**KIRAN**

[**Kiran.359525@2freemail.com**](mailto:Kiran.359525@2freemail.com)

Motivated and passionate teacher with an expertise in analytical, interpersonal and communication skills. Master in teaching (both online and offline) junior college and university level courses in the field of chemistry especially in curricula like IB, AP, AS and A levels, Subject SAT, CBSE, IGCSE, IIT-JEE, etc. Aims to deliver excellence by developing new or modified teaching methods.

**TEACHING EXPERIENCE**

**CAREER OBJECTIVE**

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* **Quest for Success (Coaching Institute), Bangalore, India Aug 2016- till date**

Expert in teaching IB, AP , As and A levels, Subject SAT, IGCSE, etc in both classroom and online (E-learning) modes

**EDUCATION**

* **Doctor of Philosophy (Chemistry) Jan 2012- July 2016**

National University of Singapore, Department of Chemistry

**Thesis:** Structural and chemical modifications of two-dimensional (2D) transition metal dichalcogenides.

**Supervisor: Dr Goki Eda,** Department of Chemistry/ Physics, National University of Singapore.

* **Master of Science (Chemistry) 2009-2011**

Sri Sathya Sai Institute of Higher Learning, **4.96/5.00 (CGPA)**

* **Bachelor of Science (Hons) (Chemistry) 2006-2009**

Sri Sathya Sai Institute of Higher Learning, **4.7/5.00 (CGPA)**

* **Standard 12 2004-2006**

Vignana Bharathi Junior College, **97.5%**

* **Matriculation 2004**

Z P High school Boys, **89.6%**

**AWARDS & SCHOLARSHIPS**

* BEST POSTER AWARD at 2D materials beyond Graphene workshop at NUS-2013
* Selected for NUS Research Scholarship-2012
* CSIR (JRF)-2011-53rd ALL INDIA RANK
* GATE 2011-386 th ALL INDIA RANK
* Selected For NATIONAL MERIT SCHOLARSHIP-2007
* PRATHIBHA (EXCELLENCE) AWARD-2006.

**SUMMER SCHOOLS ATTENDED**

* Attended the summer school on Chemistry and Physics of Novel Materials for Opto-Electronics in Humboldt-Universität zu Berlin, Germany. Campus Adlershof, July 8th-19th, 2014.

**KEY PUBLICATIONS**

1. **Kiran Kumar Amara**, Yifeng Chen, Yung-Chang Lin, Rajeev Kumar, Eiji Okunishi, Su Ying Quek, Kazu Suenaga and Goki Eda. Dynamic structural evolution of metal-metal bonding network in monolayer WS2**. *Chemistry of Materials* (2016),** 28 (7),2308-2314.
2. **Kiran Kumar Amara**, L.Chu , R.Kumar, M.Toh and G.Eda. Wet chemical thinning of molybdenum disulfide down to its monolayer. ***APL Materials* (2014)**, 2 (9).

**Publications with minor contribution**

1. Daichi Kozawa, R. S. Kumar, A. Carvalho, **Kiran Kumar Amara**, W. Zhao, S. Wang, M. Toh, R. M. Ribeiro, A. H. Castro Neto, K. Matsuda, G. Eda. Photocarrier relaxation pathway in two-dimensional semiconducting transition metal dichalcogenides. ***Nature Communications* (2014).** 5, 4543.
2. Jing Wu, Henrik Schmidt, **Kiran Kumar Amara**, Xiangfan Xu, Goki Eda, Barbaros Ozyilmaz. Large Thermoelectricity via variable range hopping in chemical vapor deposition grown single layer MoS2. ***Nano Letters* (2014),** 14(5), 2730-2734.
3. Zhao Weijie, Ghorannevis Zohreh, **Kiran Kumar Amara**, Pang Jing Ren, Minglin Toh, Zhang Xin, Kloc Christian, Tan Ping Heng, Eda Goki. Lattice dynamics in mono- and few layer sheets of WS2 and WSe2. ***Nanoscale* (2013),** 5(20), 9677-9683.
4. Bablu Mukherjee, Frank Tseng, Daniel Gunlycke, **Kiran Kumar Amara**, Goki Eda and Ergun Simsek. Complex electrical permittivity of the monolayer molybdenum disulfide (MoS2) in near UV and visible. ***Optical Materials Express* (2015),** 5(2), 447-455.

**ADDITIONAL SKILLS**

* Experience in taking classes both online (E-learning) and offline for higher level students
* Exposed to various techniques like Chemical Vapour Deposition (CVD), Intercalation, Exfoliation and etching of 2D materials.
* Handling of instruments like Raman Spectrophotometer, Scanning Electron Microscope (SEM), UV-VIS spectrophotometer, FTIR and Fluorescence Spectrophotometer.
* HAADF-STEM image analysis of 2D materials like MoS2, WS2, etc.
* **Laboratory Management-** Safety lead (co-ordinator) in the lab managing the safety issues and its compliance, documentation for almost four years.
* **IT Skills-** Proficient in Microsoft Office (Powerpoint, Word and Excel).
* **Languages Known:** English, Telugu, Hindi

**EXTRACURRICULAR ACTIVITIES**

* **Sports:** Playing Cricket, Badminton, Table Tennis (Won doubles championship)
* **Hobbies:** Listening to melodious music, Reading books
* Participated in Annual Sports and Cultural Meet of Sri Sathya Sai Institute of Higher Learning.