

List of Publication

A. Book Article

1. S Sunderlal, S N Joshi, **Alika Khare (2015)**, 'Laser Induced micromachining & preliminary experiments on manufacturing of microchannel', Book chapter pp 179-200 in Laser based micromachining, Ed. S N Joshi and US Dixit, Springer, ISBN 978-81-322.
2. A Nath and **Alika Khare**, (2012), Laser Induced Breakdown in Liquid and solid-Liquid Interface, Book Chapter 18, pp 947-1011, in Laser Ablation in Liquid: Principles and Applications in Preparation of Nanomaterials, Ed. Guowei Yang, Pan Stanford Publishing ISBN 978-981-4310-95-6.
3. One of the author of NCERT Class XII book On Physics, (edition 2008).
4. Kamlesh Alti and **Alika Khare** (2008), 'Maneuvering atoms for lithography using near resonant spatially varying laser field', Book chapter in Progress in Non Linear Optics Research, Nova Publishers **ISBN: 978-1-60456-668-0**.
5. Kamlesh Alti, A. S. Patra and **Alika Khare** (2007), 'A Novel Single Shot Technique of Micro-Nano Patterning in Single Step via Selective Laser Ablation,' Progress in Optics Research, Nova Publishers, Edi. by Maximilian N. Schulz (2008 – 1st Quarter, ISBN: 978-1-60456-110-4).
6. **Alika Khare** (2006), 'Pulsed Operation of a CW diode Laser', Electronics Projects, **22**, 127-128 (Published by EFY, ISBN 81-88152-17-X).

B Papers in Journals/Published proceedings

2018

1. Partha P Dey, Rahul Kesarwani and Alika Khare (2018), 'Efficacy of Raman mapping over ellipsometric spectroscopy and XRD for characterization of structurally heterogeneous PLD nc-Si thin films', Optical Materials, **84** 221-226.
2. Gyan Prakash Bharti, Partha Pratim Dey and **Alika Khare** (2018), 'Pulsed laser deposited $Zn_{1-x}Ti_xO$ ($0.000 \leq x \leq 0.050$) thin films for tunable refractive index and nonlinear optical applications, Mat Chem and Physics, **216**, 206-212.
3. Rahul Kesarwani and **Alika Khare** (2018), 'Surface plasmon resonance and nonlinear optical behavior of pulsed laser deposited semitransparent Nano structured Copper thin films', Applied phys B, **124**, no. 6, 116.
4. Rasmi Ranjan Behera, Mamilla Ravi Sankar, Prahlad Kumar Baruah, Ashwini Kumar Sharma and **Alika Khare** (2018), 'Experimental investigations of nanosecond-pulsed Nd:YAG laser beam micromachining on 304 stainless steel', Journal of Micromanufacturing, **1**(1) 62–75.
5. Prahlad K. Baruah, Moghe A. Raman, Ishani Chakrabarty, Latha Rangan, Ashwini K. Sharma, **Alika Khare** (2018), 'Antibacterial Effect of Silk Treated with Silver and Copper Nanoparticles Synthesized by Pulsed Laser Ablation in Distilled Water', AIP Conference Proceedings **1953**, 030064.
6. Rahul Kesarwani, and **Alika Khare** (2018), 'Compositional study of pulsed laser deposited semitransparent Cu thin film using', AIP Conference Proceedings **1942**, 080045.
7. Prahlad K. Baruah, Ashwini K. Sharma, and **Alika Khare** (2018, april), 'Effect of laser energy on the SPR and size of silver nanoparticles synthesized by pulsed laser ablation in distilled water, AIP Conference Proceedings **1942**, 050036 (2018).
8. Pankaj Singh, Eshita Mal, **Alika Khare**, Sukanya Sharma, 'A study of archaeological pottery of Northeast India using laser induced breakdown spectroscopy' J Cultural Heritage XX,XXX (accepted).

9. Gyan Prakash Bharti and Alike Khare (2018, **May**), ‘Single and multiphoton induced photoluminescence in pulsed laser deposited $Zn_{1-x}Al_xO$ ($0 \leq x \leq 0.10$) thin films’, *J of luminescence*, **197**, 135-141.
10. A. Das, A. K. Chikkala, G. P. Bharti, R. R. Behera, R. S. Mamila, **Alike Khare** and P. Dobbidi (2018), ‘Effect of thickness on optical and microwave dielectric properties of Hydroxyapatite films deposited by RF magnetron sputtering’, *J. Alloys Compd.*, **739**, 729-736 (DOI 10.1016/j.jallcom.2017.12.293).
11. Sanasam Sunderlal Singh, Prahlad Kr Baruah, **Alike Khare**, Shrikrishna N. Joshi (2018, feb), ‘Effect of laser beam conditioning on fabrication of clean micro-channel on stainless steel 316L using second harmonic of Q-switched Nd:YAG laser’ *Optics and Laser Tech*, **99**, 107–117
12. Arpita Nath, Pooja Sharma and **Alike Khare** (2018, Jan), ‘Laser-induced metastable phases in liquids’, *Laser Phys Letter*, **15**, 026001.

