

Recent Research Publications of Dr H.S. Virk (2009- 2011)

A. International Journals (Published 15, Accepted 1)

1. Virk H S (2009)
Heavy Ion Track Route to Nanotechnology.
Advanced Materials Research, 67, 115-120.
2. Poonam Sharma and Virk H S (2009)
Fabrication of nanoparticles of Barium carbonate/ oxalate using Reverse Micelle technique.
The Open Surface Science Journal 1, 23-28.
3. Virk H S, Kishore K and Baloria V (2010)
Fabrication of Copper Nanowires by Electrodeposition using Anodic Alumina and Polymer Templates.
Journal of Nano Research 10, 63-67.
4. Virk H S and Poonam Sharma (2010)
Heavy ion irradiation effects on Cadmium oxide (CdO) quantum dots prepared by quenching method.
Journal of Nano Research 10, 69-76.
5. Virk H S and Poonam Sharma (2010)
Fabrication of Nanoparticles and Nanowires using Reverse Micelle and Template Synthesis techniques.
Tata McGraw Hill Professional Publication, pp. 37-41.
6. Virk H S (2010)
Template synthesis of Cu-Se hetero-junctions using anodic alumina membrane and their characterization.
Digest J. of Nanomater. & Nanostructures, 5(3), 593-598.
7. Virk H S and Poonam Sharma (2010)
Synthesis, Characterization and Clustering Phenomenon of Zinc oxide nanocrystals.
Int. J. of Nanosci. & Nanotech. 1(1), 11-16.
8. Virk H S (2010)
Quantum Dots and Nanowires: Fabrication and Characterization.
International Journal of Advanced Engineering Technology, 1(2), 55-60.
9. Virk H S and Poonam Sharma (2010)
Chemical route to Nanotechnology.
International Journal of Advanced Engineering Technology, 1(3), 114-129.
10. H S Virk, Poonam Sharma and Rajshree Jotania, (2011)
Comparative study of Ba-M hexaferrite particles prepared using microemulsion

processing and co-precipitation techniques.

International Journal of Advanced Engineering Technology, 2(1), 131-143.

11. Hardev Singh Virk (2010)
Fabrication and Characterization of Copper Nanowires: An Overview.
Journal of NanoScience, NanoEngineering & Applications, 1(1), 1-14.
12. Hardev Singh Virk (2010)
Fabrication of polycrystalline copper nanowires by electrodeposition in anodic alumina membrane and their characterization. Nano Trends, 9(1), 1-9.
13. Poonam Sharma and Virk H S (2010)
Effect of co-surfactant and water to surfactant molar ratio on the CdS nanoparticles in microemulsion.
Nano Trends 9(3), 1-12.
14. Rajshree Jotania, Poonam Sharma and H.S. Virk (2011)
Effect of CTAB surfactant on the microstructural and magnetic properties of Barium hexaferrite.
J. Nanoscience Letters (Accepted)
15. Hardev Singh Virk (2010)
Our road map from Ion track technology to Nanotechnology.
MINDSHARE International Journal 1(1), 125-129.
16. Hardev Singh Virk (2010)
Template synthesis and morphology of CdS nanowire diode arrays using anodic alumina membranes.
MINDSHARE International Journal 1(1), 130-134.

B. National Journals (Published 5, Accepted 1)

17. Kumar R, Ali S, Naqvi A H, Virk H S, De U, Avasthi D K and Prasad R (2009).
Study of optical band gap and carbon cluster sizes formed in 100 MeV Si⁸⁺ and 145 MeV Ne⁶⁺ ion irradiated Polypropylene Polymer.
Indian Journal of Physics 83(7), 969-976.
18. Ravi Chand Singh, Manwinder Singh and Virk H S (2009)
Electrochemical etching technique for neutron dosimetry.
Indian Journal of Physics 83(6), 827-832.
19. Virk H S, Baloria V and Poonam Sharma (2009)
An Overview of Nanotechnology Research at DAV Institute of Engineering & Technology, Jalandhar.
Indian Science Cruiser, 23(4), 29-34.

20. Kumar R, Singh P, Virk H S and Prasad R (2010)
70 MeV Carbon C^{5+} ion induced modifications in polyethylene terphthalate (PET) polymer.
Indian J. Pure & Appl. Phys. 48, 16-19.
21. Singh P, Kumar R, Virk H S and Prasad R (2010)
Modification of optical, chemical and structural response of polymethyl methacrylate (PMMA) polymer by 70 MeV carbon ion irradiation.
Indian J. Pure & Appl. Phys. 48, 321-325.
22. Virk H S (2010)
90 MeV Carbon ion irradiation effects on Cadmium oxide quantum dots.
Current Science (Accepted)