

Curriculum Vitae

Name: Dr. Hussaini Syed Shaukatullah Azmatullah

I. Personal Memorandum

| Designation | : Assistant Professor | |
|-----------------|---|--|
| Mailing Address | : Crystal Growth Laboratory, | |
| | Department of Physics | |
| | Milliya Art's, Science and Management Science | |
| | College, BEED 431122 (MS) India | |
| | | |
| Phone Numbers | : Office: 91-2442 -224208 | |
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| Date of Appointn | nent: - | 01-08-1993 |
|------------------|---------|--------------|
| Date of Birth | : | June 1, 1970 |

II. Academic Preparation:

| Sr. No. | | Board/University | Grade/ Division | Year |
|---------|--------------------|--|------------------------|------|
| 1 | SSC | HSC and SSC board Aurangabad | Second Division | 1985 |
| 2 | HSC | HSC and SSC board Aurangabad | First Division | 1987 |
| 3 | GRADUATION | Marathwada University, Aurangabad | First Division | 1990 |
| 4 | POST GRADUATION | Marathwada University, Aurangabad | First Division | 1992 |
| 5 | M.Phil | | | |
| 6 | Ph.D. | Dr. Babasaheb Ambedkar Marathwada University, Aurangabad | | 2008 |

III. Research and Teaching Experience:

Teaching Experience: 29 years <u>Research Experience:</u> 15 Years

Assistant Professor : Department of Physics Milliya Art's, Science and Management Science College, BEED 431122 (MS) India

IV. Administrative Work/ Extracurricular Work:

| Sr. No | Designation | Period |
|--------|-----------------------------------|------------------------|
| 1 | Vice-Principal(Academics) | From 10 October 2016 |
| 2 | Head of the Department | From12 June 2003 |
| 3 | Co-ordinator - ISO-9001:2015 | From, 19 November 2016 |
| 4 | Member of IQAC | From 2004 |
| 5 | Science Faculty Co-ordinator | 2014 |
| 6 | Chairman of UGC Affairs Committee | From 2008 |
| 7 | Co-ordinator Science Forum | 2013- 2015 |
| 8 | Member of Rusa Committee | From 2016 |

V. Academic contribution: (College & University)

| Sr. No | Detail | Duration |
|----------|---|--------------------------|
| <u>1</u> | Vice Chancellor's Nominee subject Expert for selection committee for appointment of lecturer | 2012 |
| 2. | Member of Affiliation committee | 2013 |
| 3. | Member of Board of studies in Physics | Sept 2009 to 31 Dec 2010 |
| 4. | Invitee member for Syllabus Designing Committee of Dr. BAMU, Aurangabad | 2015 |

| Sr. No. | Details |
|---------|---|
| 1 | The invitee member of Salam Education society Beed |
| 2 | The Invitee member on the selection committee of Azad Education Society Beed. |
| 3 | Member of All India Crystal Growth Association |
| 4 | Member of Indian Association of Physics Teachers |
| 5 | Member of CDC of Mrs. K S K College, BEED |
| 6 | Member of Internal Quality Assurance cell of Mrs. K S K College, BEED |

VI Membership of Professional / Learned Bodies/Societies/Events.

VII:- Refresher,/Short term courses attended: 08

| Name of the Course / Summer School | Place | Duration | Sponsoring Agency |
|---|--|------------------------------|----------------------|
| Refresher Course | Aurangabad | 05/03/2012 to 27/03/2012 | UGC |
| Refresher Course (Summer School) | Aurangabad | 25-05-2015 To 13- 06-2015 | UGC |
| Short Term course- on " Research Methodology | Aurangabad | 02-11-2015 To 7-11- 2015 | UGC |
| Faculty Development Program on" Advanced Analytical Testing And Characterization | Aurangabad | 2-7-2018 To 7-7- 2018 | |
| Refresher Course on –Curriculum Design and e- content Development | Online | 01-11-2018 to 27- 02-2019 | SWAYAM (Arpit) |
| Short Term course- on " Research Methodology | Aurangabad | 24-06-2019 To 29- 06-2019 | UGC |
| Faculty Development Program on" Cyber Security and data Science | Kada (Sponsored by Kolhapur University under PMMMTT) | 02-12-2019 To 07- 12-2019 | MHRD |

| Faculty Development Program on " | UGC-MMTTC, SGBA Univ, | 16/11/2023 to | UGC |
|-------------------------------------|--------------------------|---------------|-----|
| Emotional | Amaravati | 25/11/2023 | |
| Intelligence For | | | |
| Teacher in Higher | | | |
| Education " | | | |

VIII: Short term courses and FDP attended on Online:-10

| Sr. No | Title e of Course | Organizing Institute | Duration |
|--------|--|-----------------------|---|
| 1. | Moodle Learning and Management | S.S.C college of Arts | 21 st To 27 th - April |
| | System | & Commerce | 2020 |
| | | Ulhasnagar | |
| 2. | One Week National Online Faculty | School of | 27 th April to 2 nd May |
| | Development Program on "ICT | Mathematical | 2020 |
| | Tools for Effective Teaching | Sciences, Swami | |
| | Learning" | Ramanand Teerth | |
| | | Marathwada | |
| | | University, Nanded | |
| 3. | Faculty Development Programme | Ipod | 01-05- 2020 |
| | on "Out Come Based Education" | | |
| 4. | On line Short Term Course on " | Sawarkar College, | 25 th April To 1 st May |
| | Physics in Daily Life" | Beed | 2020 |
| 5. | One Week Online Faculty | Sandip Institute of | 13 th May to 18 th May |
| | Development Programme on | Technology & | 2020 |
| | "Effective Proposal Writing for | Research Centre, | |
| | Research and Funding" | Nashik. | |
| 6. | UGC Paramarsh Online Faculty | Shivaji College | 21 to 26 th May 2020 |
| | Development Programme on | Parbhani | |
| | "NAAC Assessment And | | |
| | Accreditation" | | |
| 7. | Two Days National Level Faculty | Jeppiaar Institute of | 5 & 6 th June 2020 |
| | Development Programme on " | Technology, Kunnum | |
| | Advancement in Material | ,Sriperumbudur | |
| | Science' | | |
| 8. | Week Long Faculty Development | Vinaik Rao Patil | 08 to 13 th -June 2020 |
| | Programme on "NAAC | Mahavidaliya | |
| | Assessment and Accreditation for | Vaijapur. | |
| | Affiliated Colleges" | | d |
| 9. | Two Days National Online | Department of | 7 th & 8th July 2020. |
| | Faculty Development Program on | Physics, Shri | |
| | "Designing and Implementation of | Muktanand College, | |
| | Outcome Based Education (OBE) | Gangapur, Dist. | |
| | Model" | Aurangabad | |
| | | | |

| 10. | On Line National Level One Week | Late Sow Kamalatai | $24^{\text{th}} - 30^{\text{th}}$ August |
|-----|---------------------------------|--------------------|--|
| | Faculty Development Programme | Jamkar Mahila | 2020 |
| | on " Implementation Of national | College, Parbhani | |
| | Education Policy – Challenges & | | |
| | Opportunities in H E I'S | | |

IX Orientation course attended: 01

| Name of the Course | Place | Duration | Sponsoring Agency |
|--------------------|------------|-----------------------------|-------------------|
| Orientation | Aurangabad | 16/03/2006 to 12/04/2006 | UGC |

