

A. Journal Articles

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18. Abbott B.P.*, Raja S. et al.
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115. Varshney G.K., Kintali S.R.*, Gupta P.K., Das K.
Effect of bilayer partitioning of curcumin on the adsorption and transport of a cationic dye across POPG liposomes probed by second-harmonic spectroscopy
Langmuir **32**, 10415-21 (2016)
116. Vishwanadh B.*, Krishna K.V.M.*, Upadhyay A., Banerjee R.*, Arya A.*, Tewari R.*, Fraser H.L.*, Dey G.K.*
Formation mechanism of the Nb₂C phase in the Nb-1Zr-0.1C (wt.%) alloy and interrelation between β and α -Nb₂C carbide phases
Acta Materialia **108**, 186-196 (2016)
117. Yadaiah N.*, Bag S.*, Paul C.P., Kukreja L.M.
Influence of self-protective atmosphere in fiber laser welding of austenitic stainless steel
The International Journal of Advanced Manufacturing Technology **86**, 853-870 (2016)
118. Yadav P.K., Modi M.H., Swami M.K., Singh P.J.*
Ex-situ characterization of synchrotron radiation induced carbon contamination on LiF window
Journal of Electron Spectroscopy and Related Phenomena **211**, 64-69 (2016)

B. Invited Talks

1. Bhaumik Indranil, Bhatt R., Ganesamoorthy S.*, Saxena A., Soharab M., Karnal A.K.
Beta-Gallium Oxide: Present and Future International Conference on Materials Processing and Applications (ICMPA-2016) VIT University, Vellore, Dec. 14-16, 2016
2. Dixit V K
Investigation into the complexities in active region of quantum well laser diode arrays
National Laser Symposium (NLS-25), Bhubneshwar, Dec. 20-23, 2016

3. Ganguli Tapas
Materials science using Indus synchrotrons
61st DAE Solid State Physics Symposium (DAE-SSPS-2016), Bhubaneswar, Dec. 26-30, 2016
4. Karnal A.K., Bhaumik I., Bhatt R., Ganesamoorthy S., Saxena A., Soharb M., Sharma S.K., Sajith B.K.
Single crystals for laser and nonlinear optical applications
61st DAE Solid State Physics Symposium (DAE-SSPS-2016), Bhubaneswar, Dec. 26-30, 2016
5. Misra Pankaj, Sahu V.K., Ajimsha R.S., Singh Bijendra
Dynamic processes of resistive memory switching in NiO thin film
IUMRS-International Conference of Young Researchers on Advanced Materials (IUMRS-ICYRAM 2016), Bangalore, Dec. 11-15, 2016
6. Misra Pankaj, Singh Bijendra
Pulsed laser deposition of ultra thin films of metal oxides for logic and memory devices
National Laser Symposium (NLS-25), Bhubaneswar, Dec. 20-23, 2016
7. Pant K.K.
Free electron laser activity at RRCAT
National Laser Symposium (NLS-25), Bhubaneswar, Dec. 20-23, 2016
8. Paul C.P., Singh Bijendra
Laser additive manufacturing: a paradigm shift in engineering manufacturing
National Laser Symposium (NLS-25), Bhubaneswar, Dec. 20-23, 2016
9. Rawat H.S.
The development of a noble gas atom trap for studies with laser cooled atoms
National Laser Symposium (NLS-25), Bhubaneswar, Dec. 20-23, 2016
10. Satapathy S.
Transparent ceramic: a practical use of nanoparticles
Indo-US Conference on Nanotechnology: Science and Application in Advanced Materials and Beyond, Varanasi, Dec. 19-22, 2016

