


Faculty Profile

Name : N.Sowmya		
Designation:	Assistant Professor	
Department	Physics	
Address (Campus)	Government College for Women, Kolar	
(Residence)	4 th cross, Palasandra Layout, Kolar	
Date of Birth	05-12-1980	
Date of Appointment	19-09-2009	
Mobile	8892361606	
E-mail	Sowmyaparakash8@gmail.com	

Educational Qualifications :

Sr. No	Degree	Name of the Institution / University	Year of Passing	Percentage
1	BSc	Bangalore University	2001	58.9%
2	MSc	Bangalore University	2003	69.9%
3	MPhil	Alagappa University	2008	53.35%
4	PhD	Visvesvarayya Technological University	Pursuing	-----

SLET/NET Details :

Sr. No	SLET/ NET	Name fo the University	Year of Passing	Register Number

• **Teaching Experience:**

Sr. No	Name and Address of the Institution	Subject	Date (From – To)	Total Years and Months
1	Government College for Women, Kolar	Physics	19-09-2009 to till date	11 years and 3 months
Total Experience (Completed Years)				11 years and 3 months

• **Research Experience:**

Sr. No	Year	Number of M.Phil / Ph.D Guided	Subject

• **BOS/BOE Details:**

Sr. No	Name of the University / Autonomous College	Subject	BOS / BOE	Chairperson / Member	Year

• **Orientation Programme Attended:**

Sr. No	Name of the University	Date (From – To)	Place
1	ASC, Bangalore university	23-11-2009 to 21-12-2009	Bangalore

• **Refresher Course Attended:**

Sr. No	Name of the University	Date (From – To)	Place
1	ASC, Bangalore university	19-03-2012 to 11-03-2012	Bangalore
2	ASC, Bangalore university	8-12-2018 to 29-12-2018	Bangalore
3	ASC, Bangalore university	27-01-2020 to 8-02-2020	Bangalore

• **Short Term Course Attended:**

Sr. No	Name of the University	Date (From – To)	Place
1	St. Josephs College, Thiruchirapalli.	30-06-2020 to 4-06-2020	Online

• **Faculty Development Programme Attended:**

Sr. No	Name of the University	Date (From – To)	Place
1	UGC-HRDC, University of Delhi	02-07-2020 to 17-07-2020	Online
2	GCW, Kolar, Through MHRD	05-06-2020 to 11-06-2020	Online

Publications:

Books :

Sr. No	Title of Book	Name of the Publisher	ISBN No.	Author / Co-Author	Year

In Indexed/ Peer Reviewed Journals:

Sr. No	Title of Publication	Name of the Journal	ISSN No.	Author / Co-Author	Year
1	“Semi empirical formula for pair production cross section of gamma in nuclear and electric field”	Modern Physics Letters A, Vol. 35, No. 34, 2050285	0217-7323 (print); 1793-6632 (web)	H.C. Manjunatha, L. Seenappa, N.Sowmya, K.N. Sridhar, B.M.Chandrika,	2020
2	“Investigations on the synthesis of SHN with magic number of Neutrons and Protons.	International Journal of Modern Physics E 29(5), 2050028 (2020)	0218-2718	H. C. Manjunatha, N. Sowmya, N. Manjunath and L. Seenappa	2020
3	“Cl, K and Ni induced reactions to synthesis SHN ^{273}Rg ”	Indian Journal of Pure & Applied Physics Vol 58, 267-270 (2020).	0975-1041 (Online)	N. Sowmya, H.C.Manjunatha, Nagaraja. A.M, N.Dhananjaya	
4	“Investigations on different decay modes of Darmstadtium”	Physics of Particles and Nuclei Letters, 2020, Vol. 17 (3) 370–378 (2020).	ISSN 1547-4771	N.Sowmya, H.C.Manjunatha	2020
5	“Investigations on the synthesis and decay properties of Roentgenium”	Brazilian Journal of Physics, 50:317–330(2020).	0103-9733	N. Sowmya, H.C.Manjunatha	2020
6	“Competition between different decay modes of ^{281}Ds ”	Journal of Radioanalytical and Nuclear Chemistry 323:1347–1351(2020).	0236-5731	N.Sowmya, H.C.Manjunatha, N.Dhananjaya	2020
7	“Competition between different decay modes of superheavy element $Z=116$ and synthesis of possible isotopes”	Braz J Phys 49: 874 (2019).	0103-9733	N.Sowmya, H.C.Manjunatha	2019
8	“Investigations on $^{64}\text{Ni}+z\text{An}^A \rightarrow Z=104-123(\text{SHN})^{A=250-310}$ reactions”	Nuclear Physics A 987 (2019) 382–395.	0375-9474	H.C.Manjunatha, K.N.Sridhar, N.Sowmya	2019
9	“Pocket formula for mass excess of nuclei range $57 < Z < 103$ ”	Modern Physics Letters A Vol. 34, No. 15 (2019) 1950112.	0217-7323 (print); 1793-6632 (web)	H. C. Manjunatha, N. Sowmya	2019
10	“Investigations of the synthesis of the superheavy element $Z = 122$ ”	PHYSICAL REVIEW C 98, 024308 (2018)	ISSN 0556-2813 (print) ISSN 1089-490X (web)	H. C. Manjunatha, K. N. Sridhar, N. Sowmya	2018
11	“Decay modes of superheavy nuclei $Z=124$ ”	International Journal of Modern Physics E, Vol. 27, No. 5 (2018)	0218-2718	H.C.Manjunatha,* N.Sowmya	2018