X. <u>Research Project Completed</u> - 02

| Sr. No. | Title | Agenc y | Period | Grant / Amount Mobilized (Rs Lakh) |
|------------|--|------------|---------|---------------------------------------|
| 1. | Growth and Characterization of Non-Linear Optical (NLO) Material Crystals using Solution Growth Technique for Opto- Electronic Applications | UGC | 2years | 1,25,000/- |
| 2. | Growth and characterizations of high quality NLO crystals for frequency conversion device | DST | 3 Years | 18,75,000/- |

Patent:-

| Sr. | Title | Patent | Date of Award | International |
|-----|---------------|------------|---------------|---------------|
| No. | | Number | | National |
| 1 | Solar Powered | 381773-001 | 16/11/2023 | National |
| | Tent | | | |

XI. Expertise / Areas of specialization

• Growth of NLO Material Crystals

XII:- Synergic Activities

Conference/ Workshop Organized/ online Events: Convener/ Organizing Secretary

| Sr. No | Date | Торіс | Level |
|--------|-------------------|---|-----------------------|
| 1. | 11January 2022. | International E- Conference on | International |
| | | Advanced Material in Innovative | level |
| | | Technology (ICAMIT-2022), | |
| 2. | 25 Sept 2020 | Online Workshop on Quality Audit | Regional |
| 3. | May 2020 | Online Quiz On Modern Physics | National |
| 4. | 24 August 2019 | e-content Development & MOOC- | National |
| | | 2019 | |
| 5. | 24 August 2018 | Workshop on Quality Culture | State Level |
| | | Development | |
| 6. | 23-24 December, | Material Science and Technology | National level |
| | 2014. | (NCMST-2014), | |
| 7 | 20 March 2023 | Online Workshop on "National | Regional Level |
| | | Educational Policy -2020" | |
| 8. | Since last Eleven | Physics – Maths MKT | State Level |
| | Year | - | |

XIII Reviewer of National/International Journals

| Sr. | Journals | Publication |
|-----|--|---|
| No. | | |
| 1 | Optical Material | Elsevier |
| 2 | Physica B | Elsevier |
| 3 | Optics Communication | Elsevier |
| 4 | Material Letter | Elsevier |
| 5 | Material Research Express. | IOP |
| 6 | Journal of Material Science-Poland | Wroclaw University of Science and Technology, Poland |
| 7 | Journal of RSC Advances | Royal Society of Chemistry |
| 8 | Crys tEngComm | Royal Society of Chemistry |
| 9 | Journal of Physics-Chemistry of Solid | Elsevier |
| 10 | Journal of Photonics and Nanostructures – Fundamentals and Applications | Elsevier |

| 11 | Canadian Journal of Physics | Canadian Science Publisher |
|----|--|----------------------------|
| 12 | Journal of Optik | Elsevier |
| 13 | Journal of Optics and Laser Technology | Elsevier |

XIV. Awards/ Prize

| Sr. | Name of Award | Awarding Agency | Year |
|-----------------|---|---|------|
| <u>No.</u> 1 | State Level Ideal Teacher Award | MUPTA | 2012 |
| 2 | Ideal Teacher Award | Al-Hilal Times & Bazme Shama Adab | 2015 |
| 3 | Dr. Homi Bhabha Award | Divya Varta &Kashmakash (NGO) | 2015 |
| 4 | State Level Subhedar Mallharrao Hoalkar Ideal Teacher Award | Raje Mallharrao Hoalkar Samajik Prishithan, Beed | 2018 |
| 5 | Ideal Teacher Award | School Express, BEED | 2019 |
| 06 | Award for Good Educational Work | Dynadevo Bahuudashaya sanastha, Shreerampur | 2021 |
| 07 | Excellence In Education | Association of Muslim Educational, India | 2022 |
| V. N | o. of students awarded Ph.D u | inder guidance - 04 | |

| Sr. | Name of the | Торіс | Date |
|-----|-------------------------|---|-------------|
| No | Research student | | of Award |
| 1 | Dr. Shaikh R.N. | Effect of Amino acids on NLO material Crystals | 05Dec.2015 |
| 2 | Dr. Y. B. Rasal | Growth and Characterization of Thiourea Metal Complexes Doped Potassium Dihydrogen Phosphate (KDP) Crystals for Optoelectronic Applications | 18 Jan 2018 |
| 3. | Mrs. Siddique Aneesa | Growth and Characterizations of Undoped and Doped Thiourea Metal Complex Crystals for optoelectronics Applications | 14Dec.2020 |
| 4 | Mirza Irshad Baig | Growth and Characterization Study of Metal Influenced Nonlinear Optical Crystals for Device Applications | 27 Oct 2021 |

| Sl.No. | Name of the Research Student | Research Topic | Date of Registration |
|--------|-----------------------------------|---|----------------------------|
| 1. | Pankaj Ghodke | Growth and Characterization of High Quality NLO Crystals for frequency conversion devices | 18 th June 2018 |
| 2. | Syeda Bushra Tayyaba Hussaini. | Growth And Investigation Of Amino Acid Influenced Single Crystals For NLO Device Applications | 4 th March 2022 |
| 3. | Sujata Bhagwat Bade | Synthesis, Growth and Characterization of Metal Doped Organic Crystals Non linear Applications | 4 th March 2022 |
| 4. | Rohini Bhimrao Ghuge | Growth And Characterization Of Organic And Semi Organic Nonlinear Optical (NLO) Crystals. | 4 th March 2022 |
| 5. | Khan Sana Anjum Khan | Influence Of Organic Additives On Inorganic Crystals For NLO Device Applications | 4 th March 2022 |
| 6. | Bharati Nivrutti Kolhe | Influence of Organic Traits on Inorganic NLO Crystals to explore Photonic applications | 4 th March 2022 |

XVI. No. of students Working for Ph.D as on Today - 06

XVII. Invited talk delivered at International / National Conferences/Seminars - 14

| Sr. No. | Title of Lecture / Academic Session | Title of Conference / Seminar/ Refresher course | Organized by | Whether international / National |
|------------|--|---|------------------|--|
| 1. | Growth and | " Research | Balbhim college, | National |
| | Characterization | Methodology In | BEED | |
| | of Nonlinear | Physical Science" | | |
| | Optics (NLO) | | | |
| | Material Crystals | | | |
| | for Optoelectronic | | | |
| | Devices | | | |
| 2. | Laser Sensitive | " Medical | Adarsh College, | National |
| | NLO Crystals for | application Of Pulse | Omerga | |
| | Bio-Physical and | Laser And | | |
| | Optical | Diagnostic | | |
| | Applications | Techniques" | | |

| 3. | Development of NLO Materials For Optoelectronics Applications | Functional Material And Microwaves(ICFM M-2015) | Dept of Physics, DR. BAMU, Aurangabad | International |
|-----|---|---|---|---------------|
| 4. | Role of ICT in higher Education for Quality Improvement | "Role of ICT in higher Education for Quality Improvement | Mrs. K.S.K College, Beed | National |
| 5. | Development of NLO Materials For Device Fabrication | Recent Trends in Material Science and Applied Physics | Hutatma Raj guru College, Rajgurunagar.Pune | State |
| 6. | Growth and Development of NLO Materials For Optoelectronics Applications | Material Science and Renewable Energy Sources | Rajarshi Shahu College, Latur | National |
| 7. | NLO Crystals Growth & Characterization Techniques | Recent Trends in Chemical Sciences(RTCS- 2018) | Anna Saheb Waghire, Arts, Science & Commerce College, Otur Tal Junar | State |
| 8. | Formulation of Research Proposal and Importance of Research Publications | Refresher course in "Recent Innovative Trends of Nanomaterials in Chemical, Biological and Physical Sciences" | Modern College of Arts, Science and Commerce, Shivajinagar, Pune 411 005 | |
| 9. | NLO Materials for Device Fabrication | Recent Development in Material Science And Its Application(Jan 2019) | Anand Science College New Arts, Commerce, Shevgoan, Dist Ahmednagar | National |
| 10. | Development of Smart NLO Materials for distinct Technological Device Applications | Advances in Material Science and Technology (7 th Jan 2021) | Sir Syed College Aurangabad | International |
| 11 | Development of | One Week | G H Raisoni | |

