**BIO-DATA**

1. Name and full correspondence address: Dr. G. Nag Bhargavi

10/144 Santoshi Nagar, Near - Nagar Nigam office Khamtarai, Raipur, (CG)

1. Email id and contact number(s): bhargavi.nag24@gmail.com, 9981373012
2. Institution: Govt. Pt. Shyamacharan Shukla College Dharsiwa, Raipur (CG)
3. Date of Birth: 24.07.1983
4. Gender (M/F/T): Female
5. Category Gen/SC/ST/OBC: General
6. Designation: Assistant Professor (Academic level -10)
7. Academic Qualification (Undergraduate Onwards)

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| --- | --- | --- | --- | --- | --- | --- |
| S. No. | Degree | Year | Subject | University/Institution | % of marks | Distinctions etc.  |
| 1 | B. Sc.  | 2004 | Maths, Physics, Chemistry | Guru Ghasidas University, Bilaspur, (CG) | 68.5% | - |
| 2 | M. Sc. | 2006 | Physics | Guru Ghasidas University, Bilaspur, (CG) | 70.2% | 3rd rank in university |
| 3 | M. Phil. | 2007 | Physics | Guru Ghasidas University, Bilaspur, (CG) | 74.5% | 1st rank in university |
| 4 | Ph. D. | 2018 | Physics | National Institute of Technology, Raipur, (CG) |  |  |

1. Ph.D thesis title, Guide’s Name, Institute/Organization/University, Year of Award:

**Investigation of structural, electrical and optical behavior of rare-earth doped Barium Zirconium Titanate (BZT) perovskite-type compounds.**

**Guide: Dr. Ayush Khare**

**Co- Guide:** Dr. Nameeta Brahme

Institute: National Institute of Technology, Raipur (CG)

Year of Award: March, 2018

1. Work experience (in chronological order)

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| --- | --- | --- | --- | --- | --- |
| S.No. | Positions held | Name of the Institute | From | To | Pay Scale |
| 1 | Asst. Professor | Govt. Pt. Shyamacharan Shukla College Dharsiwa, Raipur, Chhattisgarh | 29.07.2016 | Till now | Academic level 10 |
| 2 | Asst. Professor | J P Mishra Govt. Science College, Mungeli, Chhattisgarh | 22.11.2012 | 28.07.2016 | Rs.15600- Rs.39100 |
| 3 | Guest faculty | Govt. GNA PG college Bhatapara, Chhattisgarh | 26.09.2011 | 09.03.2012 | Rs. 15600 (consolidated) |
|  |  |  |  |  |  |
| 4 | Asst. Professor (Contractual basis) | Mahatma Gandhi Govt. College Kharsia, Chhattisgarh | 01.10.2010 | 31.05.2011 | Rs. 18840 (Consolidated) |
| 5 | Asst. Professor (Contractual basis) | Indrajeet Singh Govt. College Akaltara, Chhattisgarh | 13.09.2007 | 30.04.2010 | Rs. 12800 (Consolidated) |

1. Total teaching experience: UG- 9 years as regular faculty

 PG- nil

1. Specialization: Condensed matter Physics
2. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received at International/National/State/University level

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| --- | --- | --- | --- |
| S.No | Name of Award | Awarding Agency | Year |
| 01. | Chhattisgarh Young Scientist Award in Physics discipline | Chhattisgarh Council of Science and Technology | 2018 |
| 02. | Chhattisgarh Young Scientist Award in Physics discipline (First Runner)  | Chhattisgarh Council of Science and Technology | 2017 |
| 03. | Best Poster Competititon(in National Seminar) | Govt. Digvijay PG Autonomous college Rajnandgaon (CG)  | 2018 |
| 04. | Best Research Paper Award(in National Seminar) | Dr. Radhabai Naveen Kanya Mahavidyalaya, Raipur, (CG) | 2015 |
| 05 | Sadbhavan Naari Shakti Samman | Sadbhavana Sahitya Sansthan, Raipur (CG) | 2018 |
| 06 | Young Researcher Award 2021 | Institute of Scholars, Bangaluru, Karnataka | 2021 |

1. Members in different committees/ boards etc.: (i) Departmental Research committee, Department of physics, Pt. Ravishankar Shukla University Raipur (CG)

(ii) Departmental Research committee, Department of physics, Govt. Nagarjun PG Science College Raipur (CG)

