

List of Publications

Journals Articles

(Included in the thesis)

1. 'Conversion of Purpurin 18 to Chlorin p_6 in the presence of liposome, silica and polymeric nanoparticles: A spectroscopic study',
B. Jain, A. Uppal, K. Das, A. Dube and P. K. Gupta.
J. Mol. Struct. **1060**, 24–29 (2014).
2. 'Evaluation of photodynamic efficacy of Chlorin p_6 bound to amine modified silica nanoparticles in Colon and Oral cancer cell lines',
A. Uppal, **B. Jain**, M. K. Swami, H. S. Patel, A. Dube, P. K. Gupta and K. Das,
In press, *BioNanoScience*.
3. 'Photophysical properties of Chlorin p_6 bound to coated gold nanorods'.
B. Jain, A. Uppal, P. K. Gupta and K. Das.
J. Mol. Struct. **1032**, 23–28 (2013).
4. 'Spectroscopic investigations on the binding of Methylene Blue and Nile Blue to negatively charged gold nanorods.'
R. Shrivastava, **B. Jain** and K. Das.
J. Mol. Struct. **1020**, 56–62 (2012).
5. 'Interaction of ANS and TNS with organically modified silica nanoparticles in aqueous media.'
B. Jain, A. Uppal, P. K. Gupta and K. Das.
Adv. Sci. Lett. **3**, 225-230 (2010).
6. 'Light induced toxicity of Merocyanine 540–silica nanoparticle complex.'
K. Das, A. Uppal, **B. Jain**, B. Bose and P. K. Gupta.
J. Nanosci. Nanotech. **9**, 1-4 (2009).
7. 'Spectroscopic investigations on the binding of the photosensitizer Chlorin p_6 with amine modified silica nanoparticles in aqueous media'.
B. Jain, A. Uppal, P. K. Gupta and K. Das.
Photochem. Photobiol. **85**, 927-933 (2009).

(Not included in the thesis)

1. 'Photodynamic action of Rose Bengal silica nanoparticle complex on breast and oral cancer cell lines'.
A. Uppal, **B. Jain**, P. K. Gupta and K. Das.
Photochem. Photobiol. **87**, 1146-51 (2011).
2. 'NIR femtosecond Laser induced hyper-Rayleigh scattering and luminescence from silver nanoprisms.'
B. Jain, A. K. Srivastava, A. Uppal, P. K. Gupta and K. Das.
J. Nanosci. Nanotech. **10**, 5826-5830 (2010).

Conference Presentations / Publications:

1. 'Spectroscopic investigations on the binding of dyes to negatively charged gold nanorods.'
R. Shrivastava, **B. Jain** and K. Das,
Proceedings of DAE-BRNS National Laser Symposium, held at Chennai (2012).
2. 'Evaluation of photodynamic efficacy of Chlorin p_6 bound to amine modified silica nanoparticles in Colon and Oral cancer cell lines.'
A. Uppal, **B. Jain**, A. Dube, K. Das and P. K. Gupta.
Proceedings of DAE-BRNS National Laser Symposium, held at Indore (2010).
3. 'Interaction of organically modified silica nanoparticles with molecules of biomedical relevance.'
B. Jain, A. Uppal, K. Das, B. Bose and P. K. Gupta.
Indo-US Workshop on Science and Technology at the Nano-interface, held at Bhubanesware (2008).
4. 'Light induced toxicity of merocyanine 540-silica nanoparticle complex.'
K. Das, A. Uppal, **B. Jain**, B. Bose and P. K. Gupta.
ICONSAT-2008, held at Chennai (2008).
5. 'Photophysical studies on 8-anilino-1-naphthalene sulfonic acid (ANS) bound to silica nanoparticles'.
B. Jain, A. Uppal, P. K. Gupta and K. Das.
Trombay symposium on Radiation and Photochemistry, held at Pune (2008).