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List of Publication

2015

1. P. K. Manigandan and **B.Chandar Shekar**, Leaves of woody plants as bio-indicators of radionuclides in forest ecosystems, ***Journal of Radioanalytical and Nuclear Chemistry***, (2015) 303 (1), 911-917.
2. V. Vadivelan and **B. Chandar Shekar**, Recording of Holographic Solar Concentrator in Ultra Fine Grain Visible Wavelength Sensitive Silver Halide Emulsion - Recording of Visible wavelenght Concentrating Hologram, ***American Journal of Electronics & Communication,*** Vol II (1) 2015, 15-17.
3. **Chandar Shekar, B**., S. Sathish, Sulana Sundari, S.Sunnitha and C. Sharmila. Preparation of mesoscopic structure poly methyl methacrylate thin films for AFM data storage devices, ***Kong. Res. J***. 2(1) (2015) 1-3.
4. **Chandar Shekar, B**., R. Sengodan, S. Sathish and Sulana Sundari, Structural studies of ferroelectric $BaTiO_3$ nano particles and vacuum evaporated $BaTiO_3$ nano scale thin films, ***Kong. Res. J***. 2(1) (2015) 4-6.
5. **Chandar Shekar, B[1]***, Sulana Sundari[2], S. Sunnitha[2] and C. Sharmila[3], Preparation and characterization poly (vinylidene fluoride-trifluoroethylene) copolymer thin films for organic ferroelectric field effect thin film transistors, ***Kong. Res. J***. 2(1) (2015).
6. Senthil Kumaran C K, Sugapriya S, Dhayalan Velauthapillai, R. Ranjithkumar and **Chandarshekar Bellan**, Influence of Dietary Selenium Nanowires on Growth Performance of Broiler Chicken, ***Int. J. Biosci. Nanosci***, 2(4), 2015, 78-83.
7. Vadivelan V and **Chandar Shekar B**, Fabrication of 2-Dimensional Metallic Hexagonal Photonic Crystals by Holographic Technique, ***Int. J. Biosci. Nanosci***, 2(4), 2015, 89-91.
8. S. Sathish, **B. Chandar Shekar**, D. Dinesh, R Sengodan, K.P.B Dinesh, R. Ranjithkumar. Novel hybrid PVA-InZnO transparent thin films and sandwich capacitor structure by dip coating method: Preparation and characterizations. ***RSC Adv***., 2015, 5, 10599-10610.

9. S. Sathish, **B. Chandar Shekar**, S. Chandru Kannan, R. Sengodan, K. P. B. Dinesh & R. Ranjithkumar. Wide Band Gap Transparent Polyer-Inorganic Composite Thin Films by Dip Coating Method: Preparation and Characterizations. ***International Journal of Polymer Analysis and Characterization***, 2015, 20(1), 29-41.
10. S. Sathish, **B. Chandar Shekar** and N. Manivannan, Preparation and characterization of nanocomposite PVA-Al2O3 thin films by dip coating method, ***Iranian Polymer Journal***, 2015, 24, 63-74.
11. S. Sathish, **B. Chandar Shekar**, R Sengodan, K.P.B Dinesh and R. Ranjithkumar, New Transparent PVA-InTiO hybrid thin films: Influence of InTiO on the structure, morphology, optical and dielectric properties, ***Polymers for Advanced Technologies*** (2015),DOI: 10.1002/pat.3568. (Available online).
12. Rajmohan, D, D. Saranya, K. Logankumar, R. Ranjithkumar and **B. Chandrashekar**. Biomimetic Synthesis and Characterization of Silver Nanoparticles (AgNPs) Using *Vinca rosea* Aqueous Extract. ***Kong. Res. J***. 2(2): 1-5, 2015.
13. Ranjithkumar, R., **B. Chandar Shekar**, C.K. Senthil Kumaran, C. Sharmila and V. Simi. Green synthesis of silver nanoparticles using graviola leaf aqueous extract at room temperature. ***Kong. Res. J***. 2(2): 6-10, 2015.
14. Gayathri, S. and **B. Chandar Shekar**, Characterization of Lanthanum Aluminate Nanoparticles Prepared By Sol-Gel Route. ***Kong. Res. J.*** 2(2): 11-12, 2015.
15. Sugapriya, S., S. Lakshmi, C. K. Senthil kumaran, **B. Chandarshekar** and R. Ranjithkumar, ZnO needle-like structures: synthesis and characterization, ***Kong. Res. J***. 2(2): 13-15, 2015.
16. Rajmohan. D, Saranya. D, Logankumar. K, Ranjithkumar. R and **B. Chandrashekar**, Silver Nanoparticles against dengue vector, *Aedes Aegypti* (Culicidae: Diptera), ***Int. J. Nanosci. Biosci.*** 2 (5), 2015, 118-122.
17. P. Sagadevan, S.N. Suresh, R. Ranjithkumar, S. Rathishkumar, S. Sathish and **B. Chandarshekar**, Traditional use of *Andrographis paniculata:* Review and Perspectives. ***Int. J. Nanosci. Biosci***. 2 (5), 2015, 123-131.
18. P.K. Manigandan and **Chandar Shekar, B**. Risk assessment of radioactivity in soils of forest and grassland ecosystems of the Western Ghats, India, ***Radioprotection*** DOI: 10.1051/radiopro/2015015. (2015).
19. Gayathri. S and **Chandar Shekar. B**, Synthesis and Characterization of Lanthanum Aluminate Nanoparticles Prepared By Simple Sol-Gel Route. ***Int. J. Biosci and Nanosci***, 2(6), (2015), 147-150.