1. Membership of academic associations: (i) Professional membership- Institute of Scholars, Bangaluru, Karnataka

(ii) Life member- Luminescence Society of India, Baroda, Gujrat

1. Orientation program/ Refresher course/ short term course/ workshop

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| --- | --- | --- | --- |
| S.No | Name of program | Name of academic staff college | Duration |
| 1 | Orientation Program | Academic Staff College, Guru Ghasidas Vishwavidyala, Bilaspur (CG) | 19th May. 2014- 14th Jun. 2014 |
| 2 | Refresher Course | Academic Staff College, Guru Ghasidas Vishwavidyala, Bilaspur (CG) | 13th Jun. 2016- 2nd Jul. 2016 |
| 3 | Short term course on Recent trends in Materials Science II | Department of Physics, National Institute of Technology, Raipur, (CG) | 30th Sep.- 4th Oct. 2013 |

1. Research experience: 02 years (after Ph.D)

Ph.D awarded-nil

Ph.D registered-02

*Details of scholars whose degree is awarded*

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| --- | --- | --- | --- |
| S. No | Name of the scholar | Year of award | Title of the thesis |
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*Details of registered scholars*

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| --- | --- | --- |
| S. No | Name of the scholar | Status |
| 1 | Pawan KumarResearch centre- Govt. Nagarjun PG Science college, Raipur (CG) | Registered |
| 2 | Yuvraj Singh JagatResearch centre- Pt. Ravishankar Shukla University, Raipur (CG) | Registered |

1. Ongoing/completed research projects: NIL
2. Conferences/Seminar/workshop organized

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| --- | --- | --- | --- |
| S. No | *Conferences/Seminar/workshop organized* | Duration | Designation |
| 1 | National Seminar on Advanced Materials for Sustainable Industrial and social applications | 17th -18th Jan. 2020 | Co-convener |

1. Invited talks presented- 02

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| --- | --- | --- | --- |
| S. No | *Conferences/Seminar/workshop organized* | Duration | organizer |
| 2 | Webinar during National Science Day | 28th Feb. 2021 | Govt. TCL PG College Janjgir (CG) |
| 1 | Two days National workshop on Advances in Basic Science and Technology | 4th -5th Nov. 2019 | School of Science OP Jindal University, Raigarh, (CG) |

1. Peer reviewer of any journal: (i) International Journal of Institute of Scholars

(ii) IOP Conference Series: Materials Science and Engg

1. Publications (List of papers published in National/ International peer reviewed, SCI Journals, in year wise descending order)

