

Journal Publications

1. **Joshi, G.K.**, White, S.L, Johnson, M.A., Sardar, R., & Jain, P.K. (2016). Ultrashort, Angstrom-Scale Decay of Surface-Enhanced Raman Scattering at Hot Spot. *The Journal of Physical Chemistry C*, 120(43): 24973-24981.
2. **Joshi, G. K.**, Deitz-McElyea, S. L., Liyanage, T., Lawrence, K., Mali, S., Korc, M., & Sardar, R. (2015) Label-Free Nanoplasmonic-Based Short Noncoding RNA Sensing at Attomolar Concentrations Allows for Quantitative and Highly Specific Assay of MicroRNA-10b in Biological Fluids and Circulating Exosomes. *ACS Nano*, 9(11): 11075-11089.
3. **Joshi, G.K.**, Deitz-McElyea, S.L., Johnson, M., Mali, S., Korc, M., & Sardar, R. (2014). Highly Specific Plasmonic Biosensors for Ultrasensitive microRNA Detection in Plasma from Pancreatic Cancer Patients. *Nano Letters*. 14(12): 6955-6963.
4. **Joshi, G.K.**, Johnson M., & Sardar, R. (2014). Ultrasensitive pH-responsive Nanoplasmonic Sensor Utilizing Polymer Structural Change to Modulate Localized Surface Plasmon Resonance Response. *Royal Society of Chemistry Advances*, 4(15): 15807-15815.
5. **Joshi, G.K.**, Blodgett, K., Muhoberac, B. B., Johnson, M., Smith, K. A., & Sardar, R. (2014). Ultra-Sensitive Photoreversible Molecular Sensors of Azobenzene-Functionalized Plasmonic Nanoantennas. *Nano Letters*, 14(2): 532-540.
6. **Joshi, G.K.**, Smith, K. A., Johnson, M., & Sardar, R. (2013). Temperature-Controlled Reversible Localized Surface Plasmon Resonance Response of Polymer-Functionalized Gold Nanoprisms in the Solid-State. *The Journal of Physical Chemistry C*, 117(49): 26228-26237.
7. **Joshi, G.K.**, McClory, P. J., Muhoberac, B. B., Kumbhar, A., Smith K. A., & Sardar, R. (2012). Designing Efficient Localized Surface Plasmon Resonance-Based Sensing Platforms: Optimization of Sensor Response by Controlling the Edge Length of Gold Nanoprisms. *The Journal of Physical Chemistry C*, 116(39): 20990-21000.
8. **Joshi, G.K.**, McClory, P. J., Dolai, S., & Sardar, R. (2012). Improved localized surface plasmon resonance biosensing sensitivity based on chemically-synthesized gold nanoprisms as plasmonic transducers. *Journal of Materials Chemistry*, 22: 923-931.
9. Newton, J.C., Ramasamy, K., Mandal, M., **Joshi, G.K.**, Kumbhar A., & Sardar, R. (2012). Low-Temperature Synthesis of Magic-Sized CdSe Nanoclusters: Influence of Ligands on Nanocluster Growth and Photophysical Properties. *The Journal of Physical Chemistry C*, 116(7): 4380-4389.
10. Truong, J., Caze, V., Akhiani, R. K., **Joshi, G.K.**, Kakalis, L., Matsunaga, N., & Schnatter, W. F. K. (2010). Halogenated catechols from cycloaddition reactions of η^4 -(2-ethoxyvinylketene) iron(0) complexes with 1-haloalkynes, *Tetrahedron Letters*, 51 (6): 921-923.

Patent

Joshi, G.K., Korc, M., & Sardar, R. "Systems and Methods for Localized Surface Plasmon Resonance Biosensing." Patent awarded on Oct, 19th 2017, Patent No. 20170298426.