


Faculty Profile

Name	:	Dr. SAKTHIPANDI K	
Date of Birth	:	22/05/1982	
Highest Qualification	:	Ph.D.	
Date of Joining	:	01/03/2021	
Designation	:	Professor	
Date of promotion (Present Designation)	:	01/09/2022	
Area of Interest	:	Nanomaterials, New Materials, Magnetic Materials, Optical Materials	
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Experience	:	Teaching : 17	Industry : Research : 05
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Association with Professional Bodies

Name (ProfessionalBody)	Type of Membership	Reference No
American Institute of Physics	Life Member	Membership No.11546500
Acoustical Society of India	Life Member	LM-828
Ultrasonic Society of India	Life Fellow	LM-255 & Executive Committee Member (2019-2024)
Indian Physics Association	Life Member	LM/GEN/13187
Neutron Scattering Society of India	Life Member	LM-178
Materials Research Society of India	Life Member	LMB2976
Society for Materials Chemistry	Life Member	LM1179
Magnetics Society of India	Life Member	LM780
Indian Association of Physics Teachers	Life Member	LM13211L8258
The Electrochemical Society of India	Life Member	LM - ECSI/374
Indian Society for Technical Education	Life Member	Membership ID - 134697
International Association of Advanced Materials	Life Member	7001011914716
Indian Physical Society	Life Member	LM/1175
FORCE Biomedical	Life Member	FB-M-19-001345
Instrumentation Society of India	Life Member	LM2698
Indian Crystal Growth Association	Life Member	LM 36/2023

Research

Ph. D Guidance					
Supervisor / Guide ship No. :	2370526	University :	Anna University	No. of Scholars :	02 Completed
Publication*					
International Journals :	94	National Journals :	02		
International Conference :	50	National Conference :	47		
Project Grants (Research projects guided or undertaken/ Sponsored Projects)					
Received (Amount) :	81.97 Lakhs	Applied (Amount) :	2.74 Cores		
Patent					
Published :	06	Granted :	01		

Books

Published :	07
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FDPs / STTPs / Workshops / Seminars etc.,

FDP		STTP		Workshop		Seminar		Others	
Attended :	17	Attended :	06	Attended :	29	Attended :	32	Attended :	
Organized :	05	Organized :	-	Organized :	03	Organized :	04	Organized :	

Online courses (NPTEL, MOOC etc.)	02
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List of Publications :*INTERNATIONAL JOURNALS**

1. S. Sankarrajan, S. Aravindan, R. Yuvakkumar, **K. Sakthipandi** and V. Rajendran, Anomalies of ultrasonic velocities, attenuation and elastic moduli in $\text{Nd}_{1-x}\text{Sr}_x\text{MnO}_3$ perovskite manganite materials, Journal of Magnetism and Magnetic Materials, Volume 321, Issue 21, 2009, pp.3611-3620. **[SCI IMPACT FACTOR: 2.7]**
2. **K. Sakthipandi**, V. Rajendran, T. Jayakumar, Baldev Raj and P. Kulandivelu, Synthesis and On-line Ultrasonic characterisation of Bulk and Nanocrystalline $\text{La}_{0.68}\text{Sr}_{0.32}\text{MnO}_3$ perovskite manganite, Journal of Alloys and Compounds, Volume 509, Issue 8, 2011, pp. 3457-3467. **[SCI IMPACT FACTOR: 6.2]**
3. S. Sankarrajan, **K. Sakthipandi**, P. Manivasakan, K. Thyagarajan and V. Rajendran, On-line phase transition in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ($0.28 \leq x \leq 0.36$) perovskites through ultrasonic studies Phase transitions, Volume 84, No. 7, 2011, pp.657-672. **[SCI IMPACT FACTOR: 1.6]**
4. S. Sankarrajan, **K. Sakthipandi** and V. Rajendran, Temperature dependent sound velocities, attenuation and elastic moduli anomalies in $\text{Pr}_{1-x}\text{Sr}_x\text{MnO}_3$ perovskite manganite materials at $0.28 \leq X \leq 0.41$, Phase transitions, Volume 85, Issue 05, 2012, pp. 427 – 443. **[SCI IMPACT FACTOR: 1.6]**
5. S. Sutha, **K. Sakthipandi**, V. Rajendran, R. Palanivelu, C. Uma Rani, T. Jayakumar and Baldev Raj, Structural studies of Nanosilica employing on-line Ultrasonic Studies, Phase Transitions, Volume 85, Issue 7, 2012, pp. 565-576. **[SCI IMPACT FACTOR: 1.6]**
6. S. Sankarrajan, **K. Sakthipandi** and V. Rajendran, Effect of rare earth ions on transition temperature in perovskite materials by online Ultrasonic studies, Material Research, Volume 15, Issue 4, 2012, pp.

7. AV Gayathri Devi, G. Rajkumar, **K. Sakthipandi**, V. Rajendran, N. Rajendran and M. Rajkumar, Influence of ZrO₂ in the physicochemical properties of phosphate-based glasses and glass ceramics, Phosphorus, Sulfur, and Silicon and the Related Elements, Volume 187, Issue 12, 2012, pp. 1434-1449. **[SCI IMPACT FACTOR: 1.3]**
8. G.K. Sivasankarayadav, **K. Sakthipandi**, K. Thyagarajan, M. Selvam and V. Rajendran, Synthesis and Characterization of Bulk and Nano La_{0.6}Ba_{0.4-x}Ca_xMnO₃ (0 ≤ x ≤ 0.02) Perovskite Manganite Materials, International Journal of NanoScience and Nanotechnology, Volume 3, Issue 3, 2012, pp. 161-168.
9. P. Kulandaivelu, **K. Sakthipandi**, P. Senthil Kumar and V. Rajendran, Mechanical Properties of Bulk and Nanostructured La_{0.61}Sr_{0.39}MnO₃ Perovskite Manganite Materials, Journal of Physics and Chemistry of Solids, Volume 74, Issue 2, 2012, pp. 205-214. **[SCI IMPACT FACTOR: 4.0]**
10. **K. Sakthipandi**, V. Rajendran and T. Jayakumar, Ultrasonic Nondestructive Characterisation of Nuclear Materials, Journal of Pure and Applied Ultrasonics, Vol. 34, Iss. 4, 2012, pp. 69-71.
11. **K. Sakthipandi** and V. Rajendran, Metal Insulator Transition of Bulk and Nanocrystalline La_{1-x}Ca_xMnO₃ Perovskite Manganite Materials through In-situ Ultrasonic Measurements, Materials Characterization, Volume 77, 2013, Pages 70-80. **[SCI IMPACT FACTOR: 4.7]**
12. **K. Sakthipandi** and V. Rajendran, On-line Phase Transitions of Bulk and Nanocrystalline La_{1-x}Pb_xMnO₃ (x=0.3, 0.4, and 0.5) Perovskite Manganite Materials Using Ultrasonic Measurements, Materials Chemistry and Physics, Volume 138, 2013, pp. 581-592. **[SCI IMPACT FACTOR: 4.6]**
13. **K. Sakthipandi***, V. Rajendran and T. Jayakumar, Phase transitions of bulk and nanocrystalline La_{1-x}Sr_xMnO₃ (x=0.35 and 0.37) perovskite manganite materials using in-situ ultrasonic studies, Material Research Bulletin, Volume 48, Issue 4, 2013, pp. 1651-1659 (* **Corresponding Author**) **[SCI IMPACT FACTOR: 5.4]**
14. M. Selvam, **K. Sakthipandi**, R. Suryaprabha, K. Saminathan and V. Rajendran, Synthesis and Characterisation of electrochemically – reduced graphene, Bulletin of Material Science, Volume 36, December 2013, pp. 1315–1321. **[SCI IMPACT FACTOR: 1.8]**
15. G.K. Sivasankarayadav, **K. Sakthipandi**, K. Thyagarajan, and V. Rajendran, Synthesis and Characterization of Bulk and Nano La_{0.6}Pb_{0.4-x}Ca_xMnO₃ (0 ≤ x ≤ 0.015) Perovskite Manganite Materials, International Journal of Nanotechnology and Applications, Volume 3, Issue 5, 2013, pp. 15-20.
16. **K. Sakthipandi*** and V. Rajendran, In-situ ultrasonic evaluation of structural/nuclear materials, The Journal of the Acoustical Society of America 135 (4), 2219-2219. **[SCI IMPACT FACTOR: 2.4]** (* **Corresponding Author**)
17. P. Thamilmaran, M. Arunachalam, S. Sankarajan and **K. Sakthipandi***, Non-destructive characterisation of Ni doped La_{0.7}Sr_{0.3}MnO₃ Perovskite manganites, International Journal of ChemTech Research, Volume 6, No.3, May-June 2014, pp. 1601-1603. (* **Corresponding Author**)
18. M. Arunachalam, P. Thamilmaran, S. Sankarajan and **K. Sakthipandi***, Characterisation of LCMO perovskites employing ultrasonic studies, International Journal of ChemTech Research, Volume 6, No.3, May-June 2014, pp. 1621-1623. (* **Corresponding Author**)
19. M. Arunachalam, P. Thamilmaran, S. Sankarajan and **K. Sakthipandi***, Study of high temperature metal-insulator phase transition in La_{1-x}Ca_xMnO₃ employing in-situ ultrasonic studies, Physica B: Condensed Matter, Volume 456, 1 January 2015, pp. 118-124. **[SCI IMPACT FACTOR: 2.8]** (* **Corresponding Author**)

