FACULTY – PROFILE

1. **Name** : Dr. R. RANJITH
2. **Designation** : ASSISTANT PROFESSOR
3. **Department** : PHYSICS
4. **Date of Joining** : 23.09.2022
5. **E-mail** : ranjith0591@gmail.com
6. **Phone No**. : 9787066886
7. **Educational Qualification**

Degree	Institute	Specialization	Name of the Degree	Year	Division
UG	Sacred Heart College, Thirupattur- 635 601. Tamilnadu, India.	Physics	B.Sc.	2011	II
UG	Victory College of Education Dindigul-624 306, Tamilnadu, India.	Physical Science	B.Ed	2012	I
PG	Periyar University P.G Extinction Center, Dharmapuri, Tamil Nadu, India.	Physics	M.Sc.	2014	I
Ph.D	Department of Physics, Periyar University, Salem	Physics-Photocatalyst	Ph. D.	2021	Highly Commended

8. **Employment Record (from present to past)**

Organization	Period		Designation
	From	To	
K.S.R. College of Engineering, Tiruchengode, Namakkal District	23.09.2022	Till Date	Assistant Professor

9. **Memberships of Professionals / Learned Bodies / Societies**

S.No.	Name of the Professionals/Learned bodies/Societies	Membership No
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9. Awards / Prizes Received

Name of the Award	Year	Awards / Prizes received from
Senior Research Fellowship awarded by Council of Scientific and Industrial Research (CSIR),	April-2019 to Feb-2021.	Government of India, New Delhi [Ref.No: 09/810 (0026)/2019-EMR-I, 01/04/2019].
University Research Fellow (URF)-	March-2016 to March-2018.	Periyar University-Salem, Tamilnadu, India

10. R & D Details

a) Research Grants Received

Year	Project Title	Reference No	Total Amount Received	Sponsoring agencies
-	-	-	-	-

b) PhD Registration Details

Year of Registration	Topic	Name of the Supervisor	Reference No	Name of the University
-	-	-	-	-

11 Conference Grants Received

Title of the Conference	Duration	Sponsoring agencies	Amount received
-	-	-	-

12. Publications

i) Publications in Journals

Sl.No.	Name of the Author	Title of the Paper	Journal Name	Vol , No & pages	Year of Publication
1.	**R. Ranjith*,** Natchimuthu Karmegam, Murad Alsawalha, K. Jyothimani, Xuefeng Hu.	Construction of $CdS/BiVO_4/g\text{-}C_3N_4$ ternary nanocomposite with enhanced visible-light-driven photocatalytic activity toward methylene blue dye degradation in the aqueous phase.	Journal of Evironmental Management	330 & 117132	2022

2.	**R.Ranjith,** S.Vignesh, Ramalingam, Balachandarm,S.Suganthi, V.Raj, Subramaniyan Ramasundaram J.Kalyana Sundar Mohd Shkirf Tae Hwan Oh	Construction of novel g-C_3N_4 coupled efficient Bi_2O_3 nanoparticles for improved Z-scheme photocatalytic removal of environmental wastewater contaminant: Insight mechanism	Journal of Environmental Management	330 & 117134	2022
3.	Mehala Kunnamareddya; Sivarasan Ganesan; Ashraf Atef Hatamleh; Bassam Khalid Alnafisi; **Ranjith Rajendran*;** Ragavendran Chinnasamy; Priyadharshan Arumugam, Barathi Diravidamani; Huang-Mu Lo,	Enhancement in the Visible Light Induced Photocatalytic and Antibacterial Properties of Titanium dioxide Codoped with Cobalt and Sulfur,	Environmental Research	216 & 114705	2022
4.	K. Mahalakshmi, **R. Ranjith,** Pazhanivel Thangavelu, M.Priyadharshini, Baskaran Palanivel, M. Aslam Manthrammel, Mohd Shkir, Barathi Diravidamani,	Augmenting the Photocatalytic Performance of Direct Z-Scheme Bi_2O_3/g-C_3N_4 Nanocomposite	Catalysts	*12*(12), & 1544	2022
5.	Pachiyappan Rajiv Gandhi, Chinnasamy Ragavendran, Vimal Sugumar, R.C.. Sathish, Rajendran Ranjith, A. Priyadharsan, Tijo Cherian, Rajappan Chandra Satish Kumar, Chinnaperumal Kamaraj,	Sustainable Development Through the Bio-Fabrication of Ecofriendly ZnO Nanoparticles and its Approaches to toxicology and Environmental Protection	Biomass Conversion and Biorefinery	23 & 1-17.	2022
6.	S. Selvi, **Ranjith Rajendran,** N. Jayamani.	Hydrothermal fabrication and characterization of novel CeO_2/$PbWO_4$ nanocomposite for enhanced visible-light photocatalytic performance.	Applied Water Science	11.6 & 1-14.	2022
7.	S. Kavitha, **R. Ranjith,** N. Jayamani.	Facile construction of novel Ag_2O combined TiO_2 nanocomposites	Materials Technology	1-15	2021

