su, **P. Velusamy**, G. Venkat Kumar, S. Adhikary, K. Pandian, P. Anbu, 2017. Studies of antibacterial efficacy of different biopolymer protected silver nanoparticles synthesized under reflux condition. *Journal of Molecular Structure*. Vol. 1128: 718-723.
12. M. Anjugam, A. Iswarya, T. Indumathi, B. Vaseeharan, R. Pachaiappan, N. Gopi, and **P. Velusamy**, 2016 Antibiofilm Competency of *Portunus pelagicus* Haemolymph and Identification of its Bioactive Compounds. *Journal of Aquaculture Research & Development*. Vol. 7: 444.
13. G. Venkat Kumar, Chia-Hung Su, **P. Velusamy**, 2016. Surface immobilization of kanamycin-chitosan nanoparticles on polyurethane ureteral stent to prevent bacterial adhesion. *Biofouling*. Vol. 32: 861-870.
14. G. Venkat Kumar, Chia-Hung Su, **P. Velusamy**, 2016. Preparation and characterization of kanamycin-chitosan nanoparticles to improve the efficacy of antibacterial activity against nosocomial pathogens. *Journal of the Taiwan Institute of Chemical Engineers*. Vol. 65: 574-583.
15. **P. Velusamy**, Chia-Hung Su, A. Shritama, G. Venkat Kumar, K. Pandian, 2016. Biopolymers regulate silver nanoparticle under microwave irradiation for effective antibacterial and antibiofilm activities. *PLoS One* Vol. 11(6): e0157612.
16. G. Venkat Kumar, Chia-Hung Su, **P. Velusamy**, 2016. Ciprofloxacin loaded genipin cross-linked chitosan/heparin nanoparticles for drug delivery application. *Materials Letters*. Vol. 180: 119-122.

17. **P. Velusamy**, G.Venkat Kumar, V. Jeyanthi, J. Das, and R. Pachaiappan, 2016. Bio-Inspired green nanoparticles: Synthesis, mechanism, and antibacterial application. *Toxicological Research*. Vol. 32: 95–102.
18. S. Shanthi, B. D. Jayaseelan, **P. Velusamy**, S. Vijayakumar, C.T. Chih, B. Vaseeharan, 2016. Biosynthesis of silver nanoparticles using a probiotic *Bacillus licheniformis* Dabhl and their antibiofilm activity and toxicity effects in *Ceriodaphnia cornuta*. *Microbial Pathogenesis*. Vol. 93: 70-77.
19. V. Jeyanthi, P. Anbu, M. Vairamani, **P. Velusamy**, 2016. Isolation of hydroquinone (benzene-1,4-diol) metabolite from halotolerant *Bacillus methylotrophicus* MHC10 and its inhibitory activity towards bacterial pathogens. *Bioprocess and Biosystems Engineering*. Vol. 39: 429-39.
20. V. Jeyanthi and **P. Velusamy**, 2016. Anti-methicillin resistant *Staphylococcus aureus* compound isolation from halophilic *Bacillus amyloliquefaciens* MHB1 and determination of its mode of action using electron microscope and flow cytometry analysis. *Indian Journal of Microbiology*. Vol. 56: 148-157.
21. **P. Velusamy**, R. Pachaiappan, M. Christopher, B. Vaseeharan, P. Anbu, and J-S. So, 2016. Isolation and identification of a novel fibrinolytic *Bacillus tequilensis* CWD-67 from dumping soils enriched with poultry wastes. *Journal of General and Applied Microbiology*. Vol. 61: 241–247.
22. **P. Velusamy**, Su Chia-Hung, A. Shritama, G. Venkat Kumar, V. Jeyanthi, K. Pandian, 2016. Synthesis of oleic acid coated iron oxide nanoparticles and its role in anti-biofilm activity against clinical isolates of bacterial pathogens. *Journal of the Taiwan Institute of Chemical Engineers*. Vol. 59: 450-456.
23. **P. Velusamy**, J. Das, R. Pachaiappan, B. Vaseeharan, K. Pandian, 2015. Greener approach for synthesis of antibacterial silver nanoparticles using aqueous solution of neem gum (*Azadirachta indica* L.). *Industrial Crops and Products*. Vol. 66: 103–109.
24. **P. Velusamy** and J. Das, 2014. Identification and characterization of antifungal chitinase from *Bacillus subtilis* JD-09 and their role in inhibition of viable fungal growth. *International Journal of Pharmacy and Pharmaceutical Sciences* Vol. 6: 232–235.
25. J. Das, **P. Velusamy**, 2014. Catalytic reduction of methylene blue using biogenic gold nanoparticles from *Sesbania grandiflora* L. *Journal of the Taiwan Institute of Chemical Engineers*. Vol. 45: 2280–2285.