

Refereed Publications

R. Jose, T. J. Patel, T. A. Cather, D. J. Willhelm, J. Grebowicz, H. Han, P. K. Bhowmik, L. Sharpnack, D. M. Agra-Kooijman, and S. Kumar. Thermotropic mesomorphism in cationic surfactants synthesized from quaternary ammonium surfactants and sodium dodecylbenzenesulfonate: Effect of chain length and symmetry. *Colloids and Surfaces A: Physicochem. Eng. Aspects* **2014**, 461, 40-49.

P. K. Bhowmik, A. K. Nedeltchev, H. Han, T. S. Jo, J. J. Koh, L. Senthilkumar and P. Umadevi. Photoactive amorphous molecular materials based on bisquinoline diamines and their synthesis by Friedländer condensation reaction. *J. Photochem. Photobiol. A: Chemistry* **2014**, 283, 45-55.

R. Jose, T. J. Patel, T. A. Cather, J. Grebowicz, H. Han, P. K. Bhowmik, D. M. Agra-Kooijman, and S. Kumar. Room temperature thermotropic liquid crystalline phases of cationic surfactants derived from quaternary ammonium surfactants and bis(2-ethylhexyl)sulfosuccinate. *J. Colloid Interf. Sci.* **2013**, 411, 61-68.

V. Vo, O. Tanthmanatham, H. Han, P. K. Bhowmik, and B. L. Spangelo. Synthesis of [PtCl₂(4,4'-dialkoxy-2,2'-bipyridine)] complexes and their in vitro anticancer properties. *Metallomics* **2013**, 5, 973-987.

T. S. Jo, J. J. Koh, H. Han, and P. K. Bhowmik. Solution, thermal and optical properties of bis(pyridinium salt)s as ionic liquids. *Mater. Chem. Phys.* **2013**, 139, 901-910.

T. S. Jo, H. Han, P. K. Bhowmik, and L. Ma. Dispersion of single-walled carbon nanotubes with poly(pyridinium salt)s containing various rigid aromatic moieties. *Macromol. Chem. Phys.* **2012**, 213, 1378-1384.

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T. S. Jo, A. K. Nedeltchev, B. Biswas, H. Han, and P. K. Bhowmik. Synthesis and characterization of poly(pyridinium salt)s derived from various aromatic diamines. *Polymer* **2012**, 53, 1063-1071.

A. K. Nedeltchev, H. Han, and P. K. Bhowmik. Design and synthesis of photoactive ionic amorphous molecular materials. *J. Mater. Chem.* **2011**, 21, 12717-12724.

T. S. Jo, H. Han, L. Ma, and P. K. Bhowmik. Dispersion of single-walled carbon nanotubes with poly(pyridinium salt)s. *Polymer Chemistry* **2011**, 2, 1953-1955 (Communication).

A. K. Nedeltchev, H. Han, P. K. Bhowmik, and L. Ma. Solution, Thermal and Optical Properties of New Poly(pyridinium salt)s Derived From Conjugated Quinoline Diamines. *J. Polym. Sci. Part A: Polym. Chem.* **2011**, 49, 1907-1918 (Rapid Communications).

Book Chapters or Parts of Books

P. K. Bhowmik, H. Han, and R. A. Basheer. Liquid Crystalline Polymers (Viologen: Thermotropic and Lyotropic). In *Polymeric Materials Encyclopedia*; Salamone, J. C., Ed.; CRC: Boca Raton, **1996**; Vol. 5, 3741-3748.

P. K. Bhowmik and H. Han. Liquid Crystalline Polymers (Wholly Aromatic Polyesters). In *Polymeric Materials Encyclopedia*; Salamone, J. C., Ed.; CRC: Boca Raton, **1996**; Vol. 5, 3748-3753.

Articles in Conference Proceedings

M. M. Alam, U. Sampathkumaran, K. Goswami, and P. K. Bhowmik. Durable and Nonflammable Crew Clothing Utilizing Phosphorous-based Fire-Retardant Materials. ICES-2014-043, 2327-2341, 44th International Conference on Environmental Systems, 13-17 July 2014, Tucson, Arizona.

T. S. Jo, J. K. Wray, O. Tanthmanatham, H. Han, and P. K. Bhowmik. Thermotropic Hexacationic Liquid Crystals Based on Tripodal Viologen Salts. *Polym. Prepr., Am. Chem. Soc. Div. Polym. Chem.* **2011**, 52(2), 387-388.

T. S. Jo, J. Koh, H. Han, and P. K. Bhowmik. Synthesis and Characterization of Water-Soluble Poly(pyridinium salt)s Derived from Aromatic Diamines. *Polym. Prepr., Am. Chem. Soc. Div. Polym. Chem.* **2011**, 52(2), 351-352.

T. S. Jo, W. L. McCurdy, O. Tanthmanatham, T. K. Kim, H. Han, and P. K. Bhowmik. Luminescent Tricationic Liquid Crystals Based on Stilbazolium Moieties. *Polym. Prepr., Am. Chem. Soc. Div. Polym. Chem.* **2011**, 52(2), 278-279.

T. S. Jo, O. Tanthmanatham, J.-W. Lin, H. Han, and P. K. Bhowmik. Luminescent Dicationic Liquid Crystals Based on Stilbazolium Moieties. *Polym. Prepr., Am. Chem. Soc. Div. Polym. Chem.* **2011**, 52(2), 276-277.

T. S. Jo, J. Koh, H. Han, P. K. Bhowmik, and L. Ma. Dispersions of Single-Walled Carbon Nanotubes with Rigid-Rod Poly(pyridinium salt)s. *Polym. Prepr., Am. Chem. Soc. Div. Polym. Chem.* **2011**, 52(2), 250-251.

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