

Biosciences and Biomedical Engineering (BSBE), IIT Indore

International collaboration of faculty members in BSBE

1. **Kodgire P**, Mukkavar P, Ratnam S, Martin TE and Storb U. Changes in RNA polymerase II progression influence somatic hypermutation of Ig-related genes by AID, *Journal of Experimental Medicine*, **210**(7):1481-92 (2013).
2. Susanne Schipmann, Dagmar Carmele, Karla Dörmbach, Mark Servos, **Sudeshna Chattopadhyay**, Andrij Pich and Uwe Klemradt. Structural analysis of clay-microgel nanocomposites via SAXS and light scattering, *Soft Matter*, Submitted, 2015.
3. Mark C. Hersam, Albert L. Lipson, **Sudeshna Bandyopadhyay**, Hunter J. Karmel, Michael J. Bedzyk. Method of enhanced lithiation of doped silicon carbide via high-temperature annealing in an inert atmosphere, *U.S. Patent No.:US 8,734, 674 B1*; Date of Patent: May 27, 2014.
4. Ahmet Uysal, Miaoqi Chu, Benjamin Stripe, Amod Timalsina, **Sudeshna Chattopadhyay**, Christian M. Schlepütz, Tobin J. Marks and Pulak Dutta. What X-rays can tell us about the interfacial profile of water near hydrophobic surfaces, *Phys. Rev. B*, **88**: 035431 (2013).
5. **Sudeshna Chattopadhyay**[§], Albert L. Lipson[§], Hunter J. Karmel, Jonathan D. Emery, Timothy T. Fister, Paul A. Fenter, Mark C. Hersam, and Michael J. Bedzyk. In Situ X-ray Study of the Solid Electrolyte Interphase (SEI) Formation on Graphene as a Model Li-ion Battery Anode, *Chemistry of Materials* **24** (15): 3038 (2012). [[§]Equal contribution and co-first authors] {Selected by Advanced Photon Source, Argonne National Lab, USA as **Outstanding Research Work**}
6. Albert L. Lipson[§], **Sudeshna Chattopadhyay**[§], Hunter J. Karmel, Timothy T. Fister, Jonathan D. Emery, Michael M. Thackeray, Paul A. Fenter, Michael J. Bedzyk, and Mark C. Hersam. Enhanced Lithiation of Doped 6H-SiC (0001) via High Temperature Vacuum Growth of Epitaxial Graphene, *J. Phys. Chem. C*, **116** (39): 20949 (2012). [[§]Equal contribution and co- first authors]
7. **Venkatesh, C.**, Kanduluru, A. K., Bandara, N. A., Yu, F., Leamon, C.P., Low, P.S. *Am. Assoc. Pharm Sci.* A new mechanism for release of endosomal contents: osmotic disruption of endosomes via nigericin-mediated potassium-hydrogen ion exchange, (2015) (submitted).
8. Poh, S., **Venkatesh, C.**, Low, P. S. Comparison of nanoparticle penetration into solid tumors and sites of inflammation: studies using targeted and nontargeted liposomes , *Nanomedicine*, 10: 1439, (2015).
9. Roy, J., Nguyen, T. X., Kandaluru, A. K., **Venkatesh, C.**, Lv, W., Reddy, P.V.N., Low, P. S., Cushman, M., Dupa conjugation of a cytotoxic indenoisoquinoline topoisomerase I inhibitor for selective prostate cancer cell targeting *J. Med. Chem.*, 58: 3094, (2015).
10. Tsai, E. H. R., Bentz, B. Z., **Venkatesh, C.**, Gaiind, V., Webb, K. J., Low, P. S., In vivo mouse fluorescence imaging for targeted delivery kinetics, *Optical Imaging* 5: 2662-2678, (2014).
11. Tsai, H.-R., Bentz, B. Z., **Venkatesh, C.**, Gaiind, V., Webb, K. J., Low, P. S., In vivo optical imaging of kinetics in a small animal for folate-targeted drug development, *Opt. Life Sci.*, (2013).
12. Gaiind, V., Tsai, H.-R., Webb, K. J., **Venkatesh, C.**, Low, P. S., Small animal optical diffusion tomography with targeted fluorescence, *J. Opt. Soc. Am. A*. 30: 1146, (2013).
13. Lindsay, K., **Venkatesh, C.**, Charity, W., Mahalingam, S., Scott, P., Sumith, K., Low, P. S, Development of tumor-targeted near infrared probes for fluorescence guided surgery, *Bioconjug. Chem.*, 24: 1075, (2013).
14. Shen, J., **Venkatesh, C.**, Cresswell, G., Low, P. S., Use of folate-conjugated imaging agents to target alternatively activated macrophages in a murine model of asthma, *Mol. Pharm.*, 10, 1918, (2013).