


Rajendranath kirankumar / Ph.D

Photo	Nationality: Indian
	Language: English, Marathi, Hindi, Tamil
	Autobiography: My graduate research at KMU has been focused on the synthesis of a new class of ionic liquids which can be functionalized using specific groups to enhance the properties of ionic liquids and to characterize those using analytical techniques NMR, LCMS, FTIR to understand their physiochemical properties in order to meet multitasking ability in the field of Electrochemistry. Using electrochemical polymerization techniques these compounds can be polymerized on any electrode surface to show interesting application in the field of electrochromism, solvatochromism and also can be used to detect small bio molecules as sensors.

Doctoral:

Institute: Kaohsiung Medical University

Research field: Electroanalytical chemistry

Thesis supervisor / Co-advisor: Prof. Po Yu Chen

Master:

Institute: Sri Ramachandra Medical University

Research field: Medicinal Chemistry

Thesis supervisor / Co-advisor: Dr. G. Nagendrappa and Mr. G. Govindarajalu

Publication:

Rajendranath Kirankumar, Wei-Chieh Huang, Hui-Fen Chen, Po-Yu Chen*.
"Electropolymerization and characterization of carbazole substituted viologen

conducting polymers: The effects of electrolytes and potential applications of the polymers” *Journal of electroanalytical chemistry*, 2018, 826, 198–206. (Impact factor: 3.2)

Rajendranath Kirankumar, Tetsuya Tsuda, Chih-Yao Chen, Chi-Yu Lu, Susumu Kuwabata and Po-Yu Chen*. “Multifunctional electropolymerizable carbazole-based ionic liquids” *RSC advances*, 2016, 6, 15735-15744. (Impact factor: 2.9)

Yi-Han Chen, Rajendranath Kirankumar, Chai-Lin Kao, Po-Yu Chen*. “Electrodeposited Ag, Au, and AuAg nanoparticles on graphene oxide-modified screen-printed carbon electrodes for the voltammetric determination of free sulfide in alkaline solutions” *Electrochimica Acta*, 2016, 205, 124–131. (Impact factor: 5.1)

Yi-Han Chen, Rajendranath Kirankumar, Adela Ya-Ting Huang, Chi-Yu Lu, Chai-Lin Kao, Po-Yu Chen*. “Electrochemical study of a new non-heme iron complex-modified carbon ionic liquid electrode with electrocatalytic activity towards hydrogen peroxide reduction” *Electrochimica Acta*, 2015, 184, 316-322. (Impact factor: 5.1)