20. M. Sivabharathy, A. Senthilkumar, R. Rameshkannan, N. Shamima Banu, P. Indra Devi, **K. Sakthipandi** and K. Ramachandran, An experimental study on effect of thermal properties of PVDF Polymer, International Journal of ChemTech Research, Volume 7, No.01, 2014-2015, pp 218-222.
21. **K. Sakthipandi***, V. Rajendran, and T. Jayakumar, Aging-induced Microstructural Changes in M250 Maraging Steel using In-situ Ultrasonic Measurements, International Journal of ChemTech Research Volume 7, No.01, 2014-2015, pp 108-112. (* **Corresponding Author**)
22. P. Thamilmaran, M. Arunachalam, S. Sankarajan, **K. Sakthipandi***, On-line Ultrasonic Characterisation of Barium doped Perovskites, Physica B: Condensed Matter Physics, Volume 466-467C, 2015, pp. 19-25. [**SCI IMPACT FACTOR: 2.8**] (* **Corresponding Author**)
23. P. Thamilmaran, M. Arunachalam, S. Sankarajan, **K. Sakthipandi***, Impact of Ni doping on $\text{La}_{0.7}\text{Sr}_{0.3}\text{Ni}_x\text{Mn}_{1-x}\text{O}_3$ Perovskite Manganite Materials, Journal of Magnetism and Magnetic Materials, Volume 396, 2015, pp.181–189. [**SCI IMPACT FACTOR:2.7**] (* **Corresponding Author**)
24. M. Arunachalam, P. Thamilmaran, S. Sankarajan, **K. Sakthipandi***, Ultrasonic studies on sodium doped LaMnO_3 perovskite material, Cogent Physics (2015), 2: 1067344. (* **Corresponding Author**)
25. M. Sivabharathy, A. Senthilkumar, **K. Sakthipandi**, K. Ramachandran and P. Palanichamy, Thermal Expansion Studies On Zircaloy-2, Materials Today: Proceedings 3 (2016) pp. 3064-3070.
26. S. Praveen Kumar, **K. Sakthipandi**, R.Gayathiri, M. Sridhar Panday and V. Rajendran, Online Ultrasonic Characterization of $\text{La}_{1-x}\text{Na}_x\text{MnO}_3$: Bulk and Nanostructured Perovskites, Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry (2016), Volume 47, Issue 2, 2017, pp.278-287. [**SCI IMPACT FACTOR: 1.7**]
27. S. Praveenkumar, **K.Sakthipandi**, M. Sridhar panday, M. Selvam, A. Karthik, N. Palanivelu, V. Rajendran, Structural and phase transition of Mg-doped on Mn-site in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ bulk/nanostructured perovskite characterised through online ultrasonic technique, South African Journal of Chemical Engineering, Volume 23, Volume 23, June 2017, Pages 50–61.
28. S. Praveen Kumar, **K. Sakthipandi**, R. Gayathiri, M. Sridhar Panday, V. Rajendran, Ferromagnetic–paramagnetic transition temperature in bulk and nanostructured $\text{La}_{0.7}\text{Sr}_x\text{Ca}_{1-x}\text{MnO}_3$ ($x = 0.10, 0.15$, and 0.20) manganite materials, Rare Metals, Volume 36, Issue 6, June 2017, pp 501–511. [**SCI IMPACT FACTOR: 8.8**]
29. **K. Sakthipandi***, M. Arunachalam, P. Thamilmaran, M. Sivabharathy and S. Sankarajan, Influence of Ionic Radius on Magnetic Phase transition in $\text{R}_{1-x}\text{Sr}_x\text{MnO}_3$ Perovskites, AIP Conference Proceedings, Volume 1832, 2017, 030016. (* **Corresponding Author**)
30. P. Thamilmaran, M. Arunachalam, S. Sankarajan, **K. Sakthipandi***, M. Sivabharathy, Study of the effect of Cu doping in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ perovskite materials employing on-line ultrasonic measurements, Journal of Magnetism and Magnetic Materials, Volume 443, December 2017, pp. 29-35. [**SCI IMPACT FACTOR: 2.7**] (* **Corresponding Author**)
31. R. Rajesh Kanna, N. Lenin, **K. Sakthipandi***, M. Sivabharathy, Impact of Lanthanum on structural, optical, dielectric and magnetic properties of $\text{Mn}_{1-x}\text{Cu}_x\text{Fe}_{1.85}\text{La}_{0.15}\text{O}_4$ spinel nanoferrites, Ceramic International, Volume 43, 2017, pp. 15868-15879. [**SCI IMPACT FACTOR: 5.2**] (* **Corresponding Author**)
32. P. Thamilmaran, M. Arunachalam, S. Sankarajan, **K. Sakthipandi***, M. Sivabharathy and E. James Jebaseelan Samuel, Structural Transition in Gd doped LaCrO_3 Isovalent by in-situ Ultrasonic Measurements, Physica B: Condensed Matter, Volume 530, 2018, pp. 270–276. [**SCI IMPACT**

FACTOR: 2.8] (* Corresponding Author)

33. M.P. Kesavan, S. Ayyanaar, V. Vijayakumar, J. Dhaveethu Raja, J. Annaraj, **K. Sakthipandi**, J. Rajesh, Magnetic iron oxide nanoparticles (MIONs) cross-linked natural polymer-based hybrid gel beads: Controlled nano anti-TB drug delivery application, Journal of Biomedical Materials Research Part A, Volume 106, Issue 4, April 2018, pp.1039-1050. **[SCI IMPACT FACTOR: 4.9]**
34. R. Rajesh Kanna, N. Lenin, **K. Sakthipandi***, A. Senthil Kumar, Structural, optical, dielectric and magnetic studies of Gadolinium-added Mn–Cu nanoferrites, Journal of Magnetism and Magnetic Materials, volume 453, May 2018, pp. 78-90. **[SCI IMPACT FACTOR: 2.7] (* Corresponding Author)**
35. G.G. Vinoth Kumar, M.P. Kesavan, M. Sankarganesh, **K. Sakthipandi**, J. Rajesh, G. Sivaraman, Schiff base receptor as fluorescence turn-on sensor for Ni²⁺ ions in live cells and logic gate application, New Journal of Chemistry, volume 42, 2018, pp. 2865-2873. **[SCI IMPACT FACTOR: 3.3]**
36. M. Arunachalam, P. Thamilmaran, **K. Sakthipandi***, Tuning of Metal-Insulator Phase Transition Temperature in La_{0.3}Ca_{0.7}MnO₃ Perovskite, Materials Letters, 218C, 2018, pp. 270-273. **[SCI IMPACT FACTOR: 3.0] (* Corresponding Author)**
37. N. Lenin, R. Rajesh Kanna, **K. Sakthipandi***, A. Senthil Kumar, Structural, Electrical and Magnetic Properties of NiLa_xFe_{2-x}O₄ Nanoferrites, Materials Chemistry and Physics, volume 212, 15 June 2018, Pages 385-393. **[SCI IMPACT FACTOR: 4.6] (* Corresponding Author)**
38. N. Lenin, R. Rajesh Kanna, **K. Sakthipandi***, J. Rajesh, Effect of Neodymium ion on the Structural, Electrical and Magnetic Properties of Nanocrystalline Nickel Ferrites, Ceramics International, volume 44, Issue 10, July 2018, pp. 11562-11569. **[SCI IMPACT FACTOR: 5. 2] (* Corresponding Author)**
39. G.G. Vinoth Kumar, M.P. Kesavan, A. Tamilselvi, G. Rajagopal, J. Dhaveethu Raja, **K. Sakthipandi**, J. Rajesh, M. Sivaraman, A reversible fluorescent chemosensor for the rapid detection of Hg²⁺ in an aqueous solution: its logic gates behavior and live cell imaging, Sensors & Actuators: B, Volume 273, 2018, pp. 305-315. **[SCI IMPACT FACTOR: 8.4]**
40. R. Rajesh Kanna, **K. Sakthipandi***, S.M.Seeni Mohamed Aliar Maraikkayar , N. Lenin, M. Sivabharathy, Doping effect of Rare-earth (La, Nd and Gd) ions on the structural, optical, dielectric and magnetic properties of copper nanoferrites, Journal of Rare Earths, Volume 36, Issue 12, December 2018, pp.1299-1309. **[SCI IMPACT FACTOR: 4.9] (* Corresponding Author)**
41. N. Lenin, **K. Sakthipandi***, R.Rajesh Kanna, G.Rajkumar, Electrical, Magnetic and Structural Properties of Polymer-Blended Lanthanum-added Nickel Nano-ferrites, Ceramics International, Volume 44, Issue 17, December 2018, Pages 21866-21873. **[SCI IMPACT FACTOR: 5.2] (* Corresponding Author)**
42. D. Nandhini, S. Subashchandrabose, P. Ramesh, D. Mohan Radheep, **K. Sakthipandi***, Synthesis, characterization and computation of Potassium doped Calcium Hydroxide Nanoparticles and Nanotubes, International Journal of Mechanical and Production Engineering Research and Development, Volume 9, Issue 1, February 2019, Pages 441-448. **(* Corresponding Author)**
43. P. Jayarajan, G.R. Kanagachidambaresan, T.V.P. Sundararajan, **K. Sakthipandi**, R. Maheswar, A. Karthikeyan, An Energy Aware Buffer Management (EABM) Routing Protocol for WSN, The Journal of Supercomputing, Volume 76, June 2020, Pages 4543–4555 **[SCI IMPACT FACTOR: 3.3]**.
44. Aslam Hossain, Sanjay Roy, **K. Sakthipandi***, The external and internal influences for the tuning of

