## COMPLETE LIST OF PUBLICATIONS

## PUBLICATIONS IN REFERRED JOURNALS: (*Corresponding author)

### 2024

**1.** Indrajeet Mandal, **Jagannath Gangareddy**, Abimannan Sethurajaperumal, Murugasenapathi NK, Manikanta Majji, Susmita Bera, Pratyasha Rudra, Vanmathi Ravichandran, Sandip Bysakh, Noah Jacob, K. D. M. Rao, Rajiv K. Singh,N. M. Anoop Krishnan, Manohar Chirumamilla,* Tamilarasan Palanisamy*, M. Motapothula*, Eswaraiah Varrla*, Srabanti Ghosh*, and Amarnath R. Allu*, "*H-Glass Supported Hybrid Gold Nano-Islands for Visible-Light-Driven Hydrogen Evolution*", **Small** *xx* (2024) 2401131. **(I.F. = 13.3)**

**2.** Basappa, T.N. Ashoka, S.B. Kolavekar, K.N. Sathish, S. Shashidhar*, K. Keshavamurthy*, Aljawhara H. Almuqrin, Dalal Abdullah Aloraini, M.I. Sayyed, R. Rajaramakrishna, A.G. Pramod, S. Venugopal Rao, **G. Jagannath**, "*Effect of silver nanoparticles size on the ultrafast optical nonlinear and optical limiting properties of* $Nd^{3+}$ *doped antimony borate glasses*" **Infrared Physics and Technology** 138 (2024) 105268. **(I.F. = 3.3)**

**3.** Basappa, T. N. Ashoka, K. N. Sathish, K. V. Brungesh, S. Shashidhar*, D. Karthik, D. Rajeshree Patwari, Hamad Syed, Aljawhara H. Almuqrin, M. I. Sayyed, K. N. N. Prasad, A. G. Pramod, K. Keshavamurthy*, and **G. Jagannath***, "*Enhanced nonlinear optical and optical liming properties of holmium containing borate glasses embedded with silver nanoparticles*", **Journal of Materials Science: Materials in Electronics** 35 (2024) 519. **(I.F. = 2.8)**

**4.** Hanan Al–Ghamdi, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, **G. Jagannath***, M. I. Sayyed, "*Nanosecond nonlinear optical properties of oxide glasses embedded with plasmonic nanoparticles at the spectral excitation near to surface plasmon resonance*", **Physica B: Condensed Matter** 678 (2024) 415756. **(I.F. = 2.8)**

**5.** Abhiram Jagannathan, R. Rajaramakrishna*, **Jagannath Gangareddy**, K.M. Rajashekara, Venugopal Rao Soma, J. Kaewkhao, S. Kothan, Darya Pavlovna Surzhikova, "*Third order nonlinear optical properties of lithium zinc calcium fluoroborate glasses embedded with Au–Ag nanoparticles*", **Optical Materials** 149 (2024) 115013. **(I.F. = 3.9)**

**6.** J.S. Revathy, Malini Abraham, **G. Jagannath**, Sushanta Kumar Mohapatra, Mukesh Kumar Pandey, K. Annapurna, Deepthi N. Rajendran*, Subrata Das*, "*Correlated structural and optical properties of crystal-engineered* $Eu^{3+}$*-doped gadolinium oxyfluoride polymorphs*

*compatible for lighting and display applications*" **Ceramics International** 50 (2024) 6769–6783. **(I.F. = 5.2)**

**7.** **Jagannath Gangareddy**, Pratyasha Rudra, Manohar Chirumamilla, Sudheer Ganisetti, Subramanian Kasimuthumaniyan, Sourav Sahoo, K. Jayanthi, Jagannath Rathod, Venugopal Rao Soma, Subrata Das, Nitya Nand Gosvami, N. M. Anoop Krishnan, Kjeld Pedersen, Swastik Mondal*, Srabanti Ghosh*, and Amarnath R. Allu*, "*Multi-Functional Applications of H-Glass Embedded with Stable Plasmonic Gold Nanoislands*" **Small** 20 (2024) 2303688. **(I.F. = 13.3)**