20. Sathish Sugumaran, Mohd Noor Bin Ahmad, Mohd Faizal Jamlos, **Chandar Shekar Bellan**, Sagadevan Pattiyappan, Ranjithkumar Rajamani and Rathish Kumar Sivaraman. Transparent with wide band gap InZnO nano thin film: Preparation and characterizations. ***Optical Materials***, 49: (2015), 348-356.
21. Senthil Kumaran C. K, Sugapriya S., Manivannan N and **Chandar Shekar B**., Effect on the growth performance of broiler chickens by selenium nanoparticles supplementation ***NANO VISION***, .5(4-6), 161-168, 2015.
22. Sugapriya S. Lakshmi S. Senthil Kumaran C. K. Manivannan N. and **Chandar Shekar B**., Structural and Electrical Properties of ZnO Flower-Like Structures, ***NANO VISION***, 5(4-6), (2015) 83-88.
23. Sugapriya S. Lakshmi S., Senthil Kumaran C. K. Manivannan N. and **Chandar Shekar B**., Phase Change on TiO_2 Nanoparticles by Annealing, ***NANO VISION***, 5(4-6) (2015) 121-126.

2016

24. Sengodan. R and **Chandar Shekar. B**, Dinesh Bheeman and Ranjithkumar. R, (2015) Structural and Optical Properties of Vacuum Evaporated V_2O_5 Thin Films. ***Optik - International Journal for Light and Electron Optics***., 127(1), (2016), 461-464.
25. Rajmohan Devadass, Haldurai Lingaraj, Ranjithkumar Rajamani, Logankumar Kandasamy and **Chandarshekar Bellan**, Data mining on crude, partially purified and doped silver nanoparticles of two plant species against dengue vector, *Aedes aegypti*. ***Journal of Biology and Nature*, 5(1), (2016) 20-25.**
26. Gayathri S., R. Ranjithkumar, A.S. Balaganesh and **B. Chandar Shekar**, Antibacterial properties of lanthanum aluminate nanoparticles, ***Kong. Res. J***. 3 (1)(2016)1-5.
27. Rajmohan, D, R. Ranjithkumar, K. Logankumar, P. Sagadevan, **B. Chandrashekar** and R. Yamuna, Green route synthesized silver nanoparticles as potential antibacterial material, ***Kong. Res. J*.** 3 (1) (2016) 73-75.
28. Sengodan Raja, **Chandar Shekar Bellan**, Senthilarasu Sundaram, Gopal subramani and Ranjithkumar Rajamani, Thickness dependence on Structural, Dielectric and AC Conduction Studies of Vacuum Evaporated Sr doped $BaTiO_3$ thin films. ***Optik***. 127 (6), (2016), 3200-3205.
29. Sathish Sugumaran, Mohd Noor Bin Ahmad, MohdFaizalJamlos, **Chandar Shekar Bellan**, SharmilaChandran and Manoj Sivaraj, New Possibility on InZnO Nano Thin Film for Green Emissive Optoelectronic Devices, ***Optical Materials***, 54 (2016) 67-73.

