

Department of Physics
Journal Publications 2015 to Jan 2022

| S.No | Name | Title of the Paper | Journal Title | Year | Volume | Page | ISSN No |
|------|---|--|--|------------------|-------------------------------------|-------------|-----------|
| 1. | G. Kiruthiga, T. Raguram, K. S. Rajni, P. Selvakumar & E. Nandhakumar | Indium-free MgSnO ₃ transparent conductive oxide layer: investigation on structural, optical and electrical properties and photovoltaic performance analysis. | Applied Nanoscience | 2022 Accepted | DOI : 10.1007/s13204-022-02353-5 | | |
| 2. | S. Anitha S, V. Saranya., R. Shankar, V. Sasirekha | Structural exploration of interactions of (+) catechin and (-) epicatechin with bovine serum albumin: Insights from molecular dynamics and spectroscopic methods, | Journal of Molecular Liquids | 2022 | 348 | 118026 | 0167-7322 |
| 3. | R.Selvapriya,T.Abhijith,V .Ragavendran,V.Sasirekha ,V.S.Reddy,J.M.Pearce, J.Mayandi | Impact of coupled plasmonic effect with multishaped silver nanoparticles on efficiency of dye sensitized solar cells | Journal of Alloys and Compounds | 2022 | 894 | 162339 | 0925-8388 |
| 4. | D Lakshmi, M Infanta Diana, B Nalini, GG Soundarya, P Priyanka, S Jayapandi, P Christopher Selvin | Fine-tuning of stannic oxide anodes' material properties through calcination | Journal of Materials Science: Materials in Electronics | 2021 | 32 (23) | 27384-27397 | 1573-482X |

| | | | | | | | |
|----|--|--|---|------|--------|-----------|-----------|
| 5. | GG Soundarya, B Nalini, K Ramachandran, P Balraju, P Priyanka | Striking performance of plasma-synthesized carbon from Prosopis juliflora in a supercapacitor application | Journal of Physics D: Applied Physics | 2021 | 55 (8) | 085501 | 1361-6463 |
| 6. | R.Sasikala, M.Kandasamy, S.Suresh, V.Ragavendran V.Sasirekha, J.M.Pearce, S.Murugesan, J.Mayandi | Enhanced dye-sensitized solar cell performance using strontium titanate perovskite integrated photoanodes modified with plasmonic silver nanoparticle | Journal of Alloys and Compounds | 2021 | 889 | 161693 | 0925-8388 |
| 7. | L. Vasanthi and N. S. Rajeswari | Alpha decay half-lives of superheavy nuclei $104 \leq Z \leq 125$ | International Journal of Modern Physics E | 2021 | 30 | 2150071 | 1793-6608 |
| 8. | Sivaraj Pazhaniswamy, Abhilash Karuthedath Parameswaran, Nalini Balakrishnan, Sunkulp Goel, Zdeněk Sofer, Sudheer Kumar Yadav and Christopher Selvin Panneerselvam | Prediction Clue on the Fading Capacity of Multi-Walled Carbon Nanotube-Decorated $\text{Li}_2(\text{Fe}_{1-x}\text{Ti}_x)\text{SiO}_4/\text{C}$ High-Performance Cathode Materials | Energy and Fuels | 2021 | 35/9 | 8321–8333 | 0887-0624 |
| 9. | P.R.Deepthi, A.Sukhdev, P.Mohan Kumar, G.Chaithra, Malathi Challa, S.P.Prashanth, J.Shanthi | Crystal violet doped triglycine acetate crystal: a potential material for optoelectronic applications | Indian Journal of Physics | 2021 | 95 | 1-11 | 0973-1458 |