**8.** Kavitha Hanamar, **G. Jagannath***, S.B. Kolavekar, N.H. Ayachit, Harika Patnala, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, M.I. Sayyed, A.G. Pramod, K. Keshavamurthy, S. Venugopal Rao, B.G. Hegde*, "*Nonlinear optical coefficients of Samarium–activated lithium zinc borate glasses in femtosecond and nanosecond regimes*" **Optics and Laser Technology** 168 (2024) 109859. **(I.F. = 5)**

**9.** Hammam Abdurabu Thabit*, Abd Khamim Ismail*, M.I. Sayyed, S. Hashim, I. Abdullahi, Mohamed Elsafi, K. Keshavamurthy, **G. Jagannath**, "*Optical, thermal and gamma ray attenuation characteristics of tungsten oxide modified: $B_2O_3$–$SrCO_3$–$TeO_2$–ZnO glass series*" **Nuclear Engineering and Technology** 56 (2024) 247–256. **(I.F. = 2.7)**

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**10.** B.N. Swetha, K. Keshavamurth*, A.L. Latha, A.G. Pramod, **G. Jagannath**, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, M.I. Sayyed, T.N. Ashoka, S. Venugopal Rao, M.K. Kokila*, "*Enhanced nonlinear optical absorption and optical limiting performance of nanoparticles embedded lanthanum alkali borate glasses bearing holmium ions at off–resonant spectral excitation*" **Optical Materials** 145 (2023) 114462. **(I.F. = 3.9)**

**11.** **Jagannath Gangareddy***, Hamad Syed, Saswata Chakraborty, Prince Sen, Manasi Ghosh, Krishna Kishor Dey, K. Bhattacharyya, K. Annapurna, Venugopal Rao Soma*, Amarnath R. Allu*, "*Tunable, efficient, ultrafast broadband nonlinear optical properties of $TiO_2$–loaded complex phosphate glasses*", **Materials Research Bulletin** 167 (2023) 112414. **(I.F. = 5.4)**

**12.** N. Chowdareddy, Ashok R. Lamani*, Sampath Chinnam, **G. Jagannath***, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, M.I. Sayyed, H.S. Jayanna, K. Keshavamurthy*, "*Photoluminescence enhancement of $Nd^{3+}$ doped antimony borate glasses by inclusion of silver nanoparticles*", **Journal of Luminescence** 262 (2023) 119957. **(I.F. = 3.6)**

**13.** Abeer S. Altowyan, **Gangareddy Jagannath***, K. Keshavamurthy*, M.I. Sayyed*, **"***Enhanced resonant nonlinear optical traits and optical limiting performance of metal nanoparticles containing borate glasses in nanosecond pulse regime***" Inorganic Chemistry Communications** 155 (2023) 110991. **(I.F. = 3.8)**

**14.** N. Chowdareddy, Ashok R. Lamani*, A.G. Pramod*, Vadiraj B. Tangod, Aljawhara H. Almuqrin, M.I. Sayyed, H.S. Jayanna, G. Jagannath, S. Venugopal Rao, K. Keshavamurthy*, **"***Nonlinear refractive index enhancement of $Nd^{3+}$ ions loaded borate glasses in the near–infrared region by silver nanoparticles***"** **Optical Materials** 142 (2023) 114067. **(I.F. = 3.9)**

**15.** K. Gurushantha, Harika Patnala, Sangeeta B. Kolavekar*, Vadiraj B. Tangod, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, M.I. Sayyed, S. Venugopal Rao, A.G. Pramod*, **Gangareddy Jagannath**, D. Rajeshree Patwari, K. Keshavamurthy*, "*Annealing and intensity dependent femtosecond nonlinear optical studies of sodium zinc borate oxide glasses incorporated with gold nanoparticles*" **Journal of Non–Crystalline Solids** 617 (2023) 122484. **(I.F. = 3.5)**

**16.** K. Gurushantha, **G. Jagannath***, S. B. Kolavekar, A. G. Pramod, Aljawhara H. Almuqrin, M.I. Sayyed, K. Keshavamurthy*, and P. Ramesh*, "*Nanosecond nonlinear optical and gamma radiation shielding behavior of $Eu_2O_3$ doped lanthanum containing heavy metal borate glasses: a comparative investigation*", **Journal of Materials Science** 58 (2023) 7259-7271. **(I.F. = 4.5)**

