A. Journal Articles

1. Ajimsha R.S., Das A.K., Singh B.N., Misra P., Kukreja L.M.
Correlation between electrical and optical properties of Cr:ZnO thin films grown by pulsed laser deposition
Physica B: Condensed Matter 406, 4578-83 (2011)

2. Arora V., Singhal H., Naik P.A., Gupta P.D.
Conversion efficiency and spectral broadening of the K-~ line emitted from planar titanium targets irradiated with ultra-short laser pulses of high intensity
Journal of Applied Physics 110, 083305-8 (2011)

3. Bhatt R., Ganesamoorthy S., Bhaumik I., Karnal A.K., Bhagavannarayanaa G.*, Gupta P.K.
Effect of annealing in Li-rich ambient on the optical absorption and crystallinity of Er doped $LiNbO_3$ crystals
Journal of Optoelectronics and Advanced Materials 13, 245-250 (2011)

4. Bhaumik I., Kumar S., Ganesamoorthy S., Bhatt R., Karnal A.K., Raja sekhar B.N.
Resonant Raman scattering in single crystal of congruent $LiTaO_3$: effect of excitation energy
Solid State Communications 151, 1869-1872 (2011)

5. Bhaumik I., Bhatt R., Ganesamoorthy S., Saxena A., Karnal A.K., Gupta P.K., Sinha A.K., Deb S.K.
Temperature-dependent index of refraction of monoclinic Ga_2O_3 single crystal
Applied Optics 50, 6006-6010 (2011)

6. Biswal R., Mishra G.K., Purbia G.S., Agrawal P.K., Prakash O., Dixit S.K., Mittal J.K.
A comparative study on thermal lensing characteristics of low (500 C) and high (1500 C) temperature variants of copper vapor laser
Optical Engineering 50, 084202-8 (2011)

7. Chatterjee S., Pavan Kumar Y.
Measurement of the surface profile of an axicon lens with a polarization phase-shifting shearing interferometer
Applied Optics 50, 6057-6062 (2011)

8. Chattopadhyay M.K., Sharma V.K., Chouhan A., Arora P., Roy S.B.
Combined effect of hydrostatic pressure and magnetic field on the martensitic transition in $Ni_{49}CuMn_{34}In_{16}$ alloy
Physical Review B 84, 064417-9 (2011)

9. Devadas K.M.*, Rahul S.*, Thomas S.*, Varghese N.*, Vinod K.*, Syamaprasad U.*, Pradhan S.*, Chattopadhyay M.K., Roy S.B.
Transport properties of sealed MgB_2/Fe/Ni multifilamentary wires heat treated in air
Journal of Alloys and Compounds 509, 8038-8041 (2011)

10. Dhamgaye V.P., Lodha G.S., Kane S.R.
Beam position measurements of Indus-2 using x-ray beam position monitor
Nuclear Instruments and Methods in Physics Research A 659, 525-527 (2011)

11. Gaur A.*, Gaur P.*, Sharma D.*, Sharma D.K.*, Singh N., Malik B.P.*
Study of transmittance dependence closed-aperture Z-scan curves in the materials with nonlinear refraction and strong absorption
Optik, (2011)

12. Ghodke D.V., Chatterjee K.*, Fernandes B.*
Modified soft switched three-phase three level, Dc-Dc converter for high power applications having extended duty cycle range
IEEE Transactions on Industrial Electronics 99, (2011)

13. Gupta Pooja, Gupta A.*, Shukla A.*, Ganguli T., Sinha A.K., Principi G.*, Maddalena A.*
Structural evolution and the kinetics of Cu clustering in the amorphous phase of Fe-Cu-Nb-Si-B alloy
Journal of Applied Physics 110, 033537 (2011)

14. Gupta P.D.
Laser applications in Indian nuclear power programme.
Energy Procedia 7, 560-576 (2011)

15. Idir M.*, Cywiak M.S.*, Morales A. M.* Modi M.H.
X-ray optics simulation using Gaussian superposition technique
Optics Express 20, 19050-19060 (2011)

16. Jain B., Gupta P.K., Das K., Uppal A.
Photodynamic action of rose Bengal silica nanoparticle complex on breast and oral cancer cell lines
Photochemistry and Photobiology 87, 1146-1151 (2011)

