

List of Publications in International Journals

1. **A. Sachdeva**, and R.P. Tandon, X-ray Diffraction and Raman Spectroscopy Studies on Calcium Modified PZT ($\text{Pb}(1-x)\text{Ca}_x\text{Zr}_{0.52}\text{Ti}_{0.48}\text{O}_3$) Ceramics prepared via Solid State Reaction Method and Sol-Gel Technique- A Comparative Study, J. Ceram. Process. Res. 23(6) 817-822. **(Date of Acceptance- 23rd July 2022, Published on 31st Dec 2022).**
<http://www.jcpr.or.kr/journal/download/pdf/2740>
2. **A. Sachdeva**, Aarushi, J.K. Anand, and R.P. Tandon, Effect of calcium addition on microstructure and electrical properties of lead zirconate titanate ceramic compositions near MPB, J. Ceram. Process. Res. 23 (1) 99-108.
<http://www.jcpr.or.kr/journal/download/pdf/2633>
3. H. Kushwah, J. K. Anand, **A. Sachdeva**, Enhancement of Optical Coupling Efficiency of Surface Plasmon Resonance Based Sensors, IEEE Access. 10 (2021) 879-892. <https://ieeexplore.ieee.org/document/9661377>
4. P. Gautam, **A. Sachdeva**, S. K. Singh, R. P. Tandon, Dielectric functions and energy band gap variation studies of manganese doped $\text{Bi}_{0.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ thin films using spectroscopic ellipsometry, Journal of alloys and compounds. 617 (2014) 374-378. <https://doi.org/10.1016/j.jallcom.2014.07.216>
5. **A. Sachdeva**, R. P. Tandon, Effect of sol composition on dielectric and ferroelectric properties of PZT composite films, Ceramics International. 38 (2012) 1331-1339.
<https://doi.org/10.1016/j.ceramint.2011.09.009>
6. **A. Sachdeva**, M. Kumar, V. Luthra, R. P. Tandon, Phase evolution studies of sol-gel derived lead zirconate titanate (PZT) nanopowder using X-ray diffraction and X-ray photoelectron spectroscopy, Applied Physics A: Materials Science and Processing. 104 (2011) 103-108. <https://doi.org/10.1007/s00339-011-6301-8>
7. **A. Sachdeva**, V. Luthra, P. Gautam, R. P. Tandon, Dielectric and ferroelectric studies on sol-gel derived calcium modified lead zirconate titanate ceramics, Integrated Ferroelectrics. 122 (2010) 74-82. <https://doi.org/10.1080/10584587.2010.492289>
8. **A. Sachdeva**, P. Gautam, V. Luthra, R. P. Tandon, Structural and Electrical Properties of Lead Zirconate Titanate 0–3 Composite Films, Integrated Ferroelectrics. 122 (1) (2010) 134-143. <https://doi.org/10.1080/10584587.2010.492294>

9. P. Gautam, **A. Sachdeva**, S. K. Singh, M. Arora, R. P. Tandon, Dielectric Functions of Niobium Doped $\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ Thin Films Using Spectroscopic Ellipsometry, *Integrated Ferroelectrics*. 122 (1) (2010) 126-133.
<https://doi.org/10.1080/10584587.2010.492293>
10. M. Arora, **A. Sachdeva**, V. Luthra, R. P. Tandon, R. P. Pant, Sol-Gel Derived Nanocrystalline Lanthanum Doped Lead Zirconate Titanate Thin Films Studied for Solitary Waves Propagation, *Integrated Ferroelectrics*. 122 (1) (2010) 144-151.
<https://doi.org/10.1080/10584587.2010.504417>
11. **A. Sachdeva**, M. Arora, R. P. Tandon, Synthesis and characterization of sol-gel derived PZT nano powder, *Journal of Nanoscience and Nanotechnology*. 9 (2009) 6631–6636. <https://doi.org/10.1166/jnn.2009.1314>

List of Paper Presentations in Conferences

1. Jagneet Kaur Anand, Himanshu Kushwah, **Anupama Sachdeva**, Understanding the performance of surface plasmon based sensors from the first principle, European lasers, photonics and optics technologies summit (ELOS-22), 5th Sept. 2022-6th Sept. 2022 (online mode), International Conference organized by Magnus group.
2. **A. Sachdeva**, and R.P. Tandon, Comparison of Dielectric Properties of Sol-Gel Derived Pure and Calcium Modified Lead Zirconate Titanate Ceramics and Thick Films of Compositions Near MPB, World Engineering Conference on Contemporary Technologies (WECON- 2022), 20-21 May 2022, International Conference Organized by Chitkara University, India.
3. H. Kushwah, J. K. Anand, **A. Sachdeva**, Solutions of Electric Flux Lines in Transverse Magnetic Surface Plasmon Modes at Metal-Dielectric Interface, World Engineering Conference on Contemporary Technologies (WECON- 2022), 20-21 May 2022, International Conference Organized by Chitkara University, India.
4. **A. Sachdeva**, and R.P. Tandon, Effect of processing conditions on structural and electrical properties of calcium modified PZT ceramics, International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials (ICWNCN) Organized by Department of Physics and Astrophysics, University of Delhi, India during March 13-16, 2012.
5. P. Gautam, **A. Sachdeva**, N. C. Mehra, R. P. Tandon and Swati Arora, Structural, morphological and optical studies of Mn doped $\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ (BLT) thin films, International Conference on advances in Electron Microscopy and Allied Fields (EMSI- 2010), Held during 8-10 March, 2010, Bhaba Atomic Research Centre (BARC) Mumbai, India
6. **A. Sachdeva**, V. Luthra, P. Gautam, R. P. Tandon, Dielectric and ferroelectric studies on sol-gel derived calcium modified lead zirconate titanate ceramics, International Conference on Electroceramics (ICE – 2009) organised by Department of Physics and Astrophysics, University of Delhi during 13th –17th December, 2009
7. M. Arora, **A. Sachdeva**, V. Luthra, R. P. Tandon, R. P. Pant, Sol-Gel Derived Nanocrystalline Lanthanum Doped Lead Zirconate Titanate Thin Films, International Conference on Electroceramics (ICE – 2009) organised by Department of Physics and Astrophysics, University of Delhi during 13th –17th December, 2009

8. **A. Sachdeva**, and R. P. Tandon, Development of Thick PZT Films, National Conference on Electron Microscopy and Allied Fields (EMSI-2007), held at University of Delhi during Nov 26-28, 2007
9. **A. Sachdeva**, and R. P. Tandon, Synthesis and Characterization of Thick PZT Films, 18th AGM- National Symposium of Material Research Society of India MRSI-2007, held at National Physical Laboratory, New Delhi, India during Feb 12-14, 2007

List of Papers Published in Proceedings of International Conferences

1. **Anupama Sachdeva**, and R. P. Tandon, Comparison of dielectric properties of sol–gel derived pure and calcium modified lead zirconate titanate ceramics and thick films of compositions near MPB, Materials Today: Proceedings, Volume 71, Part 2, 2022, Pages 174-178
2. Himanshu Kushwah, Jagneet Kaur Anand, **Anupama Sachdeva**, Solutions of electric flux lines in transverse-magnetic surface plasmon modes at metal-dielectric interface, Materials Today: Proceedings, Volume 71, Part 2, 2022, Pages 191-194