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Research Interests:

- ❖ Catalysis by transition metal complexes
- ❖ Nanomaterials towards Catalysis
- ❖ Metal complexes of biological relevance/medicinal importance

Research, Teaching Experience:

Nov. 2019: Assistant Professor, Department of Chemistry,
Central University of Karnataka, Kalaburagi, Karnataka, India.

Aug. 2017: Assistant Professor (Contractual), Department of Chemistry,
Central University of Karnataka (CUK).

2014-2017: Post doctoral researcher, National Institute for Materials Science, (NIMS),
Tsukuba, Japan.

2013-2014: Research Associate (RA), Dept. of Chemistry, IIT Delhi.

2012-2013: Senior Research Fellow (SRF), Dept. of Chemistry, IIT Delhi.

Educational Qualifications:

2006-2012: Ph.D Thesis, School of Chemistry, University of Hyderabad.

2002- 2004: M.Sc. (Chem.) With 72% from Karnataka University Dharwad, Karnataka.

1999-2002: B.Sc. (B.Z.C) With 82% from Andhra Loyola College, Vijayawada, A.P.

Contributions made at CUK:

- ❖ Designed Experiments, prepared laboratory manual for course titled **CYL 405: Inorganic Chemistry Laboratory** of School of Chemical Sciences.
 - ❖ Guiding students for their dissertation / research projects since 2018 onwards
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Significant Research Publications:

1. Integrated tuneable synthesis of liquid fuels via Fischer–Tropsch technology
Jie Li, Yingluo He, Li Tan, Peipei Zhang, Xiaobo Peng, **Anjaneyulu Oruganti**, Guohui Yang, Hideki Abe, Ye Wang and Noritatsu Tsubaki
Nature Catalysis, 2018, 1, 787–793
2. Light-Promoted Conversion of Greenhouse Gas over Plasmonic Metal-Carbide Nanocomposite Catalysts,
Oruganti Anjaneyulu*, Kazu Takeda, Satoshi Ishii, Shigenori Ueda, Tadaaki Nagao, Peng Xiaobo, Takeshi Fujita, Masahiro Miyauchi and Hideki Abe
Mater. Chem. Front., 2018, 2, 580-584
3. Mesoporous Bimetallic RhCu Alloy Nanospheres Using a Sophisticated Soft-Templating Strategy, Bo Jiang, Kenya Kani, Muhammad Iqbal, Hideki Abe, Tatsuo Kimura, Md. Shahriar A. Hossain, **Anjaneyulu Oruganti**, Joel Henzie and Yusuke Yamauchi
Chem. Mater., 2018, 30 (2), 428–435 (IF = 9.46)
4. Coordinatively polymeric and monomeric bismuth (III) complexes with pyridine carboxylic acids, **O. Anjaneyulu**, T. K. Prasad and K. C. Kumara Swamy
Dalton Trans., 2010, 39, 1935–1940. (IF = 4.02)
5. Structural motifs in phenylbismuth heterocyclic carboxylates – secondary interactions leading to oligomers, **O. Anjaneyulu**, D. Maddileti and K. C. Kumara Swamy
Dalton Trans., 2012, 41, 1004-1012. (IF = 4.02)
6. Nanostructured polymeric yolk–shell capsules: a versatile tool for hierarchical nano catalyst design, N. M. Sanchez-Ballester, G. Rydzek, A. Pakdel, **Anjaneyulu Oruganti**, K. Hasegawa, M. Mitome, D. Golberg, J. P. Hill, H. Abe and Katsuhiko Ariga
J. Mater. Chem. A, 2016, 4, 9850-9857 (IF = 9.93)
7. Plasmon-mediated Photothermal Conversion by TiN Nanocubes toward CO Oxidation under Solar Light Illumination
Oruganti Anjaneyulu, Satoshi Ishii, Tsubasa Imai, Toyokazu Tanabe, Shigenori Ueda, Tadaaki Nagao and Hideki Abe
RSC Adv., 2016, 6, 110566-110570 (IF = 3.10)