| | Smart NLO Materials Optoelectronics Applications | Online AICTE – ISTE Sponsored Refresher Program on "Recent Development in Advanced Materials(7 April 2021) | College of Engineering & Management Pune | National |
|-----|--|--|---|----------|
| 12. | Growth of NLO Single Crystals & Characterization Techniques | Current Innovations in Chemistry , Physics &Mathematics(CICP M-2022) 20 Dec 2022 | S S College, Manjalgoan | National |
| 13. | New Education Policy 2020- Hits and Misses | Orientation on " New Education Policy 2020: Impact and Opportunities | SS Ramrao Awargoakar College Law College, Beed | State |
| 14. | An Overview on Crystals Growth & Characterization analysis | Seminar on "Recent Trends in Materials Sciences and Nanotechnology- 2023(27-28 Feb 2023) | Deogiri College, Aurangabad | National |
| 15. | Promising Nonlinear Optical (NLO) Materials For New Technologies | Conference on "Modern Trends in Physical Science Research (MTPSR- 2024)- | Balbhim College, Beed | National |

Session Chairman-03

| Sr. | Title of the Conference/Seminar | Place | Date |
|-----|---|---------------------|----------------------------|
| No. | /Workshop | | |
| 1. | National Conference on "Functional | Vaidyanath College, | 2nd March |
| | Material Synthesis and | Parli | 2019 |
| | characterization" | | |
| | National Conference on "Recent | Anandrao Dhonde | 17th March |
| 2. | Trends In Material Science & | Alias Babaji, | 2019 |
| | Nanotechnology" | Mahavidyalaya, Kada | |
| 3 | National Conference on "Quality | Balbhim College, | 14 th Sept 2019 |
| | Enhancement in Teaching, learning | BEED | - |
| | and Research | | |

| Sr. No. | Title of the Conference/Seminar /Workshop | Place | Date |
|---------|---|--|---------------------|
| 1. | Regional Workshop on "National Education Policy -2020 | Mrs. K S K College, Beed | 30 Sept 2022 |
| 2. | National Seminar on" New Education Policy-2020 & Curriculum Structure According to CBCS Pattern | Jawahar Arts, Science & Commerce College, Andur | 21 May 2022 |
| 3. | International e- Conference on " Material Science and Nano Technology" | Dayanand College, Latur | 17-19 Dec 2020 |
| 4. | National Conference on " Recent Advances in Physics, Chemistry & Mathematics" | Balbhim College, BEED | 8th Feb 2020. |
| 5. | International Conference on " | Dr. B.AM.U, Aurangabad | 3-4 January 2020 |
| 6. | National Conference on "Recent Trends In Material Science & Nano Technology" | AD College, Kada | 17th March 2019 |
| 7. | National Conference on "Functional Material Synthesis and characterization" | Vaidyanath College, Parli | 2nd March 2019 |
| 8. | National Conference on " Nanomaterials and Their Applications Critical" | Arts, Commerce, &Science Kille Dharur | 14 Feb 2019 |
| 9. | National Workshop on " Crowd Sourcing and Participatory GIS" | Online At Milliya College, Beed(ISRS &ISRO) | 21-December 2018 |
| 10. | National Conference on " Recent Trends And Development In Material Science " | Indraraj College, Aurangabad | 16Dec 2017 |
| 11. | International Conference on " Advanced Materials Development and Performance" | AMPD, Pune | 11-15 July 2017 |
| 12. | National Workshop on " Popularization of Remote Sensing Based Maps & Geospatial Information " | Online At Milliya College, Beed(ISRS &ISRO) | 11-August 2017 |
| 13. | Regional Workshop on "Implementation of New Syllabus in Physics | Shri M.P Mahavidyalaya, Murum | 10 January 2015 |

XVIII. List of Conferences/Seminars/Workshops/Symposium attended:

| 14. | National Conference on "Materials | R.P. | 29-30 January |
|-----|---|--|--------------------------|
| | Synthesis for Device Level Applications", | Mahavidyalaya, Osmanabad (MS) | 2015 |
| 15. | National Conference on "Recent trends in Mathematics, Physics and their Applications", | Shankarlal Khandelwal Arts, Science & Commerce College, Akola (MS). | 19 arch 2014 |
| 16. | National Conference on "Recent trends in Mathematics, Physics and their Applications", | Shankarlal Khandelwal Arts, Science & Commerce College, Akola (MS). | 19 March 2014 |
| 17. | International Conference on" Materials and Characterization Techniques" | VIT University, Vallore, Tamil Nandu, | 10-12 March 2014, |
| 18. | National Seminar on "Crystal Growth" | SSN College of Engineering, Kalavakkam, Tamil Nandu | 24-26 February 2014, |
| 19. | National Conference on "Microwave Techniques and Applications" | Maulana Azad College, Aurangabad | 29-30 November 2013, |
| 20. | National Conference on "Upcoming Trends In Chemical Science" | Shri Anand College Pathardi | 06 -07 Septembe 2013, |
| 21. | National Conference on " Physics and Chemistry of Advanced Materials " | C.B. Khedgi's Basaveshwar Science Akkalkot | 18-19 December 2013 |
| 22. | National Seminar on "Innovative Teaching Methods in Physics" | Doegiri College, Aurangabad | 30-31 August 2013 |
| 23. | Regional Workshop on "Microcontrollers and its Applications" | IETE, Aurangabad | 5-6 July 2013 |
| 24. | National conference on "Lasers and Their Applications", | B.N.B College, Digras. | 28 December 2012 |
| 25. | National conference on "Nanotechnology" | Maharashtra Mahavidyalaya, Nilanga | 07-08- Septembe 2012, |
| 26. | National conference on "Recent | Birla College, | January – 29 - 30 |

| | Trends in Materials Research "., | Kalyan | 2011 |
|-----|--|--|-----------------------------------|
| 27. | Regional level Workshop on "B.Sc. II Semester III and IV semester Physics Practical, | Deogiri College Aurangabad | 22 January 2011 |
| 28. | National conference on " Advancements in Nano – Science for different technology" | Dept Of Physics Shrikrishnan College , Gunjoti | 9-Sept 2006 |
| 29. | Regional level Seminar on "Modern Trends in Physics" , | Sawarkar College, BEED | 9 Feb 2010 |
| 30. | An international Conference on "Optics and Photonics, on (ICOP) | Chandigarh | 25-27 – October 2009, |
| 31. | state Level Conference on "Trends in Bio-Aerodynamic Studies, | R B Attal college Georai. | December 5-6, 2008 |
| 32. | state Level Workshop on "Method of Effective Teaching in Quantum Mechanics At Graduate Level " | R B Attal college Georai | 4 th October, 2008, |
| 33. | state Level Seminar on "Advanced study in solid state Physics and Crystallography (SSASSC-2008), , | Balbhim College BEED | 15-16 th March 2008 |
| 34. | International Conference on "Microwaves and Optoelectronics, (ICMO), | Dr B A M U Aurangabad. | 17-20, December 2007 |
| 35. | International Conference on "Advanced Materials and Applications (ICAMA), | Dept of Physics Shivaji University Kolhapur. | 15-17 November, 2007 |
| 36. | Regional Level Workshop on "Effective Teaching Methods in Physics and Scope of UGC curricula.", | Barwale College, Jalna | 12-13th February 2007 |
| 37. | Regional Level Seminar on "Design of Curriculum of B.Sc. Physics courses" , | Dept of Physics Gunjoti | 9t September, 2006 |
| 38. | state Level Seminar on "Recent Trends in Materials Science (RTMS - 2006) | School of Physical Sciences, North Maharashtra University, Jalgoan. | 24-25 March 2006 |

