



A. Journal Articles

1. Aditya L. K., Srivastava A.*, Sahoo S. K.*, Das P.*, Mukherjee C.*, Misra Abha*, Reddy V. R.*, Shinde R. S., Gupta A.*, Prasad S.*, Samajdar I.*, Nandedkar R.V.*, Venkataramani N.*
Growth of textured nanocrystalline cobalt ferrite thin films by pulsed laser deposition
Journal of Nanoscience and Nanotechnology **8**, 4135-4140 (2008)
2. Bajwa N.*, Ingale A., Avasthi D.K.*, Kumar R., Tripathi A.*, Keya D.*, Jindal V. K.*
Role of electron energy loss in modification of C60 thin films by swift heavy ions
Journal Applied Physics **104**, 54306 (2008)
3. Banerjee Arup, Ghanty T.K.*, Chakrabarti A.
Ab Initio studies of properties of small potassium clusters
Journal of Physical Chemistry A **112**, 12303-11 (2008)
4. Banerjee Arup, Autschbach J.*, Chakrabarti A.
Time-dependent density - functional - theory calculation of the Van der Waals coefficient C_6 of alkali-metal atoms Li, Na, K; alkali-metal dimmers Li_2 , Na_2 , K_2 ; sodium clusters Na_n ; and fullerene C_{60}
Physical Review A **78**, 032704-1-9 (2008)
5. Banik S.*, Rawat R.*, Mukhopadhyay P.K.*, Ahuja B.L.*, Chakrabarti A., Paulose P.L.*, Singh S.*, Singh A.K.*, Pandey D.*, Barman S.R.*
Magnetoresistance behavior of ferromagnetic shape memory alloy $Ni_{1.75}Mn_{1.25}Ga$
Physical Review B **77**, 224417-1-8 (2008)
6. Barman S.R.*, Chakrabarti A., Singh S.*, Banik S.*, Bhardwaj S.*, Paulose P.L.*, Chalke B.A.*, Panda A.K.*, Mitra A.*, Awasthi A.M.*
Theoretical prediction and experimental study of a ferromagnetic shape memory alloy: Ga_2MnNi
Physical Review B **78**, 134406-1-6 (2008)
7. Bhalerao G.M., Sinha A.K., Sathe V.
Defect-dependent annealing behavior of multi-walled carbon nanotubes
Physica E **41**, 54-59 (2008)
8. Bhardwaj S.*, Borage M., Tiwari S.
Simplified loss analysis and comparison of full-bridge, full-range-ZVS DC-DC converters
Sadhana **33**, 481-504 (2008)
9. Bhatnagar P.
Magnified self filtering unstable resonator (MSFUR)
Journal of Optics **37**, 25-29 (2008)
10. Biswas B., Kumar V., Chouksay S., Krinshagopal S.
Design, construction and characterization of a planar permanent magnet undulator
Pramana **71**, 1321-1333 (2008)
11. Borage M., Tiwari S., Bhardwaj S., Kotaiah S.
A full-bridge DC-DC converter with zero-voltage-switching over the entire conversion range
IEEE Transactions on Power Electronics **23**, 1743-50 (2008)
12. Bose B., Dube A.
Photodynamic efficacy of chlorin p6: A pH dependent study in aqueous and lipid environment
Journal of Photochemistry and Photobiology B: Biology, **93**, 32-35 (2008)
13. Chakera J.A., Ali A.*, Tsui Y.Y.*, Fedosejevs R.*
A continuous kilohertz $Cu K\alpha$ source produced by submillijoule femtosecond laser pulses for phase contrast imaging
Applied Physics Letters **93**, 26501-3 (2008)
14. Chatterjee S., Kumar P.Y.
Measurement of two-dimensional small angle deviation with a prism interferometer
Applied Optics **47**, 4900-4906 (2008)
15. Chattopadhyay M.K., Roy S.B., Morrison K.*, Moore J.D.*, Perkins G.K.*, Cohen L.F.*, Gschneidner K.A. Jr.*, Pecharsky V.K.*
Visual evidence of the magnetic glass state and its re-crystallization in Gd_5Ge_4
Europhysics letters **83**, 57006 (2008)
16. Chee Peng S.*, Mohanty S.K., Gupta P.K., Kishen A.*
Influence of endodontic chemical treatment on *Enterococcus faecalis* adherence to collagen studied with laser scanning confocal microscopy and optical



