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### **Publications: (Last 5 years)**

1. Analysis on enhancing the sensing behavior of ionic polymer metal composite based sensors JS Swarrup, R Ganguli, G Madras Journal of Intelligent Material Systems and Structures, 1045389X20952538(2020)
2. Studies to improve the actuation capability of low-frequency IPMC actuators for underwater robotic applications S Swarrup, R Ganguli, G Madras ISSS Journal of Micro and Smart Systems 8 (1), 41-47(2019)
3. Swarrup, J. S., Ganguli, R., Madras, G. Structural modelling of actuation of IPMC under dry environment: effect of water content and activity, Smart Structures and Systems, Techno press, Volume 19(5), 553-565, DOI: 10.12989/sss.2017.19.5.553 (2017)
4. Effect of mass loading on ionic polymer metal composite actuators and sensors S Swarrup, R Ganguli Electroactive Polymer Actuators and Devices (EAPAD) 9430, 94302D(2015)
5. Swarrup, J. S., Ganguli, R., Madras, G. Nanomaterial Based Ionic Polymer Metal Composite Insect Scale Flapping Wing Actuators, Mechanics of Advanced Materials and Structures, 23(11), 1300-1311. (2015).
6. Swarrup, J. S., Ganguli, R., Madras, G. Modeling the Effect of Nanomaterials on the Performance of Ionic Polymer Metal Nanocomposite Actuators. Advanced Science, Engineering and Medicine, 6(7), 741-748. (2014).