

## Dr. PRAMOD KUMAR GANGWAR

Assistant Professor



**Contact Details:** +91-9711065966

**Academic Qualification:** M.Sc, Ph.D

**Positions Held:** Assistant Professor

**Specialisation:** Physical Chemistry

**Research Interest:** My Specialized in the use of inorganic-based and gold nanoparticles for applications in targeted drug delivery, non-viral gene delivery, photodynamic therapy (PDT), and multimodal diagnostic imaging. Current research interests are hybrid nanoparticles, Hydrogel nanoparticles and Quantum dots for triggered drug, bioimaging/biosensors and gene delivery for the treatment of cancer, respiratory and neurological diseases.

**Publications:** Optically and magnetically doped ormosil nanoparticles for bioimaging: synthesis, characterization, and in vitro studies. **Pramod Kumar**, Anuradha, Indrajit Roy\*. **RSC Advances** **14th February, 2014, 4, 16181-16187, ISSN = 2046-2069.**

Ormosil nanoparticles as a sustained-release drug delivery vehicle. Indrajit Roy\*, **Pramod Kumar**, Rajiv Kumar, Tymish Y. Ohulchanskyy, Ken-Ty Yong, and Paras N Prasad. **RSC Advances** 2014, **4**, 53498-53504. **ISSN = 2046-2069**

Preparation and Characterization of Gold Nanospheres and Nanorods, with Potential Application in Catalysis. **Pramod Kumar\* and Indrajit Roy, (Advanced Science, Engineering and Medicine), 2016, ISSN = 2164-6627.**

Synthesis of Dox drug conjugation and citric acid stabilized superparamagnetic iron oxide nanoparticles for drug delivery. **Pramod Kumar\***, Shrish Agnihotri and Indrajit Roy, Biochemistry & Physiology: Open Access,. **2016, ISSN = 2168-9652.**

Preparation and Characterization of Photosensitizer conjugated Superparamagnetic Iron-Oxide Nanoparticles for their potential application in light-activated therapy. **Pramod Kumar\***, **Shrish Agnihotri and Indrajit Roy (J Nanomed Nanotechnol)**, ISSN = **2157-7439..**

Preparation and Characterization of Superparamagnetic Iron-Oxide Nanoparticles for Magnetically Guided Drug Delivery. **Pramod Kumar**, Shrish Agnihotri and Indrajit Roy\*, *International journal of Nanomedicine*, **2018, ISSN = 1178-2013.**

Synthesis of Visible light responsive Nickel Pthalocyanine encapsulated Ormosil nanoparticles for efficient Photodynamic and Photothermal therapy. Shrish Agnihotri, kumar Kartikey Yadav, Indrajit Roy and **Pramod Kumar\*** (**Advanced Science, Engineering and Medicine**) **2017, ISSN = 2164-6627.**

### **BOOK CHAPTERS :**

Nanomedicine: New Frontiers in diagnosis and therapy of diseases. Ridhima Juneja, Anuradha, **Pramod Kumar**, Indrajit Roy\*. **Translational Research in New Drug Development Book, 19 Chapters**, 2012, 341-366. ) {Impact Factor = 0.0} ISBN = **978-81-920546-1-7.**

### **REVIEW ARTICLES :**

**Review Title :** Applications of gold nanoparticles in clinical medicine. **Pramod Kumar\*** and Indrajit Roy, *International Journal of Pharmacy and Pharmaceutical Sciences*. **2016, ISSN = 0975-1491.**

### **CONFERENCE PAPER :**

Ormosil-Iron oxide nanocomposites for magnetically targeted drug delivery. Indo-Portuguese Workshop on Emerging Trends of Nanotechnology in Chemistry and Biology (INCB-2016), **Tarun Mohan, Pramod Kumar, Indrajit Roy\***. (J. Mat. NanoSci. 2016, 3(1), S 1-S 23 ) ISSN = 2394-0867.

Research Projects Completed/Ongoing: **N/A**

M.Phil. Supervised: **N/A**

Ph.D. Supervised: **N/A**

Ph.D. Supervising: Respected Sir, **N/A**

Kindly find the attachment and reply as soon as possible.

Participation in Seminars/Conferences:

- ❖ **Certificate of Participated, National Workshop on “Emerging Green Technology and Technical Terminology”** 13-14 February 2019, Department of Chemistry, Ramjas College, University of Delhi. [Organized By : Department of Chemistry, Ramjas College, University of Delhi]
- ❖ **Certificate of Participation Faculty Development Programme 2017** on “From Chemistry of Life to Chemistry of Diseases: Understanding Clinical Biochemistry” 15-22 June 2017, [Organized By : Department of Chemistry, Daulat Ram College, University of Delhi]
- ❖ **Participated in International Conference on Materials Science and Technology**, 01 - 04 March 2016,

Conference Center, University of Delhi. [Organized By : Department of Chemistry, University of Delhi ]

