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Area of Specialization: Structural Engineering
Experience: 16 Years.

List of Publications

International

1. Vinodhkumar, S & **Balaji S** (2016), ‘Artificial Neural Network Modelling and Economic Analysis of Black Cotton Soil Subgrade Stabilized with Flyash and Geotextile’, International Journal of Earth Sciences and Engineering, Vol. 09, No. 1, pp. 81-86.
2. **Balaji, S** & Thirugnanam, GS (2017), ‘Study on exterior RC beam-column joints upgrade with SIFCON in joint core under reversed cyclic loading’, KSCE- Journal of Civil Engineering, Vol. 21, No. 1, pp. 246-352.
3. Manikandan, P., Aruna. G., **Balaji, S.**, Sukumar. S. & Sivakumar. M (2017), ‘Evaluation on Effectiveness of Cold-Formed Steel Column with Various Types of Edge Stiffener’, Arabian Journal for Science & Engineering, Vol. 42, pp. 4157-4168, DOI 10.1007/s13369-017-2571-6.
4. **Balaji, S** & Thirugnanam, GS (2018), ‘Behaviour of Reinforced Concrete Beams with SIFCON at Various Locations in the Beam’, KSCE Journal of Civil Engineering, Vol. 22, No. 01, pp. 161 -166,
5. Manikandan, P., **Balaji, S.**, Sukumar, S., & Sivakumar, M (2017), ‘Experimental and Numerical Analysis of Web Stiffened Cold-Formed Steel Column with Various Types of Edge Stiffener’, International Journal of Advanced Structural Engineering, Vol. 9, pp. 129-138. DOI : 10.1007/s40091-017-0153-1.
6. Sreenath, S., **Balaji. S.** & Saravana Raja Mohan. K (2017), ‘Behaviour of axially and eccentrically loaded short columns reinforced with GFRP bars’, Earth and Environmental Science, Vol. 80, pp. 1-11, IOP Publishing, DOI:10.1088/1755-1315/80/1/012030.
7. Praveen Kumar, A. & **Balaji, S** (2017), ‘Review on Applications of Fiber Bragg Grating Sensor’, International Journal for Scientific Research & Development, Vol. 5, No. 2, pp. 729-732.
8. **Balaji, S.**, Vinodhkumar, S., Ridhuvarsine, R.G. (2019) ,Applications and Performance of Geogrids in Structures, International Journal of Recent Technology and Engineering, Vol. 8 No. 4, pp. 5495-5500.
9. Vinodhkumar, S & **Balaji S**, (2019), ‘Dredged Soil Improvement by Electro Osmosis’, International Journal of Recent Technology and Engineering, Vol. 8, No.3, pp. 6992-6995.

10. Mohammed Suhail, F & **Balaji S**, (2020), 'A Review on the Structural Behavior of Cold-Formed Steel Beam-Column Joints', International Journal of Advanced Science and Technology, Vol. 29, No.3, pp. 7885-7893.

11. Sruthi, R & **Balaji S**, (2020), 'Effect of Fiber-Cement Matrix Interface on the Mechanical Behavior of SIFCON', International Journal of Scientific & Technology Research, Vol. 9, No.3, pp. 6831-6837.

National

1. **Balaji, S** & Thirugnanam, GS (2013), 'Flexural strengthening of reinforced concrete beams using precast SIFCON laminates', Journal of Structural Engineering, vol. 40, no. 3, pp. 262-267.

2. **Balaji, S** & Thirugnanam, GS (2013), 'Experimental study on behavior of SIFCON beam-column joints subjected to cyclic loading', Journal of Structural Engineering, vol. 40, no. 3, pp. 268-273.

3. **Balaji, S** & Thirugnanam, GS (2014), 'Cyclic behavior of exterior beam-column joints strengthened with precast slurry infiltrated fibrous concrete laminates', Journal of Engineering and Technology, vol. 4, pp. 65-69.

4. Thirugnanam, GS & **Balaji, S** (2014), 'New age retrofitter', Construction Opportunities, vol. 1, no. 2, pp. 48-50.

5. Kavin, M., Deepanraaj, KS., & **Balaji, S** (2015), 'Behavior of double skin concrete filled steel tube beams under cyclic loading', Integrated Journal of Engineering Research and Technology, pp. 255-260.