30. Sathish Sugumaran, Mohd Noor Bin Ahmad, Mohd Faizal Jamlos, **Chandar Shekar Bellan** Thickness and annealing effects on thermally evaporated In ZnO thin films for gas sensors and blue, green and yellow emissive optical devices, ***Optical Materials***, 58(2016) 342-352.
31. R. Sengodan, **B. Chandar Shekar**, Characterization of thermal evaporated $BaTiO_3$ thin films***, Kong. Res. J***. 3(2) (2016)14-16.
32. Vadivelan V and **Chandar Shekar B**., Fabrication of 2-Dimensional Photonic Quasi Crystals with 18- and 36 - Fold by Holography for Solar Application, ***IET Optoelectronic***, 10(6) (2016) 217-220.
33. Vadivelan V and **Chandar Shekar B**., Fabrication of Phase Transmission Holographic Optical Element in Polycarbonate and its Characterization, ***Applied Optics***,23(2016) 6452-7.
34. Sharmila Chandran, Vinuppriya Ravichandran, Selvi Chandran, Jincy Chemmanda, **Bellan Chandarshekar**, Biosynthesis of PVA encapsulated silver nanoparticles, *Journal of* ***Applied Research and Technology***, 14(5)(2016)319-324
35. S. Raja, D Bheeman, R Rajamani, **CS Bellan**, Structural and optical properties of vacuum evaporated V_2O_5 thin films, ***Optik***, 127(2016) 461-464.
36. Sharmila Chandran, Vinuppriya Ravichandran, Selvi Chandran, Jincy Chemmanda, **Bellan Chandarshekar**, Biosynthesis of PVA encapsulated silver nanoparticles, *Journal of* ***Applied Research and Technology***, 14(5)(2016)319-324.

2017

37. Manivannan N., Chandar Shekar B., Senthil Kumaran C.K., Sathyamoorthy R. Effect of Gd doping on structural, surface and optical properties of ZnS prepared by Chemical precipitation method, ***Optik***, 136 (2017) 259-264.
38. J. Manikantan, H.B. Ramalingam, **B. Chandar Shekar**, B. Murugan, R. Ranjith Kumar, J. Sai Santhoshi, Wide band gap of Strontium doped Hafnium oxide nanoparticles for optoelectronic device applications – Synthesis and characterization, ***Materials Letters***, 186 (2017) 42-44.
39. J..Manikantan, H.B.Ramalingam, **B.Chandar Shekar**, B.Murugan, R.Ranjith Kumar, J.Sai Santhoshi, Structural and Optical Properties of Phase Transformation Barium doped HfO_2 nanorods –Synthesis and Characterization, ***Optik***, 410C (2017) 347-355.
40. J. Manikantan, H.B. Ramalingam, B. Chandar Shekar, B. Murugan, R. Ranjith Kumar, J. Sai Santhoshi, Physical and Optical properties of HfO_2 NPs – Synthesis and characterization

in finding its feasibility in opto-electronic devices, ***Advanced Powder Technology***, 28(7)(2017) 1636-1646.

