


Faculty Profile

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|---|---|----------|--------------------------------------|--|
| Name | : Dr. SAKTHIPANDI K | | |  Professor |
| Date of Birth | : 22/05/1982 | | | |
| Highest Qualification | : M.Sc., M.Phil., Ph.D. | | | |
| Date of Joining | : 01.03.20211 | | | |
| Designation | : PHYSICS | | | |
| Date of promotion (Present Designation) | : 01.09.2022 | | | |
| Area of Interest | : Nanostructured Materials, Magnetic Materials, Newer Materials, Nuclear Materials, On-line Material Characterization and Ultrasonic Characterization | | | |
| Mobile No | : 9944585960 | Email ID | : sakthipandi.k@trp.srmtrichy.edu.in | |
| Experience | : Teaching : | 18 | Industry : | Research : 5 |
| Address (for Communication) | : Department of Physics, SRM TRP EC, Tiruchirappalli 621 105, Tamil Nadu | | | |

Association with Professional Bodies

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

Research

| Ph. D Guidance | | | | | |
|---|-----------|-----------------------|-----------------|-------------------|------------------------------|
| Supervisor / Guide ship No. : | 2370526 | University : | Anna University | No. of Scholars : | 02 Completed 02 – Pursing |
| Publication* | | | | | |
| International Journals : | 98 | National Journals : | 03 | | |
| International Conference : | 49 | National Conference : | 53 | | |
| Project Grants (Research projects guided or undertaken/ Sponsored Projects) | | | | | |
| Received (Amount) : | 81,47,000 | Applied (Amount) : | | | |
| Patent | | | | | |
| Published : | 05 | Granted : | 01 | | |

Books

| | |
|-------------|--|
| Published : | <p>BOOKS</p> <ul style="list-style-type: none"> • Characterisation of Mixed-valent Perovskites, Publisher: LAP LAMBERT Academic Publishing (September 4, 2018), ISBN-13: 978-6139881390 • Caracterização de Perovskites Mistos Valentos, 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 <p>BOOK CHAPTER</p> <ul style="list-style-type: none"> • 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) |
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FDPs / STTPs / Workshops / Seminars etc.,

| FDP | | STTP | | Workshop | | Seminar | | Others | |
|-------------|----|-------------|----|-------------|----|-------------|----|-------------|----|
| Attended : | 12 | Attended : | 04 | Attended : | 29 | Attended : | 11 | Attended : | 80 |
| Organized : | 06 | Organized : | | Organized : | 05 | Organized : | 06 | Organized : | |

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|--|-----------|
| Online courses (NPTEL, MOOC etc.) | 03 |
|--|-----------|

List of Publications :

100. V. Aravindan, V. Vijayanarayanan, B. Karuppasamy, **K. Sakthipandi**, and M. Mahendran, Ab-initio Study on the Physical Properties of New YbCoCrSb and YbCoTiSn Equiatomic Quaternary Heusler Alloys, Materials Today Communication Volume 39, June 2024, 108599. Publication **[SCI IMPACT FACTOR: 3.8]**