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| --- | --- | --- | --- | --- | --- | --- |
| S. No. | Author(s) | Title | Name of Journal (preferably with DOI) | Volume | Page | Year |
| 13 | **G Nag Bhargavi,** Tanmaya Badapanda, Ayush Khare and M Shahid Anwar | A study of enhanced structural, microstructural and dielectric behaviour of aliovalent ions doped BaZr0.05Ti0.95O3 ceramic | IOP Conference Series: Materials Science and Engineeringdoi:10.1088/1757-899X/1120/1/012022  | ISSN-00002009Vol-1120  | 012022 1-8 | 2021 |
| 12 | **G. Nag Bhargavi,** T. Badapanda, A. Khare, P. K. Ray & N. Brahme | Investigation of structural and optical properties of gadolinium modified barium zirconium titanate ceramic | PHASE TRANSITIONS, <https://doi.org/10.1080/01411594.2020.1758323>  | ISSN: 0141-1594 (Print) 1029-0338 (Online)VOL. 93, NO. 6 | 529–536 | 2020 |
| 11 | **G. Nag Bhargavi**, Tanmaya Badapanda, Ayush Khare, M. Shahid Anwar and Nameeta Brahme | Oxygen vacancy related conduction behavior in BaZr0.05Ti0.95O3 ceramic | IOP Conf. Series: Materials Science and Engineering IOP Publishing doi:10.1088/1757-899X/798/1/012006  | Vol-798 | 012006 1-9 | 2020 |
| 10 | **G. Nag Bhargavi**, Ayush Khare, T  Badapanda, M. S. Anwar, Nameeta Brahme | Analysis of temperature and frequency dependent dielectric properties, dynamic hysteresis loop and thermal energy conversion in BaZr0.05Ti0.95O3 ceramic | Journal of Materials Science: Materials in Electronics, <https://doi.org/10.1007/s10854-018-9236-4>  | 0957-4522 (print) [1573-482X](https://www.worldcat.org/search?fq=x0:jrnl&q=n2:1573-482X) (online)Vol-29 | 11439–11448 | (2018) |
| 9 | **G. Nag Bhargavi,** Ayush Khare, Tanmaya Badapanda, M. Shahid Anwar | Investigation of structural and electrical properties of Gd3+ ions modified BaZr0.05Ti0.95O3 cerami | Applied Physics A <https://doi.org/10.1007/s00339-018-2162-8>  | 0947-8396 (Print)1432-0630 (online)Vol-124 | 746 1-9 | 2018 |
| 8 | **G. Nag Bhargavi,** Ayush Khare, Tanmaya Badapanda, M. Shahid Anwar, Nameeta Brahme | Electrical characterizations of BaZr0.05Ti0.95O3 perovskite ceramic by impedance spectroscopy, electric modulus and conductivity | Journal of Materials Science: Materials in Electronics, <https://doi.org/10.1007/s10854-017-7617-8>   | 0957-4522 (print) [1573-482X](https://www.worldcat.org/search?fq=x0:jrnl&q=n2:1573-482X) (online)Vol-28 | 16956–16964.  | 2017 |
| 7 | **G. Nag Bhargavi**, Ayush Khare, Tanmaya Badapanda, M. Shahid Anwar, Nameeta Brahme | An Investigation on the dielectric relaxation and conduction behavior of Europium modified BaZr0.05Ti0.95O3 ceramic | Proceedings of the National Conference on Recent Trends in Functional Materials | ISBN: 978-93-87526-07-5 (paperback)978-93-87526-08-2 (e-version) | 135-139 | 2017 |
| 6 | **G. Nag Bhargavi,** Ayush Khare, Tanmaya Badapanda, Priyadarshi K. Ray, Nameeta Brahme | Influence of Eu doping on the structural, electrical and optical behavior of Barium Zirconium Titanate ceramic | Ceramics International<https://doi.org/10.1016/j.ceramint.2017.10.116> | ISSN-0272-8842 [Volume 44, Issue 2](https://www.sciencedirect.com/science/journal/02728842/44/2),  | 1817-1825 | 2017 |
| 5 | **G.Nag Bhargavi**, Ayush Khare, Namita Brahme | Structural characterization and thermoluminescence studies of UV irradiated and Eu3þ activated BaZr0.25Ti0.75O3 powders | Materials Science in Semiconductor Processing<https://doi.org/10.1016/j.mssp.2015.12.030>  | ISSN: 1369-8001[Volume 44](https://www.sciencedirect.com/science/journal/13698001/44/supp/C),  | 38-47 | 2016 |
| 4 | **G. Nag Bhargavi**, Ayush Khare, Namita Brahme | Estimation of kinetic parameters from thermoluminescence glow curves of pure and Eu3+ doped barium zirconate titanate (BZT) | Optik<https://doi.org/10.1016/j.ijleo.2016.10.038> | ISSN: 0030-4026Volume 129,  | 83-92 | 2017, |
| 3 | **G. Nag Bhargavi** and Ayush Khare | Effect of UV Irradiation on Thermoluminescence Properties of Perovskite Structured Pure and Europium Doped Barium Zirconium Titanate | International Journal of Luminescence and Applications ID: 068<http://ijlaindia.org/wp-content/uploads/2015/07/Volume5/Issue1/68.pdf>  | (ISSN: 2277-6362)Vol. 5, No. 1, | 115-117 | 2015. |
| 2 | **G. Nag Bhargavi** and Ayush Khare | Luminescence Studies of Perovskite Structured Titanates: A Review | Optics and Spectroscopy<https://doi.org/10.1134/S0030400X15060156> | ISSN 0030-400X, Vol. 118, No. 6 | 902–917 | 2015 |
| 1 | Ayush Khare, **B. Nag Bhargavi,** Namrata Chauhan, Nameeta Brahme  | Thermo and mechanoluminescence studies of BZT phosphor  | Optik<https://doi.org/10.1016/j.ijleo.2014.04.091>  | ISSN: 0030-4026Volume 125, Issue 17, | 4655-4658 | 2014 |