- tweezers: a preliminary study
Journal of Biomedical Optics 13, 044017, (2008)
17. Choyal Y.*, Gupta L.*, Deshpande P.*, Maheshwari K.R.*, Mittal K.C.*, Bapna S.C.
Development of a 2MW relativistic backward wave oscillator
Pramana: Journal of Physics 71, 1301-1310 (2008)
18. Dhaka R.S.*, Banik S.*, Shukla A.K.*, Vyas V.*, Chakrabarti A., Barman S.R.*, Ahuja B.L.* Sharma B.K.*
Electronic structure of alpha- and Beta-brass
Physical Review B 78, 073107-1-4 (2008)
19. Dinakaran S.*, Verma S., Raj C.J.*, Linet J.M.*, Krishnan S., Das S.J.*
Growth of bulk organic single crystal of benzoylglycine by unidirectional crystal growth method
Crystal Growth Design 9, 151-155 (2009)
20. Gilankar S.G., Kush P.K.
Experimental verification of capture coefficients for a cylindrical cryopanel of closed cycle refrigerator cryopump
Journal of Physics: Conference Series 114, 012058 (2008)
21. Gupta D.*, Paul C.P., Gandhi B.K.*, Gupta S.R.*, Nath A.K.*
Wear behavior of laser clad surfaces of Cr₃C₂, WC and Mo on austenitic AISI 304L steel
Journal of Laser Applied 20, 140-145 (2008)
22. George M.*, Muneera C.I.*, Singh C.P.*, Bindra K.S., Oak S.M.
Z-Scan studies and optical limiting of nano second laser pulses in neutral red dye
Journal of Optics and Laser Technology 40, 373 (2008)
23. Ghosh H.
Gigantic excited state optical non-linearities in one dimensional Mott-Hubbard insulators
American Institute of Physics Conference proceedings, 1014, 260 (2008)
24. Jayabalan J., Singh A., Chari R., Srivastava H.*, Mukhopadhyay P.K.*, Srivastava A.K.* Oak S.M.
Aggregated nanoplatelets: optical properties and optically induced deaggregation
Journal of Physics: Condensed Matter 20, 445222-1-8 (2008)
25. Kamath M.P., Tripathi P.K., Kulkarni A.P., Chandra R., Joshi A.S., Navathe C.P., Gupta P.D.
Design, development and performance characteristics of a large aperture disc amplifier for high power Nd: Glass laser chain
Sadhana 33, 443-53(2008)
26. Kar S., Bartwal K.S.
Cu²⁺ ion in-diffusion in congruent LiNbO₃ single crystals
Materials Letters 62, 3934-36 (2008)
27. Kar S., Verma S., Bartwal K.S.
Growth optimization and optical characteristics of Fe doped LiNbO₃ crystals
Crystal Growth and Design 8, 4424-4427 (2008)
28. Kar S., Ryu H.*, Bartwal K.S.
High Resolution XRD studies on Mg, Cr and Nd doped LiNbO₃ crystals
The Open Crystallography Journal 1, 1-5 (2008)
29. Kar S., Bartwal K.S.
Reduction of domain wall width in VTE treated near stoichiometric LiNbO₃ crystals
Crystal Research Technology 43, 679-82 (2008)
30. Kaul R., Mahajan S.*, Kain V.*, Ganesh P., Chandra K.*, Nath A.K.*, Prasad R.C.*
Laser surface treatment for enhancing intergranular corrosion resistance of AISI type 304 stainless steel
Corrosion 64, 755-63 (2008)
31. Keller M.D.*, Kanter E.M.*, Lieber C.A.*, Majumder S.K., Hutchings J.*, Ellis D.L.*, Beaven R.B.*, Stone N.*, Mahadevan-Jansen A.*
Detecting temporal and spatial effects of epithelial cancers with Raman spectroscopy
Disease Markers 25, 323-337 (2008)
32. Krishnan S., Bindra K.S., Oak S.M.
A sensitive and high dynamic range CW laser power meter
Review of Scientific Instruments 79, 125101 (2008)
33. Kukreja L.M., Koslowski B.*, Steiner R.*, Plettl A.*, Ziemann P.*

