

RESUME



NAME	Dr. VIKAS GULHARE
QUALIFICATION	M.Sc. , M.phil, Ph.d, PGDCA
DESIGNATION	Assistant Professor physics and Head of Department
OFFICE ADDRESS	Department of Physics, Govt. G. N. A. P. G. College, Bhatapara (C.G.), PIN-493118
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RESEARCH EXPERIENCES : 14 Years

**RESEARCH BROAD AREA : SOLID STATE
PHYSICS**

**SPECIALIZATION : LUMINESCENCE
MATERIALS**

TEACHING EXPERIENCE : UG-21 yrs PG- 12 yrs

BOARD MEMBERSHIP:

S.No.	INSTITUTE NAME	BOARD	REMARK
1	C.G. STATE GOVT.	CENTRAL BOARD OF STUDY PHYSICS	DESIGN STATE GOVT. PHYSICS SYLLABUS ACCORDING WITH NEP
2	IJSR OPEN ACCESS	EDITORIAL MEMBER	PAPER REVIEWED

PATENT:

S.No.	TOPIC
1	A novel adsorbent material for the removal of heavy metals from industrial wastewater using chitosan and activated carbon Nanoparticles

LIST OF PAPER PUBLICATIONS:

- 06 Papers Published in International Journal
- 01 Paper Published in Indian Journal
- 03 Papers Published in International Conferences
- 10 Papers Published in National Conferences
- 02 Abstract Published in National Conferences

LIST OF PAPER PUBLISHED AND PRESENTED:

S. No.	Date	Topic	Vol./Page No.
1	Feb. 2005	Lyoluminescence of gamma irradiated sodium bromide samples. M. Banerjee, M. Mehta, Vikas Gulhare , R.S. Kher and M. S. K. Khokhar	Vol: XII pp. 430-432

S. No.	Date	Topic	Vol./Page No.
		Paper presented in national conference on luminescence and its applications, NCLA 2005 held at Bangalore university, Bangalore Paper published in proceeding of NCLA 2005.	NC
2	Jan. 2006	Similarities in mechano, thermo and lyoluminescence of gamma irradiated sodium chloride. R.S. Kher, M. Mehta, Vikas Gulhare and Awanish Upadhyay. Paper published in proceeding of national conference on recent trends in nanoscience NS-2006, held at Kamala Nehru College, Nagpur (MH)	pp. 157-161 NC
3	Jan. 2006	Mechanoluminescence of gamma irradiated Sm and Eu doped CaSO ₄ phosphors. R.K. Pandey, R.S. Kher, A. Upadhyay, Vikas Gulhare and S.J. Dhoble Paper published in proceeding of national conference on recent trends in nanoscience NS-2006, held at Kamala Nehru College, Nagpur (MH)	pp. 142-145 NC
4	18-20 Jan 2007	Impulsive excitation of mechanoluminescence characterization of gamma irradiated Mg(VO ₃) ₂ :Ce phosphors. Vikas Gulhare , A.Upadhyay, S.J. Dhoble and R.S. Kher Paper published in proceeding of NCLA 2007, Bharathiar University Coimbatore (TN)	pp. 385-387 NC
5	18-20 Jan 2007	Lyoluminescence in MgSO ₄ :Dy ³⁺ phosphors. A.Upadhyay, Vikas Gulhare , P.B. Dahikar, S.J. Dhoble and R.S. Kher Paper published in proceeding of NCLA 2007, Bharathiar University Coimbatore (TN)	pp. 394-396 NC
6	2007	Lyoluminescence and photoluminescence in KNaSO ₄ :Tb ³⁺ phosphors. <u>A.Upadhyay</u> , Vikas Gulhare , R.Rai, M.Mehta, S.J.Dhoble and R.S.Kher National Conference on Advances in Electronic Materials and Devices, AEMD 2007, Held at Guru Ghasidas university Bilaspur (CG)	NC

