



## Kandalam V. Ramanujachary

Professor  
Chemistry & Biochemistry

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### Education:

MS (Chemistry), Andhra University, India  
PhD (Chemistry), Indian Institute of Technology, Madras, India  
Postdoctoral (Materials Science), Rutgers University

### Research Expertise:

Inorganic Chemistry | Materials Chemistry | Medicinal Chemistry

Efficient means of producing Hydrogen gas  
Bio-mass conversion to value added chemicals  
Design, synthesis, and development of nano-pharmaceuticals and nano-sized nutritional supplements  
Development of small molecule chemotherapeutics  
Synthesis, structure and electronic properties of various binary and ternary oxides, sulfides, selenides, fluorides, nitrides, phosphides featuring transition metal ions  
Development of novel catalytic materials

### Honors and Awards:

Rowan University Research Award 2009

### Member of:

American Chemical Society  
Materials Research Society of Singapore  
Luminescence Society of India

### Recent Publications:

Shu Z, Axe Li, Jahan K, Ramanujachary KV, Kochersberger C (2015) Metal concentrations and distribution in paint waste generated during bridge rehabilitation. *Sci Total Environ.* 526:262-270.

Shu Z, Axe L, Jahan K, Ramanujachary K (2015) Field methods for rapidly characterizing paint waste during bridge rehabilitation. *Chemosphere.* 134:598-605.

Jyothirmayee A, Ramanujachary K, Mugweru A, Vaden T (2015) Molybdenum phosphide-graphite nanomaterials for efficient electrocatalytic hydrogen production. *Appl Catal A Gen.* 490:101-107.