		with enhanced dye degradation under visible-light photocatalytic activity.			
8.	Mehala Kunnamareddy, **Ranjith Rajendran,** Megala Sivagnanam, Ramesh Rajendran, Barathi Diravidamani,	Nickel and Sulfur Codoped TiO2 Nanoparticles for Efficient Visible Light Photocatalytic Activity	Journal of Inorganic and Organometallic Polymers and Materials	1-12.	2021
9.	S. Kavitha, **R. Ranjith,** N. Jayamani, S. Vignesh, B. Palanivel, R. Djellabi, F.A. Alharthi,	Fabrication of visible-light-responsive TiO_2/α-Fe_2O_3-heterostructured composite for rapid photo-oxidation of organic pollutants in water".	Journal of Materials Science: Materials in Electronics	33(11) & 8906-8919.	2021
10.	S. Selvi, **Ranjith Rajendran,** D. Barathi N. Jayamani	Facile Synthesis of CeO_2/$CoWO_4$ Hybrid Nanocomposites for High Photocatalytic Performance and Investigation of Antimicrobial Activity	Journal of Electronic Materials	50(5) & 2890-2902.	2021
11.	D. Barathi, N. Rajalakshmi, **R. Ranjith,** R. Sangeetha, S. Meyvel,	Controllable synthesis of CeO_2/g-C_3N_4 hybrid catalysts and its structural, optical and visible light photocatalytic activity	Diamond and Related Materials	111 & 108161.	2020
12.	Jayaraman Venkatesan, Debabrata Sarkar, **Ranjith Rajendran,** Baskaran Palanivel, Chinnadurai Ayappan, Muthamizhchelvan Chellamuthu, Alagiri Mani.	Synergistic effect of band edge potentials on $BiFeO_3$/V_2O_5 composite: Enhanced photocatalytic activity.	Journal of environmental management	247 & 104-114.	2019
13.	**Ranjith Rajendran,** Krishnakumar Varadharajan, Venkatesan Jayaraman,	Fabrication of Tantalum doped CdS nanoparticles for Enhanced photocatalytic degradation of	Colloids and Surfaces A: Physicochemical and Engineering	580 & 123688.	2019

		organic dye under visible light exposure.	Aspects		
14.	Singaram Boobas, Jayaprakash Jeyaram, **Ranjith Rajendran,** Priyadharsan Arumugam, Krishnakumar Varadharajan. “	Visible light photocatalytic activity of tungsten and fluorine codoped TiO_2 nanoparticle for an efficient dye degradation”.	Ionics	25 & 773-784.	2019
15.	**Ranjith Rajendran,** Venkatesan Jayaraman, Krishnakumar Varadharajan,	Fabrication of CdS-$PbWO_4$ nanocomposite to improve the photocatalytic degradation efficiency of methylene blue under visible light irradiation,	Journal of Physics and Chemistry of Solids	129 & 261-269.	2019
16.	**Ranjith Rajendran,** Krishnakumar Varadharajan, Venkatesan Jayaraman, Boobas Singaram, Jayaprakash Jeyaram,	Photocatalytic degradation of metronidazole and methylene blue by PVA-assisted Bi_2WO_6-CdS nanocomposite film under visible light irradiation	Applied Nanoscience,	8 & 61-78.	2018
17.	Navaneethan Duraisamy, Kavitha Kandiah, **Ranjith Rajendran,** Prabhu S, Ramesh Rajendran, Gopi Dhanaraj,	Electrochemical and photocatalytic investigation of nickel oxide for energy storage and wastewater treatment	Res Chem Intermed	44 & 5653-5667.	2018
18.	**Ranjith Rajendran,** Krishnakumar Varadharajan, Boobas Singaram, Venkatesan Jayaraman, Jayaprakash Jeyaram,	An Efficient Photocatalytic and Antibacterial Performance of Ni/Ce-Codoped CdS Nanostructure under Visible Light Irradiation	ChemistrySelect	32 & 9259-9267.	2018
19.	Mehala Kunnamareddy, Barathi Diravidamani, **Ranjith Rajendran,** Boobas Singaram, Krishnakumar Varadharajan,	Synthesis of silver and sulphur codoped TiO_2 Nanoparticles for photocatalytic degradation of methylene blue	J Mater Sci: Mater Electron	21 & 18111-18119.	2018

20.	Jeyaram Jayaprakash, Krishnakumar Varadharajan, Boobas Singaram, **Ranjith Rajendran.**	Growth and characterization of organic second-order nonlinear optical (NLO) 4-chloroanilinium-l-tartrate monohydrate single crystals.	Journal of Crystal Growth,	486 & 96-103.	2018
21.	Krishnakumar Varadharajan, **Ranjith Rajendran,** Jayaprakash Jeyaram, Boobas Singaram, Venkatesan Jayaraman.	Enhancement of photocatalytic degradation of methylene blue under visible light using transparent Mg-doped CdS-PVA nanocomposite films	J Mater Sci: Mater Electron	28 & 13990-13999.	2017
22.	Jayaprakash Jeyaram, Krishnakumar Varadharajan, Boobas Singaram, **Ranjith Rajendren,**	"Optical, photoconducting, thermal and anisotropic mechanical behaviour of Benzimidazolium salicylate single crystals",	J. Sci. Adv. Mater. Devices	2:445-454.	2017
23.	Boobas Singaram, Krishnakumar Varadharajan, Jayaprakash Jeyaram, Ranjith Rajendran, J. Vijayan,	Preparation of Cerium and Sulfur Codoped TiO_2 Nanoparticles based Photocatalytic activity with Enhanced visible light	J. Photochem. Photobiol. A	349 (1) & 91-99,	2017

ii) Papers Presented in International Conferences / Symposiums : 06

iii) Papers Presented in National Conferences / Symposiums

Sl.No.	Name of the Author	Title of the Paper	Conference Name	Proceeding pages	Date & Year
Nil					

iv) Publication of Books

Sl. No.	Publication	Date of Publication	Name of the Publisher
-	-	-	-

13. National/International Conferences & Seminar/Workshops attended

14. Lecture Delivered

15. Conference/Seminar Organized

16. Patent:

S.No.	Author	Title of the invention	status
-	-	-	-

17. Reviewer In

R. Ranjith.

Name & Signature
(Dr.R.RANJITH)