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|-----|---|--|--|------|---|-------------|-----------|
| 10. | G.Chaithra, P.R.Deepthi, Malathi Challa, Anu Sukhdev, P.Mohan Kumar, J.Shanthi | Optical and Thermal Properties of Acid Red Doped Triglycine Acetate Crystal for Optoelectronic Applications | Crystal Research and Technology | 2021 | https://doi.org/10.1002/crat.202100130 | | 1521-4079 |
| 11. | O.Seifunnisha, J.Shanthi | Influence of Aloe vera and PEG on the evaluation of Photocatalytic Degradation of MG dye under UV light and Visible light irradiation of ZnO nano materials | Optik | 2021 | 242 | 1-13 | 0030-4026 |
| 12. | O Seifunnisha, R Swathi, J Shanthi | Non-wettable antibacterial thin film: PS/Aloe vera and PS/ <i>Acalypha indica</i> | Polymers and Polymer Composites | 2021 | https://doi.org/10.1177/09673911211017869 | | 14782391 |
| 13. | G. Kiruthiga, T. Raguram, K. S. Rajni, P. Selvakumar & E. Nandhakumar | DSSCs: a facile and low-cost MgSnO ₃ -based transparent conductive oxides via nebulized spray pyrolysis technique | Journal of Materials Science: Materials in Electronics | 2021 | 32 | 22780–22791 | 0957-4522 |
| 14. | R.Swathi, J.Shanthi, K.K.Anoop | Super hydrophilic TEOS/PF-127 based antireflection coating for solar and optical applications | Optical Materials | 2021 | 118 | 111246 | 9253467 |
| 15. | Amanulla Baishnisha, Krishnan Divakaran, Vellaichamy Balakumar, Venkidusamy Sasirekha, Chandran Meenakshi, Ramaraj Sayee Kannan | In-situ synthesis of CN@La(OH) ₃ nanocomposite for improved the charge separation and enhanced the photocatalytic activity towards Cr(VI) reduction under visible light | Journal of Photochemistry and Photobiology | 2021 | 7 | 100048 | 1010-6030 |
| 16. | P Sivaraj, KP Abhilash, B Nalini, P Perumal, PC | Free-standing, high Li-ion conducting hybrid | Journal of Solid State | 2021 | 25 | 905–917 | 1432-8488 |

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|-----|---|--|-----------------------------------|------|------|-------------|------------|
| | Selvin - | PAN/PVdF/LiClO ₄ /Li _{0.5} La _{0.5} TiO ₃ nanocomposite solid polymer electrolytes for all-solid-state batteries | Electrochemistry | | | | |
| 17. | GG Soundarya, B Nalini, D Lakshmi, P Priyanka - | Structural rearrangement by Ni, Cr doping in zinc cobaltite and its influence on supercapacitance | Ceramics International | 2021 | 47 | 18635-18645 | 0272-8842 |
| 18. | R.Selvapriya, V.Sasirekha ,P.Vajeeston, J.M.Pearce, J.Mayandi | Reaction induced multifunctional TiO ₂ rod/particle nanostructured materials for screen printed dye sensitized solar cells | Ceramics international | 2021 | 47/6 | 8094-8104 | 0272-8842 |
| 19. | S.Anitha, S. Krishnan, K.Senthilkumar, V.Sasirekha | A Comparative investigation on the scavenging of 2, 2-diphenyl-1-picrylhydrazyl radical by the natural antioxidants (+) catechin and (-) epicatechin | Journal of Molecular Structure | 2021 | 1242 | 130805 | 222860 |
| 20. | C.R. Kalaiselvi , T.S. Senthil , M.V. Shankar , V. Sasirekha | Solvothermal fusion of Ag- and N-doped LiTaO ₃ perovskite nanospheres for improved photocatalytic hydrogen production | Applied Organo Metallic Chemistry | 2021 | 35/6 | e6207 | 1099-0739 |
| 21. | P. R. Deepthi , Anu Sukhdev, P. Mohan Kumar, J. Shanthi, B. C. Hemaraju | Growth and impedance analysis of pure TGAc and dye doped TGAc crystals-enhanced dielectric permittivity for energy-storage devices | SN Applied Sciences | 2020 | 2 | 1493 | 2523-3971 |
| 22. | D Lakshmi, B Nalini, S | Effects of bi-dopants Ni and Fe on | Journal of Physics D: | 2020 | 54 | 105503 | 0022-3727, |

