

Publications of Proposed DC Members

Dr.J.Madhavan

(Selective Publications)

S. No	Author(s)	Title of the paper, Journals Name, Vol. (no.), pages	year	Impact Factor
1.	Theerthagiri J, Senthil RA, Priya A, Madhavan J* , Michael RJV, Ashokkumar M	Photocatalytic and photoelectrochemical studies of Visible-light active α -Fe ₂ O ₃ -g-C ₃ N ₄ nanocomposites. <i>RSC Advanc</i> , 4(2014) 38222-38229.	2014	2.93
2.	Senthil RA, Theerthagiri J, Madhavan J*	Optimization of performance characteristics of 2-mercaptopyridine doped polyvinylidene fluoride (PVDF) polymer electrolytes for dye sensitized solar cells. <i>Journal of Non-Crystalline Solids</i>, 406(2014) 133-138	2014	2.48
3.	Theerthagiri J, Senthil RA, Priya A, Madhavan J* , Ashokkumar. M	Synthesis of a visible-light active V ₂ O ₅ -g-C ₃ N ₄ heterojunction as an efficient photocatalytic and photoelectrochemical material. <i>New Journal of Chemistry</i> , 39 (2015) 1367-1374.	2015	3.20
4.	Michael RJV, Theerthagiri J, Madhavan J , Umapaty MJ, Mantoharan PT	Cu ₂ S-incorporated ZnS nanocomposites for photocatalytic hydrogen evolution. <i>RSC Advance</i> , 5(2015) 30175-30186	2015	2.93
5	Theerthagiri J, Senthil RA, Malathi A, Selvi A, Madhavan J* , Ashokkumar M	Synthesis and characterization of CuS-WO ₃ composite photocatayst for enhanced visible light photocatalytic activity. <i>RSC Advance</i> , 5 (2015) 52718-52725.	2015	2.93
6	Yusof NSM, Babgi B, Alghamdi Y, Aksu M, Madhavan J , Ashokkumar M	Physical and Chemical Effects of Acoustic Cavitation in Ultrasonic Cleaning Applications. <i>Ultrasonics Sonochemistry</i> 29(2016) 568–576	2016	6.01

7.	Malathi A, Vasanthakumar V, Arunachalam P, Madhavan J , Mohamed A G	A low cost additive-free facile synthesis of BiFeWO ₆ /BiVO ₄ nanocomposite with enhanced visible-light induced photocatalytic activity. <i>J. Colloid & Interf. Sci</i> , 506(2017) 553–563.	2017	5.09
8.	Murthy A P, Theerthagiri J, Madhavan J	Highly water dispersible polymer acid-doped polyanilines as low-cost, Nafion-free ionomers for hydrogen evolution reaction. <i>ACS Appl. Energy Mater.</i> , 1 (4) (2018) 1512–1521.	2018	-
9.	Duraimurugan K, Dhanamoorthy V, Madhavan J , Siva A	Synthesis and photophysical investigations of C3-triazine based star-like conjugated molecules. <i>J. Photochem & Photobio A: chem.</i> 359 (2018)164–171.	2018	3.16
10.	Arun M, Theerthagiri J, Madhavan* J	Insights on Tafel Constant in the Analysis of Hydrogen Evolution Reaction". <i>J. Phys. Chem. C</i> , 122 (42), (2018)23943–23949.	2018	4.48
11.	J. Theerthagiri, C. Eduardo; F. Guilherme; B. Senthilkumar; T. Maiyalagan, J. Madhavan , G. Maia.	Highly electroactive Ni pyrophosphate/Pt catalyst towards hydrogen evolution reaction, <i>ACS Applied Materials & Interfaces</i> , 11 (5), (2019) 4969–4982.	2019	8.09
12.	P. Shanmugam; M. Arun Prasad, J Theerthagiri, Wei Wei, J Madhavan , T Maiyalagan.	Robust Bifunctional Catalytic Activities of N-doped Carbon Aerogel-Nickel Composites for Electrocatalytic Hydrogen Evolution and Hydrogenation of Nitrocompounds. <i>International Journal of Hydrogen Energy</i> 44(26) (2019) 13334-13344	2019	4.22
13.	M. Arun Prasad, K. Duraimurugan, J. Srihar, J. Madhavan.	Application of derivative voltammetry in the quantitative determination of alloxan at carbon nanomaterial modified electrodes. <i>Electrochimica Acta</i> 317 (2019) 182-190.	2019 Elsevier	5.11