

Dr. PRASEETHA, P. K.

Professor and Head, Department of Nanotechnology,

(DST- FIST sponsored Department- 2018)

Noorul Islam Centre for Higher Education, p

Accredited by NAAC with 'A' Grade

Kumaracoil, Kanyakumari District, Tamil Nadu – India

Ph: +919486855091, E. Mail: nanohod@niuniv.com, crkpkp@gmail.com

URL: <http://www.niuniv.com>

JOURNAL PUBLICATIONS

1. B.V. Vibala, **P.K. Praseetha***, S. Vijayakumar, Evaluating new strategies for anticancer molecules from ethnic medicinal plants through in silico and biological approach - A review, Gene Reports, 2019, 100553 (Elsevier. IF. 0.6)
2. P. Manogar, S. Vijayakumar*, S. Rajalakshmi, M. Pugazhenth, **P.K. Praseetha**, S. Jayanthi, In silico studies on CNR1 receptor and effective cyanobacterial drugs: Homology modelling, molecular docking and molecular dynamic simulations, Gene Reports 17, 2019, 100505 (Elsevier. IF. 0.6)
3. S. Vijayakumar*, P. Arulmozhi, N. Kumar, B. Sakthivel, S. Prathip Kumar, **P.K. Praseetha**, *Acalypha fruticosa* L. leaf extract mediated synthesis of ZnO nanoparticles: Characterization and antimicrobial activities, Materials Today: Proceedings, **2019** (In Press) (Elsevier. IF. 1.0)
4. Arulmozhi P., Vijayakumar S*, **Praseetha P.K.**, Jayanthi S., Extraction methods and computational approaches for evaluation of antimicrobial compounds from Capparis zeylanica L. Analytical Biochemistry journal, 572, 33-44, **2019**, (Elsevier. IF 2.2).
5. S. Vijayakumar*, P. Manogar, S. Prabhu, M. Pugazhenth, **P.K. Praseetha**, A pharmacoinformatic approach on Cannabinoid receptor 2 (CB2) and different small molecules: Homology modelling, molecular docking, MD simulations, drug designing and ADME analysis. Computational Biology and Chemistry 78, 95–107, **2019** (Elsevier. IF. 1.4)
6. Sharmistha Dutta Choudhury* , Jiddhu M. Chethodil, Poojan Milan Gharat, **Praseetha P. K.**, and Haridas Pal, Insight on Molecular and Surface State Photoluminescence of Carbon Dots Revealed Through Solvent Induced Modulations in their Excitation Wavelength Dependent Emission Properties. J. of Photochemical and photobiological Sciences, 18, 110-119, **2019**. (RSC, IF. 2.9)
7. M. Anto Godwin, K. Mahithashri, O. Jeba Shiney, Madhulika Bhagat, and **P. K. Praseetha***, Metal Incorporated g-C3N4 Nanosheets as Potential Cytotoxic Agents for Promoting Free Radical Scavenging in Cancer Cell Lines, Journal of Nanoscience and Nanotechnology, 19(1),1-8, **2019**.(ASP, IF. 1.3)
8. Vijayakumar Subramaniyan*, Morvin Yabesh Jobu Ester, Arulmozhi, Praveenkumar, Manogar Palani, **P.K. Praseetha**, Identification and isolation of antimicrobial compounds from the flower extract of Hibiscus rosa-sinensis L: Insilico and Invitro approaches, Journal of Microbial Pathogenesis, 123, 527–535, **2018** (Elsevier, IF. 2.12).
9. Greeshma T, Philip S, Rimal Isaac R.S., **Praseetha P.K.**, Jiji S.G and Asha V.V*, Preparation of an efficient and safe polymeric-magnetic nanoparticle delivery system for sorafenib in Hepatocellular carcinoma, Life Sciences, 206, 10-21, **2018** (Elsevier, IF. 2.9)