17. Jain S.*, Jain D.* Kumar Abhay
Comparative evaluation of stress in canine retained mandibular overdentures with three attachment designs: a 3D finite element analysis
Journal of the Indian Dental Association 5, 791-793 (2011)

18. Jangir R., Ganguli T., Tiwari P., Porwal S., Srivastava H., Rai S.K., Khattak B.Q., Oak, S.M.
Synthesis and characterization of Ga_2O_3 nanostructures grown on GaAs substrates
Applied Surface Science 257, 9323-9328 (2011)

19. Jayabalan J.
Origin and time dependence of higher-order nonlinearities in metal nanocomposites
Journal of the Optical Society of America B: Optical Physics 28, 2448-2455 (2011)

20. Khan A.F.*, Yadav R.*, Mukhopadhya P. K., Singh Sukhvir*, Dwivedi Charu*, Dutta V.*, Chawla S.*
Core shell nanophosphor with enhanced NIR visible upconversion as spectrum modifier for enhancement of solar cell efficiency
Journal of Nanoparticle Research 13, 6837-6846 (2011)

21. Khandelwal A., Sharma V.K., Sharath chandra L.S., Arora P., Chattopadhyay M.K., Roy S.B.
The magnetic properties across the martensitic transition in the $Co_{38}Ni_{34}Al_{28}$ alloy
Journal of Magnetism and Magnetic Materials 323, 1-6 (2011)

22. Kumar Shailendra, Mukherjee C., Dixit V.K., Singh S.D., Jha S.N.
Ultraviolet photoelectron spectroscopy of nano In clusters Schottky barriers on sputtered InP
Applied Surface Science 258, 143-146 (2011)

23. Kuroda D.G.* , Singh C.P., Peng Z.*, Kleiman V.D.*
Exploring the role of phase modulation on photoluminescence yield
Faraday Discussions 152, (2011)

24. Lal Shankar, Pant K.K., Krishnagopal S.
A novel scaling law relating the geometrical dimensions of a photocathode radio frequency gun to its radio frequency properties
Review of Scientific Instruments 82, 123304-10 (2011)

25. Lalasangi A.S.*, Akki J.F.*, Manohar K.G.*, Srinivas T.*, Raikar P.*, Kher S., Raikar U.S.*
Highly sensitive cadmium concentration sensor using long period grating
Sensors and Transducers 131, 52-60 (2011)

26. Late D.J.*, More M.A.*, Sinha S.*, Dasgupta K.*, Misra Pankaj, Singh B.N., Kukreja L.M., Bhoraskar S.V.*, Joag D.S.*
Synthesis and characterization of LaB_6 thin films on tungsten, rhenium, silicon and other substrates and their investigations as field emitters
Applied Physics A: Materials Science and Processing 104, 677-685 (2011)

27. Louie Frobel P.G.*, Suresh S.R.*, Mayadevi S.*, Sreeja S.*, Mukherjee C., Muneera C.I.*
Intense low threshold nonlinear absorption and nonlinear refraction in a new organic-polymer nanocomposite
Materials Chemistry and Physics 129, 981-989 (2011)

28. Mane M.L.*, Dhage V.N.*, Shirsath S.E.*, Sundar R., Ranganathan K., Oak S.M., Jadhav K.M.*
Nd:YAG laser irradiation effects on electrical properties of polycrystalline $Li_{0.5}Fe_{2.5}O_4$
Journal of Alloys and Compounds 509, (2011)

29. Mane M.L.*, Dhage V.N.*, Ranganathan K., Oak S.M., Jadhav K.M.*
Influence of Nd:YAG laser irradiation on AC impedance and dielectric properties of lithium ferrite
Radiation Effects and Defects in Solids 166, 435-444 (2011)

30. Manekar M.A., Roy, S.B.
Very large refrigerant capacity at room temperature with reproducible magnetocaloric effect in $Fe_{0.975}Ni_{0.025}Rh$
Journal of Physics D: Applied Physics 44, 242001-5 (2011)

31. Misra N.L.*, Kumar S.S.*, Dhara S.*, Singh A.K., Lodha G.S., Aggarwal S.K.*
A comparative study on determination of uranium and thorium in their mixed oxides by EDXRF using tube and radioisotope X-ray sources
X-Ray Spectrometry 40, 379-384 (2011)

