

Name : Dr. K. Karthik Kumar
Designation : Assistant Professor
Department : Chemistry
Date of Joining : 25th November 2013
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Educational Qualification:

Degree	Subject	College / University & Place	Year Completed
B. Sc	Chemistry	Madura College, Madurai	2001
M. Sc	Chemistry	The American College, Madurai	2004
Ph.D	Organic Chemistry	University of Madras, Guindy campus, Chennai	2012

Specialisation in Teaching:

- Organic Chemistry
- Physical Chemistry

Specialisation in Research:

- Organic Chemistry:
- Studies on Heterocyclic based Glyco-conjugates: Biological and Material applications

Research Interests:

- Synthetic Organic Chemistry
- Material Chemistry
- Nano Chemistry

Any Other Work Experience:

Designation	Institution / Company	Year - From (month/year) To (month/year)
Trainee Scientist, L1	Jubilant Biosys, Bangalore	Feb 2005- Feb 2006
Post Doc	Indian Institute of Technology Madras	Feb 2012 – Oct 2013

Publications:

S. No	Title	Name of the journal	Volume	Page	Year
1.	Novel saccharide-pyridine based gelators: selective gelation and diversity in superstructures	New Journal of Chemistry	33	1570-1577	2009
2.	Expedient synthesis of coumarin coupled triazoles via click chemistry leading to the formation of coumarin-triazole-sugar hybrids	Carbohydrate Research	345	2297-2304	2010
3.	Synthesis of quinoline-based glycoconjugates: a facile one-pot three component reaction	Carbohydrate Research	346	728-732	2011
4.	Influence of steric and electronic effects in designing N-glycosylation reactions	Trends in Carbohydrate Research	3	21-26	2011
5.	Synthesis of quinoline coupled [1,2,3]-triazoles as a promising class of anti-tuberculosis agents	Carbohydrate Research	346	2084-2090	2011
6.	Spectroscopic investigation of hydrogen bonding interaction in di- <i>O</i> -isopropylidene derivatives of monosaccharides	Trends in Carbohydrate Research	3	57-63	2011
7.	A novel and facile methodology for synthesis of Coumarin coupled Benzimidazole-2-thione compounds	Phosphorous, Sulfur and Silicon and the related Elements	Accepted for publication DOI: 10.1080/10426507.2014.952000		

Books:**Articles Published in International Journals: 7****Conference / Seminar Presentations:**

- “10th CRSI National Symposium in Chemistry”, on 1-3 February, 2008, Indian Institute of Chemistry (IISc), Bangalore, India
- “International Indo-US Conference on Self Assembled Fibrillar Gels”, on 5-8th January, 2011, Mascot Hotel, Trivandrum, India.
- “National Seminar on Nanostructured Materials and Applications (NSNMA-2011)”, titled “Novel saccharide-pyridine based gelators: selective gelation and diversity in superstructures” on 4-5th March, 2011, School of Chemistry, Madurai Kamaraj University, Madurai, India (Obtained best oral presentation award)
- “Recent trends in Materials Chemistry” on March 7 & 8th 2014, Barathidasan Institute of Technology, Anna University, Thiruchirappalli.

Awards / Fellowships:

- Qualified GATE 2004
- Junior Research Fellowship (JRF) – Council of Scientific and industrial Research (CSIR) India 2006-2009
- University Grant Commission (UGC) India – Meritorious Fellowship 2010-2011
- Senior Research Fellowship (SRF) – Council of Scientific and industrial Research (CSIR) India 2011-2012
- Selected as visiting research scholar at Aalto University, Finland from 15th May-July 2013.

Other activities / information / academic credentials you would like to mention:

- Selected as visiting research scholar at Aalto University, Finland from 15th May-July 2013.
- “**Synthesis of quinoline coupled [1,2,3]-triazoles as a promising class of anti-tuberculosis agents**” K. Karthik Kumar, S. Prabu Seenivasan, Vanaja Kumar, T. Mohan Das, *Carbohydr. Res.*, **2011**, 346, 2084-2090. (*Ranking 14 & 8 among the hottest 25 articles, for the period Jul to Sep 2011 Oct to Dec 2011 respectively*)