

Biodata

A. General Information:

1. Full Name	Karankumar Ramnath Sature	
2. Designation	Assistant Professor	
3. Academic Qualification	Ph.D., M.Phil., SET	
4. Date Of Birth	02/01/1991	
5. Subject	Physics	
6. Specialisation	Material Science	
7. Caste Category Appointed From	SC	
8. UG/ PG Teacher	UG And PG	
9. Address & Contact Details	Dept. Of Physics, Jalna Education Society's R. G. Bagdia Arts, S.B. Lakhota Commerce & R. Bezonji Science College, Jalna. 431203 (M.S.)	
10. Mobile No	8308109036	
11. Email:	karansature@gmail.Com	
12. Residential Address	Row house no 3, Yogesh nagar, Ambad road, Jalna	
13. Teaching Experience	8 Years	
14. Research Area	Synthesis and DFT simulation of nanomaterials	
15. Subjects Taught	Condensed matter physics, Quantum mechanics, classical mechanics	
16. Google Scholar	https://scholar.google.com/citations?hl=en&user=LF6eLNIAAAAJ	

B. Academic Qualification:

Name Of Exam	Board/University	Passing Mon-Year	Stream/Subject	Obtained/ Total Marks	% Or Grade Point
Ph.D.	Malwanchal University	June- 2026	Physics	-	A
M.Phil	Savitribai Phule Pune University	Dec-2020	Physics	-	A
SET	State	May-2016	Physics	196/350	56%
GATE	National	Oct-2016	Physics	-	Pass
M.Sc.	Savitribai Phule Pune University	May-2014	Physics	1349/2000	67.47 %
B.Sc.	Savitribai Phule Pune University	May-2012	Physics	887/1200	73.91 %
H.S.C.	State Board of	March-2009	Science	350/600	58.33

	Maharashtra				%
S.S.C.	State Board of Maharashtra	March-2007	N.A.	467/650	71.84

C. TEACHING Experience (Subjects Taught) :

Sr. No.	Course	Paper Taughts	Name of University/ college / institution	Duration
1	B.Sc.	• Classical and quantum mechanics • Atomic, molecular physics and LASER	JES College, Jalna	8 years
2.	M.SC.	• Condensed matter physics • Quantum mechanics • Statistical mechanics	JES College, Jalna	8 years

D. Research Experience And Training:

Sr.No.	Research Stage	Title Of Work/Thesis	University
1.	M.Phi.	“Development of computer code for deconvolution of TL glow curves and DFT simulation of synthesized LiF microphosphor”	Savitribai Phule Pune University

E. Academic Staff College Orientation / Refresher Course Attended:

Sr. No.	Name Of The Course/ Summer School	Place	Duration	Sponsoring Agency
1	Orientation Course	HRDC Pune	22-Jul-2019 to 11-Aug-2019	UGC
	FDP	Savitribai Phule Pune university	27-Jul-2020 to 31-Jul-2020	UGC
2	Refresher	UGC-Human Resource Development Centre Savitribai Phule Pune university	16-11-2021 to 29-11-2021	UGC

F. Paper Presented in the Conference/Workshop/Symposium

Sr. No.	title	conference name	date	organizer
1	Biological synthesis and antimicrobial potential of Zinc Oxide Nanoparticles Using Camellia sinensis Leaf Extract	Emerging Trends in Physics and Mathematics (ETPM-2024)	05-09-2024	Anand Charitable Sanstha, Ashti's, Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada, Tal. Ashti, Dist. - Beed-414202
2	Synthesis and an-initio investigation of structural, optical and electronic properties of CuO and Zn doped CuO.	Emerging Trends in Physics and Mathematics (ETPM-2024)	05-09-2024	Anand Charitable Sanstha, Ashti's, Anandrao Dhonde Alias Babaji Mahavidyalaya, Kada, Tal. Ashti, Dist. - Beed-414202
3	Investigating the electronic properties of BaF ₂ nanoparticles for dosimetry application	National conference on modern trends in physical science research (MTPSR-2024)	20-01-2024	Balbhim College, Beed
4	Investigating the electronic properties of bulk CaF ₂ nanoparticles for dosimetry application	National conference on modern trends in physical science research (MTPSR-2024)	20-01-2024	Balbhim College, Beed
5	DFT Investigation of Electronic Structure of InGaAs/Ge for Solar Cell Application	ICAMIT (presented a paper)	11-01-2022	Milliya college Beed