32. Nath S.K., Dhawan R., Rai S., Lodha G.S., Sokhey K.J.S.
Structural and superconducting properties of ion beam sputtered Nb thin films and Nb/Cu bilayers
Physica C: Superconductivity and its Applications 472, 21-28 (2011)

33. Pandit P., Satapathy S., Sharma P.*, Gupta P.K., Yusuf S.M.*, Sathe V.G.*
Structural, dielectric and multiferroic properties of Er and La substituted $BiFeO_3$ ceramics
Bulletin of Materials Science 34, 899-905 (2011)

34. Parihar A.*, Dube A., Gupta P.K.
Conjugation of chlorin p 6 to histamine enhances its

cellular uptake and phototoxicity in oral cancer cells
Cancer Chemotherapy and Pharmacology 68, 359-369 (2011)

35. Potukuchi P.N.*, Sharath chandra L.S.*, Chattopadhyay M.K., Kanjilal D.*, Roy A.*, Roy S.B.
Superconducting properties of niobium after electron beam welding
Physical Review Special Topics - Accelerators and Beams 14, 1-9 (2011)

36. Pradhan G.K.*, Deb S.K., Ganguli T.
The phonon percolation scheme for alloys: extension to the entire lattice dynamics and pressure dependence
Japanese Journal of Applied Physics 50, 1-4 (2011)

37. Prakash O., Mahakud R., Dixit S.K.
Comparative study on second harmonic conversion and saturation characteristics of three copper vapor laser beams of same average power and different spatial coherence
Optical Engineering 50, 114201 (2011)

38. Prakash O., Kumar J., Mahakud R., Saxena P., Dubey V.K., Dixit S.K., Mittal J.K.
Influence of dye gain medium flow on the wavelength jitter and the drift of high repetition rate single axial mode dye lasers
Optics & Laser Technology 43, 1475-1481 (2011)

39. Prasad Y.B.S.R., Barnwal S., Naik P.A., Chakera J.A., Gupta P.D.
Chirped pulse interferometry for time resolved density and velocity measurements of laser produced plasmas
Journal of Applied Physics 110, 023305 (2011)

40. Prasad Y.B.S.R., Barnwal S., Bolkhovitinov E.A.*, Naik P.A., Kamath M.P., Joshi A.S., Kumbhare S.R., Rupasov A.A.*, Gupta P.D.
Study of self-generated magnetic fields in laser produced plasmas using a three-channel polaro-interferometer
Review of Scientific Instruments 82, 123506 (2011)

41. Rahul S.*, Varghese N.*, Vinod K.*, Devadas K.M.*, Thomas S.*, Anees P.*, Chattopadhyay M.K., Roy S.B., Syamaprasad U.*
Combined addition of nano diamond and nano SiO_2 an effective method to improve the in-field critical current density of MgB_2 superconductor
Materials Research Bulletin 46, 2036-2040 (2011)

42. Rai S.K., Das A., Srivastava A.K., Lodha G.S., Dhawan R.
Ion beam sputter deposited W/Si multilayers: influence of re-sputtering on the interface structure and structure modification at ultra short periods
Applied Surface Science 257, 10704-10709 (2011)

43. Rai V.N., Rajasekhar Raja B.N., Tiwari P., Kshirsagar R.J.*, Deb S.K.
Spectroscopic studies of gamma irradiated Nd doped phosphate glasses
Journal of Non-Crystalline Solids 357, 3757-3764 (2011)

44. Ram S.P., Mishra S.R., Tiwari S.K., Mehendale S.C.
Investigation of atom transfer using a red-detuned push beam in a double magneto-optical trap setup
Review of Scientific Instruments 82, 126108-3 (2011)

45. Rao S.B., Chakera J.A., Naik P.A., Kumar M., Gupta P.D.
Laser wake-field acceleration in pre-formed plasma channel created by pre-pulse pedestal of terawatt laser pulse
Physics of Plasmas 18, 093104 -10 (2011)

46. Saini R.K., Srivastava A.K., Gupta P.K., Das K.
pH dependent reversible aggregation of Chitosan and glycol-Chitosan stabilized silver nanoparticles
Chemical Physics Letters 511, 326-330 (2011)

47. Satapathy S., Pawar S.*, Gupta P.K., Varma K.B.R.*
Effect of annealing on phase transition in poly(vinylidene fluoride) films prepared using polar solvent
Bulletin of Materials Science 34, 727-733 (2011)

