

### **Research Publications:**

1. G. Kumar, M. Ehtesham, S. Kumar, B. Meena, **G. J. Rai** and D. T. Masaram, Book Chapter, Nanosponges for Environmetal Remediation, (2023), ISBN: 978-3-031-41076-5, Springer Cham (An International Publisher).
2. S. Ahmed, I. Pundir and **G. J. Rai**, Book Chapter, The Climate Crisis: An Emerging Issue, (2023), ISBN: 978-93-95059-50-3, JPN Publication (A National Publisher).
3. D. Arya, A. Verma and **G. J. Rai\***, Book Chapter, New Horizons in Life Science, (2022), ISBN: 978-93-92953-00-2, Vital Biotech Publication (An International Publisher).
4. **G. J. Rai** and P. Biswas, Topology driven structural transition of dendrimers with a dimensional cross-over, **Polymer (Elsevier)**, 2017, 115,118, ISBN: 0032-3861 (Impact Factor: 4.432).
5. **G. J. Rai**, A. Kumar and P. Biswas, Dynamics of dendrimers with excluded volume: A comparison with experiments and simulations, **Journal of Rheology**, 2016, 60,111, ISBN: 0148-6055 (Impact Factor: 4.534).
6. **G. J. Rai**, A. Kumar and P. Biswas, Effect of excluded volume on the rheology and transport dynamics of randomly hyperbranched polymers, **Journal of Chemical Physics**, 2015, 142,174906, ISBN: 0021-9606 (Impact Factor: 4.304).
7. **G. J. Rai**, A. Kumar and P. Biswas, Intramolecular relaxation of flexible dendrimers with excluded volume, **Journal of Chemical Physics**, 2014, 141,034902, ISBN: 0021-9606 (Impact Factor: 4.304).
8. A. Kumar, **G. J. Rai** and P. Biswas, Conformation and intramolecular relaxation dynamics of semiflexible randomly hyperbranched polymers, **Journal of Chemical Physics**, 2013, 138,104902, ISBN: 0021-9606 (Impact Factor: 4.304).