| 39. | National Symposium on "Crystal | Loyala College | 29-30 September |
|------|--|------------------|----------------------------|
| | Growth and Characterization.", | Chennai. | 2005 |
| 40. | A state Level Workshop on "B.Sc | Maulana Azad | 16 September |
| | Physics Practical (New UGC | College of Atrs, | 2005 |
| | Syllabus), | Science and | |
| | | Commerce | |
| | | College, | |
| | | Aurangabad. | |
| 41. | State Level Workshop on "B.Sc. | Deogiri College | 19 August 2004 |
| | Physics Practicals, , | Aurangabad | |
| 42. | National Conference on, "Microwaves | Dr. B.A.M.U, | 29-30 June 2004 |
| | and Optoelectronics (NCMO). | Aurangabad | |
| 43. | State Level Workshop on, "Physics | R G Bagdia | 12-13 September, |
| | Experiment In NEW | Arts, S B | 2003 |
| | CURRICULUM". | Lakhonda and | |
| | | Bezonji Science | |
| | | Jalna | |
| 44. | Regional level Workshop on, | Sawarkar | 22-23 April 2003 |
| | "Programming in C++. | College BEED. | L |
| | | | |
| Worl | <u>kshop/Conference/Symposia of</u> | | |
| 1. | One day Workshop on "ICT | JD Aurangabad | 17 Th December |
| | Enablement in Educational Institutions | | 2019 |
| | for Betterment of Academic Delivery | | |
| | and Statutory Adherence" | | |
| 2. | Two days National Conference on "E- | Smt. SK Gandhi | 21-22 Sept 2019 |
| | content Development for Effective | College, Kada | _ |
| | teaching" | | |
| 3. | National Conference on "Quality | Balbhim | 14 th Sept 2019 |
| | Enhancement in Teaching, learning and | College, BEED | |
| | Research | g-, 22222 | |
| 4. | International Conference on "Emerging | Milliya College, | 7th Feb 2019 |
| | Trends in Microbiological Sciences | BEED | |
| | &IPR | | |
| 5. | Two days Workshop on" Intellectual | MIT college of | 21-22 December |
| 5. | Property Rights" | Engineering, | 2018 |
| | | 0 0, | 2010 |
| | NDTEL Workshop on "MOOC courses | Aurangabad | 01 December |
| 6. | NPTEL Workshop on "MOOC courses | Chh Shahu | 01 December |
| | and E containt " | College of | 2018 |
| | | Engineering | |
| | | Aurangabad | 4 |
| 7. | State Level Workshop on" Intellectual | Govt college, | 7 th Sept 2018 |
| 1 | Property Rights" | Aurangabad | |

| 8. | State level Workshop on" Sexual Harassment of Women at workplace | Millya Arts College, BEED | 14 th August 2018 |
|-----|---|---|-----------------------------------|
| 9. | State level Workshop on " Quality Culture Development " | R.G. Shinde Mahavidyalaya , Paranda | 20 th July 2018 |
| 10. | State Level Online Workshop on "Geo Spatial Technologies and Sendai Framework for Disaster Risk Reduction" | ISRO & Milliya College BEED | 10 th July 2018 |
| 11. | State level Workshop on "Revised Accreditation Frame Work of NAAC" | Kalikadevi College, Shirur | 31 th January 2018 |
| 12. | State level Workshop on" Intellectual Property Right: Indian Perspective | Milliya College, Beed | 14 th Feb 2018 |
| 13. | Regional Level Workshop on " NAAC(New Method) Related Quality Culture Development" | Siddeshwar College, Manjalgoan | 27 th November 2017 |
| 14. | State level Workshop on "Innovative Mechanism and Strategies for Interpretation and Presentation of Information" | Sawarkar College, Beed | 5 th March 2017 |
| 15. | Regional Level One day Work Shop on " Proposed Maharashtra Public University Act 2015" | SVS College , Beed | 01 Oct 2015 |
| 16. | National workshop on "Role of Management, Principal & Staff in Quality Enhancement " | R.B. Attal College, Georai | 27 September 2014 |
| 17. | Regional level Workshop on "Academic Performance Indicators: Its Effect on Teaching, learning and Evaluation, , | Vasantrao Naik College Aurangabad. | 25 January 2011 |
| 18. | National conference on" Recent Trends on Environmental Toxicology" | Milliya Arts, Sci & Management Science College ,BEED | 4 -5 August 2010. |
| 19. | State level seminar on NAAC Re- accreditation and Assessment." | Washi college Washi | 18-19 May 2009, |
| 20. | Regional level Workshop on "Dharma Nirpeshta: Tatva aani Vehevhar." | Aurangabad. | 22-23 March 2006, |

| Sr. No. | 8 8 | | Date |
|------------|--|---|---|
| | | | 13 th October 2021 |
| 2. | National webinar On "Strengthening of SSR and Effective Documentation" | S.M.J oshi College, Hadapsar, Pune-28 | 6 th Oct. 2021 |
| 3. | National Level Webinar On Mahatma Gandhi's Contribution to the Indian Freedom Movement | Milliya Arts Science & Management Science College, BEED | 02 nd Oct 2021 |
| 4. | State Level Webinar on "Cyber Security Analyst" | Rafiq Zakaria College for Women, Aurangabad | 26 th July 2021 |
| 5. | National Webinar on "Feedback, SSS, Best practices and Distinctiveness | PMH, Desei College, Pune | 19 to 21 st May 2021 |
| 6. | Webinar on National Science Day | Rafiq Zakaria College for Women, Aurangabad | 28 th - February- 2021 |
| 7. | National Webinar on "Thermoelectrics on Energy Conversion" | Vasantdada Patil College, Patoda | 23 rd Feb 2021 |
| 8. | National Level Webinar on "Informed Voter for Strong Democracy" | Milliya Arts Science & Management Science College, BEED | 25 th Jan 2021 |
| 9. | International Webinar on "Arabic Language and Indian Muslims Love for it | Milliya Arts Science & Management Science College, BEED | 18 th Dec 2020 |
| 10. | National Level Webinar on "Intellectual Property Rights" | SMDM College, Kalamb. | 21 st April |
| 11. | National Level Webinar on "CAS Promotion- Issue and E- Content Development" | SMDM College, Kalamb. | 1 & 2 nd May 2020 |
| 12. | Regional Webinar on "Art of Drafting Pre- PhD Synopsis | Rusa Centre Aurangabad | 2 nd May 2020 |
| 13. | Webinar on Reprogram your Mind Through NLP | Indian Academician and Researchers association(IARA) | 6 th may 2020 |
| 14. | 4 days National webinar on "Revised Assessment Accreditation: Nurturing Quality Culture" | IQAC Cluster & Yogeshwari College, Ambajogai | 08 to 11 th May 2020 |
| 15. | International Webinar on "Laughter Yoga" | S.S.T college of Science & Commerce Ulhasnagar | 9t Th May 2020 |
| 16. | National Webinar on "Social Work Intervention in Corona Pandemic crisis | MASWE & Bhagini Mandal Chopda College of Social | 8& 9 th May 2020 |