41. P.K. Manigandan, and **B. Chandar Shekar**, Soil impact and radiation dose to native plants in forest ecosystem, **Agroforest Systems**, 1-7 DOI: 10.1007/s10457-016-0058-1 (2017).
42. P.K. Manigandan, and **B. Chandar Shekar**, Soil depth profiles and radiological assessment of natural radionuclides in forest ecosystem**,** ***Radiochimica Acta***. 105 (6), **DOI:** https://doi.org/10.1515/ract-2016-2662 (2017)
43. Sathish Sugumaran, **Chandar Shekar Bellan** , Dinesh Bheeman, Thermally evaporated InZnO transparent thin films: Optical, electrical and photoconductivity behavior, ***Optical materials,*** 72 (2017) 618 -625.
44. Senthilkumar, R.P, Bhuvaneshwari V, Ranjithkumar R, Sathiyavimal S, Malayaman V, Chandarshekar B, Synthesis, characterization and antibacterial activity of hybrid chitosan-cerium oxide nanoparticles- as a bionanomaterials**,** ***Int. J. Biological Macromolecules***, 104(Pt B):1746-1752. doi: 10.1016/j.ijbiomac.2017.03.139. Epub 2017.
45. Balaganesh, A.S. and **B. Chandar Shekar**, Structural analysis of Zinc Oxide thin films prepared by thermal evaporation technique, ***Kong.Res.J***. 4(3)(2017) 7-9.
46. K. Tharshanapriya, P. Sagadevan, K. Jayaramjayaraj, V. Bhuvaneshwari, S.N.Suresh, J. Pavithra , S.Sarah , **B. Chandar Shekar** and B.Ranjith Kumar, Health hazards of pulp and paper industrials workers, ***Indo American Journal of Pharmaceutical Research***, 7(7) (2017)157-163.
47. B. Murugan, H.B. Ramalingam, **B. Chandar Shekar** J. Manikantan R. Ranjith Kumar and J. Sai Santhoshi, Facile Synthesis of Hafnium Carbide Nanoparticles and Its Optical Studies for Application in Optoelectronic Devices, ***International Journal of Control Theory and Applications*** 10(30) (2017) 49-55.
48. R. Sengodan , **B. Chandar Shekar***, R. Balamurugan , R. Kannan , R. Ranjithkumar Temperature dependence of optical properties on $BaTiO_3$ thin films for optoelectronics applications, ***Journal of Opto-electronics and Advanced Materials*** (JOAM), 19(9-10) (2017) 595 -603.
49. Balaganesh, A.S. and **B. Chandar Shekar**, Synthesis, characterization and plant growth assessment of hybrid calcium oxide nanoparticles, ***Int J Pharma Bio Sci***, 8(4): (B)(2017) 193-198.
50. Pattiyappan Sagadevan, Suresh Natarajan, Ranjithkumar, **Chandar bellan** and Rathishkumar, Evaluation of c. albicans induced wound healing activity of methanolic leaf extract of

andrographis paniculata, ***Indo American Journal of Pharmaceutical Research,*** 7(2017) 7483 -7493.

2018

51. Sathish Sugumaran, Mohd Faizal Jamlos, Mohd Noor Ahmad, **Chandar Shekar Bellan**, Dominique Schreurs, Plasmonic nano-biosensors for early cancer detection: a past and future prospects- a review, ***Biosensors and Bioelectronics***, 100(2018) 361-373
52. R.Sengodan, R. Ranjit Kumar, K. Selvam, **B. Chandar Shekar**, Antibacterial Activity of Silver Nanoparticles Coated Intravascular Catheters (AgNPs-IVC) **)** against biofilm producing pathogens, ***Rasayan Journal of Chemistry***, DOI: 10.7324/RJC.2018.1111934 11 (1) (2018) 63-68.
53. Dhivyavarshni R, Sagadevan P, Jayaram Jayaraj K, **Chandar Shekar B**, Ranjth Kumar R, and Rathish Kumar,S., Studies on phytochemical screening,Antibacterial potential and Hemostatic activity of Tridax procumbens, ***Drug Discovery***, 12(2018)1-6.
54. Surthi P , Sagadevan P , Jayaram Jayaraj K , **Chandar Shekar B** , Ranjth Kumar R and Rathish Kumar,S., In vitro antioxidant potential of methanol flower extracts of Cassia auriculata Linn, ***Discovery Biotechnology***, 8 (2018) 1-8.
55. Sathish Sugumaran , Dinesh Muthu, **Chandar Shekar Bellan***, Dinesh Bheeman and Sharmila Chandran**,** Hybrid PVA-In2O3 Nano Thin Film for Transparent Optical Devices, ***International Journal of Advance Engineering and Research Development,*** 4(6) (2017)1-9.
56. Sharmila Chandran**,** Ranjithkumar Rajamani and **Chandar Shekar Bellan** , Psidium guajava: a novel plant in the synthesis of silver nanoparticles for biomedical applications, ***Asian J Pharm Clin Res,*** 11(1)(2018) 341-345**.**
57. **Chandar Shekar, B**., R. Ranjit Kumar, K.P.B. Dinesh, C. Sulana Sundari and K. Punithavathi, Preparation of poly (methyl methacrylate) thin films by spin coating technique for OTFT and wound healing applications, ***Kong. Res. J***., 5(1): 20-22, 2018
58. Ranjith Kumar Rajamani, Selvam Kuppusamy, **Chandar Shekar Bellan**, Pratheep Hallan Ravi, P Sagadevan, Biosynthesis, characterization and remedical aspect of silver nanoparticles against pathogenic bacteria, ***MOJ Toxicology,*** 4(3) (2018) 103-109.
59. **Chandar Shekar, B.,** R. Ranjit Kumar, K.P.B. Dinesh, C. Sulana Sundari, S. Sunnitha and K. Punithavathi, Preparation and characterization of polyvinyl alcohol thin films for organic thin film transistors and biomedical applications, ***Kong. Res. J.***5(2)(2018) 16-18.