C. Seminar/Conference Presentations

- C.1.1 National Laser Symposium (NLS-25)**, Bhubaneswar, Dec. 20-23, 2016
1. Agrawal D.K., Singh Rajpal, Jain R.K., Sanyal D.N.*, Bhawe K.M.*, Saini Basant Kumar, Choubey Ambar, Kumar Prabhat, Sah S.K., Kumar Manoj, Raju A.A., Bhawsar V., Narwat Dhruvadeep, Ali Sabir, Bairwal M.K., Vishwakarma S.C., Upadhyaya B.N., Arya R., Vhora S.F.*, Bindra K.S.
In-situ laser cutting of 18 mm thick triangular blocks of yoke assembly in RAPS-3 reactor
 2. Agrawal Sachin Kumar, Mokhariwale A., Shrivastava V.K., Shukla P.K., Khare R., Nakhe S.V.
Long term wavelength stabilization setup for copper vapour laser pumped dye laser
 3. Ajimsha R.S., Misra P., Das A.K., Singh B.
Carrier transport studies in Ga doped (Zn:V)O thin films grown by pulsed laser deposition
 4. Ankita S.*, Kumar U., Jinoop A.N., Paul C.P., Nagpure D., Singh B., Ghosh S.B.*
Study on laser additive manufacturing of gradient nickel layers on copper
 5. Arora V., Mandal T., Rao B.S., Chakravarty U., Chakera J.A., Naik P.A.
Stimulated Raman back scattering as a diagnostic tool to understand the fast electron emission direction in femtosecond laser solid interaction
 6. Bagchi S., Tayyab M., Upadhyay A., Khan R.A., Chakera J.A., Naik P.A.
Effect of laser pulse parameters on proton acceleration from target front surface
 7. Banerjee, Chitradip, P. Singh, Manoranjan
Role of carrier envelope phase on temporal distribution of e^+e^- pairs produced by linearly e-polarized counter propagating laser pulses
 8. Barik A.*, Saini V.K., Sarangpani K.K.
Measurement of electron temperature in the in-house developed hollow cathode lamp

9. Barnwal S., Prasad Y.B.S.R., Nigam S., Aneesh K., Joshi A.S. and Naik P.A.
Gain optimization studies of 46.9 nm soft X-ray laser from discharge driven plasma
10. Benerji, N.S, Singh, Bijendra
A KrF laser with improved beam characteristics using new resonator configuration
11. Benerji N.S., Singh A., Varshnay N. K., Singh Bijendra
Micromachining of metals and polymers using XeCl excimer laser
12. Bhagat M.S.*, Rana L.B., Biswas A.K., Rawat B.S., Jagdeesh*, Kumar M., Yadav R., Kaul R., Singh B.
Development of all solid state RF powered 2 kW fast axial flow CO₂ laser system
13. Bhardwaj Vijay, Ali Sabir, Bairwa Mahendra, Kumar Prabhat, Singh Rajpal, Choubey Ambar, Upadhyaya B.N., Bindra K.S.
Optimization of process parameters for oxygen assisted pulsed Nd:YAG laser cutting of 6 mm thick mild steel
14. Bhatt, R., Soharab, M., Sajith, B.K., Bhaumik, Indranil, Bhardwaj, N., Sexana, A., Karnal, A.K.
Pyroelectric investigation of Gd doped SBN single crystal for laser radiation detection application
15. Biswal R., Mishra G.K., Agrawal S.K., Dixit S.K., Nakhe S.V.
A study on pump beam absorption characteristics in rubidium vapour for the development of diode pump alkali laser
16. Chakraborty A, Mishra, S.R., Ram, S.P., Tiwari, S.K., Rawat, H.S.
Trapping of laser cooled ⁸⁷Rb atoms in spatially separated different radio frequency dressed states
17. Chakravarty Usha, Kuruvilla Antony, Srikanth G., Singh Rajpal, Upadhyaya B.N., Bindra K.S.
Study of multi-wavelength generation in Yb-doped photonic crystal fiber laser
18. Chaubey Smita, Parihar Abhishek*, Kher Sanjay, Bindra K.S.
Effects of ionizing radiation on the properties of CO₂ written regenerated long period fiber gratings.
19. Choubey Ambar, Bairwa M.K., Jain R.K., Ali S., Vishwakarma S.C., Bhardwaj V., Upadhyaya B.N., Bindra K.S.
Study and development of highly efficient long pulse all ceramic Nd:YAG rod laser
20. Chowdhury A., Dasgupta R.
Alteration of oxygen affinity of red blood cells after hypoxic exposure
21. Chowdhury A., Dasgupta R.
Change in oxygen affinity with echinocytic shape transformation of red blood cells
22. Daiya D., Patidar R.K., Sharma J., Kamath M.P., Joshi A.S., Naik P.A.
A simple and alignment free single shot autocorrelator using a near 90° retro-reflector for the measurement of ultra-short laser pulse width
23. Das Amit K., Misra P., Ajimsha R.S., Sahu V.K., Singh B.
Enhanced capacitance density and low leakage current in MgO/TiO₂ nanolaminate structures
24. Debnath C.*, Kar S., Sharma S.K., Verma Sunil, Bartwal K.S., Gupta P.K.
Nonlinear optical properties of LN:PMMA nanocomposites
25. Devarajulu G.*, Rajesh M.*, Devi L.L.*, Raju B. Deva P.*, Chourasia S.*, Jain Rajiv
The thermoluminescence and upconversion studies of Nd³⁺-doped oxyfluorosilicate glasses
26. Dubey P., Rao B.T., Verma Shweta, Jain Preeti*, Rawat B.S., Kaul Rakesh, Singh Bijendra
Liquid phase pulsed laser ablation and irradiation routes for synthesis of Au-Ag bimetallic nanoparticles
27. Dubey V.K., Singh Inderjeet, Kedar S.*, Saxena P., Vora H.S.
A fluorescence detection and data acquisition system for laser experiments