| | | | | | | | |
|-----|--|---|--|------|-----|--------------------------|-----------|
| | Jayapandi, P Christopher Selvin | tin antimonide alloy anodes: physico and electrochemical studies | Applied Physics | | | | 1361-6463 |
| 23. | S Anitha, S Krishnan, K Senthilkumar, V Sasirekha | Theoretical investigation on the structure and antioxidant activity of (+) catechin and (-) epicatechin – a comparative study | Molecular Physics | 2020 | 118 | e1745917 (12 pages) 1-12 | 0026-8976 |
| 24. | R.Selvapriya, T.Abhijith, V.Ragavendran, V.Sasirekha, V.S.Reddy, J.Mayandi | Screen printed multifunctional TiO ₂ photoanode with plasmonic Ag nanoparticles for performance enhancement of dye sensitized solar cell | Materials Letter | 2020 | 276 | 128194 | 0167-577X |
| 25. | J.Shanthi, S.Aishwarya, R.Swathi | Fabrication of Roughness Enhanced Hydrophobic Coatings | Journal of Nano and Electronic Physics | 2020 | 12 | 02042 (4 Pages) | 2077-6772 |
| 26. | J.Shanthi, O.Seifunnisha | Aloe Vera Mediated Green Synthesis of ZnO Nanostructure under Sol-gel Method: Effect of Antimicrobial Activity | Journal of Nano and Electronic Physics | 2020 | 12 | 02041 (5Pages) | 2077-6772 |
| 27. | J.Shanthi, S.Aishwarya, R.Swathi | Enhanced optical & structural properties by potassium iodide doping on spin coated TiO ₂ thin films | Chemical Data Collection | 2020 | 29 | 100494 | 0973-1458 |
| 28. | PazhaniswamySivaraj, KaruthedathParameswaran Abhilash, Balakrishnan Nalini, Pandurangam Perumal, Kalimuthu Somasundaram, | Performance Enhancement of PVDF/LiClO ₄ Based Nanocomposite Solid Polymer Electrolytes via Incorporation of Li _{0.5} La _{0.5} TiO ₃ Nano Filler for All-Solid-State Batteries | Macromolecular Research | 2020 | 28 | 739–750 | 1598-5032 |

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|-----|---|--|--|------|-------|-------------|-----------|
| | Paneerselvam Christopher Selvin | | | | | | |
| 29. | D Lakshmi, S Jayapandi, B Nalini, P Christopher Selvin | Compound semiconducting SnSb alloy anodes for Li ion batteries: effect of elemental composition of Sn-Sb | Semiconductor Science and Technology | 2020 | 35 | 045008 | 0268-1242 |
| 30. | PazhaniswamySivaraj, KaruthedathParameswaran Abhilash, Balakrishnan Nalini, Paneerselvam Christopher Selvin, SunkulpGoel, Sudheer Kumar Yadav | Insight into cations substitution on structural and electrochemical properties of nanostructured $\text{Li}_2\text{FeSiO}_4/\text{C}$ cathodes | Journal of the American Ceramic Society | 2020 | 103 | 1685-1697 | 1551-2916 |
| 31. | D Lakshmi, B Nalini, S Jayapandi, P Christopher Selvin | Augmented conductivity in $\text{Li}_{3x}\text{La}_{2/3-x}\text{TiO}_3$ nanoparticles: all-solid-state Li-ion battery applications | Journal of Materials Science: Materials in Electronics | 2020 | 31 | 13432-1354 | 0957-4522 |
| 32. | R Selvapriya, J Mayandi, V Ragavendran, V Sasirekha, J Vinodhini, Joshua M Pearce | Dual morphology titanium dioxide for dye sensitized solar cells | Ceramics International | 2019 | 45 | 7268 - 7277 | 0272-8842 |
| 33. | P.R Deepthi, A. Sukhdev, P.M Kumar, J Shanthi, B.N Pavithra, B.C Hemaraju | Inclusion of an anionic dye in the molecular structure of potassiumdihydrogen phosphate crystal for SSDL applications | Indian Journal of Physics | 2019 | 92(9) | 1-10 | 2405-8300 |
| 34. | S.Aishwarya, J.Shanthi | Spin Coated Polymer Composite Hydrophobic Surfaces with Self-Cleaning Performance | Materials Research Express | 2019 | 6 | 076412 | 2053-1591 |