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13. Partha P Dey and **Alike Khare** (2017), ‘Nonlinear optical and optical limiting response of PLD nc-Si thin films’, *J of Mat chem C*, **5** 12211-12220
14. Partha P Dey and **Alike Khare** (2017), ‘Fabrication of Photoluminescent nc-Si:SiO₂ Thin Films prepared by PLD’ *Phys Chem Chem Phys*, **19**, 21436-21445.
15. Kh. Shantakumar Singh, **Alike Khare**, and A. K. Sharma, Effect of uniform magnetic field on laser-produced Cu plasma and the deposited particles on the target surface. *Laser Part. Beams*, **35**, 313 (2017).
16. Satchi Kumari, **Alike Khare**, Reema Gupta, Monika Tomar, Vinay Gupta (2017), ‘Fabry-perot modes enhanced pump-probe coupling in gold micro-disk patterned ruby thin film’, *Optical Materials*, **72**, 375-379
17. Prahlad K Baruah, Anuma Singh, Iffat Jahan, Latha Rangan, Aditya N Panda, Ashwini K Sharma and **Alike Khare** (2017), ‘Surface-enhanced Raman scattering from copper nanoparticles treated furanoflavonoid karanjin’, *Adv Mat Lett*, **8** (10), 971-976.
18. Partha P Dey and **Alike Khare** (2017), Stoichiometry-dependent linear and nonlinear optical properties of PLD SiO_x thin films, *J Alloys and comp.*, **706**, 370-376.
19. Prahlad K Baruah, Ashwini K Sharma and **Alike Khare** (2017), ‘Dependence of the Size of Copper Nanoparticles on Laser Energy Synthesized by Pulsed Laser Ablation in Liquid’, *Adv Mat Proceeding*, **2**, no. 4, 264-268.
20. Partha p Dey and **Alike Khare** (2017), ‘Stoichiometric dependent optical limiting in PLD SiO_x thin films,’ *Advanced Mat letters*, **8**(4) 331-335.

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21. Mukesh Singh, Indrajeet Kumar, **Alike Khare** and Pratima Agarwal (2016), ‘Third order optical nonlinear studies on highly conducting vertically aligned carbon nanoflakes’, *Mat research Express*, **3**, 125005.
22. Partha P Dey and **Alike Khare** (2016), ‘Effect of substrate temperature on structural and linear and non linear optical properties of nano structures PLD a-SiC thin films’, *Mat Res Bull*, **84**, 105-117.
23. Indrajeet Kumar and **Alike Khare** (2016), ‘Optical Non linearity in nanostructured carbon thin films fabricated by pulsed laser deposition technique’, *Thin solid films*, **611**, 56-61.
24. Gyan Prakash Bharti and **Alike Khare** (2016), ‘Structural and linear and non linear optical properties of $Zn_{1-x}Al_xO$ ($0 \leq x \leq 0.10$) thin films fabricated via pulsed laser deposition technique’, *Optical Material Exp*, **6**, no. 6 (June 2016) 2063-2080.
25. Mahesh Peddigari, Gyan Prakash Bharti, **Alike Khare** and Pamu Dobbidi (2016), ‘Non linear optical properties of pulsed laser deposited Gd₂O₃ and Dy₂O₃ doped K_{0.5}Na_{0.5}NbO₃ thin films’, *Optical Materials*, **58**, 9-13.
26. Mahesh Peddigari, Gyan Prakash Bharti, **Alike Khare** and Pamu Dobbidi (2016), ‘Optical and dielectric studies on radiofrequency sputtered Gd₂O₃ doped K_{0.5}Na_{0.5}NbO₃ thin films for non linear photonics and microwave tunable device applications’, *J Alloys and compounds* **682**, 634-642.
27. Anuma Singh, Iffat Jahan, Mrinal Sharma, Latha Rangan, **Alike Khare**, and Aditya N Panda (2016), ‘Structural characterization, *in silico* studies and *in vitro* antibacterial evaluation of furanoflavonoid from Karanj’, *Plant Medica Letters*, **3**(04): e91-e95 (DOI: 10.1055/s-0042-105159).
28. Rasmi Ranjan Behera¹, M. Ravi Sankar¹, Indrajeet Kumar Ashwini Kumar Sharma, **Alike Khare**, and J. Swaminathan (2016) ‘Experimental Investigation of Under Water Laser Beam Micromachining (UW-

29. Indrajeet Kumar and **Alika Khare** (2016), 'Modified Z-scan set-up using CCD for measurement of optical nonlinearity in PLD deposited carbon thin film', *Optics and Laser Tech*, **77**, 51-54.

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30. Kamlesh Alti, S Dwivedi, S Chidangil, D Mathur and **Alika Khare** (2015), 'Micro patterning of Indium thin film for generation of micron and submicron particles using femto second laser induced forward transfer, *Laser and particle beam* **33**, (issue 3), 449-454.
31. S Kumari and **Alika Khare** (2015), 'Pulsed laser deposited barium titanate thin film for tunable optical delay application', *Applied Surface Science*, **347**, 619-623.
32. A. T. T. Mostakoa, **Alika Khare**, C. V. S. Rao, Sudhirsinh Valab, R. J. Makwanab and T. K. Basub (2015), 'Effect of deuterium ion beam irradiation onto the mirror-like pulsed laser deposited thin films of rhodium', *Nuc Inst and Methods in Phys Res B*, **342**, 150-157.

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33. Satchi Kumari and **Alika Khare** (2014), 'Studies on slowing down of light to few m/s in photorefractive BaTiO at room temperature for tunable optical delay', *Horizon- A Journal of Physics*, **3**, 89-90.
34. Indrajeet Kumar and **Alika Khare** (2014), 'Multi- and few-layer graphene on insulating substrate via Pulsed laser deposition technique', *Appl surface science*, **317**, 1004-1009.
35. Archana Kushwaha, Indrajeet Kumar and **Alika Khare** (2014), 'Laser Induced breakdown of PMMA in air', *J Phys Science and Application*, **4** (7), 426-429.
36. Archana Kushwaha, Satchi Kumari and **Alika Khare** (2014) ' Effect of pump intensity on two photon induced UV Photoluminescence in PLD thin film of ZnO', *Asian J of Physics*, **23** (4), 567-572
37. Satchi Kumari and **Alika Khare** (2014), 'Studies on nonlinear response of epitaxial Ruby thin film', *IEEE J QE* **50**, no. 8, 645-650.
38. Satchi Kumari and **Alika Khare** (2014), 'Langmuir probe studies of laser ablated Ruby plasma and correlation with pulsed laser deposited Ruby thin film properties', *Laser and Particle beam*, **32** (3), 359-367.
39. Indrajeet Kumar and **Alika Khare** (2014), 'Raman Spectra of PLD deposited DLC thin films on Si substrate.', *AIP Conf Proceedings* **1591**, 1018-1020.
40. A T T Mostako and **Alika Khare** (2014), ' Large area deposition of Rh Single and Rh/W/Cu multilayer thin films on stainless steel substrate by pulsed laser deposition technique', *Rev Sci Inst* **85** (4), 046101.
41. Partha P Dey and **Alika Khare**, (2014), 'Fabrication of luminescent a-Si:SiO₂ structures by direct irradiation of high power laser on Silicon surface', *Appl Sur Science*, **307** 77-85 (doi 10.1016/j.apsusc.2014.03.168).
42. Partha P Dey and **Alika Khare**, (2014), 'Nd-YAG ns-pulsed laser induced structural and compositional modification of Silicon surface: Formation of Photoluminescent a-Si nanostructures', *Advanced Science letters*, **20** no. 7-9, 1364-1368.
43. Partha P dey and **Alika Khare** (2014), 'Structural and Optical properties of Nanostructured a-SiC thin films by pulsed Laser Deposition at different substrate Temperature', *J Nanosci Letter* **4** (29) 2014, 1.
44. John Thomas, Rodney Bernard, John T. Thomas, Kamlesh Alti, C. Santhosh Satchi Kumari and **Alika Khare** and Deepak Mathur (2014), 'Femtosecond Laser Induced Forward Transfer of Indium thin films', *Laser and Particle Beam* **32** (01), 55 - 61.
45. A. T. T. Mostako, **Alika Khare**, C. V. S. Rao, Sudhirsinh Vala, T. K. Basu, Prakash M. Raole, and Rajinikant Makwana (2014) Post irradiation effect of Deuterium ion beam onto Rh/W/Cu multilayer thin film, *Journal of Nuclear Materials*, **446**, 63-67

