

CURRICULAM-VITAE

DR. SHAHIN SAYYAD

M.Sc. (Physics), B.Ed, Ph.D

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9326449300

Father Name : SAYYAD KAMAR ALI

Mother Name : SAYYAD SHAMIM

ADHAR NO./ PASSPORT NO: 521608185392 / L9315654

Date of Birth : 22-04-1987

Present work : Assistant Professor

Present Workplace : Shri Shivaji Education Society Amravati's Science College, Nagpur,
Maharashtra

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Educational Qualification:

Examination	Year of Passing	Board/University	Percentage	Division
Ph.D (Physics)	2019	R.T.M Nagpur University		Awarded 20/02/2019
M.Sc (Physics)	2011	R.T.M Nagpur University	71.80%	I (3 rd Merit in University)
B.Ed	2009	R.T.M Nagpur University	58.00%	II
B.Sc	2007	R.T.M Nagpur University	71.25%	I
H.S.S.C	2004	Nagpur Board	69.83%	I
S.C.C	2002	Nagpur Board	73.73%	I

Experience:

Institute	Post	Year	
		From	To
Shri Shivaji Education Society Amravati's Science College, Nagpur	Assistant Professor (UGC-Approved)	30-10-21	Present
Shivaji Science College, Amravati	Assistant Professor (UGC-Approved)	21-09-19	29-10-21
Shivaji Science College, Nagpur	Assistant Professor (Ad-hoc)	2018	20-09-19
Govt. college of Engineering, Nagpur and Shivaji Science College, Nagpur	Assistant Professor (CONTRIBUTORY)	2018	2019
Physics Department, RTM Nagpur University	Senior Research Fellow	2014	2017
	Junior and senior Research Fellow	2012	2014
Priyadarshini College of Engineering, Nagpur	Lecturer (Ad-hoc)	2011	2012

Name of Supervisor: Dr. Mrs. Smita Acharya, Physics Department, Physics Department, Post Graduate Teaching Department, Rashtrasant Tukdoji Maharaj Nagpur University

Ph.D. THESIS TITLE: -Enhancement of piezo-properties of Bi- based perovskite with complex solid solution for actuator application

Award/ Fellowship/ Achievement

Agencies	Year	Remark
Powder Diffraction pattern of PZT material is selected by International centre for powder diffraction (ICCD)	2016	Product made
UGC, Delhi	2012	MANF Research Fellowship for Ph.D.

Computer Skill : MS-CIT

Membership of Professional Bodies

Name of the Body	Statues of Membership: Life/Annual
1. Indian Association of Physics Teachers (IAPT)	Life Member No. L8863
2. The Indian Science Congress Association (ISC)	Life Membership No. L40823
3. Material Research Society of India (MRSI)	Life Member No. LMB3534

Co-curricular and extra- curricular Activities

1. Guest Lecture at Anjuman College of Engineering & Technology, 11-06-22 (Topic: - Nanotechnology)
2. Guest Lecture at Shri Shivaji College, Amravati, NSCT-2020 (Topic: -Hydrothermal Synthesis)
3. Guest Lecture at Porwal College, Kamptee, Nagpur- 2019-2020 (Topic: - LASER)

Reviewer Paper-02 / Book Chapter-02

1. **Book.** Cambridge University Press India Pvt Ltd., 2022-2023 "Nanoscience and Nanomaterials "&: "Piezoelectric materials and PZT crystals Chapter in *"Intelligent Materials by Design"*
2. **Book.** Cambridge University Press India Pvt Ltd., 2023-2024 "Nano sensor for Healthcare and Environmental Monitoring"
3. **Journal** of Optics, Springer, 2022 "Wet chemical synthesis and photoluminescence study of Eu³⁺ activated orthophosphate-based phosphor for n-UV based solid-state lighting.
4. **Journal** of Optics, Springer, 2023 "Study Optical properties of Ca₁₂Al₁₄O₃₃: Dy³⁺, Sm³⁺, Tb³⁺ phosphor via Combustion synthesis method

Publication:

ORCID: <https://orcid.org/0000-0003-3980-4359>

Google Scholar Profile:

<https://scholar.google.com/citations?user=7btkl0AAAAAJ&hl=en>

<u>No. Of Papers</u>	<u>Citations</u>	<u>h-index</u>	<u>i10-index</u>
<u>14</u>	<u>81</u>	<u>3</u>	<u>1</u>