99. S. Nanjundaswamy, Karthik Shanthakumar, Sandeep Shadakshari, Jothi Ramalingam Rajabathar, Arokiyaraj Selvaraj, Hamad Al-lohedan, **K. Sakthipandi**, P. Mallu, Redefining Chalcone Synthesis: Aldol Adduct Elimination for the Rapid Access to Thienylchalcones, ACS Omega, Accepted for Publication [**SCI IMPACT FACTOR: 4.1**]
98. **K. Sakthipandi**, K. Venkatesan, G. Purushothaman, G. Rajkumar, Rajshree B. Jotania, R. Sivakumar, S. Arunmetha, Aslam Hossain, Study of phase transition temperature in defect-induced barium hexaferrite, Materials Letters, Volume 363, 15 May 2024, 136257. (***Corresponding Author**), [**SCI IMPACT FACTOR: 3**]
97. **K. Sakthipandi**, K. Venkatesan, R. Sivakumar, G. Rajkumar, B. Ganesh Babu, S. Arunmetha, Aslam Hossain, M. Srinidhi Raghavan, and V. Rajendran, Exploring the impact of rare-earth (La³⁺) ions doping on structural, magnetic, and dielectric properties of Co_{0.50}Ni_{0.50}La_xFe_{2-x}O₄ nano-spinel ferrite, Journal of Alloys and Compounds, Volume 981, 25 April 2024, 173708 (***Corresponding Author**), [**SCI IMPACT FACTOR: 6.2**]
96. N. Venkatesh Bharathi, **K. Sakthipandi** and S. Monisha, Synthesis and luminescence investigation of mirror symmetric Europium and Dysprosium co-doped Barium Vanadate phosphor for optoelectronic applications, Chemical Physics Impact, Volume 8, June 2024, 100506 (***Corresponding Author**), [**SCI IMPACT FACTOR: 2.2**]
95. P. Mohammed Yusuf Ansari, R.M. Muthukrishnan, C. Vedhi, **K. Sakthipandi**, S.M. Abdul Kader, Novel approach of copper nanoparticles assisted by multifunctional nanomaterial for electrochemical glucose sensing application, Inorganic Chemistry Communications, Volume 158, Part 2, December 2023, 111669. (***Corresponding Author**), [**SCI IMPACT FACTOR: 3.8**]
94. P. Mohammed Yusuf Ansari, R.M. Muthukrishnan, R. Imran Khan, C. Vedhi, **K. Sakthipandi**, S.M. Abdul Kader, Green synthesis of copper oxide nanoparticles using Amaranthus dubius leaf extract for sensor and photocatalytic applications, Chemical Physics Impact, Volume 7, December 2023, 100374. (***Corresponding Author**), [**SCI IMPACT FACTOR: 2.2**]
93. E. Ahilandeswari, **K Sakthipandi**, R. Rajesh Kanna, G. Rajkumar, B. Ganesh Babu, S. Arunmetha, Aslam Hossain, P. Sakthivel, V. Rajendran, M. Srinidhi Raghavan, Exploring the Electromagnetic Shielding behavior of Lanthanum doped Calcium Nanoferrites, Journal of Rare-Earth, Article In Press, <https://doi.org/10.1016/j.jre.2023.11.002> (***Corresponding Author**), [**SCI IMPACT FACTOR: 4.9**]
92. R.V Mangalaraja, G Ramalingam, **K Sakthipandi**, V Gowtham, Sakthivel Pandurengan, Crystallographic investigations and Induced Photoluminescence emission of Mn:ZnS Quantum dots: Role of Ce³⁺ rare earth ion, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy Volume 303, 15 December 2023, 123140 [**SCI IMPACT FACTOR: 4.4**]
91. Aslam Hossain, A.S. Volegov, **K. Sakthipandi**, E.A. Kiselev, V.A. Cherepanov, E.A. Mukhanova, A.V. Soldatov, Tuning of the optical and magnetic properties of Nd₂Ni_{1-x}Co_xMnO_{6-δ} (0.2 ≤ x ≤ 0.5) perovskite by cobalt doping, Ceramics International, Volume 49, Issue 17, Part B, 1 September 2023, Pages 29229-29236, [**SCI IMPACT FACTOR: 5.532**]
90. V. Dhivya, R. Dharshini, **K. Sakthipandi**, and G. Rajkumar, Role of TiO₂ in modifying elastic moduli and enhancing in vitro bioactivity of fluorophosphate glasses, Journal of Non-Crystalline Solids, Volume 608, 15 May 2023, 122250. [**SCI IMPACT FACTOR: 3.5**]
89. Chetan Chavan, Rajashekhar F Bhajantri, Vipin Cyriac, Ismayil, Soumya Bulla, **K. Sakthipandi**, Investigations on anomalous behavior of ionic conductivity in NaPF₆ salt loaded Hydroxyethyl cellulose (HEC) biodegradable polymer electrolyte for energy storage applications, Polymers for Advanced Technologies, Accepted for Publication, <https://doi.org/10.1002/pat.6004> . [**SCI IMPACT FACTOR: 3.4**]

88. N. Venkatesh Bharathi, P. Kavitha, S. Ramaswamy, S.S. Jayabalakrishnan, **K. Sakthipandi**, Synthesis and Luminescence Investigation of Ba₂V₂O₇ co-doped Dy³⁺/Eu³⁺ phosphors for White Light Emitting Diode applications, Indian Journal of Physics, 2013, <https://doi.org/10.1007/s12648-022-02503-z> [**SCI IMPACT FACTOR: 2.0**] (*Corresponding Author)

