

## Refereed Publications

M. M. Alam, B. Biswas, A. K. Nedeltchev, H. Han, A. D. Ranasinghe, P. K. Bhowmik, K. Goswami. Phosphine Oxide Containing Poly(pyridinium salt)s as Fire Retardant Materials. *polymers* **2019**, *11*, 1141 (25 pages).

T. S. Jo, H. Han, P. K. Bhowmik, B. Heinrich and B. Donnio. Thermotropic Liquid-Crystalline and Light-Emitting Properties of Poly(pyridinium) Salts Containing Various Diamine Connectors and Hydrophilic Macrocounterions. *polymers* **2019**, *11*, 851 (17 pages).

Pradip K. Bhowmik. Viologen Polymers and Their Application as Functional Materials. *Editorial: Evolution in Polymer Technology Journal* **2019**, *2*, 180012 (3 pages).

Pradip K. Bhowmik, Anthony Chang, Jongin Kim, Erenz J. Dizon, Ronald C. Principe, and Haesook Han. Thermotropic liquid-crystalline properties of viologen containing 4-n-alkylbenzenesulfonates (Invited Article in Special Issue in Ionic Liquid Crystals). *crystals* **2019**, *9*, 77 (13 pages).

N. Johns, S. Mariappan Balasekaran, A. Chang, P. K. Bhowmik and F. Poineau. Preparation and Molecular Structure of Lanthanum–FcCOO<sup>-</sup>–DTBbpy Complexes. *Inorganica Chimica Acta* **2019**, *489*, 115-119.

Samundeeswari M. Balasekaran, Jung J. Koh, Haesook Han, Pradip K. Bhowmik, Bruce Noll, and Frederic Poineau. Di(1,2,4,6-tetraphenylpyridinium) Octachlorodirhenate(III). *Crystallography Reports* **2018**, *63*, 570-573.

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Pradip K. Bhowmik, Shane T. Killarney, Jessa R. A. Li, Jung Jae Koh, Haesook Han, Lewis Sharpnack, Deña M. Agra-Kooijman, Michael R. Fisch, and Satyendra Kumar. Thermotropic liquid-crystalline properties of extended viologen bis(triflimide) salts. *Liq. Cryst.* **2018**, *45*, 872-885.

Nam Hoang, Xuan Zhang, Chunxiao Zhang, Van Vo, Feng Leng, Lovely Saxena, Feng Yin, Fei Lu, Guangrong Zheng, Pradip Bhowmik, and Hui Zhang. New Histone Demethylase LSD1 Inhibitor Selectively Targets Teratocarcinoma and Embryonic Carcinoma Cells. *Bioorganic and Medicinal Chemistry* **2018**, *26*, 1523-1537.

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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 catanionic surfactants synthesized from quaternary ammonium surfactants and sodium dodecylbenzenesulfonate: Effect of chain length and symmetry. *Colloids and Surfaces A: Physiochem. Eng. Aspects* **2014**, *461*, 40-49.

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

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Alexi K. Nedeltchev, Haesook Han, Pradip K. Bhowmik, and Longzhou 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).

### **Patents**

1. P. K. Bhowmik, B. L. Spangelo, V. Vo, H. Han and O. Tanthmanatham. Pt(IV) Complexes Containing 4,4'-Disubstituted-2,2'-bipyridyl and Their Use in Cancer Therapy. U.S. Patent 10, 316, 050 B2, 2019.
2. P. K. Bhowmik, K. Goswami M. M. Alam and H. Han. Fire Retardant Materials and Devices Including Same. US Patent 10, 240, 090 B2, 2019.
3. P. K. Bhowmik, K. Goswami M. M. Alam and H. Han. Fire Retardant Materials and Devices Including Same. EP Patent 3, 186, 308 B1, 2018.
4. P. K. Bhowmik, M. M. Alam, K. Goswami and H. Han. Fire Retardant Materials and Devices Including Same. US Patent 9, 334, 373 B2, 2016.
5. B. L. Spangelo, V. Vo, P. K. Bhowmik, O. Tanthmanatham and H. Han. Synthetic Procedure and Cancer Treatment with Cisplatin Derivatives. US Patent 8,703,756 B2, 2014.