XIX. Conferences/Seminars/Workshops/Symposium attended online-46

| | issues Challenges Strategies and Role" | work, Chopda Dist Jalgoan | |
|-----|---|--|------------------------------------|
| 17. | Online Workshop on " Learning Management System(LMS) Based on MOODLE: To Enhance Students Learning Activities" | Jawaharlal Arts Science & Commerce College, Andur | 21 st May 2020 |
| 18. | Online Workshop on "Evidence Based Teaching & Learning strategies in Higher Education" | CREATES, IISER Bhopal | 21-to 23 rd May 2020 |
| 19. | National Webinar on "Future of 2d Animation in India" | S.S.T college of Science & Commerce Ulhasnagar | 27 th May 2020 |
| 20. | National Webinar on "Non Linear Optical behavior of Nanomaterials" | Lady Doke College, Madurai | 28 th May 2020 |
| 21. | One Day Online Workshop on "Materials Science and Applications" | Department of Physics, Arulmigu Palaniandavar Arts College for Women, Palani | 29 th May 2020. |
| 22. | Webinar on "Advanced Materials: Webinar Series – II" | Department of Physics, School of Basic Sciences, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chennai-117 | 28 – 30 th May 2020 |
| 23. | National Webinar on "Use of Modern Technology in Daily Teaching" the need of Hour. | Vaishanvi College Wadvani | 29 th May, 2020 |
| 24. | innovative webinar on "creating interactive e-learning content" | Universal College of Engineering, Kaman | 1 st June 2020 |
| 25. | national webinar on "cyber safety in cyberspace" | Faculty of Law, The Maharaja Sayajirao University of Baroda | 2 nd June 2020 |
| 26. | National Webinar on "Insights Into Research" | The Yenepoya Institute of Arts, Science, Commerce & Management Science college, Mangalore | 4 th June 2020 |
| 27. | National Webinar on "Guidance for Entrance Exams after B.Sc. Physics" | R. K. Talreja College of Arts, Science & Commerce, Ulhasnagar-3 | 4th June, 2020 |
| 28. | National Webinar on "Quantum Mechanical Picture of Periodic table | Division of Chemistry Vellore institute of Technology, Chennai | 6 th June 2020 |
| 29. | Two Days National Webinar on " AQAR Writing & Submission As per New NAAC Guideline" | SMDM College, Kalamb | 6 & 7 th June 2020 |
| 30. | International e-Conference on "Advanced Functional Materials and Optoelectronic Devices" | Prof. Rajendra Singh (Rajju Bhaiya) Institute of Physical Sciences for Study and Research, Veer Bahadur | 13-15 th June, 2020 |

| | | Singh Purvanchal University, Jaunpur-222003, U. P. | |
|-----|--|--|------------------------------------|
| 31. | National Webinar on "ThermodynamicsPG & Research: A Conservative Partner of Our Life & Z-Scan Measurements for NonlinearDepartment of Physics, Adhiyaman Arts & Science College For Women onOptical MaterialsCollege For Women on | | 16 th June, 2020 |
| 32. | National Level Webinar on "Current Scenario, Scope and Challenges in Pharmaceutical industry" | School of Pharmacy and Centre for Research Development, Rai University, Ahmadabad | 19 June 2020 |
| 33. | One day workshopDeogiri College AurangabadOn " NAAC – revised accreditationframework" | | 19 June 2020 |
| 34. | One day Regional Level Webinar on " ICT" | Microsoft Accelerating Education and Joint Director Aurangabad | 22 June 2020 |
| 35. | | | 22-26 June 2020 |
| 36. | National Webinar on "Digital Transformation in Educational institutes | Karam veer Mamasaheb Jadgdale College, Washi | 25 June 2020 |
| 37. | International Webinar on "Recent Advances in Material Science & Technology" | Aditanar College of Arts &Science Viranpandianptanum Tiruchedure (TN) | 26 th June 2020 |
| 38. | 2ndInternational Conference on "Crystal Engineering: From Molecule to Crystal" | Crystal Engineering Forum | 19- 19 June 2020 |
| 39. | Two days International Webinar on " Research Evolution Towards Current Scenario" | PERIYAR EVR College, TiruChirapalli | 13 & 14 th July 2020 |
| 40. | National Webinar on "Importance of Digitalization and online documentation for NAAC Accreditation and NIRF" | Jawaharlal ASC college, Andur | 29 th July 2020 |
| 41. | National Webinar on "Challenges in Vaccination of Covid- 19 | Mrs. K S.K College, BEED | 28 th August 2020 |
| 42. | International Webinar on "Arabic Language and Indian Muslims Love for it" | Milliya Arts, Science and Management Science College, Beed (MS) | 18/12/2020 |
| 43. | National Level Webinar on" Informed Voter For Strong Democracy" | Milliya Arts, Science and Management Science College, Beed (MS) | 25 th Jan 2021 |
| 44. | National Level Webinar on " | Vasant Dada Patil Arts Commerce and Science | 23 rd Feb2021 |

| | Conversion" | College, Patoda | |
|-----|---------------------------------------|-------------------------------|-------------------------|
| 45. | National level Webinar on Science Day | Dr. Rafiq Zakaria College for | 28- Feb- |
| | | Women, | 2021 |
| | | Aurangabad | |
| 46. | National Level Webinar on "Feed, SSS, | PGK Mandal's Haribhai V. | 19 th May to |
| | Distinctiveness and Best Practices | Desai Arts Science 21 May | |
| | | Commerce College, Pune | 2021 |

XX <u>Research Papers Published / Presented in International / National</u> <u>Conference Proceedings (42)</u>

| Sr. No. | Title of the Paper Presented | Title of Conference / Seminar | Organized by | Month/Yea r |
|---------|---|---|--|--------------------|
| 1. | Focusing nonlinear optical Traits Parent & amp: L- Tryptophan doped Bis thiourea Cadmium Acetate Crystal for NLO Applications | International Conference online "Recent Trends In Material Science & Nano Technology" | Dr. V.B. Kolte College of Engineering, Malkapur. | 2-3 May 2020 |
| 2. | Study of Thiourea Zinc Sulphate Doped Potassium Dihydrogen Phosphate Crystal | National Conference on "Recent Trends In Material Science & Nano Technology" | AD College, Kada | 17th March 2019 |
| 3. | Magnificent Transmutation in optical Traits due to Methionine Doping on ZTS crystal. | National Conference on " Functional Material Synthesis and characterization" | Viadaynath College, Parli | 2nd March 2019 |
| 4. | Impact of Nickel Thiourea nitrate on Structural and optical Properties of Potassium Dihydrogen Phosphate | 8th International conference on "Advanced Materials Development and Performance" | Dept. of Physics, Savitribai Phule Pune Univ. Pune | 11-15 July 2017 |
| 5. | Influence of L-serine on thermal, linear nonlinear optical, fluorescence properties of ZTS crystal for photonic device applications | 8th International conference on "Advanced Materials Development and Performance" | Dept. of Physics, Savitribai Phule Pune Univ. Pune | 11-15 July 2017 |