**17.** K. Gurushantha, B.N. Swetha, S.B. Kolavekar, A.G. Pramod, Aljawhara H. Almuqrin, M.I. Sayyed, **G. Jagannath***, K. Keshavamurthy*, "*Nonlinear optical properties of gold nanoparticles containing borate glasses at spectral region of surface plasmon resonance*", **Materials Today Communications** 35 (2023) 106032. **(I.F. = 3.8)**

**18.** K. Gurushantha, **G. Jagannath***, S.B. Kolavekar, A.G. Pramod, Aljawhara H. Almuqrin, M.I. Sayyed, Narlagiri Linga Murthy, S. Venugopal Rao, K. Keshavamurthy*, "*Gold nanoparticles enhanced femtosecond nonlinear optical properties of sodium borate oxide glasses*", **Infrared Physics and Technology** 131 (2023) 104663. **(I.F. = 3.3)**

**19.** J.S. Revathy, Malini Abraham, **G. Jagannath**, Deepthi N. Rajendran*, Subrata Das*, "*Microwave–assisted synthesis of GdOF: $Eu^{3+}$/$Tb^{3+}$ ultrafine phosphor powders suitable for advanced forensic and security ink applications*", **Journal of Colloid and Interface Science** 641 (2023) 1014–1032. **(I.F. = 9.9)**

**20.** Hammam Abdurabu Thabit*, Abd Khamim Ismail, **G. Jagannath**, Abdullahi I, S. Hashim, M.I. Sayyed, "*Physical, optical and spectroscopic characteristics investigation for doped $Dy^{3+}$ borate glass matrix*" **Journal of Non–Crystalline Solids** 608 (2023) 122258. **(I.F. = 3.5)**

**21.** A.G. Pramod, **Gangareddy Jagannath***, K. Keshavamurthy*, B. Eraiah, P. Ramesh, Hanan Al-Ghamdi, Aljawhara H. Almuqrin, M.I. Sayyed, K.R. Venkatesha Babu, Narlagiri Linga Murthy, S. Venugopal Rao, "*Effect of $Pr_6O_{11}$ on improving the Near–Infrared nonlinear optical characteristics of zinc borate glasses*", **Optical Materials** 136 (2023) 113372. **(I.F. = 3.9)**

**22.** Kempaiah Keshavamurthy, **Gangareddy Jagannath***, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, M.I. Sayyed, K. N. Sathish, P. Ramesh*, "*Silver Nanoparticles Amplified Visible and Infrared Photoluminescence Features of $Er^{3+}$ Ions Activated in Borate Glasses*", **Plasmonics** 18 (2023) 175–182. **(I.F. = 3)**

**23.** K. Gurushantha, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, **G. Jagannath*,** A.G. Pramod, M.I. Sayyed, K. Keshavamurthy*, "*Third–order optical nonlinear features of $Er^{3+}$ and $Pr^{3+}$ activated multicomponent borate glasses in nanosecond pulse regime: A comparative study*", **Ceramics International** 49 (2023) 1473–147. **(I.F. = 5.2)**

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**24.** K. Keshavamurthy, K. Gurushantha, M.I. Sayyed, Nouf Almousa, U. Mahaboob Pasha, **G. Jagannath***, P. Ramesh, "*Silver nanoparticles improved infrared photoluminescence of $Nd^{3+}$ doped sodium borate glasses*", **Infrared Physics and Technology** 127 (2022) 104451. **(I.F. = 3.3)**

**25.** M.I. Sayyed, Nouf M. Almousa, K. Keshavamurthy*, **G. Jagannath***, "*Enhanced $Er^{3+}$ photoluminescence in sodium borate glasses containing silver nanoparticles for photonic functionalities*", **Optical Materials** 134 (2022) 113194. **(I.F. = 3.9)**