60. Sharmila Chandran**,** Jincy Chemmanda Sunny, Selvi Chandran, **Chandra Shekar Bellan**, Enhanced Antimicrobial activity of Aleovera blended Zinc oxide Nanoparticle in PVA matrix, ***Materials Today : Proceedings***, 5 (2018) 16190–16198**.**

61. Sathish Sugumarana, **Chandar Shekar Bellan**, Nataraj Devaraj, Novel mixed cubic-rutile structured In_2O_3-TiO_2 composite nanoparticles (InTiO CNPs): Structure, morphology, photoluminescence and photocatalytic activity, ***Optik***, 174 (2018) 15-26.

62. J. Manikandan, H.B. Ramalingam, **B. Chandar Shekar**, Investigations of the impact of Calcinations Temperature on the Properties of Ba Doped HfO_2 Nano-rods, ***Modern Electronic Technology***, 2(2) (2018) 35-40.

63. Dr.N.Manivannan, **Dr.B.Chandar Shekar**, Dr.Matheswaran, Dr.C.K.Senthilkumaran, Structural and optical studies of confined ZnS nanoparticles synthesized by chemical precipitation method, ***International Journal of Innovative Research in Engineering & Multidisciplinary Physical Sciences (IJIRMPS)***, 6(6)(2018) 44-50.

64. N. Mannivannan, **B. Chandar Shekar** and C.K.Senthilkumaran, **Anticancer activity of Co doped ZnS nanoparticles synthesized by chemical method, IJAPSA, 04(11) (2018) 1-8,** DOI:10.22623/IJAPSA.2018.4041.ERRPS .

2019

65. Sharmila C, Prabhavathi V, Dinesh M, Ranjith Kumar R and **Chandar Shekar B,** Shape controlled synthesis of dextran sulfate stabilized silver nanoparticles: biocompatibility and anticancer activity, **Mater. Res. Express,** 6 (2019) 045066.

66. Sathish Sugumaran and **Chandar Shekar Bellan**, A novel InTiO thin film by thermal evaporation technique for high mobility/conductivity with tunable visible emissions, **Optik,** 185 (2019) 997-1008. https://doi.org/10.1016/j.ijleo.2019.04.036.

67. Devaraj Bharathi, R.Ranjithkumar, S.Vasantharaj, **B.Chandarshekar**, V.Bhuvaneshwari Synthesis and characterization of chitosan/iron oxide nanocomposite for biomedical applications, **International Journal of Biological Macromolecules**, 132 (2019) 880-887 https://doi.org/10.1016/j.ijbiomac.2019.03.233.

68. Devaraj Bharathi, R.Ranjithkumar, **B.Chandarshekar** and V.Bhuvaneshwari, Preparation of chitosan coated zinc oxide nanocomposite for enhanced antibacterial and photocatalytic activity: As a bionanocomposite, **International Journal of Biological Macromolecules,**129 (2019) 989 -996. https://doi.org/10.1016/j.ijbiomac.2019.02.061

