THE NATIONAL COLLEGE

AUTONOMOUS

JAYANAGAR, BANGALORE: 70

Mr. Abhiram J

Faculty Member

2021

1. Comparative Study on Au-Ag composition in Lithium Zinc Calcium Fluroborate Glasses: Nonlinear Optics Perspective, **J Abhiram**,R. Rajaramakrishna, K M Rajashekara, G JagannathJ. KaewkhaoandJ. Rajagukguk*, J. Phys.: Conf. Ser.***1819**012022, https://doi.org/10.1088/1742-6596/1819/1/012022

2. Precursor Based Tuning of the Nonlinear Optical Properties of Au-Ag Bimetallic Nanoparticles Doped in Oxy-fluoroborate Glasses, **Abhiram Jagannathan**, JagannathGangareddy, R.Rajaramakrishna, K.M.Rajashekara, S. VenugopalRao, JKaewkhao, SKothan, A.El-Denglawey *J. Non-Cryst. Solids*, vol. 561, p. 120766, Jun. 2021, doi: 10.1016/j.jnoncrysol.2021.120766.
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4. Effects on inter-substitution of SrO to Li2O in borate glass systems doped with Sm3+ ions A. R. Venugopal, R. Rajaramakrishna, **J. Abhiram**, Vinayak Pattar, and K. M. Rajashekara, AIP Conference Proceedings 2274, 030038 (2020) https://doi.org/10.1063/5.0022416.

5. Optical and structural properties of ZnO-SrO-B2O3 glasses**, J. Abhiram**, R. Thejas, R. Raja Ramakrishna, Vinayak Pattar, A. R. Venugopal, and K. M. Rajashekara AIP Conference Proceedings 2274, 030034 (2020) https://doi.org/10.1063/5.0022415

6. Investigations on nonlinear optical properties of gold nanoparticles doped fluoroborate glasses for optical limiting applications, ***Abhiram Jagannathan*** *, Rajaramakrishna R, Rajashekara K M, JagannathGangareddy, VinayakPattar K, Venugopal RaoS, Eraiah B, Jagadeesha Angadi V, Kaewkhao J, Kothan* S, Journal of Non Crystalline Solids, **(2020); https://doi.org/10.1016/j.jnoncrysol.2020.120010**

7. Eu^{3+}ions doped SrO-CaO-Li2O-B2O3glasses foroptical display material application A.R. Venugopal,J. Kaewkhao,**JAbhiram**,K M Rajashekara,R. Rajaramakrishna,N. G. Pramod and Chethan Rao 2020*J. Phys.: Conf. Ser.***1485**012053 https://doi.org/10.1088/1742-6596/1485/1/012053

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8. Sm3+doped lithium strontium borate glasses for solid state lighting applications, Journal of glass physics and chemistry A. R. Venugopal,R. Rajaramakrishna,**J. Abhiram**,VinayakPattar,K. M. RajashekaraJ. Kaewkhao, *Glass Phys Chem***45,**472–484 (2019). https://doi.org/10.1134/S1087659620010216

9. Effect of SnO2 and SeO2 in Non-linear optical properties of Au nanoparticle doped self striking red ruby glasses**., J. Abhiram,**R. Rajaramakrishna, Y. Ruangtaweep, J. Kaewkhao **http://www.nano.kmitl.ac.th/tjnn/index.php/tjnn/article/view/51**

2018

10. Experimental Studies on role of pH, potential and concentration of buffer solution for chemical bath deposition technique-B L Suresha,H S Sumantha,K Mohammed Salman,N G Pramodand**J Abhiram doi://10.1088/1757-899X/346/1/012033**

11. Gamma-ray shielding effect of Gd^{3+} doped lead barium borate glasses**.,** *HarshithaKummathi,Naveen Kumar P.,Vedavathi T. C.,* ***Abhiram J*** *and R. Rajaramakrishna ,* **AIP Conference Proceedings 1953, 090051 (2018);https://doi.org/10.1063/1.5032898**

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12. Structural & Optical Properties of Copper doped Lanthanum Strontium Borate Glasses, Thontadaryadeeksht, Rojashree S, Suraj K, **Abhiram J**, R. Raja Ramakrishna, Rajashekara K.M, Vol. 04, Issue 07 July 2017,**ISSN: 2934-5170,**International Journal in Pure & Applied Sciences

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13. Spectroscopic study of neodymium doped lead-bismuth-borate glasses, *Altaf Pasha,DayaniP.,MaheshNegalur,ManjunathaSwamy,****AbhiramJ****andR. Rajaramakrishna,* ***A*****IP Conference Proceedings1728, 020264 (2016) https://doi.org/10.1063/1.4946315.**