8. Metal Carbide as a Light-harvesting and Anti-coking Catalysis Support for Dry Reforming of Methane, Kazu Takeda, Akira Yamaguchi, Yohei Cho, **Oruganti Anjaneyulu**, Takeshi Fujita, Hideki Abe and Masahiro Miyauchi,
Global Challenges, 2020, 4(1), 1900067
 9. Oxide-based nanostructures for photocatalytic and electrocatalytic applications
Aparna Ganguly, **Oruganti Anjaneyulu**, Kasinath Ojha and Ashok K Ganguli
Cryst. Eng. Comm., 2015, 17, 8978-9001. (IF = 3.47)
 10. Synthesis of Cr and La-codoped SrTiO₃ nanoparticles for enhanced photocatalytic performance under sunlight irradiation.
Surenadar Tonda, Santosh Kumar, **Oruganti Anjaneyulu** and Vishnu Shanker
Phys. Chem. Chem. Phys., 2014, 16, 23819-23828. (IF = 4.12)
 11. Tris(4-oxy-pyridinium)nitrate lanthanide complexes
[M(4-O-C₆H₄NH)₃(NO₃)₂(H₂O)₂][NO₃] {M = La, Ce, Pr, Nd, Eu, Gd} – Synthesis, properties and structural characterization, **O. Anjaneyulu**, T. K. Prasad and K. C. Kumara Swamy
Inorg. Chim. Acta, 2010, 363, 2990–2995. (IF = 2.04)
 12. Studies on bismuth carboxylates- Synthesis and characterization of a new structural form of bismuth (III) dipicolinate, **O. Anjaneyulu** and K.C. Kumara Swamy
J. Chem. Sci., 2011, 123, 131-137 (IF = 1.29)
 13. Effect of reduced graphene oxide-TiO₂ nanotube composites and surface plasmon resonances of Ag@TiO₂ nanocubes on dye sensitized solar cell performance
P. S. Chandrasekhar, Nikhil Chander, **Oruganti Anjaneyulu** and Vamsi K. Komarala
Thin Solid Films 2015, 594, 45-55. (IF = 1.86)
 14. Graphene based hybrid materials: Synthetic approaches and properties
Kasinath Ojha, **Oruganti Anjaneyulu** and Ashok K Ganguli
Curr. Sci., 2014, 107, 397-418. (IF = 0.84)
 15. Designing of Nanoarchitectures for Photo and Electrocatalytic Applications
Aparna Ganguly, **Oruganti Anjaneyulu**, Debashree Das and Ashok K. Ganguli
SMC Bulletin 2013, 4(3), 1-10
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Posters presented in symposia:

1. Participated and presented poster on Secondary interactions in Phenyl Bismuth heterocyclic Carboxylates, **O. Anjaneyulu**, D. Maddileti and K. C. Kumara Swamy at “**MTIC- XIV Symposium**”, December, 2011, University Of Hyderabad, Hyderabad.
2. Participated and presented poster, oral presentation on Synthesis and Characterization of Bismuth/ Lanthanide Pyridine Carboxylates- Investigations on Gadolinium Dipicolinate as Anticancer Agent, **O. Anjaneyulu**, D. Maddileti and K. C. Kumara Swamy “**CHEMFEST 2011**”, School of Chemistry, University of Hyderabad, Hyderabad.
3. Participated and presented poster on Preparation, characterization and emission studies of $\text{Ln}_{2/3}\text{ZnP}_2\text{O}_7$ (Ln = Pr, Sm, Nd, Dy, Eu), **O. Anjaneyulu**, B. Vijaya Kumar, M. Vithal and K.C. Kumara Swamy “**MTIC-X11 Symposium**”, at IIT Madras, December, 2007, IIT-Madras, Chennai.
4. Participated and presented poster on synthesis, structural investigation of nanosize bismuth vanadate for photocatalytic applications, **Oruganti Anjaneyulu**, and Ashok. K. Ganguli , **ICIACS 2013** at Punjab University Chandigarh, Punjab.
5. Participated and presented poster on Exploration of nanobismuth materials towards Photocatalysis, **Oruganti Anjaneyulu** and Ashok. K. Ganguli **ICONSAT 2014** at Institute of Nanoscience and Technology (INST), Mohali..

Awards & Honors :

- Awarded Junior Research Fellowship (CSIR-JRF, 2006-2008) and Senior Research fellowship (CSIR-SRF, 2008-2011)
- Best poster award in ICIACS conference 2013.



Oruganti Anjaneyulu