10. S. Vijayakumar*, S. Mahadevan, P. Arulmozhi, S. Sriram, **P.K. Praseetha**, Green synthesis of Zinc Oxide nanoparticles using *Atalantia monophylla* leaf extracts: Characterization and antimicrobial analysis, *Materials Science in Semiconductor Processing*, 82, 39-45, **2018 (Elsevier, IF- 2.3)**
11. Sharmistha Dutta Choudhury, Jiddhu M. Chethodil, Poojan Milan Gharat, **Praseetha P. K.**, and Haridas Pal, pH-Elicited Luminescence Functionalities of Carbon Dots: Mechanistic Insights, *J. Phys. Chem. Lett.*, 8, 1389–1395, **2017. (ACS, IF-9.3)**
12. M. Prabu*, S. Gobalakrishnan, **P. K. Praseetha** and T. Arun, Dielectric properties of lanthanum doped Pb (Zr_{0.52}Ti_{0.48})O₃ Ferroelectric Nonoceramics, *Nanoscience and Nanotechnology Letters*. Vol.9, 723-728, **2016. (Springer, IF- 1.8).**
13. Bindhu B*, Sharu BK, Gopika MS, **Praseetha PK** and Veluraja Kasinadar, Molybdenum disulfide nanoflakes through Li-AHA assisted exfoliation in aqueous medium, *RSC Advances*, 6: 22026-22033, **2016 (RSC, IF- 3.84)**
14. M. Prabu*, I. B. Shameem Banu, S. Gobalakrishnan and **P. K. Praseetha**, Structural studies and electrical properties of PZT (52/48) electroceramics synthesized by sol-gel route, *Journal of Materials Science: Materials in Electronics*, 27: 5351–5356, **2016 (Springer, IF- 1.5)**
15. Swathy J.S., Sakthivel G. and **Praseetha P.K.***, Targeted therapy for breast cancer cells by herbal drug formulations of iron oxide nanoparticles, *Asian J. of pharma. and clin. res.* 9(1): 347-353, **2016 (IF- 0.7)**
16. Ravichandran, K*, R. Uma, B. Sakthivel, S. Gobalakrishnan & **P. K. Praseetha**, Influence of Co + F doping on the physical and antibacterial properties of ZnO nanopowders prepared by a simple soft chemical method. *J Mater Sci: Mater Electron.* 26(10): 7649-7654, **2015 (Springer, IF-2.0)**
17. Rimal Isaac* and **Praseetha P.K.**, Response Surface Optimization of MWCNT modified Carbon Paste Electrode for Zn(II) Determination- *International Journal of Electrochemical Science.* 10: 7303-7319, **2015 (IF-1.5)**
18. Arsula Rose, **Praseetha P.K.***, Princy Alexander, Sunitha abdeen, Madhulika Bhagat and Murthy Chavali. Drug embedded PVP coated magnetic nanoparticles for targeted killing of Breast cancer cells. *Technology in Cancer Research and Treatment.* 12(5): 463- 472. **2013 (TCRT, IF- 1.9)**

OTHER PEER REVIEWED JOURNAL PUBLICATIONS

1. Anooj E. S, **Praseetha P. K***, Lekshmi Gangadhar, Biomedical Applications of Cocoa Bean-Extract Mediated Graphene Quantum Dots as Antimicrobial, Anticancer and Plant Growth Regulators, *International Journal of Advanced Science and Technology*, 28(7), 417-431, **2019**
2. Vibala B. V., V. Suganthi, **P. K. Praseetha***, Evaluating the Biological Applications of *Myristica fragrans* Seeds for Bactericidal and Cytotoxic Effects, *Indian Journal of Public Health Research & Development*, 10(7), 33-38, **2019**
3. Vibala B. V., **P. K. Praseetha***, Evaluating the Biological Potential of Phyto-compounds from *Myristica fragrans* Seeds, *Indian Journal of Public Health Research & Development*, 10(7), 26-32, **2019**
4. Lekshmi Gangadhar, **P. K Praseetha***, Identification and Molecular Phylogenetic Relationship of Selected Medicinal Plants-Ethano Medicinal Importance, *Indian Journal of Public Health Research & Development*, Vol.10(7), 14-17, **2019**
5. Anooj E. S., V. Suganthi, **P. K. Praseetha***, Synthesis and Characterization of Graphene Quantum Dots from Turmeric Powder (*Berberis aristata*) and Its Biomedical