**26.** N. Chowdareddy, Ashok R Lamani*, A.G. Pramod, **G. Jagannath***, K. Keshavamurthy, P. Ramesh, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, M.I. Sayyed, B.S. Avinash, H.S. Jayanna, Hamad Syed, S. Venugopal Rao "*Tunable ultrafast near–infrared nonlinear optical properties of $Eu^{3+}$ and silver nanoparticles doped alkali borate glasses*", **Infrared Physics and Technology** 127 (2022) 104407. **(I.F. = 3.3)**

**27.** Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, **G. Jagannath***, M.I. Sayyed, K. Keshavamurthy, A.G. Pramod, K.R. Venkatesha Babu, Shlair Ibrahim Mohammed, S. Venugopal Rao, "*Annealing duration dependent optical, nonlinear optical, and optical limiting properties of rare-earth doped glasses embedded with gold nanoparticles*", **Journal of Non–Crystalline Solids** 597 (2022) 121921. **(I.F. = 3.5)**

**28.** B. N. Swetha, K. Keshavamurthy*, **G. Jagannath***, K. Gurushantha, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, M. I. Sayyed, A. G. Pramod, G. Devarajulu, "*Effect of heat treatment on photoluminescence attributes of $Sm^{3+}$ doped $B_2O_3$–$Na_2O$–$La_2O_3$ glasses embedded with silver nanoparticles*", **Applied Physics A: Materials Science and Processing** 128 (2022) 679. **(I.F. = 2.7)**

**29.** A.G. Pramod, **Jagannath G***, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, M.I. Sayyed, K.N. Sathish, K. Keshavamurthy, Sangeeta B. Kolavekar, Soma Venugopal Rao, P. Ramesh, "*Enhanced near-infrared femtosecond nonlinear optical properties in zinc borate glasses activated with $Er_2O_3$*", **Optical Materials** 131 (2022) 112679. **(I.F. = 3.9)**

**30.** Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, **Gangareddy Jagannath***, M. I. Sayyed, "*Impact of heavy metal oxide on nanosecond nonlinear optical, optical limiting and gamma radiation shielding attributes of borate glasses for laser and nuclear radiation protection applications*", **Applied Physics A: Materials Science and Processing** 128 (2022) 634. **(I.F. = 2.7)**

**31.** Yas Al–Hadeethi*, Arwa T. Kutbee, Moustafa Ahmed, M. I. Sayyed, **Gangareddy Jagannath***, "*Tuning of third-order nonlinear optical susceptibility of $Eu^{3+}$ doped alkali borate glasses in visible region by embedding gold nanoparticles*", **European Physical Journal Plus** 137 (2022) 765. **(I.F.: = 3.4)**

**32.** Aljawhara H. Almuqrin, M. I. Sayyed, A. G. Pramod, K. Keshavamurthy, and **Gangareddy Jagannath***, "*Optical limiting and nonlinear optical properties of silver nanoparticles embedded glasses containing rare-earth ions at 532 nm under nanosecond regime*", **Journal of Materials Science: Materials in Electronics** 33 (2022) 16357–16368. **(I.F. = 2.8)**

**33.** Vinod Hegde*, G. Devarajulu, A. G. Pramod, Sangeeta B. Kolavekar, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, M.I. Sayyed and **G. Jagannath**, "*Analysis of Optical and Near-Infrared Luminescence of $Er^{3+}$ and $Er^{3+/}Yb^{3+}$ Co-Doped Heavy Metal Borate Glasses for Optical Amplifier Applications*", **Photonics** 9 (2022) 355. **(I.F. = 2.4)**

**34.** Mahesh M. Hivrekar, **G. Jagannath***, A.G. Pramod, Dalal Abdullah Aloraini, Aljawhara H. Almuqrin, M.I. Sayyed, K. Keshavamurthy, Vinod Hegde, K.N. Sathish, U. Mahaboob Pasha, S. Venugopal Rao, Sabina Yasmin, K.M. Jadhav*, "*Third-order nonlinear optical properties of $Sm_2O_3$ activated cadmium alkali borate glasses*", **Optical Materials** 127 (2022) 112313. **(I.F. = 3.9)**

**35.** Aljawhara H. Almuqrin, **Jagannath Gangareddy***, Mahesh M. Hivrekar, A. G. Pramod, M. I. Sayyed, K. Keshavamurthy, Naseem Fatima and K. M. Jadhav*, "*Nonlinear Optical Limiting and Radiation Shielding Characteristics of $Sm_2O_3$ Doped Cadmium Sodium Lithium Borate Glasses*", **Materials** 15 (2022) 2330. **(I.F. = 3.4)**

**36.** Yas Al–Hadeethi*, M.I. Sayyed, Abeer Z. Barasheed, Moustafa Ahmed, **Gangareddy Jagannath***, "*Nanosecond nonlinear optical, optical limiting and structural properties of $Eu^{3+}$ activated antimony sodium borate glasses embedded with silver nanoparticles: Effect of heat treatment*", **Optical Materials** 125 (2022) 112106. **(I.F. = 3.9)**

**37.** **G. Jagannath***, Anuraag Gaddam, S. Venugopal Rao, D.A. Agarkov, G.M. Korableva, Manasi Ghosh, Krishna Kishor Dey, José M.F. Ferreira, Amarnath R. Allu*, "*Tunable femtosecond nonlinear absorption and optical limiting thresholds of $La_2O_3$–$B_2O_3$ glasses by controlling the borate structural units*", **Scripta Materialia** 211 (2022) 114530. **(I.F. = 6)**

**38.** Vinod Hegde, Sudha D. Kamath*, Imen Kebaili, M.I. Sayyed, K.N. Sathish, C.S. Dwaraka Viswanath, A.G. Pramod, P. Ramesh, K. Keshavamurthy, G. Devarajulu, **G. Jagannath***, "*Photoluminescence, nonlinear optical and gamma radiation shielding properties of high concentration of $Eu_2O_3$ doped heavy metal borate glasses*", **Optik** 251 (2022) 168433. **(I.F. = 3.1)**

**39.** B.N. Swetha, K. Keshavamurthy*, A.G. Pramod, G. Devarajulu, K.P. Roopa, D. Rajeshree Patwari, Imen Kebaili, Samia ben Ahmed, M.I. Sayyed, Sultan Khan, P. Ramesh, K.N. Sathish, Naseem Fatima, K. Annapurna, **G. Jagannath***, "*Improved photoluminescence and spectroscopic features of $Sm^{3+}$–doped alkali borate glasses by embedding silver nanoparticles*", **Journal of Non–Crystalline Solids** 579 (2022) 121371. **(I.F. 3.5)**

**40.** Naseem Fatima, K.N. Sathish, A.G. Pramod, Vinod Hegde, Mahesh M. Hivrekar, K. Keshavamurthy, B.N. Swetha, P. Ramesh, Badriah Albarzan, Aljawhara H Almuqrin, M.I. Sayyed, Y.F. Nadaf*, **G. Jagannath***, "*Optimising the $Eu_2O_3$ concentration and tuning the photoluminescence attributes of $Eu_2O_3$ doped borate glasses by Co–doping with silver nanoparticles*", **Journal of Non–Crystalline Solids** 576 (2022) 121250. **(I.F. = 3.5)**

## 2021

**41.** K. Keshavamurthy, B.N. Swetha, Fatemah Farraj Al–Harbi, **Jagannath G***, Aljawhara H. Almuqrin, M.I. Sayyed, Samia Ben Ahmed, A.G. Pramod, Shivaraja Itigi, Ramesh P, D. Rajeshree Patwari, Narlagiri Linga Murthy, K.N. Sathish, S. Venugopal Rao, "*Improved near–infrared nonlinear optical properties of $Sm^{3+}$ containing borate glasses: Effect of silver nanoparticles concentration*", **Optical Materials** 122 (2021) 111804. **(I.F. = 3.9)**

**42.** K. Keshavamurthy, B.N. Swetha, K.N. Sathish, A.G. Pramod, Imen Kebaili, M.I. Sayyed, Shivaraja Itigi, P. Ramesh, Vinod Hegde, Narlagiri Linga Murthy, S. Venugopal Rao, **G. Jagannath***, "*Near–infrared nonlinear optical characteristics of silver nanoparticles embedded borate glasses activated with $Sm^{3+}$ ions: Effect of heat treatment*", **Infrared Physics and Technology** 119 (2021) 103959. **(I.F. = 3.3)**