28. Gupta Pradeep K., Singh C.P., Mukhopadhyay P.K., Bindra K.S.
50 fs, 3 nJ pulses from stretched pulse Yb-doped mode locked fiber oscillator
29. Gupta Pradeep K., Singh C.P., Singh A.J., Sharma S.K., Mukhopadhyay P.K., Bindra K.S.
Chair-like pulses in all-normal dispersion Ytterbium doped mode locked fiber laser
30. Gurung Sabina, Singh Asha, Jayabalan J., Khan Salahuddin, Chari Rama
Effect of silver nanoparticle on the normal photoluminescence and upconversion photoluminescence of CdTe quantum dots
31. JagannadhaRaju S.D.V.S., Saxena M.K., Sharma R.K., Kishore J., Kher S., Bindra K.S.
Online measurement of gamma dose response on different types of fiber bragg gratings and temperature compensation for dose levels below 200kGy
32. Jain B., Reeja K.V.*, Mondal P, Sinha A.K., Chidangil S.*
Luminiscent silica nanoparticles for biomedical applications: synthesis and characterization
33. Jain R.K., Ali S., John B.*, Ramesh D.*, Saini B.K., Singh Rajpal, Choubey Ambar, Agrawal D.K., Vishwakarma S.C., Upadhyay B.N., Bindra K.S.
Development of laser cutting technology for in-situ removal of steam generator tubes for condition monitoring from KKNPP
34. Jain S., Patidar R.K., Daiya D., Kamath M.P., Kulkarni A.P., Padiyar A.S., Patwa S.R., Singh B., Valecha A., Verma A., Sahu Y., Joshi M.J., Tripathi P.K., Kumar A., Sharma J., Joshi A.S., Ansari M.S., Bhanage V.P., Naik P.A.
Development of a 2 X 2 array multibeam Nd:glass amplifier for high power laser system
35. Kar S., Sharma S.K., Singh Yeshpal, Verma Sunil, Bartwal K.S., Gupta P.K.
Growth of trans-stilbene optical crystal by Bridgman technique for device applications
36. Karmakar S., U Neethu*, Pathak S. K., Selvamani R., Singh G., Gupta S.M., Tiwari V.S.
Controlling absorption coefficient in transparent Nd:YAG ceramic
37. Khan K.M., Chaurasia C., Majumder S.K.
Interrogation of sub-surface depths in a layered turbid sample with micro spatially offset fluorescence spectroscopy (μ -SOFS)
38. Khan S., Jayabalan J., Singh Asha, Chari Rama
Ultrafast dynamics of two-dimensional hole gas formed in an AlGaAs(p-doped)-GaAs hetero structure at room temperature
39. Khare, R., Tiwari, G.N., Shrivastava, V.K., Mishra, R. K., Shukla, P.K.
Development and characterization of a 19 kHz dye laser oscillator pumped by copperbromide laser
40. Kintali S.R., Varshney G.K., Das K.
Effect of three pluronic polymers on the transport of an organic cation across an artificial membrane studied by second harmonic spectroscopy
41. Krishna Hemant, Majumder Shovan K.
Development of a liquid-crystal tunable filter based hyper-spectral imaging system and a software interface for automated acquisition and analysis of spectral images
42. Kumar Atul, Shah S.*, Sharma J., Jain S., Kulkarni A.P., Prasad Y.B.S.R., Kamath M.P., Patidar R.K., Gupta S., Joshi A.S., Naik P.A.
Equation of state measurements using two frames shadowgraphy of step target irradiated using a laser through a bi-prism
43. Kumar Manoj, Biswas A.K., Rana L.B., Joshi J.*, Biswas T., Yadav R., Kaul R., Singh B.
A highly efficient compact corona pre-ionized TEA CO₂ laser
44. Kumar Manoj, Biswas A.K., Rana L.B., Joshi Jayesh, Biswas T., Yadav R., Kaul R., Singh B.
Studies on helium free operation of a TEA CO₂ laser