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|-----|---|--|---------------------------------|------|----------|-----------|--------------------------------------|
| 35. | J.Shanthi, S.Aishwarya, R.Swathi | Surface Energy Calculation using Hamaker's Constant for Polymer/Silane Hydrophobic Thin films | Materials Letters | 2019 | 231 | 409-411 | 0167-577X |
| 36. | KP Abhilash, P Christopher Selvin, B Nalini, Rajan Jose, Xia Hui, Hendry IzaacElim, MV Reddy | Correlation study on temperature dependent conductivity and line profile along the LLTO/LFP-C cross section for all solid-state Lithium-ion batteries | Solid State Ionics | 2019 | 341 | 115032 | 0167-2738 |
| 37. | P Sivaraj, KP Abhilash, B Nalini, P Balraju, Sudheer Kumar Yadav, S Jayapandi, P Christopher Selvin | Structure, dielectric, and temperature-dependent conductivity studies of the Li ₂ FeSiO ₄ /C nano cathode material for lithium-ion batteries | Ionics | 2019 | 25 | 2041-2056 | 0947-7047 (Print) 1862-0760 (Online) |
| 38. | P Sivaraj, KP Abhilash, P Christopher Selvin, B Nalini | Investigations on The Effect Of Sm ³⁺ Doping on The Electrochemical Performance of The Li ₂ FeSiO ₄ /C Nanocomposite Cathode Material for Lithium Ion Batteries | Materials Today: Proceedings | 2019 | 8 | 346-351 | 2214-7853 |
| 39. | J.Vinodhini,J.Mayandi,R. Atchudan,P.Jayabal, V.Sasirekha,J.M.Pearce | Effect of microwave power irradiation on TiO ₂ nano-structures and binder free paste screen printed dye sensitized solar cells. | Ceramics International | 2019 | 45 | 4667-4673 | 0263-4368 |
| 40. | P Sivaraj, B Nalini, KP Abhilash, D Lakshmi, PC Selvin, P Balraju | Study on the influences of calcination temperature on structure and its electrochemical performance of Li ₂ FeSiO ₄ /C nano cathode for Lithium Ion | Journal of Alloys and Compounds | 2018 | In press | 0030-4026 | 0925-8388 |

| | | | | | | | |
|-----|--|--|---|------|-------|-------------|-----------|
| | | Batteries | | | | | |
| 41. | K. P. Abhilash, P. Christopher Selvin, B. Nalini, HuiXia, Stefan Adams, and M. V. Reddy | Electrochemical Analysis of the Carbon-Encapsulated Lithium Iron Phosphate Nanochains and Their High-Temperature Conductivity Profiles | ACS Omega | 2018 | 3 | 6446–6455 | 2470-1343 |
| 42. | Illakkiya, J Tamil; Rajalakshmi, P Usha; Oommen, Rachel; | Synthesis and characterization of transparent conducting SWCNT/PEDOT: PSS composite films by spin coating technique. | Optik-International Journal for Light and Electron Optics | 2018 | 157 | 435-440 | 0030-4026 |
| 43. | P. Priyanka, B. Nalini, D. Lakshmi A. Chandra Bose | A Novel method for generating tricolor emission for white LED application. | Journal of Material Science : Materials in Electronics | 2018 | 29 | 12288–12299 | 0957-4522 |
| 44. | P.R. Deepthi, AnuSukhdeva, P. Mohan Kumara, V. Jagadeesha Angadia, U. Mahaboob, J. Shanthi | Structural, FTIR and Ferro electric analysis of Pure TGS and L-Cysteine doped TGS crystals for Infrared device applications. | Chemical Data Collections | 2018 | 17-18 | 276-286 | 2405-8300 |
| 45. | N. S. Rajeswari, C. Nivetha and M. Balasubramaniam | Nuclear surface energy coefficients in cluster decay | The European Physical Journal A | 2018 | 54/9 | 156 | 1434-601X |
| 46. | D Lakshmi, B Nalini | Performance of SnSb: Ce, Co alloy as anode for lithium-ion batteries | Journal of Solid State Electrochemistry | 2017 | 21 | 1027-1034 | 1432-8488 |
| 47. | KP Abhilash, P Christopher Selvin, B Nalini, Rajan Jose, R | Investigations on the influence of Sm ³⁺ ion on the nano TiO ₂ matrix as the anode material for lithium | Journal of Alloys and Compounds | 2017 | 710 | 205-215 | 0925-8388 |

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|-----|--|---|---|------|-----|-----------------|-----------|
| | Vijayaraghavan, BVR Chowdari, S Adams, MV Reddy | ion batteries | | | | | |
| 48. | D Lakshmi, B Nalini, P Sivaraj, S Jayapandi | Electro analytical studies on indium incorporated SnSb alloy anode for Li-ion batteries | Journal of Electroanalytical Chemistry | 2017 | 801 | 459-465 | 1572-6657 |
| 49. | Ramakrishnan V, Sangeetha P, Sasirekha V, Ragavendran V, JeyanthinathMayandi, Joshua Pearce, Josefine Helene Selj | Micro-Raman Scattering of Nanoscale Silicon in Amorphous and Porous Silicon | International journal of research in physical chemistry and chemical physics | 2017 | 231 | 1585 | 2196-7156 |
| 50. | S Sugi, P.Usha Rajalakshmi, J Shanthi | Photocatalytic Degradation efficiency of Cu X Zn 1-X O Composite | Optik-International Journal for Light and Electron Optics | 2017 | 131 | 406-413 | 0030-4026 |
| 51. | Tamil Illakkiya, P Usha Rajalakshmi, Rachel Oommen | Nanoarchitected Semiconducting Photoelectrodes for Enhanced Stability and Photon Conversion Efficiency | Carbon | 2017 | 111 | 713-721 | 0008-6223 |
| 52. | Tamil Illakkiya, P Usha Rajalakshmi, Rachel Oommen | Nebulized spray pyrolysis: a new method for synthesis of graphene film and their characteristics | Surface and Coatings Technology | 2016 | 307 | 65-72 | 1879-3347 |
| 53. | P.R.Deepthi, J.Shanthi | Optical, dielectric & ferroelectric studies on amino acids doped TGS single crystals | RSC Advances | 2016 | 6 | 33686– 33694 | 2046-2069 |
| 54. | K.P.Abhilash, P.C.Selvin, B.Nalini, | Study of temperature dependant transport properties in | Journal of Physics and Chemistry of | 2016 | 91 | 114-121 | 0022-3697 |