**43.** Promod Kumar, Mohan Chandra Mathpal, **Gangareddy Jagannath**, Jai Prakash, Jero–R Maze, W D Roos and H C Swart, "*Optical limiting applications of resonating plasmonic Au nanoparticles in a dielectric glass medium*", **Nanotechnology** 32 (2021) 345709. **(I.F. = 3.5)**

**44.** Tayaramma D.P.V. Jalluri, K.V Sriram, B. Rudraswamy*, Vinod Hegde, G. Devarajulu, K.N.N. Prasad, A.G Pramod, Dalal Abdullah Aloraini, Aljawhara H Almuqrin, M.I. Sayyed, B. Eraiah, S.C. Prashantha, S. Venugopal Rao, **G. Jagannath***, "*Photoluminescence and nonlinear optical investigations on $Eu_2O_3$ doped sodium bismuth*

*borate glasses for solid state lighting and near–infrared optical limiting applications*", **Infrared Physics and Technology** 116 (2021) 103784. **(I.F. = 3.3)**

**45.** P. Ramesh, Vinod Hegde, K. Keshavamurthy, A.G. Pramod, **G. Jagannath***, Dalal Abdullah Aloraini, Aljawhara H Almuqrin, M.I. Sayyed, K.S. Harisha, Sultan Khan, K. Annapurna, S. Venugopal Rao, M.K. Kokila*, "*Influence of gamma irradiation on photoluminescence and nonlinear optical properties of $Eu^{3+}$ activated heavy metal borate glasses*", **Optical Materials** 116 (2021) 111102. **(I.F. = 3.9)**

**46.** B.N. Swetha, K. Keshavamurthy*, Gaurav Gupta*, Dalal Abdullah Aloraini, Aljawhara H Almuqrin, M.I. Sayyed, **Gangareddy Jagannath***, "*Silver nanoparticles enhanced photoluminescence and the spectroscopic performances of $Nd^{3+}$ ions in sodium lanthanum borate glass host: Effect of heat treatment*", **Ceramics International** 47 (2021) 21212–21220. **(I.F. = 5.2]**

**47.** B.N. Swetha, K. Keshavamurthy*, **Gangareddy Jagannath**, "*Influence of size of Ag NP on spectroscopic performances of $Eu^{3+}$ ions in sodium borate glass host*", **Optik** 240 (2021) 166918. **(I.F. = 3.1)**

**48.** Naseem Fatima, A.G. Pramod, **G. Jagannath***, R. Rajaramakrishna, K. Keshavamurthy, P. Ramesh, K.N. Sathish, Abdullah M.S. Alhuthali, M.I. Sayyed, Vinod Hegde, S. Venugopal Rao, Y.F. Nadaf*, "*Enhanced non–linear optical properties of $Eu^{3+}$ activated glasses by embedding silver nanoparticles*", **Ceramics International** 47 (2021) 16801–16808. **(I.F. = 5.2)**

**49.** Abhiram Jagannathan, **Jagannath Gangareddy**, R. Rajaramakrishna*, K.M. Rajashekara, S. Venugopal Rao, J. Kaewkhao, S. Kothan, A. El–Denglawey, "*Precursors Based Tuning of the Nonlinear Optical Properties of Au–Ag Bimtellic Nanoparticles Doped in Oxy–fluoroborate Glasses*", **Journal of Non–Crystalline Solids** 561 (2021) 120766. **(I.F. =3.5)**

**50.** **G. Jagannath***, A.G. Pramod, K. Keshavamurthy, B.N. Swetha, B. Eraiah, R. Rajaramakrishna, P. Ramesh, Vinod Hegde, S. C. Prashantha, Abdullah M.S. Alhuthali, M.I. Sayyed, "*Nonlinear optical, optical limiting and radiation shielding features of $Eu^{3+}$ activated borate glasses*", **Optik** 232 (2021) 166563. **(I.F. = 3.1)**

**51.** P. Ramesh, **Jagannath Gangareddy***, K.N. Sathish, A.G. Pramod, Vinod Hegde, U. Mahaboob Pasha, Sultan Khan, K. Annapurna, M.I. Sayyed, Abdullah M. S. Alhuthali, D.A. Agarkov, M.K. Kokila*, "*Effect of heavy metal oxides on photoluminescence and spectroscopic attributes of $Eu^{3+}$ activated borate glasses*", **Optical Materials** 114 (2021) 110933. **(I.F. = 3.9)**