| 6. | Natural Hibiscus Dye and Synthetic Organic Eosine Ydye sensitized Solar Cells using Titanium Dioxide Nano Particles Photo Anode: Comparative Study | 8th International conference on "Advanced Materials Development and Performance" | Dept. of Physics, Savitribai Phule Pune Univ. Pune | 11-15 July 2017 |
|-----|--|--|--|--------------------|
| 7. | Studies on the Structural, Thermal, Fluorescence and Linear– Non-linear Optical Properties of Glycine Sodium Acetate Single Crystal for Electro-Optic Device Applications | International conference on Recent Trends in Materials Science and Applications | JMC Trichy | |
| 8. | Optical Studies of Potassium Thiourea Chloride doped KDP Crystal for Optoelectronics Applications | National Conference on Material Science & Renewable Energy Sources | Shahu College, Latur | March 2016. |
| 9. | Optical Studies of Zinc Thiourea Chloride Doped KDP Crystal For optoelectronics Applications | National Seminar on Crystal Growth and Applications | BARC Mumbai | January201 6 |
| 10. | Growth and Linear Optical Properties Of L- Lysine Doped Zinc Thiourea Sulphate Crystal For Optoelectronics Applications", | National Conference on Medical Applications of Pulse Laser And Diagnostic Techniques | Adarsh College, Omerga | January 2015. |
| 11. | Comparative Analysis on optical Properties of Pure and doped Maleic Acid crystal for NLO Device Applications" | National Conference on Medical Applications of Pulse Laser And Diagnostic Techniques | Adarsh College, Omerga | January 2015. |
| 12. | OpticalPropertiesofDisodiumPhosphate (DSHP)singleCrystal" | National Conference on Material Science, | Mrs. K.S. K .College, Beed | December 2014. |
| 13. | Synthesis, Growth, Structural, Spectroscopic, Thermal and optical properties of NLO single crystal: L-threonine | International Conference on Crystal Growth and Bimolecular | Sastra University, Thanjavar, (TN) | November, 2014 |

| | oxalate", | Crystallography | | |
|-----|--|---|---|------------------|
| 14. | Synthesis, growth and linear optical properties of bis thiourea formate (BTCF) crystal for optoelectronics applications | National Conference on Recent trends in Mathematics, Physics and their Applications | Shankarlal Khandelwal College, Akola | March 2014 |
| 15. | Optical studies of Amino acids doped Ammonium Dihydrogen Phosphate (ADP) crystals for NLO Applications | International conference on Materials and Characterization Techniques | VIT Vellore | March 2014 |
| 16. | Growth, structural & optical studies of potassium dihydrogen phosphate (KDP) doped cadmium thiourea acetate (CTA) metal complex crystal | International conference on Materials and Characterization Techniques | VIT Vellore | March 2014 |
| 17. | Studies on optical, spectral, surface morphology and SHG efficiency of Glycine doped bis thiourea cadmium formate crystals" | National Seminar on Crystal Growth | SSN College of Engineering, Chennai | Feb 2014 |
| 18. | Investigation on optical properties of Glycine crystal grown in presence of sodium acetate | National Seminar on Crystal Growth | SSN College of Engineering, Chennai | Feb 2014 |
| 19. | Structural and Optical Characterization of Glycine Doped Malic Acid crystals for NLO Applications | National conference on Microwave Techniques and Applications | Maulana Azad College, Aurangabad | November 2013 |
| 20. | Growth and Optical Characterization of Thiourea Magnesium Chloride Crystal for NLO Applications | National conference on Microwave | Maulana Azad College, Aurangabad | November 2013 |

| | | Techniques and | | |
|-----|--|--|---|------------------|
| | | Applications | | |
| | | National | | |
| | OpticalAndDielectricStudies ofL-LysineDoped | conference on | Shri Anand | September |
| 21. | | Upcoming trends | College | 2013 |
| | ADP Single Crystal" | in Chemical | Pathardi | 2013 |
| | | Science | | |
| | | National | | |
| | Growth and characterization | conference on | Shri Anand | September |
| 22. | of L-Alanine Mixed Cadmium Thiourea Acetate | Upcoming trends | College | 2013 |
| | Crystal | in Chemical | Pathardi | 2013 |
| | | Science | | |
| | | National | | |
| | Growth and characterization of L-Alanine Mixed Cadmium Thiourea Acetate Crystal | conference on | Shri Anand | September |
| 23. | | Upcoming trends | College Pathardi | 2013 |
| | | in Chemical | | 2013 |
| | | Science | | |
| 24. | Investigation of Vortex beam in Photorefractive crystals | National Conference on "Physics and Chemistry of Advanced Materials | B. Khedgi's Basaveshwar Science Akkalkot | December 2013 |
| | | National | | |
| | Growth and characterization | conference on | Shri Anand | September |
| 25. | of L-Alanine doped ADP Single Crystal for | Upcoming trends | College | 2013 |
| | Optoelectronics Applications | in Chemical | Pathardi | 2015 |
| | | Science | | |
| | · · · · · · · · · · · · · · · · · · · | National Seminar on Innovative | Doegiri | August |
| 26. | Innovative Teaching Methods for Physics | Teaching Methods in Physics | College, Aurangabad | 2013 |

| 27. | Growth Study of Glycine doped ADP single crystal | National Conference on Laser and Advanced Materials | Dept. of Physics Sant Gadge Baba University, Amravati | May 2012 |
|-----|--|---|---|------------------|
| 28. | Growth and optical studies of Bis Glycine hydrogen bromide (BGHB) | National Conference on Recent Trends in Material Research | Birla College, Kalyan | January 2011 |
| 29. | Synthesis, Growth and characterization of zinc (tris) thiourea sulfate (ZTS) doped with L-Alanine | National Conference on Crystal Growth | Vellore Institute of Technology (VIT), Vellor | March 2010 |
| 30. | SHG studies of Glycine doped Bis Thiourea Cadmium Chloride (BTCC) single Crystal : A Semi Organic NLO Material | International Conference on MEMS and Optoelectronics Technologies | Swarnandhra College of Engineering & Technology, Narsapur (A.P) | January 2010 |
| 31. | Development of Novel Non- linear Optical Crystal of Tri- Glycine Acetate(TGAc) | International Conference on MEMS and Optoelectronics Technologies | Swarnandhra College of Engineering & Technology, Narsapur (A.P) | January 2010 |
| 32. | Growth and characterization of non-linear optics single crystal | International Conference on Optics and Photonics | CSIO Chandigarh | November 2009 |
| 33. | Growth and characterization of Li+ ion doped KDP Single Crystal for optoelectronics applications | State level Seminar on Advanced study in solid state physics and crystal | Balbhim College,Beed | March 2008 |
| 34. | Growth and optical study of Glycine doped Zinc Thiourea Chloride (ZTC) single crystal | International Conference Advanced | Shivaji University, Kolhapur | November 2007 |

| | | Materials and Applications | | |
|-----|--|--|------------------------------------|----------------------------|
| 35. | Study the effect of L-Alanine on the optical properties of Zinc (tris) Thiourea Sulfate (ZTS) single crystal" | International Conference Advanced Materials and Applications | Shivaji University, Kolhapur | November 2007 |
| 36. | Growth and High frequency study of non liner optical Zinc (tris) Thiourea Sulphate Crystal" | International Conference on Microwaves and Optoelectronics | Dr. BAMU, Aurangabad- | 17-20 December 2007. |
| 37. | Growth and Characterization of Glycine Doped Zinc (tris) Thiourea Sulphate (ZTS) Crystals for Optoelectronics Applications | International Conference on Microwaves and Optoelectronics | Dr. BAMU, Aurangabad- | 17-20 December 2007. |
| 38. | Growth and Characterization of NLO Material Crystal for Electro Optics modulation", | National conference in Recent Trends in Materials Science | NMU, Jalgoan | March 2006 |
| 39. | Crystal Growth, Optical and dielectric studies of Zinc thiourea chloride – a semi organic NLO material", | National Conference on Crystal Growth and Characterization. | Loyola College, Chennai | Sept-2005 |
| 40. | Optimization of the parameters for the fiber optic chemical evanescent sensor for the detection of the vapours", | International Conference on Optics and Optoelectronics | Dehardun | Dec 2005 |
| 41. | Semiconductor behavior of Polyaniline film for the | National Workshop on | NMU Jalgaon | 2004 |

| | development of biosensors", | Thin Film | | |
|-----|--|------------------|----------------|------|
| | | Preparation and | | |
| | | Characterization | | |
| | | Techniques for | | |
| | | Energy | | |
| | | Conversions | | |
| | | National | | |
| | Electrochemical Deposition of poly (O-anisidine) Thin Film under Galvanostatic condition at various pH for Biomedical Applications", | Workshop on | | |
| | | Thin Film | | 2004 |
| 42. | | Preparation and | NMU Jalgaon | |
| | | Characterization | | |
| | | Techniques for | | |
| | | Energy | | |
| | | Conversion | | |