Applications, Indian Journal of Public Health Research & Development, Vol.10(7), 5-9, **2019**

6. Akhila Rajan, **P.K. Praseetha***, Methaq Hadi Lafta, V.N. Ariharan, S. T. Gopu Kumar, In-Vitro Chick Chorio allantoic Membrane Study Of Chitosan Capped 5-Fluorouracil Conjugated Gold Nanoparticles, Annals Of Tropical Medicine & Public Health, 19, 55-63, **2019**
7. Lekshmi Gangadhar and **P. K Praseetha***, A green approach to sustainable energy using Quantum dots, International Journal of Recent Technology and Engineering, 8(1), 2277-3878, **2019**
8. Lekshmi Gangadhar, Akhila Rajan, **P. K Praseetha***, Semiconductor Quantum Dots for Performance Improvement in Solar Cells, International Journal of Recent Technology and Engineering, 7(6), 11-17, **2019**.
9. Anooj E. S, **Praseetha P. K***, Synthesis and Characterization of Graphene Quantum Dots from Nutmeg Seeds and its Biomedical Application, International Journal of Recent Technology and Engineering, 7 (6), 144-151, **2019**.
10. Akhila Rajan, **Praseetha P.K***, Ariharan V.N, Gopu Kumar S.T Invitro Cytotoxic and Anti – Cancer Studies of Polyvinyl Alcohol Mediated 5fluorouracil Conjugated Gold Nanoparticles, International Journal of Recent Technology and Engineering, 7 (6), 127-143, **2019**
11. Lekshmi Gangadhar, Anusha Kannan and **P. K. Praseetha***, Quantum Dot-Sensitized Solar Cells via Integrated Experimental and Modeling Study, Journal of Computational and Theoretical Nanoscience, 16, 436-440, **2019**
12. Lekshmi Gangadhar and **P. K. Praseetha***, A Novel Modeling of Quantum Dot Sensitized Solar Cells, Journal of Computational and Theoretical Nanoscience, 16, 389–392, **2019**
13. K.V. Jayashree, S.T. Gopukumar, M. Murugan, **P.K. Praseetha*** and G.S. Shruthi, Biosorption activity on rubber effluent by Aquatic plants, Journal of Applied Science and Computations, 5 (9), 1227-1257, **2018**.
14. **Praseetha Prabhakaran Kala***, Fathima Mushrifa Anwar-Samath, Synthesis and Characterization of Graphene Flakes from Graphite by Using Biosurfactant - A Review, *Nano Biomed. Eng.*, 10(3), 235-242, **2018**.
15. E.S. Anooj, S.J. Sreelekshmi, S.T. Gopukumar, **P.K. Praseetha***, Evaluation of the Zinc Ferrite Nano particles for Bio-applications, Int. J. Pharm. Sci. Rev. Res., 46(1) 22-26 , **2017**
16. Anooj E.S., S.T. Gopukumar, and **P.K. Praseetha***, Synthesis and Characterization of carbon based nanostructures from natural sources, J. Global Trends Pharm Sci, 8(3): 4268 – 4277, **2017**
17. Akhila Rajan, S.T. Gopukumar, and **P.K. Praseetha***, Chitosan nanoparticles for drug delivery – A mini review, J. Global Trends Pharm Sci, 8(3): 4181 – 4190, **2017**
18. Princy Alexander, **Praseetha P.K***, S. Maria Celestin Vigila, Cytotoxicity, genotoxicity and cell adhesion study of electrospun silk/surface modified nanosilica composite for bone regeneration applications, Int J Pharma Bio Sci , July; 8(3): 366-372, **2017**
19. M. Jainamboo, S.T. Gopukumar and **P.K. Praseetha***, Improving the clinical efficacy of drugs by liposomes against resistant bacteria (MDR bacteria) – an *in vitro* study, Int J Pharma Bio Sci, July; 8(3): (p) 42-57, **2017**
20. Jainamboo M and **Praseetha P. K.***, Screening of Methicillin Resistant *Staphylococcus aureus* Isolates by Different Advanced Techniques in Hospital Settings, Research Journal of Pharmaceutical, Biological and Chemical Sciences 8(2), 2716-2725, **2017. (IF- 0.6)**
21. Dhevahi Elumalei, Jainamboo Meera, Balamurugan Santhalingam, Arvind Srinivasan, **Praseetha Ramakrishnan**, Subramanian. M.K, Sumathi Gnanadesikan, Fluoroquinolones resistant Escherichia coli, A uropathogen needs- urgent monitoring