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|-----|---|--|--|------|-----|-----------|-----------|
| | K.Somasundaram, P.Sivaraj, A.Chandra Bose | nanocrystalline lithium lanthanum titanate for lithium ion batteries | Solids | | | | |
| 55. | P Nithyadharseni, MV Reddy, B Nalini, P Saravanan, VTP Vinod, MiroslavČerník, BVR Chowdari | Spark plasma-sintered Sn-based intermetallic alloys and their Li-storage studies | Journal of Solid State Electrochemistry | 2016 | 20 | 1743-1751 | 1432-8488 |
| 56. | Jayaraj Tamil Illakkiya , Parthasarathy UshaRajalakshmi , Sampath Hemalatha , Rachel Oommen | Nanostructured zinc oxide thinfilms by spin coating technique | Emerging Materials Research | 2016 | 5 | 57-61 | 2046-0147 |
| 57. | TamilIllakkiya Jayaraj,Usha Rajalakshmi, Parthasarathy, RachelOommenn | Enhanced optoelectronic and photoelectrochemical characteristics of nebulisedspraypyrolysed 'Cu' rich CuInS2 thin film | Material Science in Semiconductor Processing | 2016 | 49 | 84-91 | 1369-8001 |
| 58. | K Prabu, B Nalini, B Suresh, M Sekar | Analysis of tribological properties of lubricating gear oil with nano silica particles | Journal of Achievements in Materials and Manufacturing Engineering | 2016 | 79 | 59-65 | 1734-8412 |
| 59. | V.Sheela rani Dr.J.Shanthi | Thermal and Optical studies of NLO active single crystal: Nicotinic L-tartaric | Optik-International Journal for Light and Electron Optics | 2016 | 127 | 2946-2949 | 0030-4026 |
| 60. | S Rani, J Shanthi, M Kashif, A Ayeshamariam, M | Studies on different doped Zn concentrations of CdSe Thin Films | Journal of Powder Metallurgy and Mining | 2016 | 5 | 07-Jan | 2168-9806 |

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|-----|--|---|---|------|-----|-------------|-------------|
| | Jayachandran | | | | | | |
| 61. | P. Jayabal, V. Sasirekha, J. Mayandi, V. Ramakrishnan | Synthesis and characterization of TiO ₂ nanoparticles for dye sensitized solar cell applications | International Journal of Physics | 2015 | 1 | 001-010 | 2333-4568 |
| 62. | K.P.Abilash, P.Sivaraj, P.C.Selvin, B.Nalini, K.Somasundaram | Investigation on spin coated LLTO thin film nano-electrolytes for rechargeable lithium ion batteries | Ceramics International | 2015 | 41 | 13823–13829 | 0272-8842 |
| 63. | K Kandaswamy, PC Selvin, B Nalini, IM Abdulla, KP Abhilash, | Synthesis and characterization of thermally evaporated (Bi,Sb) ₂ S ₃ thin films | Journal of Optoelectronics and Advanced Materials | 2015 | 17 | 145 – 150 | 1454 – 4164 |
| 64. | P.Nithyadharseni, M.V.Reddy, B.Nalini, B.V.R.Chowdari | Electrochemical investigation of SnSb nano particles for lithium-ion batteries | Materials Letters | 2015 | 150 | 24 – 27 | 0167-577X |
| 65. | Lakshmi.D, B.Nalini | Analysis of conventional and microwave synthesized tin antimony nano particles | Journal of Chemical and Pharmaceutical Sciences JCHPS | 2015 | 11 | 99-101 | 0974-2115 |
| 66. | P.Nithyadharseni, M.V.Reddy, B.Nalini, T.R.Ravindran, B.C.PillaiM.Kalpana and B.V.R.Chowdari | Electrochemical Studies of CNT/Si-SnSb Nanoparticles for Lithium Ion Batteries | Materials Research Bulletin | 2015 | 70 | 478-485 | 0025-5408 |
| 67. | HemalathaSampath, Tamil Illakkiya Jayaraj, Rachel Oommen, UshaRajalakshmi Parthasarathy | Preparation and characterization of ZnIn ₂ S ₄ thin film | Emerging Materials Research | 2015 | 4 | 286-289 | 2046-0147 |