- the properties of perovskite materials: An overview, *Ceramics International*, Volume 45, Issue 4, 2019, Pages 4152–4166. **[SCI IMPACT FACTOR: 5.2] (* Corresponding Author)**
45. R. Rajesh Kanna, N. Lenin, **K. Sakthipandi***, Neodymium doped on the manganese–copper nanoferrites: Analysis of structural, optical, dielectric and magnetic properties, *Journal of Materials Science: Materials in Electronics*, Volume 30, Issue 5, March 2019, pp. 4473–4486. **[SCI IMPACT FACTOR: 2.8] (* Corresponding Author)**
 46. **K. Sakthipandi***, N. Lenin, R. Rajesh Kanna, A. Sabah Afroze, M. Sivabharathy, PVA-doped $\text{NiNd}_x\text{Fe}_{2-x}\text{O}_4$ nanoferrites: Tuning of dielectric and magnetic properties, *Journal of Magnetism and Magnetic Materials*, Volume 485, 1 September 2019, Pages 105–111. **[SCI IMPACT FACTOR: 2.7] (* Corresponding Author)**
 47. K. Kishore Kumar, R. Brindha, M. Nandhini, M. Selvam, K. Saminathan, **K. Sakthipandi**, Water-Suspended Graphene as Electrolyte Additive in Zinc–Air Alkaline Battery System, *Ionics*, Volume 25, Issue 4, April 2019, pp 1699–1706. **[SCI IMPACT FACTOR: 2.8]**
 48. **K. Sakthipandi***, E. Ahilandeswari, M. Arunachalam, Aslam Hossain, P. Thamilmaran, Effect of Praseodymium on the Magnetic and Structural Properties of Barium Ferrites, *Physica B: Condensed Matter*, Volume 568, September 2019, Pages 42–50. **[SCI IMPACT FACTOR: 2.8] (* Corresponding Author)**
 49. R. Brindha, S. S. Raja Ajith, M. Nandhini, M. Selvam, Kittitat Subannajui, Kittikhun Khotmungkhun and **K. Sakthipandi**, Evaluation of anticorrosive behaviour of ZnO nanotetra-pods on a AZ91-grade Mg alloy, *Bulletin of Materials Science*, Volume 42, October 2019. Pages 221. **[SCI IMPACT FACTOR: 1.8]**
 50. **K. Sakthipandi*** and M. Selvam, Phase Transition of $\text{La}_{0.62}\text{Sr}_{0.38}\text{MnO}_3$ Perovskite Manganites, *Frontiers in Advanced Materials Research*, Volume 1, no. 1 (2019) pages 28–30. **(* Corresponding Author)**
 51. **K. Sakthipandi***, M. Sivabharathy and A. Senthil Kumar, Study of phase transition in Cu-doped $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ perovskite manganite materials by ultrasonic technique, *Materials Today: Proceedings*, Volume 35, 2021, Pages 11–12 **(* Corresponding Author)**
 52. R. Rajesh Kanna, **K. Sakthipandi***, Structural, morphological and optomagnetic properties of La/Cu/Cu-Mn ferrites ternary nanocomposite, *Journal of Electronic Materials*, Volume 49, February 2020, pages 1110–1119 (2020), **[SCI IMPACT FACTOR: 2.1] (* Corresponding Author)**
 53. G. Packiaraj, **K. Sakthipandi***, Aslam Hossain, Effect of 200 MeV Ag^{16+} Swift heavy ion irradiation on structural and magnetic properties of M-type barium hexaferrite, *Materials Research Express*, Volume 7, no. 1 (2019) 016301 **[SCI IMPACT FACTOR: 2.3] (* Corresponding Author)**
 54. Aslam Hossain, **K. Sakthipandi***, A. K. M. Atique Ullah, and Sanjay Roy, Recent progress, Open challenges and Approaches on Carbon-free Energy from Water Splitting, *Nano Micro Letters*, volume 11, (2019) 103 **[SCI IMPACT FACTOR: 26.6] (* Corresponding Author)**
 55. A. Ferin Fathima, R. Jothimani, **K. Sakthipandi***, K. Manimala, Aslam Hossain, Enhancement in the antifungal activity of pure and Iron doped ZnO nanoparticles prepared in the absence of reducing agents, *Journal of Inorganic and Organometallic Polymers and Materials*, Volume 30, (2020) pages 2397–2405. **[SCI IMPACT FACTOR: 4.0] (* Corresponding Author)**
 56. R. Rajesh Kanna, **K. Sakthipandi***, A. Senthil Kumar, N. R. Dhineshababu, S. M. Seeni Mohamed Aliar Maraikkayar, A. Sabah Afroze, Rajshree B. Jotania, M. Sivabharathy, Synthesis of

- dysprosium/Mn-Cu ferrite binary nanocomposite: Analysis of structural, morphological, dielectric and optomagnetic properties, *Ceramics International*, Volume 46, Issue 9, 15 June 2020, Pages 13695-13703 [**SCI IMPACT FACTOR: 5.2**] (* **Corresponding Author**)
57. G. Packiaraj, **K. Sakthipandi***, Aslam Hossain, Dielectric and Magnetic Properties of Polyaniline blended $\text{Ba}_2\text{Ni}_2\text{Fe}_{12}\text{O}_{22}$ Nanocomposites, *Journal of Electronic Materials*, Volume 49, March 2020, pages 3317–3324. [**SCI IMPACT FACTOR: 2.1**] (* **Corresponding Author**)
 58. **K. Sakthipandi***, R. Rajesh Kanna, Aslam Hossain, Evidence of blocking temperature of $\text{BaPr}_x\text{Fe}_{2-x}\text{O}_4$ orthoferrites from in-situ ultrasonic measurement, *Journal of Pure & Applied Ultrasonics*, Volume 42, Issue 1, April 2020, pages 9-15. (* **Corresponding Author**)
 59. **K. Sakthipandi***, K. Kannagi, Aslam Hossain, Effect of Lanthanum doping on Structural, Electrical and Magnetic Properties $\text{Mn}_{0.5}\text{Cu}_{0.5}\text{Fe}_{2-x}\text{La}_x\text{O}_4$ Nanoferrites, *Ceramics International*, Volume 46, Issue 11, Part B, 1 August 2020, Pages 19634-19638 [**SCI IMPACT FACTOR: 5.2**], (* **Corresponding Author**)
 60. A Ponchitra, K. Balasubramanian, R. Jothimani and **K. Sakthipandi***, Structural, Mechanical, Thermal, Optical and Antifungal Properties of Pure and Nickel doped Ninhydrin Non liner Single Crystals (Article Id: IJEMS-1321), *Indian Journal of Engineering and Materials Sciences*, Volume 28 Issue 1, February 2021, Pages 82-88 [**SCIE IMPACT FACTOR: 0.9**], (* **Corresponding Author**)
 61. A. Hossain, A.R. Gilev, P. Yanda, V.A. Cherepanov, A.S. Volegov, **K. Sakthipandi** and A. Sundaresan, Optical, magnetic and magneto-transport properties of $\text{Nd}_{1-x}\text{A}_x\text{Mn}_{0.5}\text{Fe}_{0.5}\text{O}_{3-\delta}$ (A=Ca, Sr, Ba; x=0, 0.25), *Journal of Alloys and Compound*, Volume 847, 20 December 2020, 156297 [**SCI IMPACT FACTOR: 6.2**]
 62. Aslam Hossain, P. Yanda, V.A. Cherepanov, **K. Sakthipandi**, A. Sundaresan, Synthesis, structure, optical and magnetic properties of $\text{Nd}_{1-x}\text{A}_x\text{Mn}_{0.5}\text{Co}_{0.5}\text{O}_{3-\delta}$ (A = Ba, Sr and Ca; x = 0 and 0.25), *Ceramics International*, Volume 46, Issue 17, December 2020, Pages 26895-26902 [**SCI IMPACT FACTOR: 5.2**]
 63. E. Ahilandeswari, R. Rajesh Kanna, **K. Sakthipandi***, Synthesis of neodymium-doped barium nanoferrite: Analysis of structural, optical, morphological, and magnetic properties, *Physica B: Condensed Matter Physics*, Volume 599, 15 December 2020, 412425. [**SCI IMPACT FACTOR: 2.8**] (* **Corresponding Author**)
 64. R. Brindha, R. Mohanraj, P. Manoj Kumar, M. Selvam, **K. Sakthipandi*** Hybrid Electrochemical Behaviour of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ Nano Perovskites and Recycled Polar Interspersed Graphene for Metal-Air Battery System, *Journal of the Electrochemical Society*, Volume 167, Number 12, 120539. [**SCI IMPACT FACTOR: 3.9**] (* **Corresponding Author**)
 65. Issa Sulaiman Al-Husaini, **K. Sakthipandi**, Improvements in Electrospun Nanofibrous Membranes and Their Applications in Water Treatments, *Journal of Applied Membrane Science & Technology*, Volume 24, Issue 3, Pages 31–56, Publisher Penerbit UTM Press, Universiti Teknologi Malaysia.
 66. A. Ferin Fathima, R.Jothi Mani, **K. Sakthipandi***, Antifungal activity of iron-gold and cobalt-gold co-doped ZnO nanoparticles, *Advanced Materials Letters*, Volume 12, Issue 6, 2021, Pages 1-5. (* **Corresponding Author**)
 67. A. Ponchitra, K. Balasubramanian, and **K. Sakthipandi***, Enhanced Mechanical, Thermal, Photoluminescence, NLO and Antifungal Activities of Magnesium Doped Ninhydrin Crystals, *Indian Journal of Pure and Applied Physics*, Volume 59 (04), April 2021, pages 349-355. [**SCI IMPACT**