		1850041.			
12	“Parameterization of the experimental fusion-fission cross sections”	Pramana – J. Phys. (2018) 90:62.	0304-4289	H.C.Manjunatha, N.Sowmya,	2018
13	“Competition between spontaneous fission ternary fission cluster decay and alpha decay in the super heavy nuclei of Z=126”	Nuclear Physics A 969 (2018) 68–82.	0375-9474	H.C.Manjunatha, N.Sowmya,	2018
14	“A study of probable alpha-ternary fission fragments of ²⁵⁷ Fm”	Journal of Radioanalytical and Nuclear Chemistry 314,2 (2017)991-999	1588-2780	H.C.Manjunatha, N. Sowmya,	2017
15	Empirical formulae for mass attenuation and energy absorption coefficients from 1keV to 20MeV,	The European Physical journal D (2017) 71: 235.	1434-6060	H.C.Manjunatha, L.Seenappa, K.N.Sridhar, N. Sowmya, Chikka Hanumantharayappa	2017
16	“Theoretical estimation of proton induced X-ray emission yield of the trace elements present in the lung and breast cancer”	Results in Physics 127,5 (2014)	2211-3797	H.C. Manjunatha, N. Sowmya,	2014

- **Articles:**

Sr. No	Topic of Articles	Name of the Magazine	Year of Publication

- **State Level Seminar**

Sr. No	Theme of the Seminar	Place	Date/ Duration	Paper Presented/ Participated

- **National Level Seminar:**

Sr. No	Theme of the Seminar	Place	Date/ Duration	Paper Presented/ Participated
1	Participated in the outreach campaign on international year of chemistry 2011, sponsored by vision group of science and technology	CBIT, Kolar	27 December 2011.	Participated

- **International Seminar:**

Sr. No	Theme of the Seminar	Place	Date/ Duration	Paper Presented/ Participated

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- **State Level Conference:**

Sr. No	Theme of the Conference	Place	Date/ Duration	Paper Presented/ Participated