| | | | | | | | |
|-----|--|---|--|------|-----|---------------|-------------|
| 68. | PeulaKumariPonnaian, Rachel Oommen, SenthilKumaranChinnaKa nnaiyan,SanthanamJayach andran, Muthukumarasamy Natarajan, AgilanSanthanam | Synthesis and Characterization of Silver Nanoparticles for Biological (not in scopuis and web) | J. Environ. Nanotechnol | 2015 | 4 | 23-26 | 2279-0748 |
| 69. | N. S. Rajeswari, S. R. Vijayalakshmi and T. Dhanam | Environmental Aware RF Based Home Automation System | ISOI Journal (Instrumentation Society of India Journal) | 2015 | 45 | 186 | 0970-9983 |
| 70. | HemalathaSampath, Tamil IllakkiyaJayaraj, Rachel Oommen,UshaRajalakshm iParthasarathy | Marigold microstructure of zinc thioindate (ZnIn ₂ S ₄) thinfilm- characteristics | Optik | 2015 | 127 | 3858- 3861 | 0030-4026 |
| 71. | P.Nithyadharseni, M.V.Reddy, B.Nalini, M.Kalpana and B.V.R.Chowdari | Sn based Intermetallic Alloy Anode Materials for the application of Lithium Ion batteries | ElectrochimicaActa | 2015 | 161 | 261-268 | 0013-4686 |
| 72. | P.JayabalS.Gayathri,V.Sas irekha , J.Mayandi, V.Ramakrishnan | Effect of electronic-insulating oxides overlayer on the performance of zinc oxide based dye sensitized solar cells | Journal of Photochemistry and Photobiology A: Chemistry | 2015 | 305 | 37-44 | 1010-6030 |
| 73. | M.Ramya, M.Sylviasubapriya and B.Nalini | Study on nanocoated PET bottles of tomato puree against Enteropathogenic bacteria | Integrated Food Nutrition and Metabolism | 2015 | 2 | 171-173 | 2056 – 8339 |
| 74. | Dr.J.Shanthi. Rani.S | Review on the materials properties | Materials Science | 2015 | 832 | 001-27 | 1662-9752 |

| | | | | | | | |
|-----|---|---|--|------|-------|---------------|-----------|
| | | and photoelectrochemical (PEC) solar cells of CdSe, Cd _{1-x} Zn _x Se, Cd _{1-x} In _x Se, thin films | Forum | | | | |
| 75. | S. Rani, J. Shanthi, S. ThankaRajan, A. Ayeshamariam, M. Jayachandran | Studies on the influence of In and Zn doping on the CdSe based photo electro chemical (PEC) solar cells using electron beam evaporation technique | Materials Science Forum | 2015 | 832 | 84-93 | 1662-9752 |
| 76. | Tamil Illakkiya, J., Usha Rajalakshmi P, Oommen R. | Characteristics of nanostructured CuInS ₂ thin film by spray pyrolysis method | International Journal of ChemTech Research | 2015 | 7(2), | 1032-1037 | 0974-4290 |
| 77. | Hemalatha S. Tamil Illakkiya, J., Oommen, R., Usha Rajalakshmi, P. | Characterization of ZnIn ₂ S ₄ and in rich-ZnIn ₂ S ₄ films by spray pyrolysis method | International Journal of ChemTech Research | 2015 | 7(2), | pp. 1038-1044 | 0974-4290 |

| Publications 2015 -2020 : Department of Physics | | | | |
|---|--------------|---------------|------------|-----------------|
| (Dr.) | Total | scopus | WOS | UGC CARE |
| RO | 10 | 8 | 6 | - |
| JS | 14 | 13 | 7 | - |
| NSR | 2 | 1 | 1 | (doubt) |
| VSR | 7 | 5 | 5 | - |
| BN | 29 | 29 | 24 | - |
| Grand Total | 57 | 49 | 39 | |