- Direct observation of slow morphological transformations and wetting behavior of pulsed laser deposited sub-monolayer gold on (0001) sapphire in atmosphere
Applied Surface Science **254**, 7336-7341 (2008)
34. Kumar S.*, Petwal V.C., Kaul A., Promod R., Bapna S.C., Soni H.C., Sharma A.*
Sprout inhibition in potato (*Solanum tuberosum* L.) with low energy electrons
Journal Food Science Technology **46**, 50-53 (2008)
35. Lal S., Pant K.K., Krishnagopal S.
A new two-step tuning procedure for a photocathode gun
Nuclear Instruments & Methods in Physics Research: Section A **592**, 180-189 (2008)
36. Lieber C.A. *, Majumder S.K., Ellis D.L. *, Billheimer D.D.*, Mahadevan-Jansen A.*
In vivo nonmelanoma skin cancer diagnosis using Raman microspectroscopy
Lasers in Surgery and Medicine **40**, 461-467 (2008)
37. Majumder S.K., Keller M.D.*, Boulos F.I.*, Kelley M.C.*, Mahadevan-Jansen A.*
Comparison of autofluorescence, diffuse reflectance, and Raman spectroscopy for breast tissue discrimination
Journal of Biomedical Optics **13**, 054009 (2008)
38. Manekar M.A., Roy S.B.
Reproducible room temperature giant magnetocaloric effect in Fe-Rh
Journal of Physics D: Applied Physics **41**, 192004 (2008)
39. Mohan S.R., Joshi M.P., Singh M.P.
Charge transport in disordered organic solids: a Monte Carlo simulation study on the effects of film morphology
Organic Electronics **9**, 355 (2008)
40. Mohanty S.K., Rao K.D., Gupta P.K.
Surface plasmon resonance enhancement: effects on optical trapping and manipulation of nano-objects
Journal of Nanophotonics **2**, 023509 (2008)
41. Mohanty S.K., Uppal A., Gupta P.K.
Optofluidic stretching of RBCs using single optical tweezers
Journal of Biophotonics **1**, 522-525 (2008)
42. Moore J.D.*, Perkins G.K.*, Morrison K.*, Ghivelder L.*, Chattopadhyay M.K., Roy S.B., Chaddah P., Gschneidner K.A. Jr.*, Pecharsky V.K.*, Cohen L.F.*
Local probing of arrested kinetics in Gd_5Ge_4
Journal of Physics: Condensed matter **20**, 465212 (2008)
43. Moorti A., Naik P.A., Gupta P.D., Bhat R.K.
Formation of single pinched plasma point in the cathode plasma jet of a multi-ps laser triggered vacuum discharge
Review of Scientific Instruments **79**, 93501 (2008)
44. Naik S.R.*, Rai S., Chattopadhyay M.K., Sharma V.K., Majumdar S.*, Lodha G.S.
Structural and transport properties of ferromagnetically coupled Fe/Si/Fe trilayers
Journal of Applied Physics **104**, 063525 (2008)
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Poling quality evaluation of periodically poled lithium niobate using diffraction method
Journal of Optical Society of Korea **3**, 205-209 (2008)
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Novel laser surface treatment approach to suppress sensitization in modified type 316(N)
Journal of Laser Applied **20**, 140-145 (2008)
47. Paul C.P., Khajepour A.
Automated laser fabrication of WC-Co components
Optics and Laser Technology **40**, 735-741 (2008)
48. Prakash O., Lim H.H.*, Kim B.J.*, Pandiyan K.*, Cha M.*, Rhee B.K.*
Collinear broadband optical parametric generation in periodically poled lithium niobate crystals by group velocity matching
Applied Physics B: Laser and Optics **92**, 535-541 (2008)
49. Raja Sekhar B.N., Choudhary R.J.*, Phase R.J.*, Kumar S.
Dispersion of resonant Raman peaks of CO and OH in SnO_2 , $Mo_{1-x}Fe_xO_2$ thin films and SiO_2 bulk glass



- Journal of Physics D: Applied Physics* **41**, 245302 (2008)
50. Rao B.S., Naik P.A., Arora V., Singhal H., Chakravarty U., Khan R.A., Gupta P.D., Nakajima K.*, Kameshima T.*
Initial experiments on laser based electron acceleration at RRCAT, Indore
IEEE Transactions Plasma Science **36**, 1694 (2008)
51. Roy G.B.
Synthesis and study of physico-chemical properties of a new chiral Schiff base ligand and its metal complex.
Inorganica Chimica Acta **1-6** (2008)
52. Roy S.B., Chaddah P., Pecharsky V.K.*, Gschneidner K.A. Jr.*
Overview No. 145 Metamagnetic transitions, phase coexistence and metastability in functional magnetic materials
Acta Materialia **56**, 5895 (2008)
53. Ryu H.*, Bartwal K.S.
An efficient co-doping of Eu and Er in CaAl_2O_4 aluminate phosphor
Physica B: Condensed Matter **403**, 3195-98 (2008)
54. Ryu H.*, Bartwal K.S.
Cr³⁺ doping optimization in CaAl_2O_4 ; Eu^{2+} blue phosphor
Journal of Alloys and Compound **464**, 317-21 (2008)
55. Ryu H.*, Bartwal K.S.
Influence of defects on photoluminescent characteristics of CaAl_2O_4 : Eu, Gd
Journal of Physics D: Applied Physics **41**, 235404-235407 (2008)
56. Ryu H.*, Bartwal K.S.
Investigations on luminescence characteristics of Eu and Cr codoped BaAl_2O_4
Materials Chemistry & Physics **111**, 186-189 (2008)
57. Ryu H.*, Bartwal K.S.
Operation by Eu luminescence in CaAl_2O_4 : Eu^{2+} alloys by Zn substitution
Journal of Alloys and Compound **461**, 395-398 (2008)
58. Ryu H.*, Lee J.B.*, Bartwal K.S.
Effect of Mg substitution on photoluminescence of $\text{Mg}_x\text{Ca}_{1-x}\text{Al}_2\text{O}_4$: Eu^{2+} , Nd^{3+}
Physica B: Condensed Matter **403**, 3822-3825 (2008)
59. Ryu H.*, Singh B.K., Bartwal K.S.
Synthesis and optimization of MWCNTs on Co-Ni/MgO by thermal CVD
Advances in Condensed Matter Physics **2008**, 1-6 (2008)
60. Satapathy S., Kumar S., Raja Sekhar B.N., Sathe V.G., Gupta P.K.
Resonant Raman of OH/OD vibrations and photoluminescence studies in LiTaO_3 thin films
Journal of Applied Physics **104**, 033542 (2008)
61. Satapathy S., Gupta P.K., Wadhawan V.K.*
The influence of a ferroelectric domain wall on the fabrication of a pyroelectric laser energymeter
Crystal Research Technology **43**, 390-395 (2008)
62. Satapathy S., Soni P.*, Gupta P.K., Dubey V.K., Varma K.B.R.*
Design and fabrication of dual mode pyroelectric sensor: high sensitive energymeter for Nd: YAG Laser and detector for chopped He-Ne Laser
Sensors & Transducers Journal **92**, 61-68 (2008)
63. Sen P.*, Sisodia*, Choubey R.K.* Kar S., Bartwal K.S.
Effect of MgO doping on coercive field in LiNbO_3 crystals
Journal of Nonlinear Optical Physics & Materials **17**, 175-183 (2008)
64. Sharma A., Panwar C.B., Arya R., Nath A.K.
Design of a high frequency SMPS Powering laser diode
Journal of Instrument Society of India **38**, 63-70 (2008)
65. Sharma T.K., Dixit V.K., Ganguli T., Singh S.D., Porwal S., Kumar R., Nath A.K.*
Optimization of the properties of MOVPE-grown GaP epitaxial layers on GaP (1 1 1)B substrates
Semiconductor Science and Technology **23**, 075031 (2008)