69. Dinesh, B., R. Ranjithkumar, C. Sharmila, K. Selvam and **B. Chandar Shekar**, ANTICANCER ACTIVITY OF SILVER NANOPARTICLES AGAINST HUMAN BREAST CANCER CELL LINE, **Kong. Res. J.** 6(1) (2019) 24-28.
70. Vidhya, P., A. Ranjitha, A.S. Balaganesh, R. RanjitKumar and **B. Chandar Shekar** , Structural and optical properties of cadmium sulfide nanoparticles prepared by precipitation method , **Kong. Res. J**. 6(1) (2019) 22-23.
71. S. Nithya, **B. Chandar Shekar**, K.R. Aranganayagam, K. Boopathi, Hirshfeld Surface and Natural Bond Orbital Analysis of 2-Amino-6-Methylpyridinium Hydrogen Glutarate, **International journal of Research in Engineering Application and Management (IJREAM)**, 5(3) (2019) 319 – 324.
72. Ranjith Kumar, R., J. Manikantan, A.S. Balaganesh, K.P.B. Dinesh and **B. Chandar Shekar,** Fruit biowaste mediated green route approach silver nanopartilces -as antibacterial material, **Kong. Res. J.** 6(2): (2019) 81-86.
73. Balaganesh, A.S., N Pavithra, R. RanjitKumar, K.P.B. Dinesh and **B. Chandar Shekar**, Bio-assisted synthesis of potassium doped ferric sulphide nanoparticles for agricultural applications, **Kong. Res. J**. 6(2): (2019) 4-7.
74. S.Nithya, K.R. Aranganayagam, **B. Chandar Shekar**, K. Boopathi, Growth, characterization and dft calculations on 2-amino-6-methylpyridinium hydrogen glutarate, ***Rasayan Journal of Chemistry,*** 12(3) 2019 (Accepted for publication)
75. Muthu Priya, Jagdev Singh, Ravindra H and **Chandar Shekar B**., Periodic and quasi periodic variations in Ca-K index during the 20th century using Kodaikanal data, **Solar Physics**, 2019, 294:131.
76. Devaraj Bharathi , R. Ranjithkumar , **B. Chandarshekar** , V. Bhuvaneshwari , Bio-inspired synthesis of chitosan/copper oxide nanocomposite using rutin and their anti-proliferative activity in human lung cancer cells, **International Journal of Biological Macromolecules,** 141(2019) 476-483.
77. R. P. Senthilkumar, V. Bhuvaneshwari, V. Malayaman, G. Chitra, R. Ranjith, K.P.B. Dinesh, **B**. **Chandar Shekar**, Biogenic method of cerium oxide nanoparticles synthesis using wireweed (Sida acuta Burm.f.) and its antibacterial activity against Escherichia coli", **Materials Research Express**, 6 (2019) 105026.

2020

78. N. Manivannan , **B. Chandar Shekar,** C.K.Senthil Kumaran and S.Sugapriya, Structural, Morphological, Opto-luminescence and magnetic behavioral variations of Co-ZnS hybrid nanoparticles, **Indian Journal of Physics,** 94, 919–925 (2020)

79 **N.** Pavithra, M. Shiva Subramani, A.S. Balaganesh, R. RanjitKumar, K.P.B. Dinesh and **B. Chandar Shekar .** Bio-assisted synthesis of ferric sulphide nanoparticles for agricultural applications, **Kong. Res. J.,** 7(1): 35-38, 2020

80. S. Nithya , **B. Chandar Shekar** , K.R. Aranganayagam, and K. Boopathi, Influence of Classical N-H...O and C-H...O Hydrogen Bonding Interactions on 2-amino5-methylpyridinium Hydrogen Succinate Crystal: Experimental and Theoretical Perspectives**,** **Materials Research Express**, 6 (12) 2020**. https://doi.org/10.1088/2053-1591/ab5ff1.**

81. R. Sengodan and B. Chandar Shekar, Optical properties of strontium doped BaTiO3 thin films by thermal evaporation method for optoelectronic devices, **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS**, 22 (5-6) (2020) 280 – 285.

82. Sharmila Chandran, Thilagavathy Ponnusamy, Dinesh Bheeman, Ranjith Kumar Rajamani, **Chandar Shekar Bellan**, Dextran sulfate stabilized silver nanoparticle: next generation efficient therapy for cancer, **International Journal of Applied Pharmaceutics**, 12(1), (2020), 59-63.

83. H.R. Pratheep, V. Vadivelan and **B. Chandar Shekar**, Literature survey of holographic interferometry, **International Journal of Scientific & Engineering Research**, 11(9)(2020) 826.

84. N.Manivannan, **B.Chandar Shekar**, P.Matheswaran, M.Mohammed Ibrahim, C.K.Senthil Kumaran, Induced ferromagnetic behavior of Cr doped ZnS nano particles**, Materials today Preceedings**,, https://doi.org/10.1016/j.matpr.2020.07.185.

85. N. Kamatchi Devi and **B. Chandar Shekar,,** Preparation and characterization of anatase phase TiO_2 nanoparticles at low temperature**, International Journal of Advances in Engineering and Management (IJAEM)**, 2(1)(2020)254-259.

86. A.S.Balaganesh, , N. Pavithra 1, R. Ranjith Kumar K.P.B. Dinesh and **B. Chandar Shekar**, Synthesis of potassium doped ferric sulphide nanoparticles using bio-assisted method for agricultural applications, **Kong. Res. J**. 7(2): 22-25, 2020.