87. Soumya S Bulla; Rajashekhar F Bhajantri; Chetan Chavan; **K. Sakthipandi**, Biosynthesized Ag Nanoparticle–Encapsulated PVA (CR-Ag-PVA) Film: Dielectric and Structural Properties, ChemistrySelect - Wiley-VCH GmbH, Volume 7, Issue 47, December 19, 2022, e202201771. [**SCI IMPACT FACTOR: 2.1**]

86. K. Poovendran, K.S. Josephwilson, **K. Sakthipandi** and N.R.Ramanujam, Assimilation of manganese metal ion doped hydroxyapatite by Co-Precipitation technique, Journal of the Indian Chemical Society, Volume 99, Issue 11, November 2022, 100779, [**SCI IMPACT FACTOR: 0.2**] (*Corresponding Author),

85. P. Kavitha and **K. Sakthipandi**, Growth, Structural, Vibrational, Optical, Electrical and Thermal Properties of transition metal and Zinc Oxide added Glycine Semi-organic Crystal, Indian Journal of Pure and Applied Physics, Volume 60, No 11 (2022) pages 941-950 [**SCI IMPACT FACTOR: 0.7**] (*Corresponding Author)

84. K Sakthipandi, B. Ganesh Babu, G Rajkumar and Aslam Hussian, Investigation of magnetic phase transitions in Ni_{0.5}Cu_{0.25}Zn_{0.25}Fe_{2-x}La_xO₄ nanoferrites using magnetic and in-situ ultrasonic measurements, Physica B Condensed Matter, Volume 645, 15 November 2022, 414280 [**SCI IMPACT FACTOR: 2.8**], (* Corresponding Author),

83. V. Dhivya, G. Rajkumar, S. Mahalaxmi, K. Rajkumar, B. Saravanakarhikeyan, S. Kavitha, R. Karpagam, **K. Sakthipandi** and G.K. Sathishkumar, Impact of silver on fluorophosphate glasses to improve in vitro bioactivity and antibacterial efficacy, Ceramics International, Volume 48, Issue 17, 1 September 2022, Pages 25346-25354, [**SCI IMPACT FACTOR: 5.2**]

82. **K Sakthipandi**, P. Thamilmaran, M. Arunachalam, M. Srinidhi Raghavan, Ultrasonic Investigation of Materials – An Avenue for Project Based Learning, The Journal of the Acoustical Society of America, Volume 151, (2022) 2732 [**SCI IMPACT FACTOR: 2.4**], (* Corresponding Author)

81. N. Venkatesh Bharathi, P. Kavitha, S. Ramaswamy, S.S. Jayabalakrishnan, **K. Sakthipandi**, Turning of Luminescence Properties of Ba₂V₂O₇ phosphors by co-doping Eu³⁺/Dy³⁺ ions, Bulletin of Materials Science, Volume 45, (2022) Article number 172, [**SCI IMPACT FACTOR: 1.8**], (* Corresponding Author).

80. Chetan Chavan, Rajashekhar F Bhajantri, Vipin Cyriac, Ismayil, Soumya Bulla, H. B. Ravikumar, M. Raghavendra, **K. Sakthipandi**, Exploration of free volume behaviour and ionic conductivity of PVA: x (x = 0, Y₂O₃, ZrO₂, YSZ) Oxide-Ion Conducting Polymer Ceramic, Journal of Non-crystalline Solids, Volume 590, 15 August 2022, 121696, [**SCI IMPACT FACTOR: 3.5**]

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78. Chetan Chavan, R.F. Bhajantri, Soumya Bulla, H. B. Ravikumar, M. Raghavendr, **K. Sakthipandi**, K Yogesh Kumar, B.P. Prasanna, Ion dynamics and positron annihilation studies on polymer ceramic composite electrolyte system (PVA/NaClO₄/Y₂O₃): Application in electrochemical devices, Ceramics International, Volume 48, Issue 12, 15 June 2022, Pages 17864-17884 [**SCI IMPACT FACTOR: 5.2**]

