

Paper in Journals/Published proceedings

2018

1. Partha P Dey, Rahul Kesarwani and Alike 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 **Alike Khare** (2018, sept), '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.
<https://doi.org/10.1016/j.matchemphys.2018.06.004>
3. Rahul Kesarwani and **Alike Khare** (2018, June), 'Surface plasmon resonance and nonlinear optical behavior of pulsed laser deposited semitransparent Nano structured Copper thin films', *Applied phys B*, **124**, no. 6, 116 (<https://doi.org/10.1007/s00340-018-6986-x>).
4. Rasmi Ranjan Behera, Mamilla Ravi Sankar, Prahlad Kumar Baruah, Ashwini Kumar Sharma and **Alike Khare** (2018, May), 'Experimental investigations of nanosecond-pulsed Nd:YAG laser beam micromachining on 304 stainless steel', *Journal of Micromanufacturing*, **1**(1) 62–75. (DOI: 10.1177/2516598418766937).
5. Prahlad K. Baruah, Moghe A. Raman, Ishani Chakrabarty, Latha Rangan, Ashwini K. Sharma, **Alike Khare** (2018, May), 'Antibacterial Effect of Silk Treated with Silver and Copper Nanoparticles Synthesized by Pulsed Laser Ablation in Distilled Water', *AIP Conference Proceedings* **1953**, 030064 (2018); doi: 10.1063/1.5032399.
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8. Pankaj Singh, Eshita Mal, **Alike 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.
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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.
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16. Satchi Kumari, **Alika 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 **Alika Khare** (2017), 'Surface-enhanced Raman scattering from copper nanoparticles treated furanoflavonoid karanjin', *Adv Mat Lett*, **8** (10), 971-976.
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19. Prahlad K Baruah, Ashwini K Sharma and **Alika 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.
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28. Rasmi Ranjan Behera¹, M. Ravi Sankar¹, Indrajeet Kumar Ashwini Kumar Sharma, **Alika Khare**, and J. Swaminathan (2016) 'Experimental Investigation of Under Water Laser Beam Micromachining (UW-LBμM) on 304 Stainless Steel' *Int J Adv Manu tech* DOI 10.1007/s00170-016-8635-z August 2016, Volume 85, Issue 9, pp 1969–1982
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