**52.** **Gangareddy Jagannath***, M.I. Sayyed and Abdullah M.S. Alhuthali, "*Nanosecond nonlinear optical, optical limiting and gamma radiation shielding attributes of $Eu^{3+}$ ions*

*doped heavy metal borate glasses*", **Ceramics International** 47 (2021) 14330–14340. **(I.F. = 5.2)**

**53.** Naseem Fatima, A.G. Pramod, P. Ramesh, K.N. Krishnakanth, **G. Jagannath**, S. Venugopal Rao and Y.F. Nadaf*****, "*Efficacy of $Eu^{3+}$ on improving the near–infrared optical nonlinearities and optical limiting properties of antimony sodium borate glasses*", **Journal of Non–Crystalline Solids** 556 (2021) 120566. **(I.F. = 3.5)**

**2020**

**54.** B.N. Swetha, G. Devarajulu, K. Keshavamurthy*****, **G. Jagannath** and H.R. Deepa, "*Enhanced 1.53 μm emission of $Er^{3+}$ in nano–Ag embedded sodium-boro-lanthante glasses*", **Journal of Alloys and Compounds** 856 (2020) 158212. **(I.F. = 6.2)**

**55.** P. Ramesh, Vinod Hegde, A.G. Pramod, B. Eraiah, D.A. Agarkov*****, G.M. Eliseeva, M.K. Pandey*****, K. Annapurna, **G. Jagannath**, M.K. Kokila*****, "*Compositional dependence of red photoluminescence of $Eu^{3+}$ ions in lead and bismuth containing borate glasses*", **Solid State Sciences** 107 (2020) 106360. **(I.F. = 3.5)**

**56.** P. Ramesh, Vinod Hegde, A.G. Pramod, B. Eraiah, S. Venugopal Rao*****, S. Shisina, Subrata Das, D.A. Agarkov, G.M. Eliseeva, **G. Jagannath***, M.K. Kokila*****, "*Effect of $Eu^{3+}$ in tuning the ultrafast third–order optical nonlinearity in heavy metal borate glasses*", **Optical Materials** 108 (2020) 110051. **(I.F. = 3.9)**

**57.** C. Devaraja, G.V. Jagadeesha Gowda*****, K. Keshavamurthy, B. Eraiah, G. Devarajulu, **G. Jagannath**, "*Physical, structural and photoluminescence properties of lead boro-tellurite glasses doped with $Eu^{3+}$ ions*", **Vacuum** 177 (2020) 109426. **(I.F. = 4)**

**58.** Abhiram Jagannathan, R. Rajaramakrishna*****, K.M. Rajashekara, **Jagannath Gangareddy**, Vinayak Pattar K, Venugopal Rao S, Eraiah B, Jagadeesha Angadi V, J. Kaewkhao, S. Kothan, "*Investigations on nonlinear optical properties of gold nanoparticles doped fluoroborate glasses for optical limiting applications*", **Journal of Non–Crystalline Solids** 538 (2020) 120010. **(I.F. = 3.5)**

**59.** P. Ranjith, S. Sreevalsa, Jyoti Tyagi, K. Jayanthi, **G. Jagannath**, Pritha Patra, Shahzad Ahmad*****, K. Annapurna, Amarnath R. Allu*****, Subrata Das*****, "*Elucidating the structure and optimising the photoluminescence properties of $Sr_{2-x}Al_3O_6F:Eu_x$ oxyfluorides for cool white–LEDs*", **Journal of Alloys and Compounds** 826 (2020) 154015. **(I.F. = 6.2)**

**60.** Promod Kumar*****, Mohan Chandra Mathpal, Jai Prakash, **Gangareddy Jagannath**, W. D. Roos, H.C. Swart*****, "*Plasmonic and nonlinear optical behavior of Ag/Cu core-shell nanostructures in glass matrix for photonics*", **Materials Research Bulletin** 125 (2020) 110799. **(I.F. = 5.4)**

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