Scopus ID: 57208742115, 55792719600

Vidwan Id: <https://vidwan.inflibnet.ac.in/profile/544356>

Major/Minor Research Project:

1. Minor Research Project entitled “Device Grade Compositionally engineered lead-free Ceramic at morphotropic phase Boundary to design superior high-temperature dielectrics for Energy Storage Applications” for two years on date March 2024 under RTMN University Research Project Scheme (URPS) of amount Rs.3,00,000/-

Journal Article: 12

1. Wet chemical synthesis and photoluminescence properties of NaSrPO₄:Dy³⁺ and NaSrPO₄:Eu³⁺ phosphors for near

C. M. Nandanwar, N. S. Kokode, A. N. Yerpude, R. M. Yerojwar & S. K. Sayyad,
Journal of Optics (2023), SCI, Springer. doi- 10.1007/s12596-023-01387-4, IF: - 1.8

2. Study of [Pb(Fe_{1/2}Nb_{1/2})O₃]- (SiO₂-B₂O₃) by sol-gel technique

Tanveer Quazi, Shahin Sayyad, S. A. Acharya, Kamal Singh, and Mohammad Anwarul Siddiqui,
Ferroelectrics , Taylor & Francis, Volume 616, 2023 - Issue 1 2023,

<https://doi.org/10.1080/00150193.2023.2269151>

3. A lead-free flexible polymer/ceramic based nanocomposites Thin film for electronic application

Shahin Sayyad S., A. Acharya, S. A. Pande, Tanveer Quazi and S. W. Anwane
Ferroelectrics , Taylor & Francis, Volume 616, 2023 - Issue 1, 2023,

<https://doi.org/10.1080/00150193.2023.2269153>

4. Structural, electrical and magnetic characterization of (1-x) BiFeO₃-xBaTiO₃

Shahin Sayyad, Tanveer Quazi, S. Acharya and Kamal Singh **Ferroelectrics**, Tylor and Francis,
10.1080/00150193.2022.2034415 (2021)

5. Low temperature synthesis of complex solid solution (1-x) Bi_{0.5}Na_{0.5}TiO₃-xBaTiO₃ system: BT induced structural and dielectric anomalies in NBT, Sayyed Shahin and Acharya S. A

Ferroelectrics 537(1):112-132 · December 2018, DOI: 10.1080/00150193.2018.1528950

6. Structural and dielectric anomalies near the MPB region of $\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3\text{--SrTiO}_3$ solid

Solution, Sayyed Shahin, Acharya, S. A., A Kautkar, P and Sathe, V.

JRSC Advances (Royal Society of Chemistry), V5, 50644–50654, DOI: 10.1039/c5ra05617a, 2015, Royal Society of chemistry, [Impact factor: 2.936], 5-year **impact factor: 4.036**, Indexed in Scopus, ISI and DOAJ

7. Preperation and Characterization of Barium iron Niobate (BFN)

Tanveer Quazi, Kamal Singh, Shahin Anjum

International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169, Volume: 3 Issue: 2 123- 128,2015. (**IMPACT FACTOR-4.101**)

8. Influence of Liquid phase lead borate glass on dielectric response of lead iron niobate

Tanveer Quazi, Kamal Singh, Shahin Sayyed , S. Acharya, *Journal of Alloys and Compounds*, 587(2014)-26-31, [http://dx.doi.org/10.1016/j.jallcom.2013,Elsevier](http://dx.doi.org/10.1016/j.jallcom.2013.08.013), [CiteScore: 3.66, **Impact Factor: 6.371**, 5-Year Impact Factor: 3.315, Source Normalized Impact per Paper (SNIP): 1.403, SCImago Journal Rank (SJR-2017): 1.020]

9. Percolation Effect of PZT-BNT Composite System on Sinterability and Dielectrics Behaviors in View of Development of LTCC

Joshi, Shraddha, Sayyed Shahin, Acharya, S.A., *Ferroelectrics*, Volume 481,P155-165 2015 Issue1, Taylor and Francis [**Impact Factor: 0.728**]

10. Influence of Synthesis Route on Morphology And Dielectric Properties Of PZT Nanostructures By Sol-Gel Process, Sayyed S.K., Aruna Dani, Acharya S.A.

International Journal of Knowledge Engineering, ISSN: 0976-5816 & E-ISSN: 0976-5824, Volume 3, Issue 1, 2012, pp.-38-40., Bioinfo Publication

Conference Proceedings: 10

1. Influence of Lead Glass on Different Properties Of Lead Iron Niobate (PFN)

Tanveer Quazi, Leena Gahane, Kamal Singh, Shahin Sayyad

AIP Conference Proceedings 2104, 030056 (2019); <https://doi.org/10.1063/1.5100483>),

2. “Enhancement in the relaxation properties at the MPB composition in $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3\text{--BaTiO}_3$ system with the addition of Ce^{3+} ions” (Abstract), S. K. Sayyed and S. A. Acharya,

Proceedings of Proceeding of National seminar on Ferroelectrics and Dielectrics (NSFD-2016)

3. “Effect of divalent Ba^{2+} substitution on the phase formation and dielectric properties of

Bismuth Sodium Titanate $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ lead free piezoelectric ceramics" S. K. Sayyed and S. A. Acharya, Proceedings of National Conference on Functional Glasses/ Glass- Ceramics and Ceramics (NCFG-2015).

4. **"Development of Morphotropic Phase Boundary (MPB) in Bi-Based (BNT) Lead free piezoelectric ceramics and influence on the dielectric properties"**
S. K. Sayyed and S. A. Acharya, Proceedings of JNC SAR-Cambridge University Winter School-2015.
5. **"Study of Structural Phase Transition and Dielectric Behaviors of BiNaTiO_3 - SrTiO_3 (BNT-ST) solid solution"** S. K. Sayyed and S. A. Acharya, Proceedings of the 14th Asian Conference on Solid State Ionics (ACSSI 2014), **SINGAPUR**, ISBN: 978-981-09-1137-9, Doi:10.3850/978-981-09-1137-9 100.
6. **"Effect of processing conditions on the microstructure of pure phase $\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3$ Lead Free Piezoelectric Material"**, S. K. Sayyed and S. A. Acharya, Proceedings of National Symposium on "Recent Advances in Physics and Material Science (RAPMS-2014)"
7. **"Effect of Synthesis Condition on Phases Of BNT-BTBased Solid Solution"** (Abstract), S.K.Sayyed and S.A.Acharya, Proceedings of International Union of Materials Research Society's International Conference in Asia -2013 (IUMRS-ICA 2013).
8. **"Synthesis of PZT nanorods and study of dielectric behaviour"** S.K.Sayyed and S.A.Acharya **AIP conference Proceedings**, 1536(2013)111, doi: 10.1063/1.4810125.
9. **"Effect of microstructure on dielectric and ferroelectric behaviour of $(\text{Bi}_{0.5}\text{Na}_{0.5})_{1-1.5x}\text{Bi}_x\text{TiO}_3$ ($x = 0, 0.01-0.06$) lead-free piezoelectric ceramics."** (Abstract) S. K. Sayyed and S. A. Acharya, Proceeding of National seminar on Ferroelectrics and Dielectrics (NSFD-2012)
10. **"Understanding the role of mode of heating on phase formation of Fe-Pt nanoparticles,** S.A.Acharya, A.Dani, S. K. Sayyed and V. M. Gaikwad, Advanced Nanomaterials and Nanotechnology, Springer Proceedings in Physics 143, Doi: 10.1007/978-3-642-34216-5_5 (2013).

Thesis Presentation: -

1. **Enhancement of piezo-properties of Bi- based perovskite with complex solid solution for actuator application**, National Symposium on "Functional Materials for Sustainable Development" -2022, 10-12 Oct, RTMNU, Nagpur

MOOCS/NPTEL/Swayam Courses:

1. **“ Bootcamp to Relativistic Quantum Mechanics”** September 14 to August 14,2024 UDEMY
2. **“A Boot Camp to Special Theory of Relativity”**- November 27 to December 22, 2021- UDEMY.
3. **“NPTEL Online Certificate Experimental Technique’s in Physics”**- 12 Weeks, Jan-April 2022 - IIT Kanpur - **Passed in Silver Elite Group.**
4. **“A Boot Camp to Nuclear”** 12.06.22 to 12.07.22- UDEMY
5. **“NPTEL Online Certificate Solid State Physics”**- 12 Weeks, Jul-Oct 2023 -IIT Kanpur- **Exam TOPPER** Passed in Silver Elite Group.

FDP/FIP/Orientation Courses/Refresher course Attended: 03

1. **Online Short-Term FDP “Emotional Intelligence for Teacher in Higher Education”** - 16th to 25th November 2023 -Carrer Katta MITSC, IPDC Shivaji Science College Amravati & UGC-MMTTC SGBAU Amravati.
2. **Refresher Course – ICT**, Technical Desk, UGC – HRDC, Sant Gadge Baba Amravati University, 16th – 28th August 2021
3. **4- Week Orientation/Induction Program for Faculty in Universities/ Colleges / Institute of Higher Education** From 04 June – 1st July 2020 Organized by Teaching Learning Centre Ramanujan College, University of Dehli
4. **31st Online Short-term Course on E- Content Development**, by UGC- Human Resource Development Centre, Gujarat University, 28 May-03 July-2020.
5. **MS-DEED Level 1 In-Person Workshop on Introduction to Innovative Pedagogies for College Teachers**- RTMNU, Nagpur in Collaboration IISER Pune and MSFDA, 17.11.22 to 19.11.22.

Conference/Workshops/Webinar Attended: 26

1. 18 September 2024 One Day International Multidisciplinary Conference on Climate Change: Contemporary Challenges with Local to Global Perspectives at Nagpur on the topic of "Applications of nanotechnology in the realm of renewable energy.”
2. 28-29 August 2024 – Computer Interfaced Physics Experiments using EXPEyes-17/SeeLab3
3. International Conference on Advanced Sustainable Futuristic Material 2024 26-27, Kamla Nehru Mahavidyalaya .

4. 108th Indian Science Congress, 3-7January,2023, RTM Nagpur University, Nagpur
5. National Symposium on “Functional Materials for Sustainable Development” -2022, 10-12 Oct, RTMNU, Nagpur
6. National e-Conference on Recent Advances for Innovative Research in Mathematics, Department of Mathematics & IQAC, Indira Gandhi Kala Mahavidyalaya, Ralegaon, Dist. Yavatmal, 28 Sept 2021
7. National e-Conference on Materials for Emerging Technologies (MET) - 2021
Organized by School of Physical Sciences, Punyashlok Ahilyadevi Holkar Solapur University, Solapur, 22nd March 2021.
8. International on E-conference on Recent Advanced In Material Science and Nanotechnology RAMAN -2021) by Dept. Of Physics, Arts, Commerce & Science College, Maregoah,7-9Feb, 2021
9. **National Seminar on Ferroelectric and Dielectric, (NSFD-2021)**, Physics Dept. R.T.M. Nagpur University, Nagpur, 10-13, 2021
10. **International Web Conference on Science, Engineering & Technology (IWCSET-2020)**,
By Society for Technologically Advanced Materials of India(STAMI)-May15-16-2020
11. Online Quiz on COVID-19 Pandemic General Awareness, Jagdamba Mahavidyalaya, Achalpur city, 21 May-2020
12. **Webinar on “Skill of Writing Proposal to Acquire Research Funding”**, Priyadarshani Bhagwati College of Engineering, Nagpur, 4th July 2020
13. **Webinar on “NAAC Assessment & Accreditation for AQAR Process”** On, 14th July 2020, IQAC-cell Anjuman College of Engineering & Technology, Nagpur
14. **National Conference on Innovative Research in Science and Technology**, Shri Shivaji Science College, Amravati, 17-18 Dec 2019, Topic: - In of A and B-site Substitution Effect on Structural and Electrical Behaviour of BNT-ST Solid Solution.
15. **XIX National seminar on Ferroelectric and Dielectrics**, held at Department of Physics MANIT- Bhopal on 19-21 December 2016.
16. **National Conference on Functional Glasses/ Glass- Ceramics and Ceramics (NCFG-2015)** held at Department of Physics VNIT Nagpur on 10-12 December 2015.
17. **Winter School-2015 on Frontiers in Materials Science at JNC SR Bangalore held on 7th-10th December 2015.**
18. **2nd National conference on Recent Advances in Physics and Materials Science (RAPMS -2015)**

held at Department of Physics, R.T.M. Nagpur University on 28th Feb 2015.