FACTOR: 0.7] (*Corresponding Author)

68. G. Rajkumar, C Manjula, and **K. Sakthipandi***, Study the Role of SrO content on Elastic Moduli of Fluorophosphates Glass: Ultrasonic Measurements, Volume 43, 2021, pages 50-55. (*** Corresponding Author**)
69. A. Ponchitra, K. Balasubramanian, R. Jothi Mani and **K. Sakthipandi***, Structural, mechanical, dielectrical, thermal and non-linear optical properties of zinc doped ninhydrin single crystals, Indian Journal of Physics, Volume 96 (2022) pages 2313–2321, <https://doi.org/10.1007/s12648-021-02163-5> [**SCI IMPACT FACTOR: 2.0**] (*** Corresponding Author**)
70. Chetan Chavan, Bhajantri, F Rajashekhar, Soumya S Bulla, **K. Sakthipandi***, Accepted for Publication, Designed and fabricated a low-cost E-Spun experimental tool for polymer processing, Indian Journal of Engineering & Materials Sciences, Volume 28, August 2021, pages 343-349 [**SCI IMPACT FACTOR: 0.9**], (*** Corresponding Author**)
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48. P.Kavitha and **K. Sakthipandi**, A study on transition metal and Zinc Oxide added Glycine Semi-organic Crystal, International Conference on Recent Advancements in Chemistry, Department of Chemistry, Field Marshal KM Cariappa College, Constituent College of Mangalore University, Kaveri Campus, Madikeri – 571201, Karnataka, India, November 23, 2022.
49. J.Akila, S. Amirthavarshini, M. Selvameenakshi, N. Venkatesh Bharathi, **K. Sakthipandi** and S. Ramaswamy, Influence of pH on the Luminescence Properties of the Hydrothermal Derived $\text{Ba}_2\text{V}_2\text{O}_7$ Phosphors, International Conference on Recent Advancement in Material Science and it's Applications (ICRAMSA'23), Mannar Thirumalai Naicker College (Autonomous), Pasumalai, Madurai - 625 004, Tamil Nadu, India, January 11-12, 2023.
50. **K. Sakthipandi**, G. Packiaraj and Aslam Hossain, 200 MeV Ag^{16+} Swift heavy ion irradiation: Effect on structural and magnetic properties of M-type barium hexaferrite, The conference The International School for Young Researchers "Synchrotron Radiation and Smart Nanomaterials" IWSN 2023, Rostov-on-Don, Russia, September 14, 2023.

National Conference

1. S. Sankarajan, **K. Sakthipandi** and V. Rajendran, Sound and Elastic Moduli on $\text{Sm}_{1-x}\text{Sr}_x\text{MnO}_3$ perovskite magnetite material, National Symposium on Ultrasonic at Banaras Hindu University, 2008, Varanasi, India.
2. S. Sankarajan, **K. Sakthipandi** and V. Rajendran, Influence of rare earth ions on transition temperature T_C in Perovskite materials through on-line temperature dependent ultrasonic studies, National Symposium of Acoustics, research Centre Imaret, 2009, Hyderabad.

3. **K. Sakthipandi**, V. Rajendran and T. Jayakumar, On-line High temperature Ultrasonic Characterisation of M250 grade Maraging Steel, National Symposium of Acoustics, Pt. LMS Govt. Autonomous PG College, 2010, Rishikesh.
4. S. Sankarajan, **K. Sakthipandi** and V. Rajendran, Sound and Elastic Moduli on $\text{Pr}_{1-x}\text{Sr}_x\text{MnO}_3$ perovskite magnetite material, National Symposium of Acoustics-2010, Pt. LMS Govt. Autonomous PG College, 2010, Rishikesh.
5. **K. Sakthipandi**, V. Rajendran and T. Jayakumar, On-line Evaluation of Phase Transition of Bulk and Nanostructured $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ ($x = 0.35$ and 0.37) Perovskites employing Ultrasonic Studies, National Symposium of Acoustics-2011, Bundelkhand University (2011), Jhansi, India.
6. **K. Sakthipandi**, P. Kulandaivelu, V. Rajendran and T. Jayakumar, Evaluation of Phase Transition of Bulk and Nanostructured $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ Perovskites employing On-line Ultrasonic Studies, Conference on Dynamics of Phase Transformations, 2011, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore. (www.jncasr.ac.in/dpt/abstract_poster.pdf).
7. G.K. Sivasankarayadav, **K. Sakthipandi**, M. Selvam, K. Thyagarajan and V. Rajendran, Influence of Calcium on Phase Transition temperature of bulk and nano $\text{La}_{0.6}\text{Ba}_{0.4-x}\text{Ca}_x\text{MnO}_3$ ($0 \leq x \leq 0.02$) Perovskite Manganite Materials, National conference on Nanomaterials and Nanotechnology (NCNN-2012), JNTU College of Engineering, Pulivendula, Andhra Pradesh, India.
8. P. Palanichamy, **K. Sakthipandi**, M. Paramasivam and V. Rajendran, On-line Phase Transition of $\text{La}_{1-x}\text{K}_x\text{MnO}_3$ ($x = 0.17, 0.20$ and 0.23) Perovskite Manganites employing Ultrasonic Measurements, National conference on Nanomaterials and Nanotechnology (NCNN-2012), JNTU College of Engineering, Pulivendula, Andhra Pradesh, India.
9. M. Selvam, **K. Sakthipandi**, R. Suriyaprabha, S.R. Srither, K. Saminathan and V. Rajendran, Characterisation of Graphene for Alkaline Batteries, Asian Consortium for Computational Materials Science, Indian Academy of Sciences, Bangalore, India.
10. **K. Sakthipandi**, M. Selvam and V. Rajendran, Characterisation of graphene/ $\text{La}_{0.68}\text{Sr}_{0.32}\text{MnO}_3$ composite as a cathode in primary batteries, Asian Consortium for Computational Materials Science (ACCMS), Indian Academy of Sciences, Bangalore, India.
11. M. Selvam, **K. Sakthipandi**, R. Suriyaprabha, K. Saminathan and V. Rajendran, Preparation and Characterization of Graphene for Energy Storage Applications, Conference on Recent Advances in Electrochemical Energy Materials and Devices, Indian Academy of Sciences, Bangalore, India (<http://sscu.iisc.ernet.in/office-forms-15-09-09/Posters.pdf>).
12. **K. Sakthipandi**, V. Rajendran and T. Jayakumar, "Phase Transition of LSMO Perovskite Manganites employing On-line Ultrasonic Measurements", National Symposium on Materials and Processing-2012 (MAP-2012), Bhabha Atomic Research Centre, Mumbai.
13. **K. Sakthipandi**, V. Rajendran, and T. Jayakumar, "On-line Ultrasonic Characterisation of Nano Silica", XIX National Symposium on Ultrasonics 2012, National Physical Laboratory, New Delhi.
14. **K. Sakthipandi**, V. Rajendran, and T. Jayakumar, "Structural and Phase transitions On-line Evaluation in Nuclear and Perovskite Manganites Materials" National Symposium of Acoustics-2012, KSR Institute of Engineering and Technology, Tiruchengode, India.
15. S. Preveen Kumar, **K. Sakthipandi** and V. Rajendran, "Behaviour of Ferro-paramagnetic transition temperature in bulk and nano $\text{La}_{0.7}\text{Sr}_x\text{Ca}_{0.3-x}\text{MnO}_3$ ($x = 0.10, 0.15$ and 0.20)

Manganite Materials”, National Symposium of Acoustics-2012, KSR Institute of Engineering and Technology, Tiruchengode, India.

16. M. Arunachalam, P. Thamilmaran, S. Sankarajan, **K. Sakthipandi** and V. Rajendran, Influence of ionic radius on the behaviour of Ferro-Para magnetic transition temperature in $\text{R}_{0.65}\text{Sr}_{0.35}\text{MnO}_3$ (R-Pr and Nd) Perovskites using On-line ultrasonic studies, National Symposium of Acoustics-2012, KSR Institute of Engineering and Technology, Tiruchengode, India.
17. **K. Sakthipandi**, M. Vigneswari, S. Sankarajan and V. Rajendran, A Study on effect of particle size on phase transition temperature of $\text{La}_{0.72}\text{Sr}_{0.28}\text{MnO}_3$ Manganite Materials, Twentieth National Symposium on Ultrasonics (NSU-XX), Ravenshaw University, Cuttack
18. P. Thamilmaran, M. Arunachalam, S. Sankarajan and **K. Sakthipandi**, Phase transition of bulk $\text{La}_{1-x}\text{Ba}_x\text{MnO}_3$ perovskite manganites employing ultrasonic studies, Twentieth National Symposium on Ultrasonics (NSU-XX), Ravenshaw University, Cuttack
19. M. Arunachalam, P. Thamilmaran, S. Sankarajan and **K. Sakthipandi**, Evaluation of Mechanical Properties of bulk $\text{La}_{1-x}\text{Na}_x\text{MnO}_3$ manganites through in-situ ultrasonic measurements, Twentieth National Symposium on Ultrasonics (NSU-XX), Ravenshaw University, Cuttack
20. N. Thirumurugan, **K. Sakthipandi**, E. Jasmine Vasantharani and R. Uvarani Acoustic Studies of Binary Liquid Mixture of Formamide with Dimethyl Sulphide at Different Temperature, Twentieth National Symposium on Ultrasonics (NSU-XX), Ravenshaw University, Cuttack
21. **K. Sakthipandi**, S. Senthil Rajan, M. Sivabharathy, R. Ramesh Kannan, E. Ahilandeswari, M. Mohamed Nagoor Meeran, A. Senthil Kumar and V. Rajendran, In-situ Mechanical Evaluation of $\text{La}_{0.61}\text{Sr}_{0.39}\text{MnO}_3$ Perovskite Manganite Materials, 5th DAE-BRNS Interdisciplinary Symposium on Materials Chemistry, Chemistry Division, BARC and Society for Materials Chemistry, Mumbai, December 09 - 13, 2014.
22. S. Senthil Rajan, **K. Sakthipandi**, M. Sivabharathy, R. Rameshkannan, A. Senthil Kumar and R. Yuvakkumar, A Study for Light Up-conversion using Oxide Phosphors, School of Physics, Bharathidasan University, Tiruchirappalli, March 6-7, 2014.
23. **K. Sakthipandi** and V. Rajendran, Phase Transitions of Bulk and Nanocrystalline $\text{La}_{1-x}\text{Pb}_x\text{MnO}_3$ Perovskite Manganite Materials employing Ultrasonic Velocity Measurements, Acoustics 2014 Mysore: National Symposium on Acoustics, All India Institute of Speech and Hearing, Mysore, November 12-14, 2014.
24. P. Thamilmaran, M. Arunachalam, S. Sankarajan, A. Senthil Kumar and **K. Sakthipandi**, Mechanical Properties of Gd Doped LaCrO_3 Perovskite Manganite Materials, Acoustics 2014 Mysore: National Symposium on Acoustics, All India Institute of Speech and Hearing, Mysore, November 12-14, 2014.
25. M. Arunachalam, P. Thamilmaran, S. Sankarajan, M. Sivabharathy and **K. Sakthipandi**, Impact of Sintering Temperature on $\text{La}_{0.1}\text{Ca}_{0.9}\text{MnO}_3$ Perovskite Manganite Employing Ultrasonic Studies, Acoustics 2014 Mysore: National Symposium on Acoustics, All India Institute of Speech and Hearing, Mysore, November 12-14, 2014.
26. **K. Sakthipandi**, R. Rajesh Kanna, N. Lenin and E. Ahilandeswari, In-situ Ultrasonic Characterisation

of M250 grade Maraging Steel, National Conference on Advances in Refractory and Reactive Metals and Alloys in Bhabha Atomic Research Center, Mumbai, January 27-29, 2016.

27. **K. Sakthipandi**, M. Sivabharathy, E.Ahilandeswari and A. Senthil Kumar, On-line Ultrasonic Characterisation of Ni_2MnSn Heusler Alloys, XXI National Symposium on Ultrasonics (NSU-XXI), Department of Condensed Matter Physics and Material Sciences, S. N. Bose National Centre for Basic Sciences, Kolkata, November 8-9, 2016.
28. **K. Sakthipandi**, M. Arunachalam, P. Thamilmaran, M. Sivabharathy and S. Sankarrajan, Influence of Ionic Radius on Magnetic Phase transition in $\text{R}_{1-x}\text{Sr}_x\text{MnO}_3$ Perovskites, 61st DAE Solid State Physics Symposium, KIIT University, Bhubaneswar, Odisha, December 26-30, 2016.
29. **K. Sakthipandi**, M. Arunachalam, P. Thamilmaran, M. Sivabharathy and S. Sankarrajan, Effect of Ionic Radius on Phase transition in $\text{R}_{1-x}\text{Sr}_x\text{MnO}_3$ Perovskites, 6th Interdisciplinary Symposium on Materials Chemistry, Chemistry Division, Bhabha Atomic Research Centre, Mumbai, December 6 – 10, 2016.
30. R. Rajesh Kanna, N. Lenin, M. Sivabharathy and **K. Sakthipandi**, The Structural and Optical study on $\text{Mn}_{1-x}\text{Cu}_x\text{Fe}_{1.85}\text{La}_{0.15}\text{O}_4$ ($x=0.2, 0.4, 0.6, 0.8$ and 1) Nanoferrites, National Symposium On Nanoscience And Nanotechnology (NSNST-2017), Centre for Nano Science and Engineering, Indian institute of science, Bangalore-July 2017.
31. R. Rajesh Kanna, N. Lenin, M. Sivabharathy and **K. Sakthipandi**, Optical and dielectric characterization of $\text{Mn}_{1-x}\text{Cu}_x\text{Fe}_{1.85}\text{La}_{0.15}\text{O}_4$ nanoferrites synthesis by sonochemical method, TEQIP-II sponsored National Conference on Advanced Materials: Processing and Characterization, NITT, Tamil Nadu-February 2017.
32. N. Lenin, R. Rajesh Kanna, M. Sivabharathy and **K. Sakthipandi**, Structural, Electrical and Magnetic Properties of Copper Doped Manganese Lanthanum Nano Ferrites. Presented in the National Conference on Emerging Sensor Devices, Materials and Technologies in Department of Physics, Chikkanna Government Arts College, Tiruppur-January 2017
33. N. Lenin, R. Rajesh Kanna, M. Sivabharathy and **K. Sakthipandi**, To Enhance Electrical and Magnetic Behaviour of Copper Doped Manganese Lanthanum Ferrites ($\text{Mn}_{0.9-x}\text{Cu}_x\text{La}_{0.1}\text{Fe}_2\text{O}_4$). Presented in the National Level Seminar Advanced Research Materials in Department of Physics, Alagappa University, Karaikudi-January 2017.
34. **K. Sakthipandi**, M.Arunachalam, P.Thamilmaran, Ultrasonic Characterisation of Pr-substituted BaFe_2O_4 spinel ferrites, National Symposium on Advances in Ultrasonics and Material Research, Central University of Himachal Pradesh, Dharamshala, Himachal Pradesh, November 8-10, 2017.
35. R. Rajesh Kanna, N. Lenin, E. Ahilandeswari, M. Sivabharathy, **K. Sakthipandi**, Doping effect of Nd^{3+} on structural, optical, dielectric and magnetic properties of Mn-Cu nanoferrites, National Symposium on Nano Science and Technology (NSNST-2018), Centre for Nano Science and Engineering, Indian Institute of Sciences, Bangalore-560012, June 20-22 2018.
36. E. Ahilandeswari, **K. Sakthipandi** and M.Sivabharathy, Ultrasonic Characterisation of Pr-substituted BaFe_2O_4 spinel ferrites, National Symposium on Nano Science and Technology (NSNST-2018), Centre for Nano Science and Engineering, Indian Institute of Sciences, Bangalore-560012, June 20-22 2018.
37. **K. Sakthipandi**, M. Sivabharathy, A. Senthil Kumar, Turning of Phase Transition in Cu-doped

La_{0.7}Sr_{0.3}MnO₃ Perovskite Manganite Materials Materials and Technologies For Energy Conversion and Storage (M-TECS 2018), Bhabha Atomic Research Centre in association with Materials Research Society of India (MRSI) –Mumbai Chapter during September 26 –29, 2018

38. M.Arunachalam, P.Thamilmaran, and **K. Sakthipandi**, Ultrasonic Investigation on Structural Phase transition in La_{1-x}Gd_xCrO₃ Perovskites, 63rd DAE Solid State Physics Symposium Guru Jambheshwar University of Science and Technology, Hisar, Haryana Organized by Bhabha Atomic Research Centre, Mumbai, India, December 18-22, 2018.
39. **K. Sakthipandi**, E. Ahilandeswari, M. Sivabharathy and A Senthil Kumar, Tuning of Curie temperature in barium-based spinel ferrites, 63rd DAE Solid State Physics Symposium Guru Jambheshwar University of Science and Technology, Hisar, Haryana Organized by Bhabha Atomic Research Centre, Mumbai, India, December 18-22, 2018.
40. R. Brindha, M. Selvam and **K. Sakthipandi**, Evaluation of Anticorrosive Behaviour of ZnO Nanotetrapods On AZ91 Grade Mg Alloy, 2nd National Conference on Current and Emerging Process Technologies CONCEPT – 2019, Kongu Engineering College, Erode 638 060, Tamil Nadu
41. **K. Sakthipandi** and M. Sivabharathy, Rare-earth doped Advanced Ferrite Materials for Better Health Care and Environment, “Second National Conference on “Advanced Materials for Health, Energy and Environment”, JSS Science and Technology University, Mysuru, Karnataka, September 6-7, 2019.
42. E. Ahilandeswari, **K. Sakthipandi**, R. Rajesh Kanna, N. Narayana Moorthy, Neodymium doped barium nanoferrite for Electromagnetic Shielding, “Second National Conference on “Advanced Materials for Health, Energy and Environment”, JSS Science and Technology University, Mysuru, Karnataka, September 6-7, 2019.
43. R. Brindha, M. Selvam, **K. Sakthipandi**, Perovskite Cathode Material and Water Suspended Graphene Electrolyte additive in Advanced Mg-battery, Second National Conference on “Advanced Materials for Health, Energy and Environment”, JSS Science and Technology University, Mysuru, Karnataka, September 6-7, 2019.
44. **K. Sakthipandi**, G. Rajkumar and M. Sivabharathy Non-destructive Ultrasonic measurement: Access the Quality of the Nuclear Materials 6th National Conference on Material Research (NCMR-2020), Easwari Engineering College Chennai – 600 089, March 11, 2020
45. **K. Sakthipandi**, G. Rajkumar and B. Ganesh Babu, Investigation of magnetic phase transitions in Ni_{0.5}Cu_{0.25}Zn_{0.25}Fe_{2-x}La_xO₄ nanoferrites using in-situ ultrasonic measurement, 9th Interdisciplinary Symposium on Materials Chemistry (ISMC – 2022), Bhabha Atomic Research Centre, Mumbai, India, December 7-10, 2022.
46. G. Rajkumar, V. Dhivya and **K. Sakthipandi**, Physico-chemical and Structural analysis of Fluorophosphate glass system as a function of added TiO₂ Content, 9th Interdisciplinary Symposium on Materials Chemistry (ISMC – 2022), Bhabha Atomic Research Centre, Mumbai, India, December 7-10, 2022.
47. N. Venkatesh Bharathi, **K. Sakthipandi** and S. Ramaswamy, Effect of pH on luminescent properties of Ba₂V₂O₇ phosphor for WLED applications synthesized by hydrothermal method, 9th Interdisciplinary Symposium on Materials Chemistry (ISMC – 2022), Bhabha Atomic Research Centre, Mumbai, India, December 7-10, 2022.

QIP/STC/FDP ATTENDED

1. Participated in Short Term Course on “**Fracture Characterization of concrete using non-destructive testing including acoustic emission**” Centre for Continuing Education, **Indian Institute of Science**, Bangalore, December 16-20, 2019.
2. Participated in Six-Day Faculty Development Programme on “**Computational Science in Engineering**” conducted **R V College of Engineering**, Bangalore July 15 - 20, 2019.
3. Participated in Short Term Course on “**Thermoelectric Material and Its Applications**” Centre for Continuing Education, **Indian Institute of Science**, Bangalore, May 13-17, 2019
4. Participated in Short Term Course on “**Technological Advancements of Polymer Nanocomposites**” Centre for Development of Technical Education and Advance Centre for Materials Science, Department of Mechanical Engineering, **Indian Institute of Technology Kanpur**, March 04-08, 2019.
5. Participated in Short Term Course on “**Frontiers in Microwave**” Centre for Continuing Education and Microwave Laboratory, Department of Physics, **Indian Institute of Technology Madras**, Chennai, October 22-27, 2018
6. Participated in Short Term Course on “**Analog Integrated Circuits: Fabrication Process and Applications**” Centre for Continuing Education, **Indian Institute of Science**, Bangalore, August 13-18, 2018
7. Participated in Short Term Course on “**Electrochemistry Basics, Analysis and Applications**” Centre for Continuing Education, **Indian Institute of Science**, Bangalore, June 11-15, 2018
8. Participated in Short Term Course on “**Powder X-Ray Diffraction – Theory and Practical and Applications**” Centre for Continuing Education, **Indian Institute of Science**, Bangalore, May 14-18, 2018
9. Participated in Short Term Course on “**Single Crystal X-Ray Diffraction – Theory and Practice**” Centre for Continuing Education, **Indian Institute of Science**, Bangalore, February 19-23, 2018
10. Participated in AICTE Sponsored Two Weeks Faculty Development Programme on **Computational Fluid Dynamics in Engineering & Design**, Department of Mechanical Engineering, **Sethu Institute of Technology**, Kariapatti, December 4-17, 2017
11. Participated in Short Term Course on “**X-Ray Crystallography Basics and Applications**” Centre for Continuing Education, **Indian Institute of Science**, Bangalore, September 11-15 2017

CONFERENCE/WORKSHOP ATTENDED

1. Participated in NAAC Sponsored **National Level Seminar on Revised NAAC Framework for Quality Enhancement in Higher Educational Institutions**, Organized by Sethu Institute of Technology, February 27-28, 2019.
2. Participated in **85th Annual Meeting of Indian Academy of Sciences** on November 8-10, 2019 Organized by Indian Academy of Sciences at Central University of Hyderabad.
3. Participated in **National Seminar on New Perspectives in Chemical Sciences** on September 16, 2019 Organized by Department of Chemistry, PSGR Krishnammal College for Women, Coimbatore 641 004
4. Participated in **Recent Advances in Materials Science** one day technical meet in honour of Prof. S. Vasudevan on July 5, 2019 Organized by Department of Inorganic and Physical Chemistry Indian Institute of Science, Bangalore 560 012.

5. Participated in the **National Workshop on Role of IPR in Innovation Management and Academia – Industry Collaboration** jointly Organised by National Research Development Corporation, New Delhi and Sethu Institute of Technology, February 7, 2019
6. Two days National workshop on "**Hands on Training on Design and Fabrication of Antenna**" Jointly Organized by Indian Society for Technical Education (ISTE) Student Forum and Sethu Institute of Technology, February 12-13, 2019
7. Participated in the **Winter School - 2017: "Frontiers in Materials Science"**, **Jawaharlal Nehru Centre for Advanced Scientific Research**, Bangalore, December 04 - 08, 2017.
8. Participated in the Science Academies Lecture Workshop on **Recent Trends in Applied Physics** at Department of Physics, Devanga Arts College, Aruppukottai, Virudhunagar district, Tamil Nadu, September 22-23, 2017.
9. Participated in **Make in India – Transforming Research to Reality**, Centre for Technology Development and Transfer, **Anna University**, Chennai, September 5, 2017
10. Participated in **Indian Nano User Programme - Hands-on Training Workshop on Nanofabrication Technologies**, Centre for Nano Electronics, **Indian Institute of Technology**, Mumbai, August 17-21, 2017
11. Participated in the **Workshop on Scope for R&D Projects and Proposal Preparation** in Anna University, Chennai, May 12, 2017
12. Participated in the National Conference on **Advanced Materials Research: Processing and Characterisation** at Department of Physics, **National Institute of Technology, Tiruchirapalli**, February 27-28, 2017.
13. Participated in the National Seminar on **Online Education and Open Education Resources** at **Sethu Institute of Technology, Karipatti**, February 17, 2017.
14. Participated in the National Seminar on **Advanced Materials Research** at Department of Physics, **Alagappa University, Karaikudi**, January 19, 2017.
15. Participated in the **Consortium Research Lecture Module: "1st Order Magnetic Phase Transitions and Some New Concepts"** at **UGC-DAE Consortium for Scientific Research**, Indore, January 09-13, 2017.
16. Participated in the **Winter School-2016: "Frontiers in Materials Science, Jawaharlal Nehru Centre for Advanced Scientific Research**, Bangalore, December 05-09, 2016.
17. Participated in the Science Academies Lecture Workshop on **Some Recent Trends in Physics** at Department of Physics, Kumaraguru College of Technology, Coimbatore, September 7-9, 2016.
18. Participated in the **Workshop on Physics in Engineering** in Department of Physics, Thiagarajar College of Engineering, Madurai, November 2015
19. Participated in the National Seminar on **INTELLECTUAL PROPERTY RIGHTS** in Research & Development Innovation Cell, Sethu Institute of Technology, Virudhunagar, July 2015
20. Presented in the **Faculty Talent Hunt 2015**, Research and Development Cell, Sethu Institute of Technology, Virudhunagar, August 2015
21. Participated in **Indian Nano User Programme - Hands-on Training Workshop on Nanofabrication Technologies**, Centre for Nano Electronics, **Indian Institute of Technology**, Mumbai (February 16-20, 2015)
22. Participated in **NRC-M Symposium on Magnesium Alloys: Processing, Properties and**

Applications, Department of Materials Engineering, Indian Institute of Science, Bangalore 560 012, (May 5-7, 2014)

23. Indo-Israel Meeting on **Materials for Nanoscience, Bio Sensor and Energy** organized by International Centre for Materials Science (ICMS), Jawaharlal Nehru Centre for Advanced Scientific Research, India – Weizmann Institute of Science, Israel, (February 4-5, 2013).
24. Joint Workshop on **Smart Functional Nanomaterials** organised by International Centre for Materials Science (ICMS), Jawaharlal Nehru Centre for Advanced Scientific Research, India – Royal Melbourne Institute of Technology, Australia, (January 28-29, 2013).
25. Workshop on **Powder, Nano and Thin films Characterisation using X-ray Diffraction** organized by PANalytic, India and Avinashilingam University, Coimbatore (September 26-27, 2012).
26. **National Symposium on Acoustics (NSA-2007)**, Organised by K S Rangasamy College of Technology, Tiruchengode, Tamil Nadu (December 5-7, 2007)
27. National Conference on **Development of Materials for Energy Sources** organised by Vellalar College, Erode (February 15-16, 2007).
28. UGC National Seminar on **Emerging Facts on Mobile Communications** organised by Vellalar College, Erode (September 28, 2006).
29. Seminar on **A Carrier in Physics – Challenges and Prospects** organised by Madurai Kamaraj University, Madurai (September 11, 2003).

INVITED TALK

1. **Advanced Functional Materials for Energy, Environment and Biomedical Applications**, The 3rd International Conference on Nanoscience and Nanotechnology for Energy, Environment and Biomedical Applications (iNEEBA-2023), Vinayaka Mission's Research Foundation (Deemed to be University), October 1-2, 2023
2. **Recent Trends in Nano Magnetic Materials**, Theivanai Ammal College for Women (Autonomous), Viluppuram, Tamil Nadu 605 602, September 20, 2023
3. **Basic Sciences - Fundamental for Engineering**, First Year Students Induction Program, Adithya Institute of Technology, Coimbatore - 641 107. September 5, 2023
4. **Advanced Materials and its Applications**, National Seminar on Advanced Materials and Their Applications'2023, Kongunadu Arts and Science College, Coimbatore- 641 029 Tamil Nadu, September 4, 2023
5. **Modern Trends in the Applications of Multifunctional Perovskites**, International Conference on Modern Functional Materials and its Multifunctional Applications (ICMFM-2023), Erode Sengunthar Engineering College, Perundurai, Erode 638 057, July 21, 2023
6. **Nanotechnology for Health-Care Applications and safety**, Red Ribbon Club, K. S. Ramasamy College of Technology, Tiruchengode 637 215, Namakkal, July 21, 2023
7. **Research Proposal Writing**, 3 day workshop on research proposal, SRM Ramapuram Campus, SRM Group of Institutions, Chennai – 600 089, July 10-12, 2023
8. **Structural, Optical and Ultrasonic Characterization of Materials**, Department of Science and Technology sponsored Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (DST-STUTI): Hands-on Training program on Photonic devices, DFT Calculus and R&D Equipment, Bannari Amman Institute of Technology, Sathyamangalam, Erode 638 401, June 26,

2023

9. Faculty Development Program on **Drafting Research Articles and Proposals**, Nadar Saraswathi College of Engineering and Technology, Vadapudupatti, Theni 625 531, Tamil Nadu, May 20, 2023,
10. **Writing Winning Project Proposals**, One week Faculty Development Program on Outcome Based Education and Research Strategies, Sreenivasa Institute of Technology and Management Studies, Chittoor, Andhra Pradesh 517 127, May 12, 2023.
11. **Modern Materials and its Applications**, National College, Tiruchirappalli 620 001, March 23, 2023
12. **NEMS in Implantable Medical Devices and Nano technologies in Drug delivery**, Department of Biotechnology (DBT) sponsored Two-day National Seminar on the Application of Non-Invasive Bio-Nano Electro Mechanical Systems (NEMS) Sensors in Healthcare, Innovation, and Emerging trends, Bannari Amman Institute of Technology, Sathyamangalam 638 401, March 22, 2023.
13. One day FDP program on **Research Proposal Writing**, Nandha Arts and Science College, Erode 638 052, Tamil Nadu.
14. **Advanced Functional Materials: Perspectives and Directions**, International Conference on Emerging Trends in Nanomaterials and Devices, Vellalar College for Women (Autonomous), Erode 638 012, Tamil Nadu, March 3, 2023.
15. Department of Biotechnology Sponsored Guest Lecture: **Nano Science - Scope and Career Opportunities**, Kongu Arts and Science College, Erode 638 107, Tamil Nadu. March 3, 2023
16. **Current Trends in Nanoscience: Overview and Applications**, National Science Day Celebration'23, Sono College of Arts and Science, Salem 636 005, February 27, 2023.
17. **NanoScience for Non-Science**, International Conference on Recent Trends and Innovations in Science, Engineering and Social Sciences, National College, Tiruchirappalli, February 10, 2023
18. **Applications of Science in Engineering**, Chettinad College of Engineering and Technology, Karur, January 25, 2023
19. **Current Trends in Nano Science**, Gobi Arts and Science College (Autonomous), Karattadipalayam (Po), Gobichettipalayam (Tk) - 638453, Erode, Tamil Nadu, January 21, 2023.
20. **Recent Trends in Halide Perovskite Solar Cells**, Cardamom Planters' Association College, Bodinayakanur, Theni 625 513, Tamil Nadu, January 12, 2023
21. **Organic-Inorganic Halide Perovskite Solar Cell and its Modern Applications**, International Conference on Recent Advancement in Material Science and it's Applications (ICRAMSA'23), Mannar Thirumalai Naicker College (Autonomous), Pasumalai, Madurai - 625 004, Tamil Nadu, India, January 11, 2023.
22. **Role of nanotechnology in the Ecosystem and Environment** in National level conference on Promoting Innovations in Environmental Research and Science (PIERS-2022) organized by QCPRL & CMRL in association with National Service Scheme of Bannari Amman Institute of Technology, Sathyamangalam 638 401
23. **Drafting Effective Research Proposal**, Department of Physics, Thiagarajar College Madurai, October 8, 2022.
24. **Nano Innovations** - One day National Conference for Innovations in Nano Research (NCINR - 2022), Jairams Arts and Science College, Karur 639 003, September 21, 2022.
25. **Nano: Essential for Modern Applications**, Department of Physics, Seeethalakshmi Ramasamy College, Tiruchirappalli 620 002, August 03, 2022.

26. **Application of Nanomaterials in Engineering**, Department of Physics, MVJ College of Engineering, Bangalore 560 079, July 4, 2022.
27. **Nanoparticles: Synthesis, Characteristics, and Applications in Analytical and other Sciences**, PG Department of Physics, Mannar Thirumalai Naicker College (Autonomous), Pasumalai, Madurai - 625 004, May 18, 2022.
28. **Advanced Functional Materials: Perspectives and directions**, National Conference on Advanced Functional Materials (NCAFM-2022), Vivekanandha College of Arts & Science for Women, Tiruchengode, Namakkal, May 13, 2022.
29. **An Overview of Intellectual Property Rights - World Intellectual Property Day**, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore 641 020, April 26, 2022
30. **Recent Advances in Perovskite Oxides for Supercapacitor**, CSIR sponsored National level two days seminar on State-of-the-Art and Future Perspective of Hybrid Supercapacitor for Greener Environment, Department of Physics, Nehru Institute of Engineering and Technology, Coimbatore 641 105, During October 7-8, 2021, Date: October 7, 2021
31. ASET Colloquium on **"In-Situ Ultrasonic Materials Characterisation at Elevated Temperatures"** Tata Institute of Fundamental Research, Mumbai 400 005, October 23, 2021
32. Lecture on **"Physics of Nanomaterials and Magnetic Materials"**, Research Department of Physics of V.H.N. Senthikumara Nadar College, Virudhunagar 626 001, (Under DBT-Star College Strengthening UG Science Scheme), Date 11.10.2021
33. Research seminar **"Proposal Drafting for Research and Innovation Project"** Institution's Innovation Council (IIC)- AAA College of Engineering and Technology, Sivakasi, Tamil Nadu 626 123 on 11.10.2021
34. **Magnetic Ferrites for Electromagnetic Shielding**, Faculty Development Programme on "Recent Trends in Materials Physics" (RTMP-2021) from 22-28, June 2021 organized by the Department of Science and Humanities, Faculty of Engineering, Karpagam Academy of Higher Education, Coimbatore 641 021, Tamil Nadu, Date: 24th June, 2021
35. **Ultrasonics: A Technique of Material Characterization at Elevated Temperature**, two weeks Virtual FDP on Pursuit of Excellence in Research and Advanced Technology Department of Physics, Sathyabama Institute of Science and Technology, Chennai, October 20-30, 2021, Date 25.10.2021
36. **Essential of Nano to Engineering**, One Day International Seminar on Frontier in Materials Science and its Applications" at Department of Physics, Muthayammal Engineering College, Rasipuram – 637 408, Tamil Nadu, March 13, 2020.
37. **Remarkable Structural, Magnetic and Microwaves Absorption Properties of Rare Earth doped Mn-Cu Ferrites**, Two Day National Seminar on "Emerging Trends in Physics" (NSETP – 2020) at Sadakathullah Appa College, Tirunelveli 627011, and February 28, 2020.
38. **Recent Trends in Materials Science**, National Science Day Celebration, Department of Physics, Fatima College for Women, Mary Land, Madurai 625 018, February 28, 2020.
39. **Biomaterials and Luminesces Materials**, International National Seminar on Recent Trends in Physics, Department of Physics, Mangayarkarsai College of Arts and Science for Women, Madurai 625 018, February 20, 2020.
40. **Nano magnetic and Nano Solar Materials**, Vivekanandha College of Arts & Science for Women, Tiruchengode, Namakkal, January 7, 2020

41. **Research for Accreditation**, Faculty Induction Programme, Research and Innovation Cell, Sethu Institute of Technology, Kariapatti 626 115, December 31, 2019
42. **Biotechnology of DNA Cleaving for Photodynamic therapy**, Cauvery College for Women, Woraiyur, Tiruchirappalli, September 16, 2019
43. **Fellowships in India**, Cauvery College for Women, Woraiyur, Tiruchirappalli, September 11, 2019
44. **Essential of Nano to Modern Science**, Virudhunagar District Cluster of College's Joint Faculty Meeting in Physics, Ayya Nadar Janaki Ammal College, Sivakasi 626 124, Tamilnadu, India, August 31, 2019
45. **Application of Nanotechnology**, KJC Special Lecture, Kristu Jayanti College (Autonomous), K. Narayanapura, Kothanur (PO), Bengaluru 560077, India, August 17, 2019
46. **Application of Smart Nanomaterials**, One day International Seminar on Recent Trends in Nano Science and its Applications ISRTNSA -2K19, Nandha Arts and Science, India, August 14, 2019.
47. **An Overview on X-ray diffraction and Scanning Electron Microscope**, Two day National Workshop on X-ray diffraction and Scanning Electron Microscope, Sethu Institute of Technology, Kariapatti, Tamil Nadu, India, May 31, 2019.
48. **Various Funding Opportunities and Art of Writing Research Proposal**, Nehru Institute of Engineering and Technology, Coimbatore 641 105, Tamil Nadu, India, May 4, 2019.
49. **Smart Materials for Modern World**, National Seminar on Nano Smart Materials Mangayarkarsi College of Arts and Science for Women, Paravai, Madurai 625 018, March 5, 2019.
50. **Application of Nanomaterials**, Cluster of Colleges (Physics) Programmes, Sri S Ramasamy Naidu Memorial College, Sattur 626 203, India, March 09, 2019
51. **Evaluation of State in the Materials at High Temperature employing in-situ Ultrasonic measurement**, State Level Seminar on Innovative Insight in Ultrasonic Methods, Department of Physics, Kamaraj College, Thoothukudi 628 003, February 28, 2019
52. **Synthesis and Characterisation of Nanomaterials using Ultrasonics**, Department of Physics, Thiagarajar College Madurai, February 14, 2019
53. **How to Write a Research Proposal**, One-day Seminar on Art of Proposal, Research and Innovation Cell, Sethu Institute of Technology, January 10, 2019
54. **Applications of Nanotechnology in Modern Sciences**, Cauvery College for Women, Woraiyur, Tiruchirappalli
55. **Applications of Nanotechnology in Modern Sciences**, Vivekanandha College of Arts & Science for Women, Tiruchengode, Namakkal
56. **Nanotechnology Applications**, K. Ramakrishnan College of Engineering, Tiruchirappalli, April 2017
57. AICTE Sponsored two weeks Faculty Development Programme on **Mathematical Sciences Research Challenges in Engineering Applications**, , Sethu Institute of Technology, Virudhunagar, November 20, 2017 to December 03, 2018
58. Faculty Training Programme on **Funded Research Project And Thesis Writing** in Department of Science & Humanities, Sethu Institute of Technology, Virudhunagar, October 2015
59. **Nano Materials**, M. Kumarasamy College of Engineering, Karur, September 2015
60. **State-Level Seminar – Recent Trends in Materials Science**, AVS College of Arts and Science, Salem 636 106
61. **Ultrasonic nondestructive Characterisation of Nano materials**, Student Seminar in Chemistry,

Physics and Materials Unit (CPMU) at Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India (2013).

62. **Innovations in Science & Technology**, One day National Seminar on Science & Technology, Seethalakshmi Ramaswami College, Tiruchirappalli (2013).
63. **Ultrasonics and its Applications**, UG Physics Association, Sri SRNM College, Sattur, India (2012).
64. **Ultrasonic nondestructive Characterisation of Nuclear Materials and Application sonochemical Reactor in Nanotechnology**, National Symposium on Ultrasonic at Vellore Institute of Technology, Vellore (2010).
65. **“Enaku Piditha Eyarpiyal Vithi”** Seminar for School Children, Organized by Tamilnadu Science forum, Govt. Girls Higher Secondary School, Erode (2007).

INVITED TALK (Through Online Portal)

66. **Remarkable Structural, Magnetic and Microwave Adsorption Properties of Rare Earth-Doped Mn-Cu Ferrites & In-situ Characterization of Materials at Elevated Temperatures**, Online Faculty Development Programme, Kristu Jayanti College (Autonomous), Bangalore - 560 077, Time: May 4, 2020.
67. **Writing Effective Research Proposal**, One day Faculty Programme on Challenges in Building Collaborations in Research and Innovation, Dr. M.G.R. Educational and Research Institute, Maduravoyal, Chennai 600 095, May 9, 2020
68. **Introduction to Nanotechnology: Basic to Applications**, Guest Lecture, Rabihammal Ahamed Maideen College for Women, Thiruvavur 610 001, May 22, 2020.
69. **Materials for Microwave Absorption**, Webiner for PG Physics Students, Vivekanandha College of Arts & Science for Women, Tiruchengode, Namakkal, May 26, 2020
70. **X-ray diffraction: Basic to Applications**, Webinar on Characterisation Techniques, Sadakathullah Appa College, Tirunelveli 627 011, May 29, 2020
71. **Application of Nanotechnology in Biomedical, Textile and Agricultural Engineering**, Webinar on Nanotechnology Series -II, K S Rangasamy College of Technology, Tiruchengode 637 215, June 1, 2020
72. **Role of Nano and Smart Materials in Mechanical Engineering**, One Week Faculty Development Webinar Programme on Emerging Research Areas in Mechanical Engineering, June 29 - July 3, 2020 CMR Technical Campus, Hyderabad, June 2, 2020
73. **Materials for Microwave Absorption – An Introduction**, NOVUS 2020, Online Webinar series Organised by Arrkay Engg Works, Pvt Ltd, Chennai, Tamil Nadu on August 16, 2020.
74. **Rare-earth doped Ferrite Materials for EMI Shielding**, Three days Online National Conference on “Recent Trends in Acoustics and Material Science”-2020 (RTAMS-2020) November 28-30, 2020 Organized By Department of Physics, School of Basic Sciences and Research (SBSR), Sharda University, Delhi
75. **Advanced Functional Materials: Perspectives and directions**, Two days Virtual International Conference on “Advanced Materials” at Department of Chemistry, SJCE, JSS Science and Technology University, Mysuru, Karnataka 570 006, July 6, 2021
76. **Materials for Modern Applications**, Lecture Series on Recent Trends in Physics, Department of Physics, Dr.N.G.P Arts and Science College, Coimbatore 641 048, June 05, 2021

77. **Drafting Effective Funded Research Proposal**, Three Days Faculty Development Program on “Enriching Research Methodologies, Effective Journal Publications and Proposal Drafting” from 26 July 2021 to 28 July 2021, Department of Electronics and Communication Engineering, RMK College of Engineering And Technology, Puduvoyal 601 206, July 26, 2021
78. **An Overview of Intellectual Property Rights**, World Intellectual Property Day, Intellectual Property Rights Cell, Sri Ramakrishna Mission Vidyalaya College of Arts & Science, Coimbatore - 641 020
79. **Materials Characterisation at Elevated Temperatures using In-Situ Ultrasonic Velocity Measurement**, International Virtual Conference on Materials Research (IVCMR-22), Easwari Engineering College, Chennai, September 16, 2022
80. **The Role of Nanotechnology in Environmental Research and Innovation**, National Level Virtual Conference On Promoting Innovation in Environmental Research & Science (PIERS), Bannari Amman Institute of Technology October 18, 2022.

Out-Reach Programme

1. Participated and Delivered Talk in the **Annual Sports day** of SSV Higher Secondary School, Melur, Madurai, February 23, 2019.
2. Participated and Delivered Talk in the **Exam Orientation day** of Haji Musthafa Matriculation Higher Sec School, Srirampuram, Dindigul, March 4, 2019.
3. Participated and Delivered Talk in the **Golden Jubilee and Grand Ceremony of Annual day** of Kalisettipalayam Panchayat Union Elementary School, Gobi, Erode, February 22, 2020.
4. Participated and Delivered Talk in the **Golden Jubilee and Grand Ceremony of Annual day** of Kalisettipalayam Panchayat Union Elementary School, Gobi, Erode, February 21, 2023.

BOOKS

- **Applied Physics for Engineers**, Published by: K S Rangasamy College of Technology, Tiruchengode, India.
- **Characterisation of Mixed-valent Perovskites**, Publisher: LAP LAMBERT Academic Publishing (September 4, 2018), ISBN-13: 978-6139881390
- **Caracterização de Perovskites Mistos Valentes**, Portuguese Edition, Publisher: Edicoes Nosso Conhecimento (6 February 2023), ISBN-13: 978-6205668320
- **Caratterizzazione delle perovskiti Mixedvalent**, Italian Edition, Publisher: Edizioni Sapienza (6 February 2023), ISBN-13: 978-6205668313
- **Caractérisation des pérovskites à valence mixte**, French Edition, Publisher: Editions Notre Savoir (6 February 2023), ISBN-13: 978-6205668306
- **Charakterisierung von gemischtwertigen Perowskiten**, German Edition, Publisher: Verlag Unser Wissen (6 February 2023), ISBN-13: 978-6205668283

AS-CO EDITOR

- Abstract Book - **IUPAC-Sponsored 6th International Symposium on Macro-and Supramolecular Architectures and Materials (MAM-12): Nano Systems** and Applications, Published by: K S Rangasamy College of Technology, Tiruchengode, India, ISBN No.: 978-93-80406-59-6.

BOOK CHAPTER

- **K. Sakthipandi**, Aslam Hossain, G. Rajkumar, **Structure–Property Relations in Rare-Earth Doped Manganite Perovskites**, Engineering, Magnetic, Dielectric and Microwave Properties of Recent Ceramics, Materials Research Forum LLC, Materials Research Foundations, 57 (2019) 149-174, Print ISBN 978-1-64490-038-3 and ePDF ISBN 978-1-64490-039-0 (<https://doi.org/10.21741/9781644900390-7>)