1. Presentations/ participation in National/ International seminars/conferences/ workshops

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| --- | --- | --- | --- |
| S. No. | seminars/conferences/ workshops | Organizer | Date |
| 23 | 2nd National Conference on Advanced Materials and applications (NCAMA-2020) | National Institute of Technology Raipur (CG) | 28-29 Dec, 2020 |
| 22 | National Conference on Advanced Materials and applications (NCAMA-2019) | National Institute of Technology Raipur (CG) | 21-22 Dec, 2019 |
| 21 | 6th International Conference on Luminescence and its applications (ICLA-2019) | Luminescence Society of India & SOS in Physics and Astrophysics, Pt. Ravishankar Shukla University, Raipur (CG)  | 7th-10th Jan, 2019 |
| 20 | 5th International Young Scientist Congress (IYSC-2019) | International Science Community Association, at Mid-western University, Surkhet, Nepal | 8th-9th May, 2019 |
| 19 | Workshop on Research methodology | International Science Community Association, at Mid-western University, Surkhet, Nepal | 8th-9th May, 2019 |
| 18 | XX- National Seminar on Ferroelectrics & Dielectrics (NSFD-2018) | Department of pure abd applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur | 14th-16th Dec, 2018 |
| 17 | International Conference on Innovative research in Science, Management and Technology (ICIRSMT-2018) | Bilaspur University, Bilaspur & Modern technology and Management Institute (MTMI),  | 4th-5th Aug, 2018 |
| 16 | 16th Chhattisgarh Young Scientists Congress-2018 | Chhattisgarh council of Science and Technology & Durg University, Govt. VYT PG Autunomous College, Durg, Bhilai Institute of Technology, Durg | 27th-28th Feb. 2018 |
| 15 | A National Seminar on Advanced Research in Physics- its role in the development of Society | Department of Physics, Govt. Digvijay PG Autonomous College, Rajnandgaon (CG) | 29th Jan. 2018 |
| 14 | 20th International Conference on Recent Advances in Physical Sciences and Future Challenges (CONIAPS-XX) | Faculty of Science, Osmania University, Hyderabad | 14th-16th Jul, 2017 |
| 13 | 15th Chhattisgarh Young Scientists Congress-2017 | Chhattisgarh council of Science and Technology & Chhattisgarh Swami Vivekanand Technical University, Bhilai | 28th Feb. -01st Mar. 2017 |
| 12 | One day interdisciplinary National Seminar on Energy Industry and Environment | Department of Physics, Govt. Vivekanand PG college, Manendragarh (CG) | 9th Oct 2015 |
| 11 | National Seminar on Recent Trends in Materials Science  | Dr. Radhabai Govt. Naveen kanya Mahavidyalaya, Raipur (CG) | 6th Aug. 2015 |
| 10 | 5th International Conference on Luminescence and its applications (ICLA-2015) | Luminescence Society of india & PES University, Bengaluru | 9th-12th Feb. 2015 |
| 9 | National Workshop on Design and development of self learning materials & e-modules for open and distance learning | Pt. Sundarlal Sharma open university Chhattisgarh, Bilaspur | 25th-27th Feb. 2014 |
| 8 | Vimarsh- National Conference | Chouksey Engineering College, Bilaspur (CG) | 12th-13th Sep, 2013 |
| 7 | Two days National workshop cum theme Meeting on Ion beam induced Materials modification & Neutron generation using 3 MV particle accelerator: Applications in Physical, Chemical and life sciences | Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) | 19th-20th Aug, 2013 |
| 6 | National Workshop on Nanoscience and Nanotechnology (NWNSNT-2012) | Department of physics and Department of electronics and telecommunication engineering | 12th Mar, 2012 |
| 5 | International workshop on Advanced material Science and Astrophysics | Pt. Ravishankar Shukla University, Raipur (CG) & Michigan Technological University, Houghton, USA | 19th-21st Feb, 2012 |
| 4 | XVI- National Seminar on Ferroelectrics and Dielectrics | Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) | 2nd-4th Dec, 2010 |
| 3 | National Workshop on Low energy accelerators and their applications to Research and Industry | Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) | 12th -13th Mar, 2010 |
| 2 | Xth Conference of International Academy of Physical Science (CONIAPS-X) | Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) | 12th-14th Jan, 2008 |
| 1 | National Conference on Advances in electronic Materials and devices (AEMD-07) | Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, Bilaspur (CG) | 25th-26th Mar, 2007 |

1. Any other relevant information: -

 IQAC co-ordinator- Nov. 2013-July 2016 (Dr. J P Mishra Govt. Science College, Mungeli, Chhattisgarh)

 Sep 2017- till date (Govt. Pt. Shyamacharan Shukla College Dharsiwa, Raipur, Chhattisgarh)

*The above given information is true to my knowledge.*

*Name of the faculty*

 Dr. G. Nag Bhargavi