Dr. D. MADHAN Ph. D., M.Phil, B.Ed, M.Sc (Physics).

Assistant Professor III –Department of Physics
Velammal College of Engineering and Technology, Madurai
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Educational Qualification:

Ph.D. (Faculty of Physics) Anna University, Chennai. Tamilnadu.	March 2017.
B.Ed. (Physical Science) K.S.R College of Education, Tiruchengode, Tamilnadu**.**	June 2009
M.Phil. Erode Arts College, Erode, Bharathiyar University, Tamilnadu.	January 2010
M.Sc. Annamalai University, Chidambaram, Tamilnadu**.**	May 2005
B.Sc. Kandasamy Kandar Arts College, P. Velur, Periyar University, Tamilnadu.	May 2002
H.S.C. (XII Standard) G.H.S.S, Pandamangalam,Namakkal, Tamilnadu	March 1999
SSLC. (X Standard) G.H.S.S, Pandamangalam, Namakkal, Tamilnadu.	April 1997

Experience in Years: **4.5 Years**

Employment History:

Assistant Professor-III Velammal College of Engineering & Technology	01.11.2021 onwards
Assistant Professor K. S.R Institute for Engineering and Technology Tiruchengode- 637215	22/08/2017- 30.11.2021 **(4.3 Years)**

K. S.R College of Arts and Science
Tiruchengode- 637215

05/06/2017 – 20/08/2017
(2 Months)

Interested Research Areas: Nanomaterials,Nanoscience,Photocatalytic

Scholarships and Awards received: --

Funded Research Projects: --

Patent rights received: --

Publications Details:

1. Patent Journal Publication Details: --

2. International Journal Publication Details:

- **Madhan, D,** Parthibavarman, M, Rajkumar, P & Sangeetha, M 2015, 'Influence of Zn doping on structural, optical and photocatalytic activity of WO_3 nanoparticles by a novel microwave irradiation technique', J**ournal of Materials Science: Materials in Electronics,** vol. 26, no. 9, pp. 6823-6830, (Annexure I) **Impact Factor: 1.569.**
- **Madhan, D**, Rajkumar, P, Rajeswaran P, Sivarajan, A & Sangeetha, M 2015, 'One-step Synthesis, Characterization and Visible Light Photocatalytic Activity of Pure and Zn doped SnO_2 Nanoparticles', **Applied Physics A**, vol. 120, no. 2, pp. 463-469, (Annexure I) **Impact Factor: 1.704.**
- Rajeshwaran, P, Sivarajan, A, Raja, G, **Madhan, D** & Rajkumar, P 2016, 'Effect of tungsten (W6+) metal ion dopant on structural, optical and photocatalyticactivity of SnO2 nanoparticles by a novel microwave method', **Journal of Materials Science: Materials in Electronics,** vol. 27, no. 3, pp. 2419-2425. (Annexure I) **Impact Factor: 1.569.**
- **Madhan, D**, Rajkumar, P & Sangeetha, M, 2017, Visible Light Photocatalytic Activity of Pure and Palladium (Pd) doped SnO_2 Nanoparticles by a One Step Facile Route', **Journal of Materials Science: Materials in Electronics.**(Published Online) (Annexure I) **Impact Factor: 1.569.**
- **Madhan, D & Rajkumar, P 2013** "Analysis of protective (Nano) film of Ocimum tenuiflorum (tulsi) extract by surface examination study" **Der Pharma Chemica**.
- **M.Sangeetha** and **D.Madhan**, "Ultra sensitive molybdenum disulfide (MoS_2)/ grapheme based hybrid sensor for the detection of No_2 and formaldehyde gases by fiber optic clad modified method", **Optics and Laser Technology. On line publication vol. 127, July 2020, 10619** (on line). (Annexure I) **Impact Factor: 2.211.**

3. International Conference Presentation Details: --

4. National Conference Presentation Details:

- Paper presented on **"Ultra sensitive molybdenum disulfide (MoS_2)/ grapheme based hybrid sensor for the detection of No_2 and NH_3 by fiber optic clad modified method" in Two days National Conference on Emerging Materials and Nanotechnology (NCEMN-2020)** held at Thiruvallur Government Arts College,Rasipuram on 28th & 29th February 2020.
- Paper presented - **Madhan, D & Rajkumar, P** "Effect of Pd doping on Structural, Optical & Photocatalytic Activity of SnO_2" **National conference on Emerging Trends in Chemistry, Physics & Mathematics - NCETCPM-2017**, held at Kongunadu College of Engineering and Technology, Thottiam on 3rd March 2017.
- Participated in International Conference on **"Nanomaterials and Nanotechnology" (NANO-15)** held at K.S.Rangasamy College of Technology, Tiruchengode, during 7 – 10, December 2015.
- Participated in India – UK Joint International Conference on **"Advanced Nanomaterials for Energy, Environment and Healthcare Applications"** held at K.S.R. College of ARTS and Science for Women, Tiruchengode, during 31st August and 1st September 2018.

5. Google Scholar report:

Citations	60	60
h-index	4	4
i10-index	2	2