48. Saxena, P., Dubey, V.K. , Singh I.J., and Vora, H.S.
Programmable driver targets piezoelectric actuators
Electronics Design Strategy News 45, 45-47 (2011)

49. Selvamani R., Singh Gurvinderjit, Sinha A.K., Tiwari V.S.
Oxidation state of chromium in $(Na_{0.5}Bi_{0.5}TiO_3)_{(1-x)}$ $(BiCrO_3)_x$ solid solution; investigated by XAS and impedance spectroscopy
Journal of Materials Science 47, (2011)

50. Sharma A.K., Patidar R.K., Raghuramaiah M., Naik P.A., Gupta P.D.
Simple electro-optic technique to generate temporally flat-top laser pulses
Optics Communications 284, 4596-4600 (2011)

51. Sharma P., Verma Y., Rao K.D., Gupta P.K.
Single mode fiber based polarization sensitive optical coherence tomography using a swept laser source.
Journal of Optics 13, 115301-6 (2011)

52. Sharma T.K., Naveh D.*, Towe E.*
Strain-driven light-polarization switching in deep ultraviolet nitride emitters
Physical Review B - Condensed Matter and Materials Physics 84, 035305-8 (2011)

53. Sharma V.K., Chattopadhyay M.K., Roy S.B.
The effect of external pressure on the magnetocaloric effect of NiMnIn alloy
Journal of Physics Condensed Matter 23, 366001-11 (2011)

54. Sharma V.K., Najim M.*, Srivastava A.K., Varma G.D.*
Structural and magnetic studies on transition metal (Mn, Co) doped ZnO nanoparticles
Journal of Magnetism and Magnetic Materials 323, 1-7 (2011)

55. Singh M.K., Banerjee A.
Atomic-scale study of vapour growth morphology of crystalline urea
Crystal Research and Technology 46, 1035-1043 (2011)

56. Singh M.K., Banerjee A., Gupta P.K.
Role of molecular orientation and surface relaxation on vapor growth shape of molecular crystals
Crystal Growth Design, (2011)

57. Singh S.D., Porwal S., Srivastava A.K., Sharma T.K., Oak S.M.
Effect of built-in electric field on the temperature dependence of transition energy for InP/GaAs type-II superlattices
Journal of Applied Physics 110, 123523 (2011)

58. Sinha G., Prabhu S.S.
Force on a storage ring vacuum chamber after sudden turn-off of a magnet power supply
Physical review special topics - Accelerators and Beams 14, 102401-12 (2011)

59. Srivastava H., Tiwari P., Srivastava A.K., Rai S., Ganguli T., Deb S.K.
Effect of substrate texture on the growth of hematite nanowires
Applied Surface Science 257, 1-7 (2011)

60. Tarafder A.*, Annapurna K.*, Chaliha R.S.*, Karmakar B.*, Tiwari V.S., Gupta P.K.
Effects of nano-$LiTaO_3$ crystallization on the dielectric and optical properties in Er^{3+}- doped Li_2O $Ta_2O_5SiO_2$ Al_2O_3 Glasses
International Journal of Applied Ceramic Technology 8, 1031-1041 (2011)

61. Towe E.*, Sharma T.K.
Shortwave semiconductor laser:lattice constant is key to group III-nitride-based UV light emitters
Laser Focus World 47, 52-54 (2011)

62. Tripathi S.*, Mishra G.*, Kumar Vinit, Chouksey S., Kumar Ravi
Pulse requirements for field integral measurements in pulsed wire method
Nuclear Instruments and Methods in Physics Research A 635, 121-126 (2011)

63. Tyagi Y. , Puntambekar T. A.
An artificial neural network based method for beam position calculation in electron storage ring
Elixir Advanced Engineering Informatics 38, 4401-4403 (2011)

64. Tyagi Y. , Puntambekar T. A. , Saxena P.*, Tanwani S.*
Performance evaluation of noise reduction filters on electron beam images
Elixir Electrical Engineering 40, 5425-5429 (2011)

65. Uppal A., Jain Beena, Gupta P.K., Das K.
Photodynamic action of rose Bengal silica nanoparticle complex on breast and oral cancer cell lines
Photochemistry and Photobiology 87, 1146-1151 (2011)

66. Verma D.K.*, Rajan A., Rawat A.
Achieving optimized utilization of data centre space and power resources through 3D visualization
International Journal of Graphics & Image Processing (IJGIP) 1, 12-16 (2011)

67. Verma Y., Gautam M., Divakar Rao K., Swami M.K., Gupta P.K.
Imaging of human breast tissue using polarization sensitive optical coherence tomography
Laser Physics 21, 2143-2148 (2011)

68. Yadav R.P., Varde P.V.*, Chauhan A., Fatnani P.
Relay feedback-based critical parameter estimation for first order plus dead time type plant in networked control system configuration

International Journal of Modeling, Simulation, and Scientific Computing 2, 375-391 (2011)

B. Invited Talk

1. Chatterjee Sanjib
   International Conference on Trends in Optics and Photonics (ICONTOP 2011), Kolkata, Dec.,7-9, 2011

2. Chouksey S.
   Development of beamline radiation shielding hutch for Indus-2 synchrotron radiation source
   Proceeding of Conference on Accelerator Radiation Safety (CARS2011), Mumbai, Nov., 16-18,

3. Gupta P.K.
   Biophotonics - an introduction
   DST-SERC School: Lasers, Optical Engineering & Applications, Kolkata, Dec., 26, 2011

4. Gupta P.K.
   Biophotonics - studies at RRCAT
   Plenary talk at XXXVI OSI Symposium on Frontiers in Optics and Photonics (FOP 11), New Delhi, Dec., 3-5, 2011

5. Gupta P.K.
   Fluorescence spectroscopy for cancer diagnosis
   National Fluorescence Workshop, New Delhi, Nov., 15, 2011

6. Gupta P.K.
   Use of optical techniques to manipulate and probe cells intra-cellular objects
   Indo- UK Workshop on Recent Trends in Nanophotonics, New Delhi, Sept., 30, 2011

7. Gupta P.K.
   Biomedical applications of lasers
   National Physical Laboratory, New Delhi, Sept., 23, 2011

8. Gupta P.K.
   Optical manipulation and spectroscopic investigations on cells /intra-cellular objects
   HCU-TIFR Discussion Meeting on Modern Optics, Hyderabad, Aug., 1-3, 2011

9. Haridas G.
   Radiological safety research at Indus accelerator complex
   Conference on Accelerator Radiation Safety (CARS2011), Mumbai, Nov., 16-18, 2011

10. Joshi A.S.
    Glasses for high power lasers
    International Conference on Speciality Glass and Optical Fiber: Materials, Technology and Devices (ICGF 2011), Kolkata, Aug. 4-6, 2011

11. Joshi S.C.
    Present status of infrastructure facilities for SCRF cavity development
    2nd International Workshop on Accelerator-Driven Sub-Critical Systems & Thorium Utilization, Mumbai, Dec.,11-14, 2011

12. Kukreja L.M.
    Plasmonic properties of densely packed ensembles of gold nanoparticles grown by pulsed laser deposition
    National Seminar on Plasmonics and Applications at National Physical Laboratory, New Delhi, July 22-23, 2011

13. Kukreja L.M.
    Photoluminescence and random lasing in quantum dots of ZnO
    Indo-UK workshop on ZnO at Indian Institute of Science, Bangaluru, Aug., 29-30, 2011

14. Kukreja L.M.
    Quantum dots of ZnO: how do they grow and how do they glow?
    Walther – Meissner Seminar of Bavarian Academy of Sciences, Garching, Germany, Oct., 21, 2011

15. Kukreja L.M.
    Ultra-small quantum dots of ZnO
    Solid State Physics Colloquium, Ulm, Germany, Oct., 27, 2011

16. Kukreja L.M.
    Ultra-small quantum dots of ZnO grown by pulsed Laser deposition
    6th DAE-BRNS National Symposium on Pulsed Laser Deposition of Thin Films and Nanostructured Materials (PLD-2011), Bangaluru, Nov., 9-11, 2011

17. Kukreja L.M.
    Material processing with lasers
    Aeronautical Development Authority Seminar, Bangaluru, Nov., 12, 2011

18. Puntambekar A.M.
    Single-cell SC cavity development in India
    15th International Conference on RF Superconductivity (SRF-2011), Chicago, USA, July 25-29, 2011

C. Seminar/Conference Presentation

C1. 6th DAE-BRNS National Symposium on Pulsed Laser Deposition of Thin Films and Nanostructured Materials (PLD-2011), Bangaluru, Nov., 9-11, 2011

1. Ajimsha R.S., Das A.K., Misra P., Kukreja L.M.
   Studies on Structural, optical and electrical properties of Ga doped ZnO thin films grown by buffer assisted pulsed laser deposition.

