




## K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Road, Bangalore-560109.

|                                  |  |   |
|----------------------------------|--|---|
| <b>Faculty Name</b>              | Dr. Jagannath G                          |  |
| <b>Designation</b>               | Asst. Professor                          |   |
| <b>Educational Qualification</b> | M.Sc., Ph.D.                             |   |
| <b>Experience in Years</b>       | 5 years                                  |   |
| <b>Areas of Interest</b>         | Physics, Material Science, Nanomaterials |   |
| <b>Aadhar Number</b>             | 857203158583                             |   |
| <b>E-mail</b>                    | jagangpsics@gmail.com                    |   |

### Educational Details

| Examination/<br>Degree | College / University  | Year of<br>Passing |
|------------------------|---|--------------------|
| UG                     | Govt. First Grade College, Chickaballapur-562101,<br>Bangalore University     | 2012               |
| PG                     | Department of Physics, J.B. Campus, Bangalore<br>University, Bengaluru-560056 | 2014               |
| PhD                    | Department of Physics, J.B. Campus, Bangalore<br>University, Bengaluru-560056 | 2019               |

### Publications

#### Journal Publications:

- G. Jagannath**, B Eraiah, K. NagaKrishnakanth, S. Venugopal Rao, "Linear and Nonlinear Optical Properties of Gold Nanoparticles Doped Borate Glasses", Journal Non- Crystalline Solids, 482 (2018) 160–169.
- Sangeeta B. Kolavekar, N. H. Ayachit, **G. Jagannath**, K. Naga Krishnakanth, S. Venugopal Rao, "Optical, Structural and Near-IR NLO Properties of Sodium Zinc Borate Glasses Doped with Gold Nanoparticles", Optical Materials, 83 (2018) 34–42.
- Jagannath Gangareddy**, Eraiah Bheemaiah, Vinitha Gandhiraj, Jaimson T James, Jephin K Jose, Krishnakanth Katturi Naga, Venugopal Rao Soma, "Nonlinear Optical Studies of Sodium Borate Glasses Embedded with Gold Nanoparticles", Applied Physics B: Lasers and

Optics, 124 (2018) 205 (1-9).

4. **Gangareddy Jagannath**, Bheemaiah Eraiah, Anuraag Gaddam, Hugo Fernandes, Daniela Brazete, K. Jayanthi, Katturi Naga Krishnakanth, Soma Venugopal Rao, José M. F. Ferreira, K. Annapurna, Amarnath R. Allu, “Structural and Femtosecond Third Order Nonlinear Optical Properties of Sodium Borate Oxide Glasses: Effect of Antimony”, The Journal of Physical Chemistry C, 123 (2019) 5591-5602.
5. **Jagannath Gangareddy**, Bheemaiah Eraiah, Jayanthi Kumar, Shweta Rani Keshri, Sudipta Som, Vinitha Gandhiraj, Pramod A G, Katturi Naga Krishnakanth, Devarjulu G, Sathravada Balaji, Soma Venugopal Rao, Kalyandurg Annapurna, Subrata Das and Amarnath Reddy Allu, “Influence of Gold Nanoparticles on Nonlinear Optical and Photoluminescence Properties of Eu<sub>2</sub>O<sub>3</sub> Doped Alkali Borate Glasses”, Physical Chemistry Chemical Physics, 22 (2020) 2019-2032.
6. Kumar Promod, Mathpal Mohan, Prakash Jai, **Gangareddy Jagannath**, Asokan Kandasami, Wiets Roos, Swart, Hendrik, “Plasmonic and Nonlinear Optical Behavior of Ag/Cu Core-Shell Nanostructures in Glass Matrix for Photonics” , Materials Research Bulletin, 125 (2020) 110799.
7. Ranjith P, Sreevalsa S, Jyoti Tyagi, Jayanthi K, **Jagannath G**, Pritha Patra, Shahzad Ahmad, Annapurna K, Amarnath R. Allu, Subrata Das, “Elucidating the Structure and Optimising the Photoluminescence Properties of Sr<sub>2-x</sub>Al<sub>3</sub>O<sub>6</sub>F:Eu<sub>x</sub> Oxyfluorides for Cool White-LEDs”, Journal of Alloys and Compounds 826 (2020) 154015.
8. Jagannathan Abhiram, **Gangareddy Jagannath**, R. Rajaramakrishna, K. Vinayak Pattar, S. Venugopal Rao, B. Eraiah, K. M. Rajashekara J. Kaewkhao, “Investigations on Nonlinear Optical Properties of Gold Nanoparticles Doped Fluoroborate Glasses for Optical Limiting Applications”, Journal of Non-Crystalline Solids, 538 (2020) 120010.
9. C. Devaraja, G.V. Jagadeesha Gowda, K. Keshavamurthy, B. Eraiah, G. Devarajulu, **G. Jagannath**, “Physical, structural and photo luminescence properties of lead boro-tellurite glasses doped with Eu<sup>3+</sup> ions”, Vacuum 177 (2020) 109426.

#### **Conference Papers:**

1. A. Madhu, **G. Jagannath**, G. Vinitha, R.V. Anavekar, “Investigation on Linear and Nonlinear Optical Properties of Nd<sup>3+</sup>-Doped Lead Boro-Tellurite Glasses”, International

Conference on Fibre Optics and Photonics, P1A. 10 (OSA proceedings).

2. P. Ramesh, G. Jagannath, B Eraiah, M K Kokila, “Optical and Physical Investigation on Lanthanum Bismuth Borate glasses doped with Ho<sub>2</sub>O<sub>3</sub>”, IOP Conference Series: Materials Science and Engineering 310 (2018) 012032.
3. **Jagannath G**, Eraiah B, Naga Krishnakanth K, Venugopal Rao S, “The Nonlinear Investigation in Nd<sub>2</sub>O<sub>3</sub> doped Sodium Zinc Borate Glasses under Ultrafast Excitation”
4. **G. Jagannath**, B. Eraiah, “Optical Properties of Eu<sup>3+</sup> - Doped Borate Glasses: Effect of Gold Nanoparticles” (ISBN No: 978-93-82694-44-1)
5. P. Ramesh, G. Jagannath, A. G. Pramod, K. N. Krishnakanth, S. Venugopal Rao, M. K. Kokila, “Femtosecond Nonlinear Optical Properties of Heavy Metal Borate Glasses Studied Using Z–scan Technique”, AIP Conference Proceedings 2142 (2019) 070025.
6. **G. Jagannath**, B. Eraiah, K. N. Krishnakanth, S. Venugopal Rao, “Influence of Eu<sup>3+</sup> ions on Nonlinear Optical Properties of Alkali Borate Glasses at NearInfrared Wavelengths”, AIP Conference Proceedings 2142 (2019) 070024.
7. P. Ramesh, **G. Jagannath**, B. Eraiah, S. Venugopal Rao, M.K. Kokila, “Influence of PbO on Nonlinear Optical Properties of Eu<sup>3+</sup> Doped La<sub>2</sub>O<sub>3</sub>–PbO–B<sub>2</sub>O<sub>3</sub> Glasses”, AIP Conference Proceedings 2220 (2020) 080048.

## Awards

1. Best Poster award at National Conference on Condensed Matter and Space Science (NCCSS-2017) held at National College, Jayanagar, Bengaluru on 3rd – 4th July 2017.

## Professional Membership

- 1.
- 2.

## Contact Details

Dr. Jagannath G,  
Assistant Professor,  
Department of Physics,  
K S Institute of Technology Bengaluru–560109 Karnataka, INDIA.  
Mob: +91-9916191323 E-mail: jagangpsics@gmail.com