and surveillance: A pilot study between 2014 to 2016. World journal of pharmaceutical and medical research, 2(6), 187-190. **2016.**

22. Anooj ES, Pavithra KH, Danie kingsley J, **Praseetha PK***, Biodiversity survey on Medicinal and Ornamental plants in VIT University, International Journal of Scientific & Engineering Research, 7(10), 1881- 1898, **2016.**
23. S.T. Gopukumar, Sana Fathima T.K., Princy Alexander, Vinotha Alex and **Praseetha P.K.** Evaluation of Antioxidant Properties of Silver Nanoparticle Embedded Medicinal Patch, Nanomedicine and Nanotechnology, 1 (1), 1-3, **2016**
24. Pavya T, **Praseetha PK***, Rimal Isaac R.S., Green Synthesis of Gold Nanoparticles Using Plant Sources for Cancer Therapy: A Review, Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7(5): 472-480, **2016. (IF- 0.6).**
25. Athifa Mariyam A, R. S. Rimal Isaac, and **P. K. Praseetha***, Phytochemical Profile and Pharmacognostic Properties of Adhatoda Species: A Review Adv. Sci. Eng. Med. 8, 669–675, **2016.**
26. Princy Alexander, Sana Fathima T.K, Jeniffa R and **Praseetha PK*.**, Scaffolds Used for Bone Tissue Regeneration: Review. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7(5), 1624-1636, **2016. (IF- 0.6)**
27. **Praseetha P.K***, M. Anto Godwin and P. Parthiban, Preparation and characterization of thin g-C₃N₄ nanosheet: special attention to photocatalytic activity under ultraviolet light, Advanced Science engineering and Medicine. Vol 8(10), 790-795, **2016.**
28. Princy Alexander, M. Jainamboo, **P.K. Praseetha***, S.T. Gopukumar, Silica Coated Liposomes for Drug Delivery towards Breast Cancer Cells – Rasayan Journal of chemistry, 9(3): 300-308, **2016.**
29. Sumathi Leema C, **Praseetha PK***, Rimal Isaac RS, Biopolymer from Natural Rubber and Starch: A Review, Am. J. Pharm Tech Res. 2016; 6(4): 28-40, **2016.**
30. **Praseetha P K***, Pratheeba, Lathika Somasundaram, G. Sakthivel, Plant based indian traditional medicine for neurodegenerative diseases - a novel approach to treat Alzheimer, Int J Pharm Bio Sci., 7(4): 83 – 92, **2016.**
31. Raziya fathima M, **Praseetha P K***, Rimal Isaac R S, Microbial Degradation of Plastic Waste: A Review, J. Pharm Chem Biol. Sci., 4(2): 231-242, **2016.**
32. Princy Alexander, **P.K. Praseetha***, Synthesis & Characterization of Silk/Surface Modified Silica Nanocomposites Using Sol - Gel Technique for Bone Applications, Int. J. Pharm. Sci. Rev. Res., 38(2): 252-255, **2016.**
33. Shafeeq busthan and **Praseetha P.K.***, Analysis of water purification efficiency of graphene sand nanocomposite- International Journal of Engineering Research in Africa, 24: 17-25, **2016.**
34. Rimal Isaac* and **Praseetha P.K.**, Zinc (II) ion selective electrodes, Int. J. Pharm. Sci. Rev. Res., 38(1), 41-50; **2016.**
35. Rimal Isaac RS* and **Praseetha PK**, Artificial neural network optimization of a carbon paste electrode for the detection of zinc ions, Nanobiomedicine and Engineering, 8(1): 47-53, **2016.**
36. Shana N. Shah, M. Murugan, S. T. Gopukumar and **P. K. Praseetha***, A comparative study of two selected *Ocimum* species with relevance to phytochemical, antimicrobial and molecular isolation, Journal of Chemical and Pharmaceutical Research, 8(3): 1014-1020, **2016. (IF-0.3)**
37. Jainamboo M. and **Praseetha P. K.***, Potential of Liposome-incorporated Antimicrobial drugs for treatment in clinically important bacterial strains, Journal of Chemical and Pharmaceutical Research, 8(2): 668-677, **2016. (IF-0.3)**
38. Sumayya P.A., Gopukumar S.T., Murugan M., and **Praseetha P.K.***, Estimation of phytochemical, antimicrobial and molecular comparison of fruit extracts of Garcinia

- cambogia and Tamarindus indica, Res. J. of pharma. Chem. & Bio. Sci. 7(1): 1256-1263, **2016 (IF- 0.6)**
39. Rimal Isaac R S*, Subin S, Prakash P and **Praseetha P K.**, Modeling of Concrete Composite Induced by Multi-walled Carbon Nanotubes Using Response Surface Methodology. International Journal of Engineering Research in Africa. 17: 8-13, **2016.**
 40. Gopukumar S.T., **P.K. Praseetha***, *Ficus benghalensis* Linn – The Sacred Indian Medicinal Tree with Potent Pharmacological Remedies, Int. J. Pharm. Sci. Rev. Res., 32(1): 223-227, **2015**
 41. Rimal Isaac*, Ashima B and **Praseetha P.K.**, Sonophotocatalytic degradation of methylene blue using synthesized M@TiO₂ nanocomposites (M=Ag,Pd,Au,Pt). Arab Journal of Physical Chemistry.2 (4): 90-96, **2014**
 42. RS Isaac*, U Manjusree Nair, **PK Praseetha.**, An electrochemical DNA-Prussian Blue-Carbon Paste Biosensor for the detection of Ascorbic acid in Pharmaceuticals, Control, Instrumentation, Communication and Computational Technologies, IEEE- 55-59, **2014**
 43. Shabi Ruskin R., V.M. Priya Kumari, S.T. Gopukumar, **P.K. Praseetha***. Evaluation of Phytochemical, Anti-Bacterial and Anti-Cancerous Activity of *Cissus quadrangularis* from South-Western Ghat Regions of India. Int. J. Pharm. Sci. Rev. Res., 28(1), 12-15, **2014**
 44. Chandrara C V, G Immanuel, Sangeetha V S, Greeshma SU, Anupa M P, Shabi Ruskin, **Praseetha P K***, A study on petroleum degrading *gordonia gpcvc1* isolated from pondicherry coast. International Journal of Biotechnology and Biosciences: Volume 4 (1): 41 – 47, **2014**
 45. Chandrara C.V, Sridevi K. and **Praseetha P.K***, Gopu Kumar S.T., Bioremediation of crude oil and hydrocarbons by actinomycetes with the enhanced production of bioactive compounds. J. of Chem. and Pharma. Res. 6(5): 1066-1071, **2014. (IF-0.3)**
 46. S. Abdeen. S. Geo, Sukanya M.K., **Praseetha P.K.*** Dhanya R.P, Biosynthesis of silver nanoparticles from Actinomycetes for therapeutic applications. Int. J.Nano Dimens. 5(2): 155-162, **2014**
 47. Sukanya M. K., Saju K. A., **P. K. Praseetha***, and G. Sakthivel. Therapeutic Potential of Biologically Reduced Silver Nanoparticles from Actinomycete Cultures. Journal of Nanoscience. 1:1-8, **2013**
 48. Sunitha Abdeen and **Praseetha P.K*** Diagnostics and Treatment of Metastatic Cancers with Magnetic Nanoparticles. J. Nanomed. Biotherap. Discov. 3:2, 115-125. **2013**
 49. Anupa M. P., Sangeetha V. S., **Praseetha P.K***, Emelda J. J., Jabaslin E. E. and Sugunan V. S. Anticancer enzymes from actinomycetes enhance therapy of tumor induced Mice. J. Microbiol. Biotech. Res., 3 (2):41-50. **2013**
 50. **Praseetha P.K***, and Princy Alexander. Targeted drug loaded liposomal nanoparticles for breast cancer cell lines. Wide spectrum. 1(9): 5-14. **2013**
 51. Sunitha Abdeen, Sweetly Geo, Rimal Isaac, Sornalekshmi S, Arsula Rose, **Praseetha P.K*** Evaluation of Antimicrobial Activity of Biosynthesized Iron and Silver Nanoparticles Using the Fungi *Fusarium oxysporum* and *Actinomycetes sp.* on Human Pathogens. Nano Biomed Eng. 5(1), 39-45: **2013**
 52. Arsula Rose, **Praseetha P.K*** and Sunitha abdeen. Inhibition of bacterial cultures by gold nanoparticles synthesized through *Plectranthus amboinicus* mediated green route. - Nanotrends Journal- 14(1): 19-23: **2013**
 53. **Praseetha P.K***, Sugunan V.S, Shabi R, Jegadambikadevi. S., Stress response of Actinomycetes to toxins in their bioremediation processes. *Journal of Microbiology and Biotechnology Research*. 2 (5):657-664. **2012.**
 54. **Praseetha P.K***, Anand S. Thampy, Venugopalan P., and Murthy S. Chavali. Advanced nanotechnological approaches for the diagnosis and cure of prion diseases. *Journal of Nano Biomed Eng.* 4(2): 50-57. **2012.**