2. Das A.K., Misra P., Kukreja L.M.
   Semiconductor to metal transition in transparent Al doped ZnO thin films grown by pulsed laser deposition

3. Misra P., Kukreja L.M.
   Correlation of structural, electrical and optical characteristics of pulsed laser deposited ZnO thin films on annealing

4. Rao B.T., Verma S., Gangrade M*, Ganesan V.*, Kukreja L.M.
   Factors affecting plasmon resonances in gold and silver nanoparticle films grown by pulsed laser deposition.

5. Sahu V.K., Ajimsha R.S., Das A.K., Saha D.B., Misra P., Kukreja L.M.
   Studies on the electrical characteristics of n-ZnO/p-Si grown by pulsed laser deposition for photodetecting applications

6. Singh B.N., Ajimsha R.S, Das A.K., Misra P., Kukreja L.M.
   Parametric studies on the compositional characteristics of ultra-thin silicon oxi-nitride grown using DC discharge assisted pulsed laser heating

7. Verma S., Rao B.T., Kukreja L.M.
   Surface enhanced Raman scattering from Densely packed gold nanoparticle films grown by pulsed laser deposition

C2 Conference on Accelerator Radiation Safety (CARS2011), Mumbai, Nov., 16-18, 2011

1. Haridas.G., Verma Dimple, Sahani P.K., Nayak M.K., Sarkar P.K.*
   Experimental determination of Bremsstrahlung dose rate due to accidental beam loss in Indus-1 storage ring

2. Verma Dimple, Sahu T. K., Khare M., Dashora S., Khan Saleem, Nayak M.K., Sahani P.K., Haridas G., Sarkar P.K.*
   Photon and neutron dose evaluation in experimental of Indus-1 synchrotron radiation source

3. Verma Dimple, Nayak M.K., Sahani P.K., Kumar Vijay, Dev Vipin, Sahu T.K., Dashora S., Khare M., Sinhamahapatra D., Haridas.G., Sarkar P.K.*
   Residual radioactivity measurements at Indus accelerator complex

4. Nayak M.K., Sahani P.K., Khare M., Sahu T. K, Haridas P., Dev Vipin, Dashora S., Dhamgaye V., Haridas G., Sarkar P.K.*
   Experimental investigation of synchrotron and Bremsstrahlung hazards at lithography beam line of Indus-2 SRS

5. Nayak M.K., Haridas G., Sahu T.K., Dashora S., Nandedkar R.V.*., Sarkar P.K*
   Bremsstrahlung source term determination for 450MeV electrons

6. Sahani P.K., Haridas.G., Sarkar P.K.*
   Simulation of absorbed dose rate due to synchrotron radiation and shielding thickness for radiation safety at Indus-2 using FLUKA

7. Sahani P.K., Haridas.G., Sarkar P.K.*
   Simulation of photo neutron spectra due to incident high energy electrons on tungsten target using FLUKA

8. Khan Saleem, Nayak M.K., Haridas.G., Sarkar P.K.*
   Evaluation of ozone concentration for a white beam line hutch at Indus-2 synchrotron Radiation Source

9. Dev V., Nayak M.K., Sahani P.K., Verma Dimple, Khare M., Kumar Vijay, Khan Saleem, Sahu T. K, Dashora S., Sinhamahapatra D.*, Haridas G., Sarkar P.K.*
   Radiation safety during the commissioning trials of synchrotron radiation beamlines of Indus-2

C3 26th National Symposium on Plasma Science & Technology, Patna, Dec. 19-22, 2011

1. Arora V., Bagchi S., Khan R.A., Gupta M., Chakera J.A., Gupta A., Naik P.A., Chaddah P., Gupta P.D.
   Study of shock wave propagation in silicon crystal by picosecond time resolved x-ray diffraction

2. Barnwal S., Prasad Y.B.S.R., Nigam S., Aneesh K., Naik P.A.,Chakera J.A., Sharma M.L., Navathe C.P., Gupta P.D.
Soft x-ray lasing at 46.9 nm from capillary discharge argon plasma