77. R Saravanakumar, K Muthukumaran, C Sivasankari, N Sathiyapriya, **K Sakthipandi**, Role of Purged Air in the Synthesis of the Mesoporous NiO/C Composite and Its Application in Wastewater Treatment, Water, Air, & Soil Pollution, Volume 233, February 2022, Article number 53. [**SCI IMPACT FACTOR: 2.9**], (* **Corresponding Author**)
76. Aslam Hossain, Prasanta Bandyopadhyay, Abhijit Karmakar, AKM Atique Ullah, Rajesh Kumar Manavalan, **K Sakthipandi**, Norah Alhokbany, Saad M Alshehri, Jahangeer Ahmed, The hybrid halide perovskite: Synthesis strategies, fabrications, and modern applications, Ceramics International, Volume 48, Issue 6, 15 March 2022, Pages 7325-7343. [**SCI IMPACT FACTOR: 5.2**], (* **Corresponding Author**)
75. V Dhivya, S Mahalaxmi, K Rajkumar, VV Premkumar, B Saravanakarhikeyan, R Karpagam, R Priyatharshini, **K Sakthipandi**, V Saikumari, N Vijay, G Rajkumar, Effects of strontium-containing fluorophosphate glasses for enhancing bioactivity and enamel remineralization, Materials Characterization, Volume 181, November 2021, Article No: 111496 [**SCI IMPACT FACTOR: 4.7**]
74. Chetan Chavan, Bhajantri, F Rajashekhar, Soumya S Bulla, **K. Sakthipandi**, Indigenously Designed and Fabricated Mechanical Milling set-up to Synthesis Nanoparticles: A Cost-effective Method, Indian Journal of Pure & Applied Physics, Volume 59, September 2021, pages 603-611 [**SCI IMPACT FACTOR: 0.7**] (* **Corresponding Author**)
73. A. Ferin Fathima, R.Jothi Mani, M. Mohamed Roshan, K. Sakthipandi, Enhancing structural and optical properties of ZnO nanoparticles induced by the double co-doping of iron and cobalt, Materials Today: Proceedings, Volume 49, Part 7, 2022, Pages 2598-2601. (* **Corresponding Author**)
72. Soumya S. Bulla, R. F. Bhajantri, Chetan Chavan and **K. Sakthipandi**, Synthesis and characterization of polythiophene/zinc oxide nanocomposites for chemiresistor organic vapor-sensing application, Journal of Polymer Research volume 28, 2021, Article number 251 (2021) [**SCI IMPACT FACTOR: 2.8**], (* **Corresponding Author**) <https://doi.org/10.1007/s10965-021-02618-7>
71. K. Sathishkumar, K. Srinivasan, R.Karpagam, V.Dhivya, **K. Sakthipandi** and G. Rajkumar, Structural and mechanical properties of lignite fly ash and flax-added polymer matrix composite, Journal of Natural Fibers, Volume 19, Issue 13 (2022) Pages 6534-6552. [**SCI IMPACT FACTOR: 3.5**]
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**)
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**)
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**)
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**)

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**)
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.
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**)
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**)
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**]
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**]
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**)
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**)
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**)
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**)
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**)

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)**

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)**

53. G. Packiaraj, **K. Sakthipandi***, Aslam Hossain, Effect of 200 MeV Ag¹⁶⁺ 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)**

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)**

51. **K. Sakthipandi***, M. Sivabharathy and A. Senthil Kumar, Study of phase transition in Cu-doped La_{0.7}Sr_{0.3}MnO₃ perovskite manganite materials by ultrasonic technique, *Materials Today: Proceedings*, Volume 35, 2021, Pages 11-12 **(* Corresponding Author)**

50. **K. Sakthipandi*** and M. Selvam, Phase Transition of La_{0.62}Sr_{0.38}MnO₃ Perovskite Manganites, *Frontiers in Advanced Materials Research*, Volume 1, no. 1 (2019) pages 28-30. **(* 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]**

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)**

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]**

46. **K. Sakthipandi***, N. Lenin, R. Rajesh Kanna, A. Sabah Afroze, M. Sivabharathy, PVA-doped NiNd_xFe_{2-x}O₄ 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)**

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)**

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**)
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**].
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**)
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**)
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**)
39. G.G. Vinoth Kumar, M.P. Kesavan, A. Tamilselvi, G. Rajagopal, J. Dhavethu Raja, **K. Sakthipandi**, J. Rajesh, M. Sivaraman, A reversible fluorescent chemosensor for the rapid detection of Hg^{2+} 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**]
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