VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADARCOLLEGE
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Designation	: **ASSISTANT PROFESSOR OF CHEMISTRY**
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Education Qualification: **M.Sc., M.Phil., Ph.D**

Titles of Dissertation

Degree	Title of thesis	University
M.Phil.	A Red Inhibition for Carbon Steel in an Aqueous Environment	Bharathidasan University, Trichy
Ph.D.	Development of Nickel Oxide Based Nanohetero structures for photocatalytic Applications	Madurai Kamaraj University, Madurai

Area of Specialization : **Organic Chemistry and Nano Chemistrty**

Courses Attended

Orientation Programme:1

Refresher course : 3

Seminars, Workshops and Conferences Attended

State level Seminars / Workshops / Conference : **5**

National level Seminars / Workshops / Conference : **5**

International level Seminars / Workshops / Conference : **2**

Paper Presented : 7

Paper published

Journal / ISSN Book : **5**

List of papers presented in various seminars/conferences

1. R.Vahini and S. Karuthapandian, CubicNiO Nanoparticles: Synthesis, Characterization and Photocatalytic application, Science and Engineering Research Board (SERB) Sponsored National Conference on Recent Development of Bio-inorganic chemistry in Medicinal fields (RDBICM-2015), held at Chemistry Research centre, Department of Applied Science and Huamanities, Mohamed Sathak Engineering College, Kilakari, Ramanathapuram District ,Tamilnadu. 2015 August 28-29.
2. R. Vahini and S. Karuthapandian, Synthesis, Characterization and Photocatalytic application of cobalt oxide : A Wet Chemical Approach, International Conference on Recent Advances in Materials and Chemical Sciences (ICRMCS-2015) held at Gandhigram Rural Institute-Deemed University, Gandhigram. Dindinul District, Tamilnadu, 2015 December 14-15.
3. R. Vahini , P. Senthil Kumar, S. Karuthapandian, Facile Synthesis and Improved Photocatalytic performance of NiO/Co_3O_4 nanocomposite under visible light illumination, International Conference on Functional Materials (ICFM-2016) held at PSN College of Engineering & Technology, Melathediyoor, Tirunelveli District, Tamilnadu, 2016 September 7-10.

4. R. Vahini , S. Karuthapandian, Monoclinic ZrO_2 nanoparticles: Facile wet chemical Synthesis, characterization and photocatalytic application, National\Conference on Recent Trends in Material Science (RTMS-16) held at Sarah Tucker College, Tirunelveli District, Tamilnadu, 2016 December-15.
5. R. Vahini , S. Karuthapandian, Photocatalytic Degradation of Crystal Violet Using Ceriumoxide Nanoparticles Under Visible Light, National seminar on Recent Trends Chemistry (RTC-7) held at Jayaraj Annapackiam College for women (autonomous), Periyakulam, Theni District, Tamilnadu, 2017 January-11&12.
6. R. Vahini and S. Karuthapandian, Execute of catalyst role on the photocatalytic activity and process of Yttria nanoparticles in the degradation of Rhodamine–B, National seminar on recent advances in chemical research (RACR-2017), V.H.N. Senthikumara Nadar College (Autonomous), Virudhunagar, Tamilnadu, 2017 January-24.
7. R. Vahini and S. Karuthapandian, The visible light-driven photocatalytic degradation of Rhodamine B using Co_3O_4 Nanocubes, National recent advances in bioinorganic and edicinal chemistry (RABAMCHEM-2017) V.H.N.Senthikumara Nadar College, Virudhunagar, Tamilnadu, 2017 February -15.

List of paper published:

1.Raja Vahini, Puvaneswaran Senthil Kumar, Swaminathan Karuthapandian, Bandgap-tailored NiO nanospheres: an efficient photocatalyst for the degradation of crystal violet dye solution, *Applied physics A*, 122 (2016) 174.

2. **R. Vahini** , S. Karuthapandian, Photocatalytic Degradation of Crystal Violet Using Ceriumoxide Nanoparticles Under Visible Light, ISBN : 978-81-922846-4-4 (2017).
3. **R. Vahini** and S.Karuthapandian, The visible light-driven photocatalytic degradation of Rhodamine B using Co_3O_4 Nanocubes, ISBN :978-93-81723-63-0 (2017).
4. **Raja Vahini**, Puvaneswaran Senthil Kumar, Swaminathan Karuthapandian, Unique and hierarchically structured novel Co_3O_4/NiO nanosponges with superior photocatalytic activity against organic contaminants, *Front.Mater.Sci.*2017,11(4):375-384.
5. **R. Vahini** and S.Karuthapandian,Execute of catalyst role on the photocatalytic activity and process of yttria nanoparticles in the degradation of Rhodamine-B, ISBN:978-93-81723-609(2017).