

List of Publications

1. V.P.Shetty, **P.B.Vidyasagar** and N.M.Antia, "Study and evolution of nerve damage in leprosy part III - Sciatic nerve lesions in mice correlates" *Leprosy in India*, **52**(1), 26-47 (1981)
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3. Gauri Deshpande, **P.B.Vidyasagar**, "A simple electronic based sine wave modulator to study the linear responses from the compound eye of cockroach, *Periplaneta Americana*", *Indian Jr. Expt. Biol.* (Aug. 1984)
4. **P.B.Vidyasagar**, P.S.Damle, M.N. Lokhandawalla "Study of the amplitude frequency function of the compound action potential recorded from normal and M.Leprao,infected mice using fourier series analysis". *Indian Journal of Leprosy in India* **58**(1) (1986)
5. **P.B.Vidyasagar** "Effect of cytochalasins on electrophysiological & electrical properties of cells", *Recent Advances in Cytochalasins*. Chapman & Hall, 11 New Peter Lane, London EC4P4EE (1986)
6. S.Pal, **P.B.Vidyasagar**,V.Ghole, "Effects of Vipera Labetina (*Turanica* C) venom on electrocardiogram of Swiss white mice by heart rate variability techniques", *Ind. Jr. of Expt. Biol.* **25**, 262-264 (Apr. 1987)
7. **P.B.Vidyasagar**, "Electrophysiological techniques", A tool for biophysicists, Association Biophysics Proceedings. pg 35-39 (1987-88)
8. G.R.Kulkarni, **P.B.Vidyasagar**, "Physics of vision" *Physics Education*, **5**, 156-160 (Oct. - Dec. 1988)
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11. Milan Banerjee, **P.B. Vidyasagar**, Ulhas Hegde, Subhash Pandhye "Chemical probes for water oxidation cycle of photosystem II : Part 2 - Effect of histidine modifying reagent on thermoluminescence peaks of Spinach chloroplasts", *Indian Journal Biochem. Biophys.* (1990)

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13. Sharad Nikum, Milan Banerjee, **P.B.Vidyasagar**, S.V.Bhoraskar, Suvarna Babras, “Tail states in hydrogenated amorphous silicon studied by thermoluminescence”, *Solid State Communications*, Vol. 80, No. 8, pp 563-566 (1991).
14. **P.B. Vidyasagar**, Book on Medical Instrumentation - I
15. **P.B. Vidyasagar**, *Manual for M.Sc. level experiments in Biophysics*
16. B.B. Kadu, **P.B. Vidyasagar**, “Blood lead levels by Atomic Absorption Spectrophotometry”, *Proc. of Acad. Environ. Biol.* **4**(1) 1–6, 1995.
17. **P.B. Vidyasagar**, Saumen Pal “Assesment of the toxicity level of gamma-irradiated snake (*Naja naja oxiana*) venom by photoacoustic spectroscopy”, *Ind. Jr. Phys.* **65** (B), pp 541-550, (1991).
18. Saumen Pal, **P.B. Vidyasagar**, Vrinda Khole, P S Damle and Vijay Khole, “Cardiotoxic effects of oxus cobra (*Naja naja oxiana* Eichwald) venom on Swiss Albino mice by heart rate variability technique”, *Indian J Expt Biology*, **25** p 262-264, (1991)
19. **P.B.Vidyasagar**, M.Banerjee, A T Palwe, G R Kulkarni, A D Shaligram and N M Kulkarni, “Study of energy transfer process in light absorbing pigments : chlorophyll, using positron annihilation technique”, *Materials Science Forum*, **105-110**, pp. 1757-1760, (1992)
20. S.Thomas, **P.B.Vidyasagar**, M Banerjee, U Hegde, and A D Shaligram, “Analysis of DCMU treated photosynthetic glow peaks using the general order kinetics model”, Proceedings of the DAE Symposium on “Photosynthesis and plant molecular Biology”, at Jawaharlal Nehru University, N.Delhi, March 1993, pg. 86-91.
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22. **P.B.Vidyasagar**, S.Thomas, M Banerjee, U Hegde and A.D.Shaligram, “Determination of peak parameters for TL glow curves obtained from spinach chloroplasts, using mathematical models based on general order kinetics”, *Jr. of Photochemistry & Photobiol* : B, **19**(2), 125-128, (1993)
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27. **P.B. Vidyasagar**, Sarah Thomas, G.M. Acharya, B.B.Chaugule, “Lead induced inhibition in the development of rice (*Oryza Sativa* L.) seedlings, studied by using the thermoluminescence technique and other related parameters”, *Proceedings of the National Acad. of Sciences, India (B:Biol)* 66(B) Special issue, 1996
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30. Jyoti Gaikwad, Sarah Thomas, S.D.Aghav and **P.B.Vidyasagar**, “ Damage caused to the photosynthetic apparatus due to the uncontrolled application of pesticide, endosulfan”, *Photosynthesis : Mechanisms and Effects* (Ed. : G.Garab) Vol. V, 3913-3916 (1998)
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analysis", Ind. J Med. Info., Vol. 1, No. 1, May 2004.

37. Pratip Shil, **P.B Vidyasagar**, K.P. Mishra. "Electrophoretic study of DNA for detecting drug induced cancer cell death". BARC Newslett. 249, 134-136. (2004)
38. Pratip Shil, Amit Kumar, **P.B. Vidyasagar**, K.P. Mishra, "Cell electroporation: biophysical basis and applications to cancer therapy". Physics Education 21(1): 17-28. (2004)
39. Manoj K Semwal , G.S Pant, **P.B Vidyasagar**, "Use of radiation and charged particles in cancer treatment(Processes and techniques)". Physics Education 21(1): 29-42. (2004)
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45. "Electroporation enhances radiation and doxorubicin induced toxicity in solid tumor in vivo", Pratip Shil, Amit Kumar, **Pandit B. Vidyasagar**, Kaushala P Mishra. *J Environ. Pathol. Toxicol. Oncol.*2006; 25(4): 625-632.
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61. Santosh Bhaskaran, Rohan Dudhale, Jyotsana Dixit, Ajit Sahasrabuddhe, **Pandit B. Vidyasagar** Growth of bioluminescent bacteria under modelled gravity of different astronomical bodies in the Solar system_Biological Physics (physics.bio-ph); Cell Behavior (q-bio.CB), Cornell University Library, 2011
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63. **Vidyasagar Pandit** and Jagtap Sagar. Effects on growth, development, chlorophyll content and their reversibility in rice and wheat seeds when exposed to altered (micro and hyper) gravity conditions. Manuscript submitted to Advances in Space Research, 2012.
64. Samarpita Roy, Sagar Jagtap, **Pandit Vidyasagar**, Praveen Saptarshi and Kondiram Dhumal. Photosynthetic performance and chlorophyll fluorescence in Sweet corn (*Zea mays* var. *saccharata*) grown under various organic manure amendments. Manuscript submitted to Journal of Sustainable Agriculture, 2012