45. Kumar Pankaj, Saini V.K., Purbia G.S., Prakash Om and Dixit S.K.
Doppler-free saturation absorption spectroscopy of Eu I transition $4f^7 5d6s (a^{10}D_{13/2}) \Delta 4f^7 5d6p (z^{10}F_{15/2})$ at 583.098 nm
46. Kumar S., Kushwaha P.K., Swami M.K., Sharma P., Patel H.S., Gupta P.K.
Wavelength encoded polarization scheme for single step depth sensitive fluorescence measurements
47. Kumar Y. Pavan, Negi Sarvendra Singh, Kamath M.P., Sharma S.D.
Focal length measurement of positive and negative lenses using lateral shearing cyclic path optical configuration setup
48. Kumar Y. Pavan, Negi Sarvendra Singh, Kamath M. Pandurang, Chatterjee Sanjib, Sharma S.D.
Reduction of interferometric spatial coherence artifacts using a ring source and rotating diffuser
49. Manasa P.*, Ramachari D.*, Kaewkhao J.*, Meejitpaisan P.*, Kaewnuam E.*, Joshi A.S., Jayasankar C.K.*
Studies of radiative and mechanical properties of Nd³⁺-doped lead fluorosilicate glasses for broadband amplification in a chirped pulse amplification based high power laser system
50. Mandal T., Arora V., Rao B.S., Chakera J.A. and Naik P.A.
Transport of laser driven fast electron beam over several centimeter long thin metallic wire target
51. Mathur R.K.*, Sahu K., Saraf S., Patheja P., Khan F.*, Gupta P.K.
Effect of low level laser therapy on the healing of diabetic foot ulcers-a randomized control trial
52. Megala R.*, Sushma N.J.*, Jain Rajiv, Chaurasia S.*, Devarajulu G.*, Peddi S.P.*, Ravi O.*, Raju B. Deva P.*
Fluorescence studies of Nd³⁺ doped oxyfluoroborosilicate glasses for high power laser applications
53. Mishra Charu, Chakraborty A., Srivastava A., Tiwari S.K., Ram S.P., Mishra S.R., Rawat H.S.
Probe beam intensity dependent asymmetry in electromagnetically induced transparency signal of ⁸⁷Rb atom
54. Mishra G.K., Kumar Abhay, Prakash O., Biswal R., Dixit S.K., Nakhe S.V.
Role of dye cell gap on the performance of output characteristics of high repetition rate narrow linewidth dye laser
55. Mishra R.K., Agrawal S.K., Raju D.V.S., Tiwari G.N., Agrawal P.K., Nakhe S.V.
Studies on timing drift in solid state power supplies on copper vapor laser system performance
56. Mishra S.K., Kumar U., Preamsingh C.H., Paul C.P. and Singh B.
Hardfacing of Ni based Tribaloy-T700 alloy on austenitic stainless steel 316L using laser additive manufacturing
57. Nair D.N., Gupta G.*, Desai A.P.*, Biswas K., Tarafder A.*, Jain S., Sharma Jyoti, Chakraborty R.*, Annapurna K.*, Joshi A.S., Sen R.*, Naik P.A.
Thermal and annealing figures of merit for indigenously developed Nd doped phosphate laser glasses
58. Patel H.S., Kushwaha P.K., Swami M.K. and Gupta P.K.
Photonic nanojet assisted enhancement of Raman signal: effect of refractive index contrast
59. Pathak Ayukt Kumar, Porwal S., Tiwari S., Deshpande P.P., Bhanage V.
Automation of experiment for photoluminescence study of semiconductor material
60. Pathak S.K., Selvamani R., Karmakar S., Singh Gurvinderjit, Gupta S.M., Tiwari V.S.
A comparison of co-precipitation and conventional oxide route for synthesis of transparent Nd:YAG laser-host ceramic