S. No.	Date	Topic	Vol./Page No.
7	13-16 Feb 2008	Luminescence studies in $K_2Ca_2(SO_4)_3:Eu$ phosphors. A K Upadhyay, Vikas Gulhare , S J Dhoble, R S Kher and M S K Khokhar, Paper presented in International conference on luminescence and its applications ICLA 2008, held at NPL New Delhi.(Abstract published.)	pp. 210-213 INC
8	13-16 Feb 2008	Luminescence characterization of gamma irradiated Ce doped barium orthovanadate phosphors. Vikas Gulhare , A. K. Upadhyay, S. J. Dhoble, R. S. Kher and M. S. K. Khokhar Paper presented in International conference on luminescence and its applications ICLA 2008, held at NPL New Delhi. Paper published	pp 167 INC
9	2008	Effect of deformation on thermoluminescence in $BaSO_4:Dy$ phosphors. R. S. Kher, A. K. Upadhyay, Vikas Gulhare , S. J. Dhoble and M. S. K. Khokhar Paper presented in Tenth conference of international academy of physical sciences, CONIAPS-X 2008 held at Guru Ghasidas University Bilaspur(C.G.)	NC
10	19-21 Feb 2009	Mechanoluminescence characterization of gamma irradiated $Ba_3(VO_4)_2:Eu$ phosphors. Vikas Gulhare , A K Upadhyay, S J Dhoble, R S Kher and M S K Khokhar Paper presented and published in national conference on luminescence and its applications, NCLA 2009 held at Kolkata.	NC
11	19-21 Feb 2009	Mechanoluminescence and thermoluminescence characterization of gamma irradiated Eu doped $MgSO_4$ phosphors. A.K. Upadhyay, Vikas Gulhare , R.Rai, S.J. Dhoble and R.S. kher Paper presented in national conference on luminescence and its applications, NCLA 2009 held at Kolkata. Paper published in proceeding of NCLA 2009	pp 152-155 NC
12	June 2011	Effect of deformation on thermoluminescence of $BaSO_4:Tb$ phosphors.	pp 382-384

S. No.	Date	Topic	Vol./Page No.
		A.K.Upadhyay, Vikas Gulhare , S.J.Dhoble and R.S.Kher Published in Indian Journal of Pure and Applied Physics (Vol.4)	IJ
13	18 Dec 2010	Impulsive excitation of mechanoluminescence in γ -irradiated Eu activated $\text{Sr}(\text{VO}_3)_2$ phosphors. Vikas Gulhare , A K Upadhyay, S J Dhoble and R S Kher Proc. Nat. Conf. on Novel Materials and their Applications(NCNMA-2010), Organized by Nilkanthrao Shinde Science and arts College, Bhadrawati, Nagpur(MH), India	pp 67-69 NC
14	7-9 Feb 2011	Mechanoluminescence characterization of γ -irradiated Ce activated $\text{Sr}(\text{VO}_3)_2$ phosphors. Vikas Gulhare , A. K. Upadhyay, R. S. Kher, S. J. Dhoble and M.S.K. Khokhar Paper presented in national conference on luminescence and its applications, NCLA 2011 held at Raipur(C.G.).	pp-75 NC
15	June 2017	Impulsive Excitation of Mechanoluminescence in gamma irradiated $\text{Sr}(\text{VO}_3)_2$: Tb phosphors. Vikas Gulhare , Preeti Soni, R. S. Kher and S. J. Dhoble Paper published in an international peer review NSS research journal ISSN 2320-8767,E-ISSN 2394-3793 Impact Factor-4.710(2016) Vol.I	pp 39-42 INJ
16	4-5 Aug 2018	Mechanoluminescence and Thermoluminescence characterization of gamma irradiated Eu Doped Magnesium Metavanadate Phosphors. Vikas Gulhare , R. S. Kher and S. J. Dhoble Paper presented in International conference on innovative research in science management and technology organized by Bilaspur University, Bilaspur (C.G.) in collaboration with University of Maryland and Frostburg University, Frostburg USA Review of Business and technology research, Vol. 15, No. 3, 2018, ISSN 1941-9406(print), 1941-9414(CD)	pp 316-319 INJ