G. Research Paper in Journals

Sr. No.	Title of the Research Article	Name of the Journal	vol (year)	page no	ISSN/ ISBN	Impact Factor, if any	Authors
1	Effect of Zn ²⁺ substitution on the microstructural, elastic and magnetic properties of Cu-Mg ferrite nanoparticles	Nanotechnology perceptions	20 S7 (2024)	1359-1370	1660-6795		K.R. Sature
2	Biological synthesis and	International	vol. 11	178-	print	peer	S.J. Indurkar, K.R.

	antimicrobial potential of Zinc Oxide Nanoparticles Using Camellia sinensis Leaf Extract	journal of scientific research in science and technology (IJSRST)	issue 9 (2024)	183	ISSN: 2395-6011, online ISSN: 2395-602X	reviewed	Sature
3	Synthesis and an-initio investigation of structural, optical and electronic properties of CuO and Zn doped CuO.	International journal of scientific research in science and technology (IJSRST)	vol. 11 issue 9 (2024)	461-464	print ISSN: 2395-6011, online ISSN: 2395-602X	peer reviewed	K.R. Sature, B.S. Kharat, P.M. Kokne
4	Removal of Mythelene Blue Dye with Cr ³⁺ Doped Mg-Zn Ferrites Prepared With the Use of Lemon Juice	Bioinfolet	vol 19 issue 2 (2022)	181-185	print - 0973-1431 online - 0976 - 4755	0.876	Vishal Ashok Pandit, Karankumar R. Sature, Rohit A. Gaikwad, Dipak P. Thorat, Deepak M. Sonawane, Pratik P. Raut, Vishnu V. Kutwade, Ramphal B. Sharma and Nandkishor D. Chaudhari
5	Properties of Cr Doped Ni-Zn Ferrite Nanoparticles sunthesized using Lemon Juice	Bioinfolet	vol 19 issue 2 (2022)	177-180	print - 0973-1431 online - 0976 - 4755	0.876	Vishal Ashok Pandit, Karankumar R. Sature, Dipak P. Thorat, Rohit A. Gaikwad, Deepak M. Sonawane, Pratik P. Raut, Gopichand M. Dharne, Nandkishor D. Chaudhari
6	DFT Investigation of Electronic Structure of InGaAs/Ge for Solar Cell Application	Journal of Advances in Applied Sciences and Technology	vol 8 issue 1 (2022)	33-37	2393-8188 (print) 2393-8196 (online)	UGC aproved	K. R. Sature, B. S. Kharat
7	Development of	Journal of	192	486-	0022-	3.28	K. R. Sature, B. J.

	computer code for deconvolution of thermoluminescence glow curve and DFT simulation	Luminescence	(2017)	495	2313		Patil, S. S. Dahiwale, V. N. Bhoraskar, S. D. Dhole
8	Synthesis and TSL properties of SnO ₂ :Eu nanophosphor for high gamma dosimetry	Journal of Alloys and Compounds	695 (2017)	1918-1923	0925-8388	1.512	Mahesh S. Bhadane, S. S. Dahiwale, K. R. Sature, B. J. Patil, N. T. Mandlik, V. N. Bhoraskar, S. D. Dhole
9	TL studies of a sensitive CaNa ₂ (SO ₄) ₂ :Dy nanophosphor for gamma dosimetry	Radiation Measurement	96 (2017)	1-7	1350-4487	4.65	Mahesh S. Bhadane, S. S. Dahiwale, K. R. Sature, B. J. Patil, V. N. Bhoraskar, S. D. Dhole
10	A highly sensitive CaF ₂ :Dy nanophosphor as an efficient low energy ion dosimetry	Nuclear Instruments and Methods in Physics Research B	386 (2016)	61-69	0168-583X	1.279	Mahesh S. Bhadane, K. Hareesh, S. S. Dahiwale, K. R. Sature, B. J. Patil, K. Asokan, D. Kanjilal, V. N. Bhoraskar, S. D. Dhole
11	CaSO ₄ :Dy microphosphor for thermal neutron dosimetry	Journal of Luminescence	170 (2016)	226-230	0022-2313	3.28	Mahesh S Bhadane, Nandakumar Mandlik, B. J. Patil, S. S. Dahiwale, K. R. Sature, V. N. Bhoraskar, S. D. Dhole

H. Extension activities:

- 1) Worked as Under study for various University examinations.
- 2) Officer in D CAS-Centre of Jalna District at JES College Jalna.
- 3) Worked as member of Paper setting Committee of Msc. Exam
- 4) Worked as NSS Officer

- 5) Life member of Indian Science Congress
- 7) Department Coordinator of Avishkar 2017-18.
- 8) Student counseling for SET/ NET and other competitive examination
- 9) Participation in campus cleaning, Tree plantation, Blood donation camp.