61. Patidar R.K., Daiya D., Uchhasare Y.*, Sharma J., Joshi A.S., Naik P.A.
A regenerative amplifier with Nd doped phosphate and silicate glass rods based gain media for enhanced spectral bandwidth for ultra-short laser pulses
62. Prasad Y.B.S.R., Kumar Atul, Patidar R.K., Jain Shashi, Kulkarni A.P., Shah S.*, Kamath M.P., Joshi A.S., Naik P.A.
Two frame Shadowgraphy for shock wave experiments in transparent media
63. Ram S.P., Rathore N., Mishra S.R., Tiwaria S.K., Rawat H.S.
Acquisition and analysis of absorption probe images of laser cooled atoms
64. Rao B.T., Sundar R., Ranganathan K., Kaul R., Singh B., Bindra K.S.
Micro-drilling on copper sheets using nano-second pulsed Nd:YAG laser
65. Reddy M.M.*, Singh C.P., Gupta P.K., Mukhopadhyay P.K., Bindra K.S.
Study on optimization of average power and pulse energy in all-fiber power amplification of ultrashort pulses from Yb-doped mode-locked fiber laser
66. Rishipal, Kumar Y.P., Kamath M.P., Singh Sarvendra, Sharma S.D.
Design and development of rotating diffuser for reducing the speckle noise
67. Sahaa A.*, Shukla V., Choudhury S., Jayabalan, J.
Nonlinear absorption studies of substituted anthracene chalcone derivatives
68. Sahu K., Sharma P., Swami M.K., Kumar S., Kumawat J., Kushwaha P.K., Patel H.S., Kher S., Sharma M., Dube A. Gupta P.K.
Studies on use of optical imaging and spectroscopy for the assessment of cutaneous alterations in mice exposed to whole body gamma irradiation
69. Saraf Palak, Verma Shweta, Tirumala Rao B., Rawat B. S., Jain Preeti*, Kaul, R., Singh, B.
Laser and visible light irradiation based synthesis of silver nanoparticles of varying plasmon resonance responses
70. Sarbadhikary P., Dube A., Gupta P.K.
Efficacy of Iodinated Chlorin p_6 - copper complex for photodynamic treatment of cancer cells
71. Selvamani R., Karmarkar S., Singh Gurvinderjit, Gupta S.M., Tiwari V.S.
Spectroscopic properties of 2.5 at. % Nd^{3+} doped $Y_3Al_5O_{12}$ transparent ceramics: Judd-Ofelt investigations
72. Sharma P., Verma Y., Sahu K., Kumar S., Kumawat J. Gupta P.K.
Imaging of cutaneous microvasculature regeneration during healing of wound in diabetic mice using swept source based optical coherence tomography
73. Sharma S.K., Singh A.J., Gupta P.K., Singh C.P., Mukhopadhyay P.K., Hedao P., Deohare K.S., Bindra K.S., Sharma A., Panwar C.B., Arya R., Dubey V.K., Singh I., Saxena P., Vora H.S.
Development and characterization of diode pumped solid state green laser and its synchronization with copper vapor laser for dye laser pumping
74. Sharma S.K., Singh Yeshpal, Verma Sunil, Bartwal, K.S., Gupta, P.K.
Growth of 1,3,5-triphenylbenzene optical single crystals for device applications
75. Shrivastava V.K., Shukla P.K., Tiwari G.N., Khare R.
Beam quality improvement by intracavity capillaries in Littrow and GIG dye lasers
76. Shubham S.*, Jinoop A.N., Kumar U., Paul C.P., Nagpure D., Ravikumar Y.*, Singh B.
Investigating track geometry of Inconel 718 for laser additive manufacturing of micro-channel heat exchangers
77. Shukla, P. K., Tiwari, G. N., Shrivastava, V. K., Khare, R.
Analysis of spatial carrier modulated wave-front folded interferogram
78. Singh, Amrendra, Varshnay, N K, Singh, B N, Benerji, N S, Bijendra Singh
Improved performance of an excimer laser using a novel ballasting UV spark pre-ionizer

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79. Singh A.J., Sharma S.K., Mukhopadhyay P.K., Bindra K.S.
Studies on intracavity frequency doubled Nd:YVO₄ laser under direct diode pumping at 880nm
80. Singh C.P., Gupta P.K., Singh A.J. Sharma S.K., Mukhopadhyay P.K., Bindra K.S.
Dual wavelength rectangular pulses in mode-locked Yb-doped fiber laser
81. Singh, Ravindra, Chakravarty, Usha, Srikanth, G., Singh, Rajpal, Upadhyaya, B. N., Bindra K. S.
Generation of 1 mJ pulse energy from all-fiber small core Yb-doped Q-switched fiber laser using MOPA configuration
82. Singh Vivek, Tiwari V.B., Mishra S.R., Rawat H.S.
Development and characterization of ⁸⁷Rb atom chip magneto-optical trap
83. Sundar R., Ranganathan K., Hedao P., Soni J.K., Bindra K.S.
Diode-side-pumped dual pump head high power fiber coupled CW Nd:YAG laser
84. Srivastava A., Tiwari S.K., Chakraborty A., Ram S.P., Mishra S.R., Rawat H.S.
Design of a two-dimensional magneto-optical trap for ⁸⁷Rb atoms
85. Subrahmanyam V.V.V., Shukla P.K., Talwar S., Sharangpani K.K., Agrawal P.K. and Nakhe S.V.
Generation of 1.8 W average power, 6.2 kHz repetition rate UV from wide aperture copper vapor laser system
86. Surjith S.*, Daiya D., Patidar R.K., Joshi A.S., Naik P.A.
Effect of annealing steps on the reflectivity of thermally regenerated fiberbragg gratings pulses in a regenerative amplifier
87. Swami M.K., Kushwaha P.K., Patel H.S., Kumar S., Sharma P., Sahu K. Gupta P.K.
Cross polarized imaging system for visualization of micro-vasculature and blood flow in swiss albino mice ear in-vivo
88. Tiwari G.N., Shukla P.K., Mishra R.K., Shrivastava V.K., Khare R.
Performance of indigenously developed copper bromide laser with on-axis and off-axis unstable resonators
89. Uppal A., Arora R., Ahlawat S., Swami M.K., Patel H.S., Gupta P.K.
Evaluation of photodynamic efficacy of rose-bengal conjugated to cysteamine capped gold nanoparticles
90. Vachhani Dipen M., Pant K.K., Panwar C.B., Sharma Ashutosh, Arya R.
A 250 V, 3.5 kW, zero voltage switching, full-bridge DC-DC converter with DC, sine and square modulated output current for arc lamp pumped modulated-continuous-wave Nd:YAG laser
91. Valecha A., Bhanage V., Deshpande P.P., Jain Rajiv, Navathe C.P., Vora H.S.
Characterization of flash lamp pulsed current profile for high power laser chain
92. Varshnay N K, Singh, Amrendra, Benerji, N S, Singh, Bijendra
Design and development of a compact high voltage pulser for short pulse excimer laser
93. Verma Shweta, Rao B. Tirumala, Batham Sonal, Srivastava Amit*, Kaul Rakesh, Singh Bijendra
Formation of silver triangular nanoplates using liquid phase pulsed laser ablation and light irradiation
94. Verma Sonali, Verma Shweta, Tirumala Rao B., Jain Preeti*, Kaul Rakesh, Singh Bijendra
Liquid phase pulsed laser ablation of titanium target in different solutions for nanoparticles synthesis
95. Verma Sunil, Sharma B.R.*, Debnath C., Sharma S.K., Singh Y.P., Bhatt R., Bartwal K.S., Gupta P.K.
Growth of benzophenone organic crystal and determination of its 2nd and 3rd order nonlinear optical properties
96. Vishwakarma S.C., Upadhyaya B.N., Sanyal D.N.*, Singh Rajpal, Saini B.K., Jain R.K., Agrawal D.K., Choubey Ambar, Ali Sabir, Bairwa M.K., Sah S.K.,

Raju A.A., Kumar Manoj, Bhawsar V., Arya R., Barot R.R.*, Deshmukh S.K.*, Vhora S.F.*, Bindra K.S.
Development of in-situ laser cutting technique for removal of single selected coolant channel from pressurized heavywater reactor

C.2 61st DAE Solid State Physics Symposium (DAE-SSPS-2016), Bhubaneswar, Dec. 26-30, 2016