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46. A. T. T. Mostako, **Alika Khare**, C. V. S. Rao, Sudhirsinh Vala, R. J. Makwana and T. K. Basu (2013), ‘Deuterium ion beam irradiation onto the pulsed laser deposited Tungsten thin films’, Journal: J. Vac. Sci. Technol. **A 36** (6) 061510-1.
47. Archana das, Vigya Kesari, Arpita Nath, **Alika Khare** and Latha Rangan (2013), ‘ Antimicrobial and Micro Raman Spectroscopy of Selected Zingiberceae Species from North East India’, J Crop Sci Biotech, **16**, 75-81.
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54. A. Nath, A. Das, L. Rangan and **AlikaKhare**(2012) , “Bacterial Inhibition by Cu/Cu₂O Nanocomposites Prepared via Laser Ablation in Liquids”, Science of Advanced material, **4**, 1-4.
55. A. T. T. Mostako,**AlikaKhare**, C. V. S. Rao,Prakash M. Raole,SudhirsinhVala,ShrichandJakhar, T. K. Basu, MitulAbhangi and Rajinikant J makwana, (2012) ‘Effect of Hydrogen ion beam irradiation onto the FIR reflectivity of pulsed laser deposited mirror like Tungsten films, Journal of Nuclear Materials, **423**, 53-60 (10.1016/j.jnucmat.2011.12.023).
56. A Nath and **AlikaKhare** (2012), ‘Laser Induced High Pressure and High Temperature conditions at titanium-water interface and its implication on TiO₂ nanoparticles’, JOSA B, **29**, no. 3, 351-356.
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70. Gaurav Shukla and **AlikaKhare** (2010), 'Effect of annealing and O₂ pressure on structural and optical properties of pulsed laser deposited TiO₂ thin films', J of Alloys and Compounds **489**, 246-251.
71. A T TMostako, C V S Rao and **AlikaKhare** (2010), Pulsed Laser deposition of thin films of Molybdenum, J Phys, conf series, **208**, 012114.
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84. Kamlesh Alti and **AlikaKhare**, (2006) ‘Arrays of discrete atomic beams for sub $\lambda/2$ lithography via dipole force’, *Microelectronic Engineering*, **83**,1975-1980.
85. Kamlesh Alti, A S Patra and **AlikaKhare**(2006), ‘Two Dimensional periodic potential via multiple beam interferometry for atom lithography’, *J MicrolithoMicrofab, Microsystems*, **5**, no. 2, 023005.
86. Kamlesh Alti and **A Khare** (2006), ‘Simulated atom lithographic patterns using microscopic arrays of atomic beams by dipole force’, *International J for nanoscience*, **5**, 145-156.
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C. Papers in conference proceedings.

1. Eshita Mal, Rajendra Junjuri, M. K Gundawar and Alike Khare, "Spectroscopic characterization of laser induced molybdenum plasma in air", Meghnad Saha Memorial International Symposium –cum workshop on Laser induced breakdown spectroscopy, Department of Physics, University of Allahabad, Allahabad, India, February 19-21, 2018.
2. Sasmita Behera, Amandeep Kaur and Alike Khare, "Structural and optical properties of SrTiO₃ thin films fabricated by Pulsed Laser Deposition Technique National conference on Recent Advances in Science and Technology (NCRAS-2018), Assam Science and Technology University, Assam, India, March 15-17, 2018.
3. Prahlad K. Baruah, Ashwini K. Sharma and Alike Khare, "Particle size, surface plasmon resonance and stoichiometry of silver nanoparticles synthesized by pulsed laser ablation in distilled water, National Conference on Recent Advances in Science and Technology (NCRAS-2018), Assam Science and Technology University, Guwahati, March 15-17, 2018.
4. Partha P. Dey and Alike Khare, 'Third order Nonlinear optical properties of Si, SiO_x and a-SiC PLD thin films using Z-Scan technique', National conference on Recent Advances in Science and Technology (NCRAS-2018), Assam Science and Technology University, Assam, India, March 15-17, 2018.
5. Presented a paper entitled "Dynamic Phase manipulation and wavefront estimation of a laser beam using Computer Generated Hologram" in 'Research Conclave' 18' (An amalgamation of Academia, Industry & Startup), 8th-11th March 2018.
6. Prahlad K. Baruah, Ashwini K. Sharma and **Alike Khare**, Characterization of noble metal nanoparticles synthesized via pulsed laser ablation in liquid, International Conference on Sophisticated Instruments in Modern Research (ICSIMR-2017), IIT Guwahati, June 30 – July 1, 2017.
7. Rahul Kesarwani and **Alike Khare**, Characterization of PLD thin film via spectroscopic ellipsometry, International Conference on Sophisticated Instruments in Modern Research (ICSIMR-2017), IIT Guwahati, June 30 – July 1, 2017.
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