55. **Praseetha P.K***, Supriya C.V., Chandraja C.V, Vijayalekshmi, B and Murthy S. Chavali, Targeted killing of colon cancer cells by titanium nanoparticles. *J. of Nanoscience letters*. 3(2): **2012**
 56. **Praseetha P.K***, Sugunan V.S and Ramesh R., Anticancer compounds from Actinomycetes inducing DNA damage in cancer cell lines. *Research and reviews in Biosciences*. 6(2):70-76, **2012**.
 57. Lekshmi Gangadhar, **Praseetha P.K*** and Murthy S. Chavali, Trends in nanotechnology towards the diagnosis and cure of arthritis. *Nanoscience and Nanotechnology – An Indian Journal*. 5(3,4): **2012**
 58. **Praseetha P.K***, Chandraja C.V, Sangeetha S, Shabi Ruskin and Anupa M.P, Actinomycetes- A future promise in cleaning up industrial pollutants. *Int. J. Agr. Env. & Biotech*. Vol. 4 (3): **2011**
 59. Chandraja C.V and **Praseetha P.K.**, Hydrographic studies and the relative distribution of Actinomycetes involved in the bioremediation of hydrocarbons of the western coast of Tamil Nadu. *J. of Scott Research Forum*. **2010**
 60. Sangeetha S, **Praseetha P.K** and Shabi Ruskin, Studies on the distribution of proteins in marine actinomycete strains. Current Scenario in Microbial Biotechnology. Excel India Publishers. New Delhi. ISBN: 978-93-80043-97-5. pp.322-326. **2010**
 61. Dhevendaran K*, and **Praseetha P.K.**, Studies on Streptomyces associated with seaweeds of Cape Comorin Tamil nadu. *Seaweed Research Utilization*. 4:245-252. **2004**
 62. Dhevendaran K*, **Praseetha P.K.**, Shanmugham R and Jasmine A., Studies on Streptomyces associated with seaweeds of Kovalam Coast, Kerala. *Seaweed Research Utilization*. 4:253-259. **2004**
- *Corresponding author**

BOOK PUBLICATIONS

1. K. Ravichandran, K. Swaminathan, **P.K. Praseetha** and P. Kavitha, Introduction to Nanotechnology, ISBN: 978-93-87360-40-2, pp. 198, Jazym Publishers, **2019**.
2. K. Ravichandran, **P.K. Praseetha**, T. Arun and S. Gobalakrishnan, Synthesis of Nanocomposites; Synthesis of Inorganic nanomaterials, ISBN: 978-0-08-101975-7, pp. 291. Wood head, **2018, Elsevier Publications**.