

Faculty Profile of Dr. K. Sundaravel



Dr. K. Sundaravel
Assistant Professor
Department of Chemistry

Email: sundaravel.k@buc.edu.in

Phone No: 0422-2428318

Mobile No: 82207-17342

Research Area

- Biomimetic and Bioinspired catalysis
- Small molecules activation by biomimetic heme and non-heme model complexes, metal complex interaction with biomolecules
- Metallo-drugs

Education & Career

Education

Ph. D.

Subject : Chemistry

Institution : Bharathidasan University

Affiliated University : Bharathidasan University

Year of Award : 2010

M. Sc.,

Subject: Chemistry

Institution : Ayya NAdar Janaki Ammal College

Affiliated University : Madurai Kamaraj University

Year of Award : 2004

B. Sc.,

Subject: Chemistry

Institution: Ayya NAdar Janaki Ammal College

Affiliated University: Madurai Kamaraj University

Year of Award: 2002

Career**At Bharathiar University (Reverse Order)**

Assistant Professor : April 2016 to till date

Past Experience

Post-doctoral Research Fellow : 2010 to 2012 at EWha Woman's University

DST-INSPIRE Faculty: 2012 to 2016 at CSIR-Central Research Institute

Awards

- **CSIR-UGC (NET) - Junior Research Fellow**, Council of Scientific and Industrial Research, New Delhi, CSIR Research Fellowships and Associateships to bright young men and women for training in methods of research under the expert guidance of faculty members, **December 2003.**
- **DST-INSPIRE Faculty Award**, DST & INSA, New Delhi, INSPIRE Faculty Fellowship Scheme offers contractual research fellowships to young achievers and an opportunity for independent research. **November 2012.**
- **SERB** – Early career Research Award, Science and Engineering Research Board, New Delhi, Research support to the young researchers

who are in their early career for pursuing exciting and innovative research in frontier areas of science and engineering. **August 2018.**

Membership

Visits

Collaborators

Others

Projects

Funded Projects (National Level)

- [Ongoing](#)
- [Completed](#)

Ongoing Projects List with necessary Information

Completed Projects List with necessary Information

Consultancy Projects

- [Ongoing](#)
- [Completed](#)

Ongoing Consultancy Project Informations

Completed Consultancy Project Informations

Research Guidance

- [Post Doc.](#)
- [Ph.D.](#)
- [M.Phil.](#)
- [M.Sc.](#)

Ongoing

Title

Name

Completed

Title

Name

Ongoing

Sample Data.

Completed

Sample Data.

Ongoing

Sample Data.

Completed

Sample Data.

Ongoing

Sample Data.

Completed

Sample Data.

Research Publication

- [International](#)
- [National](#)
- [Patents](#)
- [Conferences](#)
- [Books / Chapters](#)
- [Database](#)

1.Synthesis, Structure, Spectra and Reactivity of Iron(III) Complexes of Facially Coordinating and Sterically Hindering 3N Ligands as Models for Catechol Dioxygenases. KaruppasamySundaravel,ThirumanasekaranDhanalakshmi, Eringathodi Suresh and MallayanPalaniandavar. Dalton Transaction, 2008, 7012-7025.(IF: 4.197)

2. Synthesis, Structures, Spectral and Electrochemical Properties of Copper(II) Complexes of Sterically Hindered Schiff Base Ligands. KaruppasamySundaravel, Eringathodi Suresh, MallayanPalaniandavar. InorganicaChimicaActa, 2009, 362, 199-207. (IF: 1.853)

3. Iron(III) Complexes of Tridentate N3 Ligands as Models for Catechol Dioxygenases: Stereoelectronic Effects of Pyrazole Coordination. KaruppasamySundaravel,Eringathodi Suresh, MallayanPalaniandavar. InorganicaChimicaActa2010, 363, 2768-2777 (Special issue) (IF: 1.853)

4. Ligand Topology Effect on the Reactivity of a Mononuclear Nonheme Iron(IV)-Oxo Complex in Oxygenation Reactions. Seungwoo Hong, Yong-Min Lee, Kyung-Bin Cho, KaruppasamySundaravel, Jaeheung Cho, MyoungJin Kim, Woonsup Shin, and Wonwoo Nam. Journal of American Chemical Society 2011, 133, 11876-11879. (IF: 12.113)

5. Iron(III) Complexes of N2O and N3O Donor Ligands as Functional Models for Catechol Dioxygenase Enzymes: Ether Oxygen Coordination Tunes the Regioselectivity and Reactivity.

KaruppasamySundaravel, Eringathodi Suresh, KolandaivelSaminathan, MallayanPalaniandavar.

Dalton Transaction2011, 40, 8092 - 8107. (IF: 4.197)

6. Biomimetic Iron(III) Complexes of N3O and N3O2 Donor Ligands: Protonation of Coordinated Ethanolate Donor Enhances Dioxygenase Activity.

KaruppasamySundaravel, MuniyandiSankaralingam, Eringathodi Suresh, MallayanPalaniandavar.

Dalton Transaction2011, 40, 8444 - 8458. (IF: 4.197)

7. Pyrene Schiff base: Photophysics, Aggregation Induced Emission and Antimicrobial Properties.

ArunkumarKathiravan, KaruppasamySundaravel, MadhavanJaccob, GanesanDhinakaran, AngappanRameshkumar, Devanesan Arul Ananth, and ThilagarSivasudha.

Journal of Physical Chemistry: B, 2014, 118 (47), 13573 - 13581. (IF: 3.302)

8. Unravelling the effect of anchoring groups on the ground and excited state properties of pyrene using computational and spectroscopic methods

ArunkumarKathiravan, MurugesanPanneerselvam, Karuppasamy Sundaravel, Nagaraj Pavithra, Venkatesan Srinivasan, SambandamAnandan and MadhavanJaccob.

Physical Chemistry Chemical Physics, 2016, 18, 13332 - 13345. (IF: 4.493)

9. A combined experimental and computational characterization of D- π -A dyes containing heterocyclic electron donors. Venkatesan Srinivasan, Murugesan

Panneerselvam, Nagaraj Pavithra, SambandamAnandan, Karuppasamy Sundaravel, MadhavanJaccob, ArunkumarKathiravan.

Journal of Photochemistry and Photobiology A: Chemistry, 2017, 332, 453 - 464.

(IF: 2.495)

National Publications - Reverse Chronological Order

Patent Info

Conference Info

Books & Chapters Related Info

Database Related Info

Alumini Reflections: