CURRICULUM VITAE

1. **Name** : Dr. Parvez Abdul Ajij Shaikh
2. **Designation** : Assistant Professor
3. **Office Address** : Department of PHYSCS,

E-mail:
parvez.shaikh@poonacollege.edu.in

4. **Date of Birth** : 22:10:1982
5. **Academic Qualification**

Degree	Year	Institution/ Board	Country
M. Sc	**2007**	**Shivaji University,**	**INDIA.**
Ph.D.	**2010**	**Shivaji University,**	**INDIA.**

6. **Teaching Experience**

Duration	Position Held	Organization
June 2008 – May 2010	Teacher Assistant	Shivaji University Kolhapur
May 2010 - April 2011	Project Assistant	National Chemical Laboratory, PUNE
April 2011 - April 2014	CSIR Research Associate	National Chemical Laboratory, PUNE
July 2014– March 2017	Post-doctoral Fellow	King Abdullah University of Science and Technology, Kingdom of Saudi Arabia.
07/03/2017 to PRESENT	Assistant Professor	Y & M, Anjuman Khairul Islam's Poona College of Arts, Science & Commerce, Pune, India.
05/11/2019 to 05/11/2022	Visiting Faculty as DST-SERB-TARE Fellow	Indian Institute of Technology-Indore Madhya Pradesh

7. PhD Topic : Studies on structural and physical properties of $Co_{1-x}Ni_xFe_{1.9}Mn_{0.1}O_4$ and $(PbMg_{1/3}Nb_{2/3})O_3$-$PbTiO_3$

8. Area of Interest : Nano-material synthesis by chemical methods; Magnetoelectric Composites; Ferrite & Ferroelectrics; Photodetectors; Photo-electro-chemical water splitting; Solar water desalination, optoelectronic devices and solar cell. Acquainted with various chemical synthesis process for nanoparticles and also device fabrication using thin film deposition techniques such as PLD and sputtering. Also research work focuses on looking at the applications of various materials in nano-electronic devices such as solar cells, photodetectors, diode and resistive switching memory devices.

9. Courses Taught : Instrumentation, Solid State Physics, Waves and Oscillations, Nanotechnology etc.

10. Other Innovative Activities : Participated in national/interantional conferences.

11. Membership of Learned Societies and Administrative Bodies;

- NIL

12. Abroad Visits

- Worked as postdoctoral fellow at King Abdullah University of Science and Technology, Kingdom of Saudi Arabia.

13. Publication Details

a) Name of the Journals/ Books in which papers are published

[1] Arif D. Sheikh, Rahim Munir, Md Azimul Haque, Ashok Bera, Weijin Hu, ParvezShaikh, Aram Amassian, and Tom Wu, Effects of High Temperature and Thermal Cycling on the Performance of Perovskite Solar Cells: Accelerationof Charge Recombination andDeterioration of Charge Extraction Applied materials and interface 2017, 9 (40), pp 35018–35029 Impact factor: 7.1Year 2016

[2] Parvez A. Shaikh, D. Shi, A. D. Sheikh, J. R. D. Retamal, Md. A. Haque, C. Kang, Jr-Hau He,Osman Bakr and Tom Wu Schottky junctions formed on perovskite single crystals: lightmodulateddielectric constant and self-biased photodetection J. Material Science C 2016, 4,8304–8312. Impact factor: 5.1Year 2014

[3] Parvez A. Shaikh, Vishal Thakare, Dattatray Late, and SatishchandraOgale "Back-to-backMOS-Schottky (Pt-SiO_2-Si-C-Pt) nano-heterojunction device as an efficient self-poweredphotodetector: One step fabrication by pulsed laser deposition" Nanoscale 2014, 6,3550.Impact factor: 7.4

[4] Dattatray J. Late*, Parvez A. Shaikh, RuchitaKhare, Ranjit V. Kashid, Minakshi Chaudhary,Mahendra A. More, Satishchandra B. Ogale* Pulsed Laser-Deposited MoS_2 Thin Films on Wand Si: Field Emission and Photoresponse Studies Applied materials and interface 2014 6(18), pp 15881–15888Impact factor: 7.1

[5] Ajay Jha, DattakumarMhamane, Anil Suryawanshi, Parvez A. Shaikh, Narayan Biradar,Satish Ogale and C. V. Rode Triple nanocomposites of $CoMn_2O_4$, Co_3O_4 and reducedgraphene oxide for oxidation of aromatic alcohols Catalysis Science &Technology 2014, 4,1771. Impact factor: 5.4

[6] Y. D. Kolekar, A. Bhaumik, P. A. Shaikh, C. V. Ramana and K. Ghosh Polarization switchingcharacteristics of $0.5BaTi_{0.8}Zr_{0.2}O_3$-$0.5Ba_{0.7}Ca_{0.3}TiO_3$ lead free ferroelectric thin films bypulsed laser deposition J. Appl. Phy.2014, 115, 154102 Impact factor: 2.22Year 2013

[7] Parvez A. Shaikh, Abhik Banerjee, Onkar Game, YesappaKolekar, Sangeeta Kale and SatishOgale* "Citrate milling of oxides: From poly-dispersed micron scale to nearly monodispersednanoscale" Physical Chemistry Chemical Physics 15, 5091, 2013. Impact factor:4.5

[8] Wegdan Ramadan, Parvez A. Shaikh, Sh. Ebrahim, Abdallah Ramadan, Beatrice Hannoyer,Samuel Jouen, Xavier Sauvage and Satish Ogale "Highly Efficient Photocatalysis by$BiFeO_3$/α(γ)-Fe_2O_3 Ferromagnetic Nano p/n Junctions Formed by Dopant Induced PhaseSeparation" Journal of Nanoparticles Research 15:1848-18 (2013) Impact factor: 2.27Year 2012

[9] Parvez A. Shaikh and Y. D. Kolekar "Study ofmicrostructural, electrical and dielectricproperties of perovskite 0.7 PMN - 0.3 PT ferroelectric at different sintering temperature"Journal of Analytical and Applied Pyrolysis 93, 2012, Pages 41–46. Impact factor: 3.7

[10] Sarika A. Kelkar, Parvez A. Shaikh, Pradip Pachfule and Satish B. Ogale "NanostructuredCd2SnO4 as an energy harvesting photoanode for solar water splitting" Energy andEnvironmental science 2012, 5, pages 5681-5685 Impact factor: 29.5Year 2011

[11] M.S. Khandekar, R.C. Kambale, S.S. Latthe, J.Y. Patil, P. A. Shaikh, N. Hur, S.S. Suryavanshi"Role of fuels on intrinsic and extrinsic properties of $CoFe_2O_4$ synthesized by combustionmethod" Materials Letters 65 (2011) 2972-2974. Impact Factor: 2.3Year 2010

[12] P. A. Shaikh, R.C.Kambale, A.V.Rao and Y.D.Kolekar "Effect of Ni doping on structural andmagnetic properties of $Co_{1-x}Ni_xFe_{1.9}Mn_{0.1}O_4$ Ferrite" Journal of Magnetism and MagneticMaterials 322(2010) 718-726. Impact Factor: 2.4

[13] P. A. Shaikh, R.C.Kambale, A.V.Rao and Y.D.Kolekar "Structural, magnetic and electrical
properties of Co-Ni-Mn ferrites synthesized by co-precipitation method" Journal of Alloysand Compounds 492 (2010)590-596. Impact Factor: 3

[14] R.C.Kambale, P. A. Shaikh, N. S .Harale, V. A. Bilur, C. H. Bhosale, K. Y. Rajpure and Y. D.Kolekar "Structural and magnetic properties of $Co_{1-x}Mn_xFe_2O_4$ ($0<x<0.4$) spinel ferritessynthesized by combustion route" Journal of Alloys and Compounds 490 (2010) 568-571.
Impact Factor: 3

[15] R. C. Kambale, P. A. Shaikh, C. H. Bhosale, K. Y. Rajpure and Y. D. Kolekar "Studies onmagnetic, dielectric and magnetoelectric behavior of (x) $NiFe_{1.9}Mn_{0.1}O_4$ and $(1-x)BaZr_{0.08}Ti_{0.92}O_3$magnetoelectric composites" Journal of Alloys and Compounds489 (2010)310-315. Impact Factor: 3

[16] R.C.Kambale, P. A. Shaikh, Y. D. Kolekar, C. H. Bhosale and K. Y. Rajpure "Studies ondielectric and magnetoelectric behavior of 25 % CMFO ferrite and 75 % BZT ferroelectricmultiferroic magnetoelectric composites" Materials Letters 64 (2010) 520-523. ImpactFactor: 2.3

[17] R. C. Kambale; P. A. Shaikh; K. Y. Rajpure; P. B. Joshi; Y. D. Kolekar "Studies on Structuraland Dielectric Properties of CMFO Ferrite and BZT Ferroelectric MagnetoelectricComposites" Integrated Ferroelectrics, 121:1–12, 2010. Impact Factor: 0.37Year 2009

[18] P. A. Shaikh, R.C.Kambale, A.V.Rao and Y.D.Kolekar "Studies on Structural and ElectricalProperties of $Co_{1-x}Ni_xFe_{1.9}Mn_{0.1}O_4$ Ferrite" Journal of Alloys and Compounds 482 (2009)276–282.Impact Factor: 3

[19] P. A. Shaikh, R.C.Kambale, A.V.Rao and Y.D.Kolekar "Comparative studies on structuraland Electrical Properties of Lead Titanate Synthesized by Ceramic and Co-precipitationMethod" Journal of Alloys and Compounds 486 (2009) 442–446. Impact Factor: 3

[20] R.C.Kambale, P. A. Shaikh, S.S.Kambleand Y.D.Kolekar "Effect of cobalt substitution onstructural, magnetic and electric properties of nickel ferrite"Journal of Alloys andCompounds 478 (2009) 599-603.Impact Factor3

[21] R.C.Kambale, P. A. Shaikh, C.H.Bhosale, K.Y.Rajpure and Y. D. Kolekar "Dielectricproperties and complex impedance spectroscopy studies of mixed Ni-Co ferrites" Smart Mater. Struct.18 (2009) 085014 (6pp) Impact Factor: 2.44

[22] R.C.Kambale, P. A. Shaikh, C.H.Bhosale, K.Y.Rajpure and Y.D.Kolekar "The Effect of Mnsubstitution on the magnetic and dielectric properties of cobalt ferrite synthesized byautocombustion route" Smart Mater. Struct.18 (2009) 115028 Impact Factor: 2.44

[23] M.M. Mallapur, P. A. Shaikh, R.C. Kambale, H.V. Jamadar, P.U. Mahamuni, B.K. Chougule"Structural and electrical properties of nanocrystalline cobalt substituted nickel zincferrite" Journal of Alloys and Compounds479 (2009) 797–802. Impact Factor: 3

b) Papers published in Conferences / Seminars

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c) Papers presented in Conferences / Seminars

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14. Participation in National/International One Week -duration Workshops

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15. Participation in Conferences / Seminars / Workshops;

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16. Contributions to Corporate Life

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17. Supervising the Ph.D. Candidates:

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Dr. Parvez Abdul Ajij Shaikh