3. Chakravarty U., Arora V., Chakera J.A., Naik P.A., Srivastava H., Tiwari P., Srivastava A., Gupta P.D.
Hole size effect in hard x-ray emission from intense laser irradiated nanoholes

4. Chakravarty U., Singh M.P., Naik P.A., Gupta P.D.
Multiple electric field resonances in laser irradiated nanoshells

5. Kumar M., Singhal H., Naik P.A., Chakera J.A., Raja S., Gupta P.D.
Measurement of the spatial coherence of high order harmonic radiation from ultrashort laser produced plasma plumes

6. Rao B.S., Naik P.A., Chakera J.A., Bagchi S., Khan R.A., Gupta P.D.
Generation of stable electron beam from laser wake-field acceleration

7. Tayyab M., Chakera J.A., Bagchi S., Kumbhare S.R., Gaud V., Shinde R.S., Naik P.A., Gupta P.D.
Development of a Thomson parabola ion spectrometer for characterization of laser accelerated proton / ion beam

C4. Others Seminars/Conference Presentation

1. Chakera J.A., Tayyab M., Kumar M., Naik P.A., Gupta P.D.
Observation of neutrons in the interaction of high intensity laser pulses with solid targets
Inertial Fusion Science and Applications (IFSA-11), Bordeaux, France, Sept., 12-16, 2011

2. Chaubey S., Kher S., Oak S.M.
Radiation and taper tuning of long period grating for high sensitivity strain measurement
7th Workshop on Fibre and Optical Passive Components (WFOPC), July, 13-15, 2011

3. Hannurkar P.R., Jain Akhilesh, Lad M.R., Kumar Ramesh, Badapanda M.K., Tiwari N., Sharma Deepak, Gupta Alok, Tiwari A., Bagdual P.S., Rao N., Upadhyay R., Arora R., Prasad M., Sekar V., Gupta P.D.
Development of 505.8 MHz solid state RF amplifiers at RRCAT
ADS 2011, Mumbai, Dec., 12-15, 2011

4. Hannurkar P.R., Jain Akhilesh, Lad M.R., Kumar Ramesh, Tiwari N., Singh Gurnam, Gupta P.D.
Development of high power solid state RF amplifiers and their deployment in Indus-2 synchrotron radiation source,
INSAC 2011, Hyderabad, Nov., 25, 2011

5. Hannurkar P.R., Singh Gurnam, Shukla S.K., Thakurta A.C., Puntambekar T.A., Fatnani P., Prabhu S.S., Navathe C.P., Jain Akhilesh, Lad M.R., Kumar Ramesh, Badapanda M.K., Tiwari N., Gupta P.D.
Operation of Indus-2 with the support of high power solid state RF amplifiers,
ADS 2011, Mumbai, Dec., 12-15, 2011

6. Jain Akhilesh, Sharma Deepak, Gupta Alok, Tiwari A., Rao N., Sekar V., Lad M.R., Hannurkar P.R., Gupta P.D.
Development of 650 MHz solid state RF amplifier for proton accelerator
ADS 2011, Mumbai, Dec., 12-15, 2011

7. Jain Rajiv, Vora H.S.
A novel technique to visualize low speed free surface flow with PIV
National Symposium on Instrumentation (NSI-36), Bareilly, Oct., 20-22, 2011

8. Joshi A.S.
Determination of self generated magnetic fields and the plasma density using cotton mouton polarimetry with two color probes
Inertial Fusion Science and Applications (IFSA-11), Bordeaux, France, Sept., 12-16, 2011

9. Joshi A.S., Kamath M.P., Sharma A.K., Raghuramaiah M., Patidar R.K., Ansari M.S., Sridhar N., Chandra R., Navathe C.P., Naik P.A., Gupta P.D.
Development of a two arm, high energy, high power laser for laser-plasma research in India
Inertial Fusion Science and Applications (IFSA-11), Bordeaux, France, Sept., 12-16, 2011

10. Joshi S.C., Senecha V.K., Kumar V., Shrivastava P., Puntambekar T.A., Hannurkar P.R., Gupta P.D.
Status report of development of high current front end H- injector linac for SNS
2nd International Workshop on Accelerator Driven Sub-Critical Systems & Thorium Utilization, Mumbai, Dec., 11-14, 2011