XXI:- Chapter Published in Book:

| Sr. No | Name of Book | Publication | ISBN Number | Title of Chapter | Year of Publication |
|-----------|--|--|-----------------------|--|------------------------|
| 01 | Advances in Material Sciences | Kritinjal Academics Solutions Pvt Ltd, Mumbai | 978-81- 957290-1-2 | Z -scan And Microhardness Studies Of Thiourea Complex Doped Potassium Dihydrogen Phosphate Crystals | August 2022 |
| | | Book P | ublished | | |
| 02 | Text book of Physics Heat & Thermodynamics | Kailash Publication | 978-93- 93623-51-5 | Book | March 2023 |

XXII :-Patent:-

| Sr. No. | Title of patent Project | Patent Number | Sponsored agency if any | Date of Award | International National |
|------------|----------------------------|------------------|-------------------------------|------------------|---------------------------|
| 1 | SOLAR POWERED TENT | 381773- 001 | Nil | 16/11/2023 | National |

XXIII:- Book Published:-

| Sr. No. | Title of Book | Publishers name | ISBN No. | Level |
|---------|--|---------------------|----------------------|----------|
| | A Text book of Physics-Heat and Thermodynamics | Kailash Publication | 978-93 93623-51-5 | National |

XXIV:- Citations Index:

| Sr. No | Indexing/Citation database Agency | Citations | H - Index | i10 Index |
|--------|--------------------------------------|-----------|-----------|-----------|
| 1. | Google Scholar Status | 2096 | 28 | 57 |
| 2. | Scopus Status | 1591 | 24 | |
| 3 | Web Science | 1370 | 24 | |
| 4. | Research Gate | 1554 | 23 | |

PUBLICATIONS

Peer-reviewed International / National Journals - (114)

- Sujata B. Bade, Y.B. Rasal, M.D. Shirsat, and S.S. Hussaini, "Effect of Organic Entities on the Performance of Potassium Dihydrogen Phosphate (KDP) Crystals" J Cond. Matt 2023: 01(02): 78:82. ISSN : 361-648X
- Swati S. Kulkarni, Haridas J. Kharat, S. S. Hussaini, "Cost-Effective Carbon Cathode for ye-Sensitized Solar Cell Using Eco-Friendly Eosin Y Dye" International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Peer reviewed and Refereed International Scientific Research Journal, ISSN : 2456-3307 UGC Journal No : 64718 | Impact Factor = 7.254
- Sana Khan, S.M. Azhar , M.D. Shirsat, S.S. Hussaini,*, I.M. Ashraf, Mohd Anis "Optimizing laser induced nonlinear optical, dielectric and microscopic traits of copper sulfate crystal by glycine for photonic device applications" Inorganic Chemistry Communications,146,(2022)110079.ISSN1387-7003,

https://doi.org/10.1016/j.inoche.2022.110079.

- M. I. Baig, S. S. Hussaini, H. Elhosiny Ali, and Mohd Anis "Analyzing L-valine effect on structural, mechanical, optical and electrical traits of bis-thiourea cadmium chloride (BTCC) crystal" J Mater Sci: Mater Electron, 33, pages 8218–8225(2022) https://doi.org/10.1007/s10854-022-07972-w.
- Mohd Anis, S. S. Hussaini, M. I. Baig, Mohammed Imran Anis, and Ehab El Sayed Massoud "Investigating optical, electrical, and mechanical traits of thiourea admixture KDP single crystals to explore NLO device applications" Journal of Materials Science: Materials in Electronics (2021), https://link.springer.com/article/10.1007%2Fs10854-021-06806-5.
- M. I. Baig, Mohd Anis , M. D. Shirsat , H. H. Somaily , and S. S. Hussaini "Exploring linear-nonlinear optical, dielectric and microscopic traits of sulphamic acid crystal exploiting Zn2+ for photonic device applications" Journal of Materials Science: Materials in Electronics, 32, pages16445–16455 (2021). DOI: 10.1007/s10854-021-06197-7.

- R.N.Shaikh, M. Asef Iqbal, A.P.Birajdar, Tanazza Siddiqui Shaikh Tehreem, S. S. Hussaini "Microhardness and Antimicrobial properties of L-valine doped ADP crystal" Journal of Advances in Applied Sciences and Technology (2022) Vol. 8|Issue 1| Page 131-134.
- Syeda Bushra, Atul Birajdar, Mohd Anis, M.I. Baig, M.D. Shirsat, S.S. Hussaini "Exploring the Impact Of C3H7NO2 On Surface Habitat Of Potassium Acid Phthalate Crystal" Journal of Advances in Applied Sciences and Technology (2022) Vol. 8|Issue 1| Page 129-130.
- Yogesh Rasal, R. B. Kulkarni, M. D.Shirsat, S.S. Hussaini "Effect Of Ammonium Thiourea Chloride On Linear And Nonlinear Optical Properties OF KDP Crystal" Journal of Advances in Applied Sciences and Technology (2022) Vol. 8|Issue 1| Page 119-125
- Mohammed Asef, K.R. Desai\, Zubair Hussaini, Qudeja Fatema Z. Khan1 Hussaini S S "Antimicrobial studies on Non Linear Optical grown crystals" Journal of Advances in Applied Sciences and Technology (2022) Vol. 8|Issue 1| Page 148-150.
- 11. M I Baig, Mohd Anis, M. D. Shirsat, A.M. Alshehri, H.H. Somaily and S S Hussaini "Influence of Zn2+ on laser induced optical and electrical traits of KH2PO4 crystal for NLO device applications" Internal Journal of Light and electron optics 203 (2020).165998. https://doi.org/10.1016/j.ijleo.2020.165998.
- 12. Siddique Aneesa Fatema, Rupali B. Kulkarni, Mahendra D. Shirsat S. S. Hussaini* "Focusing Nonlinear Optical Traits of Parent & L-Tryptophan Doped Bis Thiourea Cadmium Acetate (TR-BTCA) Crystal for NLO Applications" International Journal of Interdisciplinary Innovative Research & Development (IJIIRD) ISSN: 2456-236X Vol. 05 Special Issue 01 | 2020.
- 13. M I Baig, Mohd Anis, M. D. Shirsat, and S S Hussaini "Thermal and Mechanical Study of Zn2+ doped Potassium Dihydogen Phosphate Crystal For NLO Applications" International Journal of Interdisciplinary Innovative Research &Development (IJIIRD) ISSN: 2456-236X Vol. 05 Special Issue 01 | 2020
- 14. M I Baig, Mohd Anis, H. Algarni, M. D. Shirsat, S S Hussaini "Comparative analysis of pristine and Cd2+ influenced potassium hydrogen phthalate single crystal for photonic device applications" International Journal of Light and electron optics 227 (2021). <u>https://doi.org/10.1016/j.ijleo.2019.163903</u>.

