



SRM Valliammai Engineering College


(An Autonomous Institution)

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Department of Chemistry

Personal Details

Name :	Dr. N. JAYAPRAKASH		
Designation :	Assistant Professor (Sr.G)		
Educational Qualification :	M.Sc., M.Phil., Ph.D.,		
Experience:	13.6 Years		
Area of Specialization :	Material Science, Inorganic Chemistry, Organic Synthesis, Environmental Science.		
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Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.Sc.	Chemistry	Loyola College, Chennai	2006
2	M.Sc.	Inorganic Chemistry	University of Madras, Chennai	2008
3	M.Phil.	Chemistry	Vinayaka Missions University, Salem	2009
4	M.S.W.	Social Work	Bharathiar University, Coimbatore	2012
5	Ph.D	Chemistry	Loyola College, Chennai	2016

Professional Society Memberships

1. The Indian Science Congress Association : Annual member
2. Indian Association of Crystal Growth : Life member
3. Indian Society of Technical Education : Life member
4. International Association of Engineers : Life member
5. IAENG Society of Chemical Engineering : Life member

Publication Details

Journals:

1. S. Niranjani, C.B. Nirmala, P. Rajkumar, Goncagül Serdarog˘lu, **N. Jayaprakash**, K. Venkatachalam, Synthesis, characterization, biological and DFT studies of charge-transfer complexes of antihyperlipidemic drug atorvastatin calcium with Iodine, Chloranil, and DDQ, *Journal of Molecular Liquids*, 346, (2022) 117862 (Impact Factor: 6.16)
2. M. Gayathri, M. Shanthi, E. Satheeshkumar, **N. Jayaprakash**, E. Sundaravadivel, Preparation and characterization of boron doped CN's/MnO₂ and its photocatalytic application of dye degradation, *Materials Today: Proceedings*, 42, (2021) 1506-1512. (Impact Factor: 1.24)

3. **N. Jayaprakash**, R. Suresh, S. Rajalakshmi, S. Raja, E. Sundaravadivel, M. Gayathri, M. Sridharan, One-step synthesis, characterisation, photocatalytic and bio-medical applications of ZnO nanoplates. *Materials Technology*, 35 (2020) 112-124. (Impact Factor: 3.846)
4. **N. Jayaprakash**, R. Suresh, S. Rajalakshmi, E. Sundaravadivel, S. Raja, One-step synthesis of CuO nanoparticles and their effects on H9c2 cardiomyoblasts cells. *Inorganic and Nano-Metal Chemistry*, 50 (2020) 644-653. (Impact Factor: 1.716)
5. **N. Jayaprakash**, R. Suresh, S. Rajalakshmi, S. Raja, E. Sundaravadivel, An Assortment of Synthesis Methods of Silver Nanoparticles: A Review. *Asian Journal of Chemistry*, 31 (2019) 1405-1412. (Impact Factor: 0.54)
6. Vaishali Prasad, G. Gnanamani Simiyon, Ansha Elizabeth Mammen, **N. Jayaprakash**, Microwave assisted synthesis, characterization and photo-catalytic study of Cu/ZnO nanocomposite. *Rasayan Journal of Chemistry*, 12 (2019) 860-865. (Impact Factor: 1.23)
7. J. Judith Vijaya, **N. Jayaprakash**, K. Kombaiah, K. Kaviyarasu, L. John Kennedy, R. Jothi Ramalingam, Hamad A. Al-Lohedan, V. M. Mansoor-Ali, M. Maaza. Bioreduction potentials of dried root of Zingiber officinale for a simple green synthesis of silver nanoparticles: Antibacterial studies. *Journal of Photochemistry & Photobiology, B: Biology*. 177 (2017) 62–68. (Impact Factor: 6.252)
8. **N. Jayaprakash**, J. Judith Vijaya, K. Kaviyarasu, K.Kombaiah, L. John Kennedy, R. Jothi Ramalingam, Murugan A. Munusamy, Hamad A. Al-Lohedan. Green synthesis of Ag nanoparticles using Tamarind fruit extract for the antibacterial studies. *Journal of Photochemistry & Photobiology, B: Biology*. 169 (2017) 178–185. (Impact Factor: 6.252)
9. **N. Jayaprakash**, J. Judith Vijaya, L. John Kennedy, K. Priadharsini, P. Palani. Antibacterial activity of silver nanoparticles synthesized from serine. *Materials Science and Engineering C*. 49 (2015) 316-322. (Impact Factor: 7.328)
10. **N. Jayaprakash**, J. Judith Vijaya, L. John Kennedy. Microwave-assisted rapid facile synthesis, characterization and their antibacterial activity of PVP capped silver nanospheres. *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry*. 45 (2015) 1533–1538. (Impact Factor : 1.716)
11. **N. Jayaprakash**, J. Judith Vijaya, L. John Kennedy, K. Priadharsini, P. Palani. One step phytosynthesis of highly stabilized silver nanoparticles using Piper nigrum extract and their antibacterial activity. *Materials Letters*. 137 (2014) 358-361. (Impact Factor: 3.423)
12. **N. Jayaprakash**, J. Judith Vijaya, L. John Kennedy. Microwave-assisted synthesis and characterization of triton x 100 capped silver nanospheres. *Journal of Dispersion Science and Technology*. 34 (2013) 1597–1602. (Impact Factor: 2.262)

Conferences:

a. Conducted:

- Conducted conferences, seminars, and workshops at national level for faculty members, research scholars, and students.

b. Presented and Participated:

- Presented research work in many national and international conferences to get interaction with research scientists and academicians.
- Attended many conferences, seminars and workshops to get more exposure in the research field.
- Attended many faculty development programme to enhance and recollect the knowledge.

Book Chapters

- ✓ One of the authors of a book “**Engineering Chemistry**” by Cengage Learning India Pvt Ltd. Delhi, India in 2019 (ISBN - 978-93-86668-19-6)
- ✓ One of the authors of a book “**A Concise Textbook of Environmental Pollution**” by Amazon Kindle direct publishing, Washington, United States in 2020 (ISBN - 979-8-635-10423-1).
- ✓ One of the authors of a book “**Selected Topics in Chemistry**” by Laxmi book Publication, Solapur, Maharashtra, India in 2015 (ISBN - 978-1-329-12875-0).

Research and Development Details

1. No. of Research Projects Completed : Nil
2. No. of Patents Filed : 01
3. No. of Ph.D candidates guided/guiding: Nil
4. No of Conferences Convened : Nil

Other Particulars

1. No. of STTP/FDP Attended : 08
2. Guest Lecture Organised : 08
3. Research Recognition : Nil
4. Awards : Nil

5. Others

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❖ **Scopus Author Preview Details:**

<https://www.scopus.com/authid/detail.uri?authorId=55916527000>

❖ **ORCID ID:**

<http://orcid.org/0000-0002-8231-3128>

❖ **Google Scholar Profile:**

<https://scholar.google.com/citations?hl=en&user=huYQYC4AAAAJ>

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Citations - 415