11. Khan K.M., Krishna H.*, Rao K.D., Majumder S.K., Gupta P.K.
Depth-sensitive Raman spectroscopy combined with

optical coherence tomography for analysis of layered tissue
Proceedings of Frontiers in Optics & Photonics (FOP-11), Delhi, 2011

12. Khan K.M., Krishna H.*, Majumder S.K., Gupta P.K.
Raman spectroscopy for the detection of antibiotic in honey
Proceedings of Frontiers in Optics & Photonics (FOP-11), Delhi, 2011

13. Krishna H*, Majumder S.K., Sidramesh M.*, Chaturvedi P., Gupta P.K.
Studies on the influence of tobacco habit on the fluorescence spectra of healthy oral mucosa
Proceedings of Frontiers in Optics & Photonics (FOP-11), Delhi, 2011

14. Kumar A., Senecha V.K.
Cusp loss width in multicusp negative ion source: a rigorous mathematical treatment
AIP Conference Proceedings, 1390, 150-164 (2011)
2nd International Symposium on Negative Ions,Beams and Sources, Takaya City, Japan, Nov.,16-19, 2011.

15. Kumar M., Modi M.H., Singhal H., Chakera J.A., Gupta R.K., Naik P.A., Lodha G.S., Gupta P.D.
Measurement of absolute diffraction efficiency of a variable line spaced grating using reflectivity beamline
56th DAE Solid State Physics Symposium, Kattankulathur, Dec., 19-23, 2011

16. Misra P., Das A.K., Sahu V.K., Saha D.B., Ajimsha R.S., Kukreja L.M.
Natural chlorophyll impregnated nanocrystalline ZnO films for dye-sensitized solar cell application
Proc. 1st International Conference on BioInspired Materials for Solar Energy Utilization (BIOSOL 2011), Crete, Greece, Sept., 12-17, 2011

17. Naik P.A., Rao B.S., Gupta P.D.
Advanced acceleration schemes
2nd International Particle Accelerator Conference (IPAC-2011), San Sebastian, Spain, Sept., 5-9, 2011

18. Naik P.A., Arora V., Bagchi S., Prasad Y.B.S.R., Barnwal S., Gupta P.D.
Laser induced shock studies at RRCAT, Indore
23rd AIRAPT International Conference on High Pressure Science and Technology, Mumbai, Sept., 26-30, 2011

19. Puntambekar A.M., Bagre M., Dwivedi J., Shrivastava P., Mundra G., Joshi S.C., Potukuchi P.N.*
Superconducting cavities developments efforts at RRCAT
2nd International Workshop on Accelerator Driven Sub Critical System and Thorium Utilisation, Mumbai, Dec., 11-14, 2011

20. Sahu K., Verma Y., Sharma M., Rao K.D., Dube A., Gupta P.K.
Optical coherence tomography for non-invasive assessment of wound healing response in paeruginosa infected excisional wounds subjected to photodynamic treatment
Proceedings of Frontiers in Optics & Photonics (FOP-11), Delhi, 2011

21. Senecha V.K., Jain S.K., Ghodke D.V., Jain V., Srivastava V.K.,Mishra D., Vadjikar R.M., Kumar R., Joshi S.C.
Development of high current pulsed H- ion source and ECR ion source for the injector linac at RRCAT
2nd International Workshop on Accelerator Driven Sub-Critical Systems & Thorium Utilization, Mumbai, Dec., 11-14, 2011

22. Singh Surendra., Singh V., Tiwari V.B., Mishra S.R., Rawat H.S.
Effect on metastable Kr atom number density due to magnetic field near extraction region of a RF-driven discharge source
3rd International Conference on Current Developments in Atomic, Molecular, Optical and Nano Physics, New Delhi, Dec., 14-16, 2011

23. Thander P.K., Rajan A., Rawat A.
Designing high performance computing cluster
International Science Congress (ISC-2011), Indore, Dec., 24-25, 2011

24. Toley M.A.*, Shinde S.J.*, Nadkarni S.A.*, Sarkar S.K.*, Upadhayay J., Sharma M.L., Navathe C.P.
Capability enhancement of existing LINAC for continuously variable nanosecond pulse radiolysis investigations
Theme Meeting on Emerging Trends in Applications of Lasers & Accelerators in Nanomaterials (ETALAN-2011), Mumbai, Oct., 20- 21, 2011