S. No.	Date	Topic	Vol./Page No.
17	17-18 Jan 2020	LUMINESCENCE CHARACTERIZATION OF Tb DOPED Ca(VO ₃) ₂ PHOSPHORS Vikas Gulhare¹, R. S. Kher² and S. J. Dhoble³ Paper presented and Abstract published in National seminar on advanced materials for sustainable and social application (NSAMSISA) organized by Govt. Pt. S. S. college Dharsiva ,Raipur (C.G.)	P 38 NC
18	26/06 /2021	MECHANOLUMINESCENCE CHARACTERIZAON OF GAMMA IRRADIATED Tb DOPED Mg(VO ₃) ₂ PHOSPHORS Vikas Gulhare¹, R. S. Kher² and S. J. Dhoble³ Paper presented and Abstract published in National seminar on Characterization and processing of Advanced Materials (NSCPAM 2021) organized by Govt. Pt. S. S. college Dharsiva ,Raipur (C.G.)	Poster presentation NC
19	7 th July 2021	MECHANOLUMINESCENCE CHARACTERIZAON OF GAMMA IRRADIATED Tb DOPED Mg(VO ₃) ₂ PHOSPHORS Vikas Gulhare¹, R. S. Kher² and S. J. Dhoble³ Paper published in an international peer review International Journal of Science and research Volume 10 Issue 7 th July2021,ISSN:2319-7064, SJIF(2020):7.803	P 192-196 INJ
20	April to June 2021	LUMINESCENCE CHARACTERIZATION OF Tb DOPED Ca(VO ₃) ₂ PHOSPHORS Vikas Gulhare¹, R. S. Kher² and S. J. Dhoble³ Paper published in an international peer review NSS research journal ISSN 2320-8767,E-ISSN 2394-3793 Impact Factor-6.780(April to June 2021) Vol.I,Issue-XXXIV	P 35-37 INJ
21	April to June 2021	Impulsive excitation of mechanoluminescence in γ -irradiated Mg(VO ₃) ₂ : Ce phosphors Vikas Gulhare¹, S.J. Dhoble² and R.S. Kher³ Paper published in an international peer review NSS research journal ISSN 2320-8767,E-ISSN 2394-3793 Impact Factor-6.780(April to June 2021) Vol.I,Issue-XXXIV	 INJ

S. No.	Date	Topic	Vol./Page No.
22	Sept. 2021	LUMINESCENCE CHARACTERIZATION OF γ -IRRADIATED Ce DOPED BARIUM ORTHOVANADATE PHOSPHORS Vikas Gulhare¹, R. S. Kher² and S. J. Dhoble³ Paper published in an international peer review International Journal of Science and research Volume 10 Issue 7 th July 2021, ISSN:2319-7064, SJIF(2020):7.803	INJ

LIST OF WORKSHOP, SEMINAR AND CONFERENCES ATTENDED:

1	Workshop on Experimental Physics for College Teachers, 7-9 Aug 2003 Organized by C. M. D. College Bilaspur (CG).
2	National Conferences on Luminescence and its Applications NCLA-2005 Organized by Bangalore University and luminescence society of India.
3	Fourth Young Scientists Congress, 28Feb-1Mar 2006 Organized by Indira Gandhi Agricultural University, Raipur (CG)
4	National conference on Recent Trends in Nanoscience NS-2006 Organized by Kamla Nehru Mahavidyalaya, Nagpur (MH) and Luminescence society of India (Maharashtra chapter)
5	National Conference on Advances in Electronic Materials and Devices AEMD-06, Organized by Guru Ghasidas University, Bilaspur (CG)
6	National Conference on Novel Materials and Their Applications (NCNMA- 2010), Organized by Nikantrao Shinde Science and Arts College, Bhadrawati, Nagpur (MH)

7	National Conferences on Luminescence and its Applications NCLA-2011 Organized by Pt. Ravishankar Shukla University, luminescence society of India and Disha Institute of Management and Technology Raipur (C.G.).
8	CGCOST sponsored of VIMARSH national conference on 12-13 Sept 2013, Chouksey engineering college Bilaspur(C.G.)
9	Three days workshop from 25-27 Jan 2013 on Training of course writer for self learning material development organized by MATS institute of Open and distance learning, Raipur(C.G.)
10	National seminar on energy harvesting materials and techniques for sustainable development energy -2015, organized by department of physics, Govt. V.Y. T. P.G. College, Durg (C.G.)
11	One day work shop on new education policy, under the project of RUSA 07 Oct. 2015 organized by Bilaspur University , Bilaspur (C.G.)
12	One day seminar on Process of NAAC Accreditation of Colleges, under the project of RUSA 04 Dec. 2015 organized by Govt. D. K. P.G. College Baloda-Bazar (C.G.)-493332
13	National Conferences on Luminescence and its Applications NCLA-2016 Organized by R.T. M. University Nagpur and luminescence society of India.
14	National seminar sponsored by UGC on Sustainable routes out of poverty past experiences and future challenges organized by Economics Department, Govt. G. N. A. P. G. College, Bhatapara (C.G.) on 25-26 Feb 2016
15	Enhancing 21 st Century Competencies Sponsored by UGC organized by T.C. L. Govt. P.G. College Janjgir(C.G.) India
16	One day national seminar on class room teaching 22 July 2017 sponsored

	by indian association of physics teachers held at Dr. C.V. Raman University Kota Bilaspur (C.G.) India
17	National conference on advances in nano technology and their applications(NCANA) 27 nov 2017 organized by GD-rungta college of engineering and technology, Bhilai, India
18	One day workshop on development of self learning material organized by Pt. Sundarlal Sharma Open University Chhattisgarh 10 th july 2018
19	International conference on innovative research in science management and technology organized by Bilaspur University, Bilaspur (C.G.) INDIA in collaboration with University of Maryland and Frostburg University, Frostburg USA 4-5 August 2018
20	NAAC awareness workshop “ quality and excellence in higher education preparation of SSR as per revised accreditation framework” organized by IQAC cell AVB University Bilaspur(C.G.) 26-27 July 2019
21	National seminar on recent trends in environmental issues organized by D.P. Vipra college Bilaspur(C.G.) 14 Oct. 2019
22	Paper presented and Abstract published in National seminar on advanced materials for sustainable and social application (NSAMSISA) organized by Govt. Pt. S. S. college Dharsiva ,Raipur (C.G.) 17-18 Jan 2020
23	Paper presented and Abstract published in National seminar on “ characterization and processing of advanced materials (NSCPAM-2021) organized by Govt. Pt. S. S. college Dharsiva ,Raipur (C.G.) 26 Jun 2021
24	Participation in International webinar organized by Kalyan post graduate college, Bhilai Nagar c.g. on “Energy and Environment” from 4-6 june 2021
25	One day national webinar on “ Nuclear radiation for societal applications” On 07/09/2021 organised by department of physics and IQAC, Dada patil mahavidyalaya, Karjat (MS) India.
26	Virtual one week workshop on Advanced characterization tools: Fundamentals & applications jointly organized by Govt. Pt. S. S. college Dharsiva ,Raipur (C.G.) & C.V. Global university, Bhubneshwar Orissa 16 th -21 st may 2022
27	International webinar on breaking barrier in science jointly organized by kamla Nehru mahavidyalaya, Nagpur and ACT Mumbai(MH) 14Feb. 2023

INVITED LECTURE

11/03/2017	Govt. S. V.S College,Bilaigarh(C.G.)	One day workshop on NAAC Accreditation and Educational Quality
26/11/2016	D.L.S. P.G. College Bilaspur C.G.	Semiconductor devices and application(Department of Physics)
Feb 2019	Govt. G.N.A. P.G. Bhatapara C.G.	Environmental issues (Department of Economics)
Nov. 2021	Govt. G.N.A. P.G. Bhatapara C.G.	Quantum Chemistry (Department of Chemistry)
11/10/2022	Govt. G.N.A. P.G. Bhatapara C.G.	Solid state theory and crystallization (Department of Chemistry)
22/02/2023	Govt. Ptaleshwar ollege Masturi C.G.	Basic application of semiconductor devices (Department of Physics)
12/12/2023	Govt. Polytechnique College Bhatapara C.G.	Basic physics (Electrical and civil branch)

ACADEMIC ACTIVITY/OP/RP/FDP PROGRAMME:

Date	Program Name	Sponsored By
30/05/2016 to 25/06/16	Orientation	UGC-MHRD in GGV, Bilaspur(CG)- 495009
15/02/2021 to 27/02/2021	Refresher	UGC-MHRD in GGV, Bilaspur(CG)- 495009
09/08/2021 to 13/08/2021	Faculty Development program	Mahatma Gandhi Institute of technology, Hyderabad,Telangana PIN-500075
25/04/2022 to 30/04/2022	Faculty Development program	Sanskriti school of engineering,Puttaparthi
02/05/2022 to 07/05/2022	Faculty Development program	Kamla Nehru Mahavidyalaya, Nagpur(MH)
23/05/2022 to 28/05/2022	Faculty Development program	Kamla Nehru Mahavidyalaya, Nagpur(MH)
12/12/2022 to 26/12/2022	Refresher	UGC-HRDC in PRSU, Raipur(C.G.)-PIN-492010
20/05/2023	Faculty Development program	PRISM Group of Institutions Bhilai(C.G.)
10/06/2023	Faculty Development	PRISM Group of Institutions

Date	Program Name	Sponsored By
	program	Bhilai(C.G.)
12/10/2023 to 19/10/2023	Faculty Development program	Govt. K.R.M. P.G. Mahavidyalaya Rajnandgaon (C.G.)
07/10/2023 to 14/10/2023	Faculty Development program	I.G. Govt. P.G. College, Vaishali Nagar Bhilai(C.G.)

BOOK PUBLISHED:

01	General Physics-I, B. Sc. First year CS Open and distance learning program, MATS University Aarang Raipur (C.G.), PIN-493441	Publisher ISBN-NO. :978-93-82945-13-0
02	B. Sc. Part-III physics practical book for Pt. Sundarlal Sharma open university, Bilaspur(C.G.)	ISBN-NO. :978-93-91965-67-9
03	B. Sc. First year Physics Text book, Prabodh Publication Raipur C.G.	ISBN-NO. :978-81-924547-5-7
04	B. Sc. First year Physics Practical book, Prabodh Publication Raipur C.G.	ISBN-NO. :978-81-924547-5-7
05	M. Sc. Previous Physics Paper-IV Electronics SLM book for Pt. Sundarlal Sharma open university, Bilaspur(C.G.)	Awaited
06	M. Sc. Previous Physics Paper-I Mathematical Physics SLM book for PSSOU university, Bilaspur(C.G.)	Awaited

PAPER REVIEW:

01	Synthesis and luminescence characterization of a new yellowish-orange phosphors: $Ba_3B_{10}O_{17}:Sm^{3+}$	Luminescence: The journal of biological and chemical luminescence
02	Dielectric and Piezoelectric properties of Sr based Ceramic	International Journal of Science and research (Open Access)

COLLEGE ACTIVITY:

S.No.	Committee	Responsibility
1	Loksewa guarantee Cell	Incharge
2	RUSA Cell	Member
3	IQAC Cell	Ex. Coordinator
4	UGC Cell	Incharge
5	Canteen Committee	Member
6	Cycle Stand Committee	Member
7	Janbhagidari Committee	Member
8	Electric Maintenance	Member
9	Sport Committee	Member
10	NAAC Committee	Incharge
11	Planning Board	Member
12	Computer Department PGDCA	Assistant Coordinator
13	Admission Committee	Member
14	Placement Cell	Member
15	Student life cycle management	Nodal officer
16	New education policy	Nodal officer
17	Building Extension Committee	Incharge
18	Grievance Redressal cell	Member
19	PGDCA committee	Member

PARTICIPATION IN COLLEGE PROGRAM:

S. No.	Conduct Program Detail	Organized Date
1	Workshop sponsored by RUSA	03 Mar.2016
2	Workshop sponsored by RUSA	06 Jul. 2016
3	Extension Lecture-02 (Department of Physics)	21 Dec. 2015 29 Dec. 2015
4	Educational Tour for UG level students visit Science center Raipur(C.G.)	05 Feb 2016
5	Seminar sponsored by UGC in Economics Department	25-26 Feb. 2016

6	Workshop sponsored by UGC in Chemistry Department	05-06 Aug. 2016
7	Placement organized by Kotak Mahindra Bank	05 May. 2016
8	Visit SEDI for skill development, ACF bhatapara(c.g.)	2019
9	Visit Shree cement plant, Khapradeeh, Baloda- Bazar	2019
10	Online Quiz Competition organized by Department of physics	March 2021
11	One day national webinar in recent advances in chemistry organized by IQAC and Chemistry department	26/07/2021
12	Skill development program by SEDI	Feb. 2022
13	Skill development program by SEDI	15/12/2023

(Dr. Vikas Gulhare)