



GURU NANAK COLLEGE (AUTONOMOUS)
Affiliated to University of Madras and Accredited at 'A' Grade by NAAC
An ISO 9001:2015 Certified Institution
Guru Nanak Salai, Velachery, Chennai – 600 042



FACULTY PROFILE

Name: Dr.V. Shanmugavalli
Emp ID: EMPTS117

Designation: Assistant Professor

Name of the Program: Physics

Educational Qualification: M.Sc, B.Ed, Ph.D.

Experience (In Years): (As on 01.09.2024)

GNC	2 years	Other HEI	1 year 4 Months	Industry	1 Year
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Number of Research Publication: 9

S.NO.	AUTHOR	NAME OF THE JOURNAL	TITLE	VOLUME& DATE	DOI NO.
1.	V.Shanmugavalli, R.Dhilip Kumar,	Materials Science and Engineering :B	One-Pot synthesis of CuO-Cu ₂ O nanoscrubbers for high-performance pseudo-supercapacitors applications –	Volume 281, July 2022, 115755	https://doi.org/10.1016/j.msb.2022.115755
2.	V.Shanmugavalli , V. Sampath	Journal of Materials Science: Materials in Electronic	High performance NiCo ₂ O ₄ /PANI/graphene nanofiber for supercapacitor applications	Volume 34, 849 (2023)	https://doi.org/10.1007/s1084-023-10248-6
3.	Shanmugavalli, V & Vishista	Materials Research Express	'Low-cost synthesis of cubic spinel structured high efficient NiCo ₂ O ₄ /polyaniline nanocomposite for supercapacitor application'	vol.4, pp. 6. 2019	10.1088/2053-1591/aae8e
4.	Shanmugavalli, V, Saravanan, OV, Saravanan, R & Vishista	Ionics	A Study of charge density distribution and enhanced electrochemical properties of Zinc	vol. 25, pp. 4393-4408 2019	https://doi.org/10.1007/s11581-019-02997-4

			Cobaltite/Polyaniline nano composite for supercapacitor application		
5.	Shanmugavalli, V & Vishista	Journal of Inorganic and Organometallic Polymers and Materials	An Investigation on the supercapacitive performance of CuCo ₂ O ₄ /Polyaniline, A nanocomposite of spinel structured transition binary metal oxide and conducting polymer with a special on bonding and electron density distribution through MEM'	Vol 30, 1448–1462	https://doi.org/10.1007/s10904-019-01268-
6.	Shanmugavalli, V & Vishista	International Journal of Engineering Science Invention ISSN	synthesis of high yield Graphene oxide nano-sheet at room temperature for supercapacitor application'	[Online]2019:2319-6734.	Google Scholar 2319-6734.
7.	Shanmugavalli, V & Vishista, K	SN Applied Sciences	Investigation of structural electron density distribution and enhanced electrochemical properties of spinel structured MnCo ₂ O ₄ /PAN I nanocomposite prepared by facile and economical method'	<i>SN Appl. Sci.</i> 2, 683 (2020)	https://doi.org/10.1007/s42452-020-2046-3

8.	R.Kavitha,V.Sam path, V.Shanmugavalli , S.Nirmala	Journ al of Molec ular Struct ure	Studies of synthesis, crystal structure and antidiabetic activity of quinolinium 2-carboxylate 2-chloroacetic acid	Volume 1240, 15 September 2021, 130572	https://doi.org/10.1016/j.molstruc.2021.13057
9.	R. Dhilip Kumara , V. Shanmugavallia , K. Sreevania , V. Dhinakaranb , S. Nagarania , Balamurali Ramakrishnan c	Mate rials Lette rs	ZnS-Co3S4 Nanoscrubber Synthesized by Hydrothermal Route for High Performance Pseudo-supercapacitors	Volume 310, 1 March 2022, 131418	https://doi.org/10.1016/j.matlet.2021.131418

Patent Details: 2

S.No	Name of the Patent	Status
1	Non – Metal Embedded Bi – Metallic Nano structured Materials for use as high performance Electrocatalysts for production of Ammonia via Electrochemical route	Published
2.	Influence of Sulfur – Gold nanoscrubbers for Ammonia production by Electrochemical method	Published

No of Seminars/Conferences/Workshops/Symposium/ Participated:9

No of Seminars/Conferences/Workshops/Symposium/ Conducted:1

Number of programmes attended as Resource Person: 3

Members in Professional Bodies/ Editorial Board/ Committee (outside Agencies):

S.No	Name of the Professional Body	Year
1.	Tamilnadu Astronomical Science Society (Academic coordinator),	2021-2024
2.	Chennai Astro Club (Vice president),	2021-2024
3.	State Youth and Space Science Congress.	2021-2024

4.	GNC Alumni Association	2022-2024
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Member in College Committees, Centres and Cells (June 2022 onwards):

S.No	Year	Name of the Committee/ Cell	Designation
1	2022-2024	GNC Alumni Association	Member
2	2023-2024	GNCCOI	Member
3	2023-2024	Gnc Astro club	Coordinator

Number of orientation/ Refresher/Short term/ FDP/ PDP/Certificate Courses/ MOOC online attended (Both online and Offline): 2

Signature: