



## Curriculum Vitae

### Contact Information

Name : Dr. Chetan Joshi  
Address (Correspondence) : House No. - 48, Laajpat Nagar, Nainital Mini Bypass Road, Bareilly,  
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263642, India.  
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### Personal Information

Date of Birth : 25-Feb.-1986  
Place of Birth : Bageshwar, Uttarakhand (UK), India.  
Citizenship : Indian  
Gender : Male  
Marital Status : Single

### Educational Qualification

Degree	Board/University	Subjects	Year	Marks (in %)	Division
Post Doctoral Fellow	University of Delhi, Delhi	Physics	2014	—	—
Ph.D.	Banaras Hindu University, Varanasi, U.P.	Physics**	2012	—	—
Post Graduation	G.B. Pant University of Ag. & Tech., Pant Nagar, U.S. Nagar, Uttarakhand	Physics*	2007	1377/1800 76.19	First
Under Graduation	M.J.P. Rohilkhand University, Bareilly, U.P.	Physics, Chemistry, Mathematics	2005	818/1350 60.59	First
Intermediate	U.P. Board	General Hindi, English, Physics, Chemistry, Mathematics	2002	334/500 66.8	First

<b>High School</b>	U.P. Board	Hindi, English, Mathematics, Science, Soc. science, Sanskrit	2000	425/600 70.8	First
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\*\*Awarded Ph.D. degree on the topic “**A study on structural and optical properties of rare earth doped glassy, glass-ceramic and phosphor materials**” under the supervision of Prof. S.B. Rai, Deptt. of Physics, B.H.U., Varanasi- 221005.

\*M.Sc. thesis Title is “**Studies of various equations of states under high pressure**”.

## Publications

1. Upconversion and anomalous power dependence in  $\text{Ca}_{12}\text{Al}_{14}\text{O}_{33}:\text{Er}^{3+}/\text{Yb}^{3+}$  single phase nanophosphor, **C. Joshi**, K. Kumar and S.B. Rai, **Journal of Applied Physics** 105, 123103 (1-7), 2009. ISSN: 0021-8979, E-ISSN: 1089-7550. Impact Factor: 2.259.
2. Intense white luminescence from combustion synthesized  $\text{Ca}_{12}\text{Al}_{14}\text{O}_{33}:\text{Yb}^{3+}/\text{Yb}^{2+}$  single phase phosphor, **C. Joshi**, K. Kumar and S.B. Rai, **Journal of Fluorescence** 20, 953-959, 2010. ISSN: 1053-0509 (Print) 1573-4994 (Online). Impact Factor: 1.667.
3. Effect of  $\text{ZnX}$  ( $\text{X} = \text{F}_2$  and  $\text{Cl}_2$ ) as modifier on luminescence properties of  $\text{Ho}^{3+}/\text{Yb}^{3+}$  doped tellurite glasses, **C. Joshi**, K. Kumar and S.B. Rai, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy** 79, 127-130, 2011. ISSN: 1386-1425. Impact Factor: 2.129.
4. Structural and optical properties of  $\text{Ho}_2\text{TeO}_6$  micro-crystals embedded in tellurite matrix, **C. Joshi**, Y. Dwivedi and S.B. Rai, **Ceramics International** 37, 2603-2608, 2011. ISSN: 0272-8842. Impact Factor: 2.086.
5. Effect of ZnO as modifier on up and downconversion properties of  $\text{Ho}^{3+}/\text{Yb}^{3+}$  doped tellurite glasses, **C. Joshi**, K. Kumar and S.B. Rai, **Optics Communications** 284, 4584-4587, 2011. ISSN: 0030-4018, Impact Factor: 1.542
6. Colour tunable emission from  $(\text{Gd}_x\text{Y}_{1-x})_2\text{O}_3:\text{Er}^{3+}, \text{Yb}^{3+}$  phosphor prepared by combustion method, **C. Joshi**, A. Rai, Y. Dwivedi and S.B. Rai, **Journal of Luminescence** 132, 806-810, 2012. ISSN: 0022-2313, Impact Factor: 2.367.
7. Structural, thermal, and optical properties of  $\text{Er}^{3+}/\text{Yb}^{3+}$  co-doped oxyhalide tellurite glasses, glass-ceramics and ceramics, **C. Joshi**, R.N. Rai and S.B. Rai, **Journal of Quantitative Spectroscopy and Radiative Transfer**, 113, 397-404, 2012. ISSN: 0022-4073, Impact Factor: 2.288.
8. Structural, thermal, and optical properties of  $\text{Pr}^{3+}/\text{Yb}^{3+}$  co-doped oxyhalide tellurite glasses and its nano- crystalline parts, **C. Joshi** and S.B. Rai, **Solid State Sciences** 14, 997-1003, 2012. ISSN: 1293-2558, Impact Factor: 1.679.
9. Structural morphology, upconversion luminescence and optical thermometric sensing behavior of  $\text{Y}_2\text{O}_3:\text{Er}^{3+}/\text{Yb}^{3+}$  nano-crystalline phosphor, **C. Joshi**, A. Dwivedi and S.B. Rai,

**Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy** 129 451-456, 2014. ISSN: 1386-1425. Impact Factor: 2.129.

10. Effect of heat treatment on structural, thermal and optical properties of Eu<sup>3+</sup> doped tellurite glass: Formation of glass-ceramic and ceramics, A. Dwivedi, C. Joshi and S.B. Rai, **Optical Materials** 45, 202-208, 2015. ISSN: 0925-3467. Impact Factor: 2.075.

### **SERC Schools/Conferences/Symposiums/Seminars**

1. “SERC School on Laser Spectroscopy and applications in Science and Technology” at Bhabha Atomic Research Centre (BARC), Mumbai dated November, 3-21<sup>st</sup>, 2008.
2. “National Symposium on advances in Laser and Spectroscopy-2009” at Dr. Hari Singh Gour University, Sagar, (M. P.) dated February, 27-28<sup>th</sup>, 2009.
3. “Meghnad Saha Memorial Symposium on Emerging trends in Laser & Spectroscopy and applications” at University of Allahabad, Allahabad, (U.P.) dated March, 23-25<sup>th</sup>, 2009.
4. “National Symposium on synthesis, characterization and applications of technologically important materials (SCATIM-2010)” at Banaras Hindu University, Varanasi (U.P.) dated January, 5-6<sup>th</sup>, 2010.
5. “Ninth DAE-BRNS National Laser Symposium (NLS-09)” at Bhabha Atomic Research Centre (BARC), Mumbai dated January, 13-16<sup>th</sup>, 2010.
6. “Workshop on Chemometrics/Techniques in vibrational spectroscopy” at Deptt. of Physics, Banaras Hindu University, Varanasi (U.P.) dated February, 20<sup>th</sup>, 2010.
7. “International conference on perspectives in vibrational spectroscopy (ICOPVS-2010)” at Deptt. of Physics, Banaras Hindu University, Varanasi (U.P.) dated February, 21-24<sup>th</sup>, 2010.
8. “3<sup>rd</sup> One day conference on new trends in research” at Deptt. of Physics, Banaras Hindu University, Varanasi (U.P.) dated March, 30<sup>th</sup>, 2010.
9. “National Conference on Experimental Tools for Material Science Research: State of Art” at Deptt. of Physics, MMV, Banaras Hindu University, Varanasi (U.P.) dated December, 3- 4<sup>th</sup>, 2010.
10. “International workshop and conference on Multifunctional Materials- 2010 (ICMM- 2010)” at Deptt. of Physics, Banaras Hindu University, Varanasi (U.P.) dated December, 6, 7-9<sup>th</sup>, 2010.
11. “Meghnad Saha Memorial International Symposium-cum-workshop on Laser Induced Breakdown Spectroscopy” at Deptt. of Physics, Banaras Hindu University, Varanasi (U.P.) dated December, 21-23<sup>rd</sup>, 2010.

12. “4<sup>th</sup> One day conference on new trends in research” at Deptt. of Physics, Banaras Hindu University, Varanasi (U.P.) dated March, 03<sup>rd</sup>, 2011.
13. “National Conference on Recent Trends in Materials Science (RTMS-2011)” at Deptt. of Physics, Jaypee University of Information Technology, Solan, H.P., dated October 08-10<sup>th</sup> 2011.
14. “National Symposium on Advanced Functional Materials (NSAFM-2012) at Deptt. of Chemistry, Banaras Hindu University, Varanasi (U.P.) dated February, 11-12, 2012.
15. “5<sup>th</sup> One day conference on new trends in research” at Deptt. of Physics, Banaras Hindu University, Varanasi (U.P.) dated February, 25<sup>th</sup>, 2012.
16. “International Conference on Advances in Materials and Processing: Challenges and Opportunities (AMPCO 2012)” at Department of Metallurgical and Materials Engineering, Indian Institute of Technology Roorkee, Roorkee-247667, India dated November, 2-4, 2012.
17. “6<sup>th</sup> One day conference on new trends in research” at Deptt. of Physics, Banaras Hindu University, Varanasi (U.P.) dated December, 20<sup>th</sup>, 2012.
18. “Indo-US international workshop on spectroscopy: application to national security” at Deptt. of Physics, Banaras Hindu University, Varanasi (U.P.) dated January, 18-20<sup>th</sup>, 2013.

### **Memberships**

1. Life time membership of Laser and Spectroscopy Society of India (LASSI), Membership no. 1696/83-84.
2. Life time membership of Indian Science Congress Association (ISCA), Membership no. L-15846.
3. Life time membership of Indian Laser Association (ILA), Membership no. LM931.

### **Scholarships and awards**

1. Assistantship of Under Graduate Lab during M.Sc. (from January 2006 to June 2007) in G.B. Pant University of Ag. & Tech., Pant Nagar, Uttarakhand-263145.
2. UGC Research Fellowship during research (from 30<sup>th</sup> January, 2008 to 12<sup>th</sup> July, 2009) in Banaras Hindu University, Varanasi (U.P.).
3. UGC Research Fellowship in Science for Meritorious Students (RFSMS) (from 13<sup>th</sup> July, 2009 to 31<sup>st</sup> March, 2011).
4. CSIR-Senior Research Fellowship (SRF) (from 1<sup>st</sup> April, 2011 to 31<sup>st</sup> March, 2013).
5. Dr. D.S. Kothari Post-Doctoral Fellowship (DSKPDF) of UGC (from 26<sup>th</sup> April, 2013 to 25<sup>th</sup> April, 2014).

## Job Experience

S. No.	Academic Session	Date of Joining	Last Working Day	Place of Working
1.	2024-2025	07 <sup>th</sup> August, 2024	Till date	G.D.C. Tanakpur
2.	2020-2024	15 <sup>th</sup> October, 2020	27 <sup>th</sup> July, 2024	M.B.G.P.G.C. Haldwani
3.	2018-2020	25 <sup>th</sup> October, 2018	31 <sup>st</sup> July, 2020	G.P.G.C. Lohaghat
4.	2016-2018	20 <sup>th</sup> February, 2016	25 <sup>th</sup> June, 2018	Graphic Era Hill University, Bhimtal

## References

### 1. Prof. S.B. Rai,

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### 2. Prof. R. N. Rai, Deptt. of Chemistry, B.H.U., Varanasi- 221005,

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### 3. Dr. H. Mishra, MMV, B.H.U., Varanasi- 221005.

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## Declaration

I, hereby, declare that all the information given above is true.

Chetan Joshi