BIO-DATA

1	**Name and full correspondence address**	:	Dr. R. RATHI, Head & Associate Professor of Physics, Sengamala Thayaar Educational Trust Women's College (Autonomous), Sundarakkottai, Mannargudi -614016 
2	Email(s) and contact number(s)	**:**	**rathirajafazil@gmail.com, 9487662181**
3	Date of Birth	**:**	**28.05.1982**
4	Gender	**:**	**Female**
5	Academic Qualification (Undergraduate Onwards)		

	Degree	Year	Subject	University/Institution	% of marks
1	B.Sc.,	2000-2003	Physics	Bharathidasan University, Trichirappalli	69.73%
2	M.Sc.,	2003-2005	Physics	Bharathidasan University, Trichirappalli	69.86%
3	M.Phil.,	2005-2006	Physics	Bharathidasan University, Trichirappalli	73.8%
4	Ph.D	2014-2019	Physics	Bharathidasan University, Trichirappalli	86%

6	Ph.D thesis title,	**:**	**Effects of Fe,Fe+F, and Ce doping on thephotocatalyticandantibacterial activities of ZnO nanopowder synthesized using a soft chemical method**
	Guide's Name,	**:**	**Dr. K. Ravichandran, Head& Associate professor of Physics,**
	Institute/Organization/University,	**:**	Avvm sri Pushpam college , Poondi, Thanjavur (Dt),
	Year of Award.	**:**	**April 2019**
7	Membership in Scientific Societies	**:**	Materials Research Society of India, Bangalore.
8	Journal Reviewer	**:**	Journal of Materials Science: Materials in Electronics
9	Scopus Id	**:**	http://www.scopus.com/authid/detail.uri?authorid=57210657428
10	ORCID Id	**:**	https://orcid.org/0000-0003-3992-1571

11	**Work experience (in chronological order).**			
	Positions held	**Name of theInstitute**	**From**	**To**
	Assistant professor, Department of Physics	Sengamala Thayaar Educational Trust women's College, Sundarakkottai, Mannargudi	09.07.2007	16.12.2018
	Head & Assistant professor, Department of Physics	Sengamala Thayaar Educational Trust women's College, Sundarakkottai, Mannargudi	16.12.2018	Till Date

12 **Publications** ***(List of papers published in SCI Journals, in year wise descending order).***

Author(s)	**Title**	**Name of Journal**	**Volume**	**Page**	**Year**
R. Damodaran, K.Ravichandran, **R. Rathi**, M.Baneto,K. Karthika, P.V. Rajkumar, B. Sakthivel	Effect of Fe+F doping on the on the antibacterial activity of ZnO powder	Ceramics international, Elsevier	41, 2015	3390-3395	26/11/2014
B.Radha**, R.Rathi,** K.C. Lalithambika, A. Thayumanavan,K. Ravichandran, S. Sriram	Effect of Fe doping on the photocatalytic activity of ZnO nanoparticles: experimental and theoretical investigations	Journal of Materials Science Materials in Electronics,Springer US	29,16	13474-13482	8/1/2018
S. Suvathi, **R. Rathi,** K. Ravichandran, P.Kavitha, M. Ayyanar, PK. Praseetha, N. Chidhambaram	Improved photocatalytic dye degradation and seed germination through enzyme-coupled titanium oxide nonopowder – A cost effective apporoach	Environmental Research, Academic Press	218	114973	2/1/2023
K. Ravichandran, N.Sivajyothi, **R, Rathi**, A. Viji, K. Neethidevan, N. Dineshbau, R. Shalini	Intermediateelectron trap levels generation and enhanced carrier concentration in ZnO by strontinum and molybdenum Co doping : an effective Approach for dye degradation	Journal of Materials Science Materials in Electronics, Elesiver	34,5		1/7/2023

13	**Research Project completed :01**					
	Title of the project	**Under the scheme**	**sanctioned from**	**Grant received**	**reference**	**period**
	" preparation of low –cost ZnO nanopowders and nanocrstalline thin films for antibacterial applications"	Minor Research Project	UGC – SERO, Hyderabad.	3,80,000/-	vide UGC letter no. MRP-6173/15 (UGC/SERO)	2015-2017