Low temperature synthesis of thermally stable BaWO4:Yb³⁺:Ho³⁺ nanophosphors: Tuning visible emission by controlling activator ion concentration

Arnab Kumar Dey, Bibek Samanta, Preetam Bhaumik, Sumanta Manna, Anupam Halder

B. Sc Industrial Chemistry 3rd Year (2015-2018)



Under the Guidance of

Dr. Uttam Kumar Ghorai

Controllable white light generation by modulating sensitizer ion concentration: hydrothermal synthesis of novel Yb³⁺/Ho³⁺/Tm³⁺

co-doped BaWO₄ nanophosphor

Bibek Samanta, Arnab Kumar Dey, Preetam Bhaumik, Sumanta Manna, Anupam Halder B. Sc Industrial Chemistry 3rd Year (2015-2018)



Under the Guidance of

Dr. Uttam Kumar Ghorai

Strong reddish yellow emissions through upconversion of Yb³⁺: Er³⁺doped wire shaped Strontium Aluminate nanophosphor

Sk Anish, Jayanta Ghosh, Ankoor Toppo, Arpan Nandi

B. Sc Industrial Chemistry 3rd Year (2015-2018)



Under the Guidance of

Dr. Uttam Kumar Ghorai

White light generation by novel Yb³⁺/Ho³⁺/Tm³⁺ co-doped SrWO₄ nanophosphor

Akash Ghosh, Sandipan Bhattacharyya, Buddhadeb Mandal, Mriganka Bhattacharyya

B. Sc Industrial Chemistry 3rd Year (2015-2018)



Under the Guidance of

Dr. Uttam Kumar Ghorai

Multicolour tuning and perfect white emission from novel PbWO4:Yb³⁺: Ho³⁺: Tm³⁺ nanophosphor

Jotypriya Sarkar, Soumyadip mondal, Santu Panja, Indranil Dey, Arnab Sarkar

B. Sc Industrial Chemistry 3rd Year (2015-2018)



Under the Guidance of

Dr. Uttam Kumar Ghorai

Tuning visible emission from red to yellow of PbWO₄:Yb³⁺/Ho³⁺ Nanophosphor by modulating activator ion concentration

Soumyadip Mondal, Jotypriya Sarkar, Santu Panja, Indranil Dey, Arnab Sarkar B. Sc Industrial Chemistry 3rd Year (2015-2018)



Under the Guidance of

Dr. Uttam Kumar Ghorai