- **National Level Conference/Symposium:**

Sr. No	Theme of the Conference	Place	Date/ Duration	Paper Presented/ Participated
1	DAE- BRNS, Indian Particle Accelerator Conference -2013, InPAC-2013,	VECC, Kolkata	19-11-2013 to 22-11-2013	H.C.Manjunatha, N.Sowmya , Theoretical estimation of proton induced X-ray emission yield of the trace elements present in the Lung and breast cancer
2	“13th DAE-BRNS Nuclear and Radiochemistry symposium (NUCAR-2017),	KIIT University, Bhubaneswar,	6-10 February	A study of probable alpha-ternary fission fragments of ^{257}Fm ”
3	” NCRP 2017,	Jnana Bharathi, Bangalore University, Bangalore	23-24th Nov 2017.	A study of alpha accompanied ternary fission of ^{252}Es sing different proximity potentials
4	Procedings of Naional Conference on Radiation Physics and its applications in material science and medicine (NRM-2018)	Government College for Women, Kolar, Sri Devraj urs medical college, Tamaka	6 April 2018(Oral)	A comparative study of cluster radioactivity and alpha decay half lives for $Z=110-112$,
5	“14th DAE-BRNS Nuclear and Radiochemistry symposium (NUCAR-2019), BARC,	Anushakthinagar, Mumbai	15-19 January, 2019.	Competition between different decay modes in ^{281}Ds ”
6	Procedings of the National Conference on Environmental Monitoring, Impact Assessment and Management (NCEMIAM-19),	SSN college of Engineering, Chennai	16th March 2019	Investigations on different decay modes in superheavy nuclei ^{292}Lv
7	National Symposium on Radiation Physics (NSRP-22),	Jawaharlal Nehru	November 8-10, 2019 (poster).	Phenomenological formula for nucleon separation energies in

		University, New Delhi		superheavy nuclei
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- **International Level Conference/Symposium:**

Sr. No	Theme of the Conference	Place	Date/ Duration	Paper Presented/ Participated
1	International Conference on High Energy Radiation and Applications (ICHERA)-2017	Maharaja Syaajirao university of Baroda, Vadodara, Gujarat.	10-13th Oct 2017	Comparison of binary and ternary fission fragments of uranium isotopes $^{232-238}\text{U}$
2	International Conference on "New Frontiers in Nuclear Physics" (ICNFNP – 2019)	BHU-Varanasi,	October 14 – 17, 2019	Cl, K and Ni induced reactions to synthesis SHN ^{273}Rg

- **State Level Workshop:**

Sr. No	Theme of the Workshop	Place	Date/ Duration	Paper Presented/ Participated
1	Research Methodology” organized by VTU Human Resource Development Center (VTU-HRDC),	Centre for PG Studies, Muddenahalli, Chikkaballapur (Dist).	26th Feb to 3rd Mar 2018	Participated

- **National Level Workshop:**

Sr. No	Theme of the Workshop	Place	Date/ Duration	Paper Presented/ Participated

- **Co-Curricular Activity:**

Sr. No	Organization / Institution	Designation	Duration	Role
1	NSS	NSS-coordinator	2013-2014	NSS-coordinator
2	NCC	Officer	2016-2018	NCC-coordinator
3	Red Cross	Red cross-coordinator	2019-20	Red cross-coordinator

- **Total Publication Details:**

Total No. of State Level Seminar Attended	Total No. of National Seminar Attended	Total No. of International Seminar Attended	Total No. of State Conference Attended	Total No. of National Conference Attended	Total No. of International Conference Attended	Total No. of State Level Workshop Attended	Total No. of National Level Workshop Attended
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Honors & Awards:

1. Indian Association of Nuclear Chemists and Allied Scientists (IANCAS) conferred “**Best research paper Award**” for the Research paper entitled “A study of probable alpha-ternary fission fragments of ^{257}Fm ” during 13th DAE-BRNS Nuclear and Radiochemistry Symposium (NUCAR-2017), February 6-10, 2017.(Oral).

2. Proceedings of Government College for Women, Kolar, conferred “**Best research paper Award**” for the Research paper entitled “A comparative study of cluster radioactivity and alpha decay half lives for Z=110-112” during National Conference on Radiation Physics and its applications in material science and medicine (NRM-2018) 6 April 2018(Oral)

- **Public Service / University Service / Consulting Activity:**

- **Professional Societies Memberships:**

- **Projects (Major Grants / Collaborations):**

- **Others Details:** List of papers found in

Research Scholar:

<https://scholar.google.com/citations?user=9OEyo2cAAAAJ&hl=en>

Research gate:

https://www.researchgate.net/profile/Sowmya_Nagaraj6

ORCID no: <https://orcid.org/0000-0003-3095-5820>

Date:07-12-2020

N Sowmya

Place: Kolar

(Signature)