66. Sharma T.K., Hosea T.J.C.* , Sweeney S.J.* Tang X.*
An accurate determination of the electronic transitions of InAs/InGaAs/InP quantum dots for mid-IR lasers using simultaneous complementary spectroscopic techniques
Journal of Applied Physics **104**, 083109 (2008)
67. Sharma V.K., Chattopadhyay M.K., Roy S.B.
Studies on the field-induced martensite to austenite phase transition in Ni₅₀Mn₃₄In₁₆
Journal of Physics: Condensed Matter **20**, 425210-1-7 (2008)
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100W Kinetically enhanced copper vapor laser at 10 kHz Repetition-rate, high (~1.5%) efficiency with low (~1.6kW/l) specific input power and performance of new resonator configurations.
Optics Communications **281**, 4415-23 (2008)
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Performance of a 80W copper vapor laser with "alignment free" unstable CAT- EYE resonator and other configurations using intra-cavity apertures
Optics Communication **281**, 6080-6090 (2008)
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Influence of Cu addition on structure and hydrogen desorption characteristics of Ti_{0.16}Zr_{0.05}Cr_{0.22}V_{0.57} alloy
Materials Chemistry & Physics **112**, 686-689 (2008)
71. Singh C.P.*, Bindra K.S., Bhalerao G.M, Oak S.M.
Investigation of optical limiting in iron oxide nanoparticles
Optics Express **16**, 8440 (2008)
72. Singh S.P.*, Srivastava P.*, Prakash G.V.*, Modi M.H., Rai S., Lodha G.S.
Optical and structural characterization of rapid thermal annealed non-stoichiometric silicon nitride film
Journal of Physics: Condensed Matter **20**, 335232-1-5 (2008)
73. Singh S.* , Kumar R., Ganguli T., Srinivasa R.S.* , Major S.S.*
High optical quality ZnO epilayers grown on sapphire substrates by reactive magnetron sputtering of zinc target
Journal of Crystal Growth **310**, 4640 (2008)
74. Singh S.* , Kumar R., Ganguli T., Srinivasa R.S.* , Major S.S.*
Substrate temperature dependence of growth mode, microstructure and optical properties of highly oriented zinc oxide films deposited by reactive sputtering
Thin Solid Films **517**, 661 (2008)
75. Sinha G., Singh Gurnam
Design and characterization of combined function multipole magnet for accelerators
Review of Scientific Instruments **79**, 123302 (2008)
76. Sinha G., Sundararaman R.* , Singh Gurnam
Design concepts of optimized MRI magnet
IEEE Transactions on Magnetics **44**, 2351-2360 (2008)
77. Tiwari M.K., Lodha G.S., Sawhney K.J.S.* , Gowrisankar B., Singh A.K., Bhalerao G.M., Sinha A.K.* , Das A.* Verma A.* , Nandedkar R.V.*
Progress in total reflection X-ray fluorescence spectrometry at Raja Ramanna Centre for Advanced Technology
Current Science **95**, 603-09 (2008)
78. Tiwari V.B., Singh S., Rawat H.S., Singh M.P.
Measurements on impulsive force- induced dynamics of a cold ⁸⁵Rb atom cloud in a magneto-optical trap.
Journal of Physics B: Atomic, Molecular & Optical Physics **41**, 205301-1-9 (2008)
79. Tiwari V.B., Singh S., Rawat H.S., Mehendale S.C.
Cooling and trapping of ⁸⁵Rb atoms in the ground hyperfine F = 2 state
Physical Review A **78**, 063421 (2008)
80. Upadhyay J., Joshi M.J., Deshpande P.P., Sharma M.L., Navathe C.P.
A high voltage programmable ramp generator
Review of Scientific Instruments **79**, 054701 (2008)
81. Verma S., Muralidhar K.*
Three-dimensional reconstruction of convective features during crystal growth from solution using



computerized tomography
American Institute of Physics Conference Proceedings 1050, 103-114 (2008)

82. Verma S., Shlichta P.J.*
Imaging techniques for mapping solution parameters, growth rate, and surface features during the growth of crystals from solution
Progress in Crystal Growth and Characterization of Materials 54, 1-120 (2008)
83. Yadav B.S.*, Singh S.*, Ganguli T., Kumar R., Major S.S.*, Srinivasa R.S.*
Highly oriented GaN films grown on ZnO buffer layer over quartz substrates by reactive sputtering of GaAs target
Thin Solid Films 517, 488 (2008)
84. Yin Y.*, Yu W.*, Yu M.Y.*, Lei A.*, Yang X.*, Xu H.*, Senecha V.K.
Influence of target thickness on the generation of high-density ion bunches by ultrashort circularly polarized laser pulses
Physics of Plasmas 15, 093106 (2008)

B. Invited Talks

1. Banerjee Arup
Time-dependent density functional theory calculation of van der Waals co-efficient of metal clusters
International Conference of Computational Methods in Sciences and Engineering - 2008, Crete, Greece, Sep. 2008
2. Banerjee Arup
Collective oscillations of a Bose-Fermi mixture: Effect of unequal masses of Bose and Fermi particles,
International Conference on Cold Atoms, Kolkata, Dec. 2008
3. Ghosh H.
Doping dependent properties of Fe pnictides,
National Tsing Hua University, Taiwan, 28 Oct.2008
4. Gupta P.D.
Studies of high harmonic generation, electron acceleration and intense x-ray generation using Ti-sapphire laser pulses

Third International Conference on Ultrahigh Intensity Lasers: Development, Science and Emerging Applications (ICUIL'08), Shanghai-Tongli, China, 28-31 Oct. 2008.

5. Gupta P.D.
Ultra-intense laser-plasma interaction, opening new frontiers in high field physics for applications in nuclear science
23rd National Symposium on Plasma Science and Technology (PLASMA-2008) Mumbai, 10-13 Dec. 2008
6. Gupta P.K.
Biomedical applications of laser spectroscopy *SERC School on Laser Spectroscopy & Applications in Science & Technology*, Mumbai, 03-21 Nov. 2008
7. Gupta P.K.
Biophotonics
Photonics India Review 2008, Bangalore, 16-17 Oct. 2008
8. Gupta P.K.
Biophotonics - studies at RRCAT
Indo - UK Workshop on Fibre Optics, Photonics and Bio-Instrumentation, Cochin, 2-5 Sep. 2008
9. Gupta P.K.
Biophotonics - studies at RRCAT
19th mid-year meeting of the Indian Academy of Sciences, Bangalore, 4-5 Jul. 2008
10. Gupta P.K.
Optical studies on red blood cells
LALS2008 (The International Conference on Laser Applications in Life Science 2008), Taipei, Taiwan, 4-6 Dec. 2008
11. Gupta P. K.
Use of light to study and manipulate blood cells
International Conference on Fiber Optics and Photonics (PHOTONICS-2008), New Delhi, 15-17 Dec. 2008
12. Kukreja L.M.
A perspective of photonics with Zinc-oxide quantum structures
International Conference and Humboldt-Kolleg on Structural Characterization and Spectroscopy of Materials Relevant to Nanotechnology,



- Biomedicine and Geobiology*, Varanasi 7-9 Nov.2008
13. Kukreja L. M.
Nano-ZnO in photonics landscape
IEEE Photonics Global Conference, Singapore, 8-11 Dec. 2008
14. Kukreja L.M.
ZnO nanostructures
Applied Physics Seminar, Karlsruhe, Germany, 24 Oct. 2008
15. Manekar M. A.
Phase coexistence and its implications on the functional properties of the room-temperature giant magnetocaloric alloy Fe-Rh
53rd DAE Solid state physics symposium, Mumbai, 16-20 Dec. 2008
16. Mishra S. R.
Laser spectroscopy in atom traps
SERC School on Laser Spectroscopy and its Application in Science and Technology, Mumbai, Nov. 2008
17. Naik P.A.
Intensity enhancement of high order harmonics in pre-formed plasma plumes
Fourth Asian Symposium on Intense Laser Science, Gwangju, Korea, 3-6 Nov. 2008
18. Rawat A.
Mobile Ad-Hoc networks
Seminar on Latest Trends in Communication Technologies, Mhow, 19 Jul. 2008
19. Rawat A.
Computer simulation and modeling
Workshop on 'Digital Systems' by Advanced Technical Training Section, Indore, 21-22, Aug. 2008
20. Rawat A.
Simulation and modeling - concepts and prospects
Technical Lecture Series for Post Graduate Students, Indore, 30 Aug. 2008
21. Sharma T.K.
Complementary spectroscopic investigations on highly strained InGaAs/GaAs quantum wells and InAs/InGaAs/InP quantum dots
3rd International Workshop on Modulation Spectroscopy of Semiconductor Structures, Wroclaw, Poland, 3-5 Jul. 2008
22. Sharma T.K.
Studies on semiconductor lasers and detectors
(Invited by Prof. M. Bugajski), Warsaw, Poland, 2 Jul. 2008

C. Seminars/Conference Presentations

1. Agrawal P.K., Das B.P., Nakhe S.V
Conducted noise studies of high voltage pulsed power supply for copper vapor laser-a case Study
10th International Conference on Electromagnetic Interference and Compatibility (INCEMIC 2008), Bangalore, Nov. 2008
2. Agrawal R.K.
Ethernet communication
Workshop on Digital Systems by Advanced Technical Training Section, Indore, 21-22 Aug. 2008
3. Ansari M.S., Singh B. Navathe C.P.
Timing jitter of ECL ICs under high clock frequency and pulsed electromagnetic fields
10th International Conference on Electromagnetic Interference & Compatibility (INCEMIC 2008), Bangalore, Nov. 2008
4. Arora V., Singhal H., Naik P.A., Kumbhare S.R., Gupta P.D.
Spectral broadening of K- x-ray line emission from high-intensity ultra-short laser pulse irradiation of planar titanium targets
23rd National Symposium on Plasma Science and Technology (PLASMA-2008), Mumbai, 10-13 Dec. 2008
5. Bhawsar V, Arya R, Oak S M
Automatic control and interface for diode-pumped solid-state lasers with adjustable pulse parameters
National Symposium on Instrumentation (NSI-33), Visakhapatnam, 8-10 Dec.2008
6. Bolkhovitonov E.A.*, Krazushkin I.V.*, Rupasov A.A.*, Shikhanov A.S.*, Barnwal S., Prasad Y.B.S.R., Naik P.A., Kamath M.P., Joshi A.S., Gupta P.D.



- Optical probing diagnostics of laser produced plasmas by three-channel polarointerferometer
European Conference on Laser Interaction with Matter, ECLIM-2008, Germany, Aug.- Sep. 2008
7. Chakera J.A., Ali A.*, Tsui Y.Y.*, Fedosejevs R.*
Phase contrast imaging using sub-mJ, kilohertz femto-second laser produced Cu-Ka source
50th Annual Plasma Meeting (APS 2008), Dallas, U.S.A., 17-21 Nov. 2008
 8. Chakera J.A., Tsui Y.Y.*, Najafabadi N.*, Ali A.*, Fedosejevs R.*
Study of pre-pulse effect on generation of Quasi-Monoenergetic electrons in gas jets
50th Annual Plasma Meeting (APS 2008), Dallas, U.S.A., 17-21 Nov. 2008
 9. Chakrabarti A., Banerjee Arup, Ghanty T.K.*
A Comparative study of optical absorption spectra of sodium and potassium clusters: probing the influence of size and shape by time-dependent density functional theory,
2nd DAE-BRNS International Symposium on Material Chemistry, Mumbai, 2-6 Dec. 2008
 10. Chakravarty U., Naik P.A., Rao B.S., Arora V., Singhal H., Khan R.A., Gupta P.D.
Enhanced x-ray emission in the water window region using ultra-short pulse lasers with carbon nano-fibre targets
5th International Symposium on Modern Problems in Laser Physics : MPLP-08, Novosibirsk, Russia, Aug. 2008.
 11. Chakravarty U., Naik P.A., Kumbhare S.R., Gupta P.D.
Efficient keV x-ray generation from irradiation of silver clusters by Ti:sapphire laser pulses
4th Asian Symposium on Intense Laser Science, Gwangju, Korea, Nov. 2008
 12. Chakravarty U., Naik P.A., Bhat R.K., Gupta P.D.
X-ray emission enhancement in various forms of carbon target under irradiation by ultrashort laser pulses
4th Asian Symposium on Intense Laser Science, Gwangju, Korea, Nov. 2008
 13. Dev V., Haridas P., Kherde A.D., Haridas G., Bhatnagar V., Thakur D.S., Gupta R.K., Fatnani P., Marathe R.G.
Applications of radiation monitoring system at Indus accelerator complex
IARPNC, Jodhpur, 19-21 Nov. 2008
 14. Dhama T.S., Joshi M.P., Mohan S.R., Mishra S.*
Fabrication and characterization of conjugated polymer based Nano-composite for solar cell applications,
DAE-BRNS International Symposium on Materials Chemistry, Mumbai, 2-6 Dec., 2008
 15. Dhama T.S., Joshi M.P., Mohan S.R., Mishra S.*
Synthesis and characterization of polymer-Nanoparticle composites
National Seminar on Photonic Polymers; Materials, Devices and Applications, Pilani, 18, 2008
 16. Fozia A. Chari R. and Oak S.M.
Simulation tool for dispersion compensation assembly design
Poster no PMI-32, Photonics 2008
 17. Gandhi M.L., Thakurta A.C.
Power quality performance of an active harmonic filter with a power converter feeding magnet load
The third IEEE International Conference on Industrial and Information Systems (ICIIS 2008), Kharagpur, 8-10 Dec. 2008
 18. Ganesh P., Karthik V.*, Kaul R., Paul C.P., Tiwari P*., Mishra S.K., Preme Singh.C.H., Reghu T., Sheth S.S., Kasiviswanathan K.V.*, Prasad R.C*., Kukreja L.M.
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International Conference on Processing and Fabrication of Advanced Materials -PFAM XVII, New Delhi, 15-17 Dec. 2008
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