- 15. Siddique Aneesa Fatema, Y.B. Rasal, R.N. Shaikh, M.D. Shirsat, S.S Hussaini, "Role of Dopant L-Methionine Concentration in Modifying Optical Properties of parent Zinc Thiourea Sulphate Nonlinear Crystal" INTERNATIONAL JOURNAL FOR INNOVATIVE RESEARCH IN MULTIDISCIPLINARY FIELD- SSN: 2455-0620. Special Issue: 21, Jan 2021.
- 16. Rupali B. Kulkarni, S. S. Hussaini and Mahendra D. Shirsat "Exploring the impressive nonlinear Optical and dielectric Properties of cadmium thiourea acetate crystal doped with oxalic acid" Material Today Proceeding 23, (2020) 423-429https://doi.org/10.1016/j.matpr.2020.02.062.
- 17. Siddique Aneesa Fatema, Y.B. Rasal, R.N. Shaikh, M.D. Shirsat, S.S Hussaini, " Integrity in Linear and Nonlinear Optical Properties of L-Tyrosine Doped Bis-thiourea Cadmium Acetate Single Crystal" Journal Ferroelectrics, vol-573. <u>https://doi.org/10.1080/00150193.2021.1890463.page 52-</u>62
- 18. Siddique Aneesa Fatema, Rupali B. Kulkarni, S. S. Hussaini*, Mahendra D. Shirsat " Evaluation of Optical Traits of Urea doped Thiourea Zinc Sulphate (U- ZTS) Metal Complex crystal for NLO Applications" IOSR Journal Of Applied Physics (IOSR-JAP) e-ISSN: 2278-4861.Volume 12, Issue 2 Ser. I (Mar. – Apr. 2020), PP 30-34.
- 19.Siddique Aneesa Fatema, Rupali B. Kulkarni, R.N.Shaikh, Mahendra D. Shirsat, S.S Hussaini, "Focusing Growth and Characterization Studies of Potassium Chloride (KCL) Doped Bis-Thiourea Cadmium Acetate (BTCA) Single Crystals", Published January-Feburary-March, 2020, Research Journey, Volume 07, Issue 01.
- 20.Siddique Aneesa Fatema, R.N. Shaikh, R.B Kulkarni, Mahendra D.Shirsat, S. S. Hussaini " Studies on linear Optical Properties of Potassium Chloride Doped Bis Thiourea Cadmium Acetate Crystals" Our Heritage(UGC Care Listed), ISSN: 0474-9030 Vol-68, Special Issue-12-Feb 2020.
- 21. M I Baig ,Mohd Anis, H. Algarni, M. D. Shirsat, S S Hussaini, "Customizing optical and dielectric traits of ammonium dihydrogen phosphate (ADP) crystal exploiting Zn²⁺ ion for photonic device applications" Chinese Journal of Physics 63 (2020) 70–77 <u>https://doi.org/10.1016/j.cjph.2019.10.015</u>.
- **22.** S.M Azher, Mohd Anis, G. Rabbani, M.D. Shirsat, M.I. Baig, **S.S. Hussaini**, S. AlFaify, Mohammed Ajmal Khan "Growth of NH₄H2PO₄ crystal in urea environment to optimize

linear-nonlinear optical traits for photonic device applications" **Journal of Optik** 185 (2019) 1247-1252.

- 23. R.N. Shaikh Y.B. Rasal, M. D. Shirsat, S.S. Hussaini "Optical Properties Of L-Threonine Zinc Acetate NLO Crystal" RESEARCH JOURNEY International Multidisciplinary E-Research Journal, ISSN- 2348-7143, 6Special Issue 168(B) March 2019 (UGC Approved No. 40705)
- Y.B. Rasal, R.N. Shaikh, R. B. Kulkarni, M. D. Shirsat, S.S. Hussaini "Study Of Bis Thiourea Zinc Sulphate Doped Potassium Dihydrogen Phosphate Crystal" RESEARCH JOURNEY International Multidisciplinary E-Research Journal, ISSN- 2348-7143, 6Special Issue 168(B) March 2019 (UGC Approved No. 40705)
- 25. Rupali B. Kulkarni, Yogesh B. Rasal, Siddique Aneesa Fatima, S. S. Hussaini and Mahendra D. Shirsat* "Thiourea Metal Complex crystal for AR coating in solar thermal devices" RESEARCH JOURNEY International Multidisciplinary E-Research Journal, ISSN-2348-7143, 6Special Issue 168(B) March 2019 (UGC Approved No. 40705)
- 26. R. N. Shaikh, Y. B. Rasal, M. D. Shirsat, S. S. Hussaini "Studies On Linear Optical Properties of ADP-KDP Mixed Crystal For Electro-Optic Applications" International Journal of Advance and Innovative Research, Volume 6, Issue 1 (XIX): January March (2019) 29-32.ISSN-23947780 UGC Approved-63571.
- 27. Y. B. Rasal, R. N. Shaikh, M. D. Shirsat, S. S. Hussaini "Enhancement in optical Properties of Nickel Thiourea nitrate Doping in Potassium Dihydrogen Phosphate(KDP)" International Journal of Advance and Innovative Research, Volume 6, Issue 1 (XIX): January March (2019) 26-28.ISSN-23947780 UGC Approved-63571.
- 28. Siddique Aneesa Fatima, Rupali B. Kulkarni, Mahendra D. Shirsat and S. S. Hussaini "Magnificent Transmutation In Optical Traits Due To Methionine Doping On Zinc Thiourea Sulphate (ZTS) Metal Complex Crystal" Journal of Advance and Innovative Research, Volume 6, Issue 1 (XIX): January – March (2019) 43-47.ISSN-23947780 UGC Approved-63571.
- 29. Rupali B. Kulkarni, Siddique Aneesa Fatima, S. S. Hussaini and Mahendra D. Shirsat "Focusing Superiority Of S-R Method Grown Crystal Over Conventionally Grown Thiourea Zinc Acetate (TZA) Metal Complex Crystal" Journal of Advance and Innovative Research, Volume 6, Issue 1 (XIX): January March (2019) 113-117.ISSN-23947780 UGC Approved-63571.

- 30. Swati S. Kulkarni, Gajanan A. Bodkhe, Nikesh Ingle, S. S. Hussaini, N. N. Shejwal and Mahendra D. Shirsat "Electrochemical Impedance Spectroscopic Study Of Dye Sensitized Solar Cell With Al Doped TIO2 Nanoparticles Photo Anode Sensitized By Eosin Y Dye" Journal of Advance and Innovative Research, Volume 6, Issue 1 (XIX): January – March (2019) 116-115.ISSN-23947780 UGC Approved-63571.
- 31. Swati S. Kulkarni, Gajanan A. Bodkhe, Sumedh M. Shirsat, S. S. Hussaini, N N Shejwal and Mahendra D. Shirsat "Microwave Assisted Synthesis of Aluminum Doped Tatanium Dioxide Nanoparticles for Photovoltaic Applications" International Journal of Engineering Technology Science and Research, Vol 5, Issue 4 April (2018) 1096-1098.
- 32. N.N. Shejwal , S.S. Hussaini , Y. B. Rasal , M.D. Shirsat "Single crystal growth and nonlinear optical analysis of L-glutamine doped ZTS crystal for photonic applications" International Journal of Engineering Technology Science and Research, Vol 5, Issue 4 April (2018) 1096-1098.
- 33. Swati S. Kulkarni, S. S. Hussaini, Gajanan Bodkhe, M.D. Shirsat "Natural Hibiscus Dye And Synthetic Organic Eosin Y Dye Sensitized Solar Cells Using Titanium Dioxide Nanoparticles Photo Anode: Comparative Study" Surface Review & Letters 1850164-DOI:10.1142/SO218625X18501640
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