- ❖ **Participated in National Seminar on** “Role of Analytical Sciences in Sustainable Development, 04-05 March 2016, Hansraj College, University of Delhi. [Organized By : Hansraj college, Indian Society of Analytical Scientists Delhi Chapter and Petrotech Society of India ]
- ❖ **Participated as a Resource Person, National Workshop on** “Chemistry in Everyday Life, 29 Jan 2016, Department of Chemistry, Ramjas College, University of Delhi. [Organized By : Chemistry Society, Ramjas College, University of Delhi]
- ❖ **Participated in National Symposium on** “National Symposium on Nanobiotechnology, 31 March- 1 April 2016, Department of Biotechnology, Teri University, New Delhi. [Organized By : Teri University Biotechnology Society at Teri University, New Delhi ]
- ❖ **Participated as an Adviser, National Seminar on** “Emerging Trends in Sciences, 18 October 2015, Department of Chemistry, Ramjas College, University of Delhi. [Organized By : Ramjas College, University of Delhi]
- ❖ **Participated as a Resource Person, National Workshop on** “Workshop on Recent Advances in Chemistry, 12 March 2015, Department of Chemistry, Ramjas College, University of Delhi. [Organized By : Chemistry Society, Ramjas College, University of Delhi]

- ❖ **Participated in International Indo-German Workshop** on “Supramolecular Chemistry, 30 March 2015, Department of Chemistry, University of Delhi. [Organized By : Department of Chemistry, University of Delhi]
- ❖ **Presented poster National Conference on** “New Frontiers in Chemistry-From Fundamentals to Applications’ (NFCFA-2015), 18-19 December, 2015, Department of Chemistry BITS Pilani K.K. Birla, Goa Campus, India [Organized By : Department of Chemistry BITS Pilani K.K. Birla, Goa Campus]
- ❖ **Presented poster in International Conference on** “Nanoscience and Technology’ (ICONSAT- 2014), 2-5 March, 2014, Institute of Nanoscience and Technology” Mohali, India. [Organized By: Institute of Nanoscience and Technology]
- ❖ **Presented poster in International Conference on** “International Conference On Translational Nanomedicine’ (T-NANO- 2014), 15-17 December, 2014, Institute of Life Sciences, Ahmadabad University, Ahmadabad, India. [Organized By: Institute of Life Sciences, Ahmadabad University]
- ❖ **Participated in National Symposium on,** “CME Programme of Evaluation of Drug Safety” 05 April 2013, Vallabhbai Patel Chest Institute, University of Delhi, India. [Organized By: Vallabhbai Patel Chest Institute, University of Delhi]
- ❖ **Participated in National Symposium on,** 3th national

Agrochemical Conference 2013, July 30-31, 2013, at Federation House, New Delhi, India. [Organized By: Department of Agriculture and Cooperation Government of India, Department of Chemicals and Petrochemicals Government of India and Department of Fertilizer Government of India]

- ❖ **Presented poster in National Symposium on “DAE-BRNS 4th Interdisciplinary Symposium on Material Chemistry”** December, 2012, Chemistry Division, Bhabha Atomic Research Center, Mumbai and Society for Materials Chemistry, Mumbai, India. [Organized By : Chemistry Division, Bhabha Atomic Research Center, Mumbai and Society for Materials Chemistry, Mumbai]
  
- ❖ **Presented poster in National Symposium on “DAE-BRNS 4th Interdisciplinary Symposium on Material Chemistry”** December, 2012, Chemistry Division, Bhabha Atomic Research Center, Mumbai and Society for Materials Chemistry, Mumbai, India.
  
- ❖ **Presented poster in National Symposium on “Translational Research in New Drug Development”** January 2011, Vallabhbhai Patel Chest Institute, University of Delhi, India.
  
- ❖ **Participated in National Symposium on “Translational Research in New Drug, Development”,** 12-13 January 2011, Vallabhbhai Patel Chest Institute,

University of Delhi, India. [Organized By: Vallabhbai Patel Chest Institute, University of Delhi ]

- ❖ **Participated in International Symposium on**, 2th Indo-Italian Workshop on “ELECTROCHEMISTRY FOR FUTURE ENERGY SOLUTION” 30th -dec.3th Nov 2011, Department of Chemistry, University of Delhi, India. [Organized By: Department of Chemistry, University of Delhi]
- ❖ **Participated in National Workshop on** “Renewable Energy and Environment”, 28-29 January 2011, Department of Chemistry, Ramjas College, University of Delhi. [Organized By: Ramjas College, University of Delhi]
- ❖ **Celebration of the International year of Chemistry**, Research Scholar as member of the organizing, on 31 March 2011, department of chemistry, University of Delhi [Organized By: Department of Chemistry, University of Delhi]
- ❖ **Participated in International Workshop on**, 7th Indo-Italian Workshop on “Chemistry and Biology of Antioxidants” on 16th November 2010, at Department of Chemistry, University of Delhi, India [Organized By: Department of Chemistry, University of Delhi]
- ❖ **Participated in International Seminar on**, 4th Indo-Italian Workshop on “Green Chemistry and Natural Product” on 17th November 2010, at Department of Chemistry, University of Delhi, India. [Organized

By: Department of Chemistry,  
University of Delhi]

### **REVIEWER OF JOURNALS**

**Membership of Learned Societies/ Professional  
Bodies:**

- > International Journal of  
Pharmacy and  
Pharmaceutical Sciences.
- > International journal of  
Nanomedicine.

**Awards & Honours Received:**

**N/A**

**Others:**

**N/A**