1. Baral M., Roy T., Mondal B.*, Chakrabarti A., Ganguli T.
Study of structural, magnetic and electronic properties on Ni-Fe-Ga based ferromagnetic shape memory alloys
2. Baraik K., Bhakar A., Sagdeo A., Singh S.D.
Lattice parameter variation in Ni_{1-x}Ca_xO ternary solid solutions
3. Bhartiya S., Kohli D.K., Singh Ashish, Singh Rashmi, Singh M.K.
Investigation of Pt-Ti doped carbon aerogel as bi-metallic catalyst for H/D exchange process
4. Biswas A.*, Porwal A.*, Bhattacharya D.*, Prajapat C.L.*, Satyam P.V.*, Rai S., Singh M.R.*, Bhattacharyya D.*, Basu S.*, Sahoo N.K.*
Surface and interfaces smoothing of Co/Ti multilayer by reactive sputtering technique with dry air
5. Das A., Singh S.D., Ajimsha R.S., Misra P., Rai S.K., Ganguli T.
Growth of (111) oriented NiO layers on GaAs (001) substrates using pulsed laser deposition
6. Dhawan R., Rai S.
Deposition and characterization of CrN thin films by reactive ion beam sputtering
7. Gupta V.K., Aggarwal R., Ingale A.A., Bhattacharya A.*
Study of InAs nanowire structure using spatially resolved Raman spectroscopy
8. Hussain Z. *, Reddy V.R. *, Kumar D. *, Dhamgaye V., Khantwal N. *, Gupta A. *, Ganesan V. *
Kerr microscopy study of patterned cobalt thin films
9. Jangir R., Tiwari Pragya, Rai S.K. and Ganguli Tapas
Effect of growth parameters in controlling the growth direction of In₂O₃ micro/nanowires
10. Pradhan P.C., Bhartiya S., Nayak M., Lodha G.S.
Structural characterization of Pt/C multilayer phase-shift reflectors
11. Preeti*, Pandey A.*, Selvamani R., Shekhar C.*, Gupta S.M.
Cluster glass like behavior of magnetoelectric PbNi_{1/3}Nb_{2/3}O₃ ceramics
12. Rajput P., Nand M.*, Kumar M.G.*, Sagdeo A., Jha S.N., Bhattacharyya D.*, Sahoo N.K.*
Band gap narrowing in Li Doped ZnO prepared by solid-state synthesis route
13. Roy P. Sarkar*, Biswas A.*, Bhattacharya D.*, Sharma R.K.*, Modi M.H., Rai S., Bhattacharyya D.*, Sahoo N.K.*
Development and characterization of soft X-ray synchrotron mirror
14. Roy T., Chakrabarti A.
Ab initio study of effect of Co substitution of the magnetic properties of Ni₂MnGa
15. Sahu V.K., Misra P., Das A.K., Ajimsha R.S., Singh B.
Quantized conductance in Ta₂O₅ based resistive random access memory devices
16. Shalu C. *, Mohan S. Raj, Joshi M.P., Singh V.*
Structural and optoelectronic characterization of organic vapor phase deposited thin films of oriented DH6T molecules
17. Silambarasan A. *, Rajesh P. *, Ramasamy P. *, Karnal A.K., Bhatt R, Bhaumik I., Gupta P.K.
An investigation to overcome the problems in growing bulk size α -LiIO₃ single crystals
18. Singh S.D., Poswal A.K.*, Kamal C., Rajput P., Chakrabarti A., Jha S.N., Ganguli T.
Behavior of near neighbor bond lengths for Ni_{1-x}Zn_xO ternary solid solutions

19. Sinha M., Modi M.H.
X-ray reflectivity and photoelectron spectroscopy study of aluminum oxide thin film
20. Soharab M., Bhaumik I., Bhatt R., Saxena A., Karnal A.K., Gupta P.K.
Growth and investigation of Nd doped GdVO₄ single crystals grown by OFZ technique
21. Srivastava H., Khooha A., Singh Ajit, Ganguli T.
Depth resolved composition analysis by angle dependent x-ray fluorescence measurement
22. Tiwari P., Mondal P., Srivastava A.K., Naik P.A.
Fabrication of high aspect ratio submicron gratings on ~100nm titanium membranes using electron beam lithography
23. Yadav A.K., Haque S.M.*, De Rajnarayan*, Rai S., Shukla D.*, Phase D.M.*, Jha S.N., Bhattacharyya D.*
X-ray absorption spectroscopy of Ni doped ZnO thin films
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C.3 Other Seminar/Conference Presentations

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D. Book Chapter

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