19. **14th Asian Conference on Solid State Ionics (ACSSI 2014)** will be held from 24-27 June 2014 at the University Town of National University of Singapore.
20. **National Symposium on “Recent Advances in Physics and Material Science (RAPMS-2014)** held at Department of Physics R.T.M. Nagpur University, Nagpur on 11th January 2014.
21. **International Union of Materials Research Society’s International Conference in Asia -2013 (IUMRS-ICA 2013)** held at IISC Bangluru on Dec 16-20, 2013.
22. **Workshop on Patents and related Issues at Nagpur held on 28-29th October 2013** hosted at Gurunanak bhavan Nagpur, organized by Rashtrasant Tukdoji Maharaj Nagpur University, Technology park, Patent Cell, Nagpur.
23. **International Conference on Recent Trends in Applied Physics & Material Science (RAM-2013)** at Govt. College of Engineering and Technology, Bikaner, Rajasthan (India) held on Feb 1-2, 2013.
24. **National seminar on Ferroelectrics and Dielectrics (NSFD-2012)** at Bhuvneshwar, Orissa (India) held on 17-19th December 2012 at Institute of Technical Education and Research (ITER), Bhubaneshwar, Odisha (India).
25. **National Conference on Advanced Materials for Engineering & Technology (NCAMET-2012)** held in Priyadarshini College of Engineering, Nagpur on 15th and 16th March 2012.
26. **National Seminar on Material Preparation and characterization-2012 under SAP (DRS Level-II)** sponsored by UGC, New Delhi held at Department of Physics, R.T.M. Nagpur University, Nagpur on 27th February 2012.
27. **UGC Sponsored “National Conference on Nano-science and Nanotechnology (NCNST-2011)** held at Shivaji Science College, Nagpur on 21-22 Feb 2011.

➤ **Awards/Prizes: 04**

1. Maulana Azad National Fellowship, UGC, Dehli
2. **First Prize- Best Poster Award:** National Conference on Innovative Research in Science and Technology, Shri Shivaji Science College, Amravati, 17-18 Dec 2019, Topic: - In of A and B-site Substitution Effect on Structural and Electrical Behaviors of BNT-ST Solid Solution.
3. **1st prize** in Research scholar seminar competition under Ramanujan Conference 2015-16 organized by Indian Science Congress Association and R.T.M. Nagpur University during Dec

2013 to Jan 2014.

4. **3rd prize** for Ph.D. topic presentation under Young scientist Award Meet organized by Indian Science Congress Association and R.T.M. Nagpur University. (2012-13).

➤ **Foreign Conference attends**

1. 14th Asian Conference on Solid State Ionics (ACSSI 2014),(Oral Presentation)), **SINGAPORE**

➤ **Book and Chapter Published: 03+ 02 Book edited**

1. Applied Physics, Tanveer Quazi, Jasmir Kaur Randhava, Uma Gainkwad, smita C. Tolani, Prashant Ambekar, Shahin Sayyad, Alliance & Co., 2021, ISBN No. 978-81-951772-1-9,
2. Advanced Engineering Materials, Tanveer Quazi, Jasmir Kaur Randhava, Uma Gainkwad, Smita C. Tolani, Prashant Ambekar, Shahin Sayyad, Alliance & Co., 2021, ISBN No. 9788195177271
3. S. A. Acharya, A. Dani, S. K. Sayyed, V. M. Gaikawad, Understanding the Role of Mode of Heating on Phase Formation of Fe-Pt Nanoparticles, ***Advanced Nanomaterials and Nanotechnology***, Springer, Vol. 143, 2013, 51-63.

➤ **Summer/ Winter School**

1. Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, Winter School-2015 **(15 Days)**
2. Physics Department, R.T.M Nagpur University, Nagpur, National School on Computer Assisted spectroscopic data interpretation technique-2019.

➤ **Workshop**

1. One Week Workshop on Research Methodology, VNIT 2-8 Nov 2015.
2. Workshop on “Patents & Related Issues” 28-29 October 2013.

➤ **Consultancy**

Involved in generating consultancy through Materials Characterizations of the facility with the aid of Bruker Alpha FTIR, Shimadzu UV VIS Spectrophotometer UV-1800, Shimadzu Spectrofluorophotometer RF 5301PC and Agilent IMPEDANCE ANALYZER 4294A (since 2021-22)

I here informed that all the above information is correct my knowledge

DATE:

Signature

PLACE: NAGPUR

(Dr. S. A Sayyad)