

CENTRE FOR NANO SCIENCE & TECHNOLOGY

College of Engineering & Technology

SRINIVAS UNIVERSITY

Srinivas Nagar, Mukka, Mangalore – 574146

www.srinivasuniversity.ac.in

nanosrinivasuniversity@gmail.com

Vision:

To become a pioneer and a world class centre of excellence in academics and research in Nano Science and Technology for the advancement of mankind and the nation.

Mission:

To strive in attaining excellence consistently by adopting contemporary methods of teaching and learning to develop skills and to inculcate a research culture in the budding engineers, who can cater to the comfort and well-being of society at large.

Objectives:

- (1) To promote higher education and cutting edge research in most anticipated breakthrough technology of 21st century – nanoscience & technology.
- (2) To spread the importance of nanotechnology to the human generations to school students by conducting education & training programmes at different high-schools & pre-university colleges in the State.
- (3) To explore the possibilities of solving basic & social problems in the society through nanotechnology supported solutions.
- (4) Commercialization of nanotechnology inventions.
- (5) Promote industrial research through Industry collaborations.
- (6) To promote scholarly publishing by bringing out online, open access journals, conducting conferences and workshops.

Programmes:

B. Tech. – Nanotechnology (4 years) at Srinivas Institute of Technology (VTU), Mangalore.

M.Tech. - Industrial Nano-Biotechnology at Srinivas University, Mukka, Mangalore.

M. Phil. & Ph.D. - in Nano Science and Technology at Srinivas University, Mukka, Mangalore.

Present Research:

- (1) Preparation & Characterization of Nanomaterials & Nanocomposites.
- (2) Nanofilters for water purification.
- (3) Characterization of Nano-mechanical & Nanoelectronic components.
- (4) Commercialization of nanotechnology Inventions.

Research Fields: Nanomaterials, Polymer-Nano Composites, Biocompatible Polymers, Polymer Blends, Biocompatible Polymer- Metal Nano Composites, Dye Sensitised Solar Cells, Gas Sensors, Drug Release Devices, Pharmacology, Pharmaceuticals

People:

Sl. No.	Name of Scientist	Qualification	Area of Research
1	Dr. Praveen B. M.	M.Sc. Ph.D., Post Doc @ IISc, Post Doc @ AU, South Korea	Nano-Materials, Nano-Composites, Corrosion Studies
2	Dr. Prasad P. (Coordinator; M: 9482331531)	M.Sc., Ph.D.	Nanomaterials, Polymer-Nano Composites, Biocompatible Polymers, Polymer Blends,

			Biocompatible Polymer- Metal Nano Composites, Dye Sensitised Solar Cells, Gas Sensors, Drug Release Devices
3	Dr. Ramakrishna Shabaraya	M.Pharm., MBA, MD, Ph.D.	Nano-Pharmacology, Nano-Pharmaceutics, Nanosystems for Drug Delivery
4	Dr. P. S. Aithal	M.Sc., MIT, M.Tech., M.Sc. (E-Bus), Ph.D. (Phys), Ph.D. (Mangt.), Post Doc @, PRL, Post Doc @ CREOL, USA	Nano-computing Materials & Systems
5	Dr. Shubhrajyotsna Aithal	M.Sc. (Mat. Sc.), M.Sc. (Chem.), MA (Eng.), M.Phil. (Chem), & Ph.D.	Nano-Photonics
6	Mr. Shareefraju J. Ukkund	M.Tech (Ph.D.)	Biosynthesis of Nano-Materials, Nano-Crystalline cellulose
7	Mr. Naveen Kumar J. R.	M.Tech (Ph.D.)	Metal oxide Nanohybrid/Nanocomposite, gas sensing
8	Mrs. Bhavya M. S.	M.Sc (Ph.D.)	Biocompatible Polymer – Magnetic Nano Composites

List of Projects implemented / undergoing:

Sl. No.	Title of the Project	Sanction No.	Total Cost (₹)	Agency	Present Status
1	Modernization of Chemistry laboratory <u>Dr. Praveen B. M.</u>	Ref. No 8024/RIFD/M OD 292 /2010-11 dated 31-03-2011	₹9,00,000	AICTE under MODROBS scheme	Completed
2	Development of Nickel Si ₃ N ₄ nano particles composite coating by Pulse Electrodeposition method and their corrosion behavior for Technological applications <u>Dr. Praveen B. M.</u>	Ref No SR/FT/CS/147 /201 1 dated 13-07-2012	₹24,16,000	DST under Fast Track Scheme for young scientist	Completed
3	Development of Nickel – Nano Particles composites by Electrodeposition Method for Industrial Applications	Ref No: GRD 313/ dated 01/01/2015	₹30,00,000	Centres Of Innovative Science And Engineering Education (CISEE) BY	On Going

	<u>Dr. Praveen B. M.</u>			VGST, Govt. of Karnataka	
4	Development of Nanostructured Multilayer Coating by Electrodeposition for Aerospace Application at elevated temperature and its corrosion studies <u>Dr. Praveen B. M.</u>	ISRO/RES/3/7 23/1 6-17 dated 02/02/2017	₹19,50,000	ISRO-Respond	On Going
5	Study on Dye sensitized Metal nanoparticles doped polymer films for Optical Limiting & Optical Phase Conjugation. <u>Dr. Shubhrajyotsna Aithal</u>	SR/WOS-A/CS-95/2017 dated 04/10/2017	₹36,00,000	DST, New Delhi	On Going
6	Biosynthesis of Nanoparticles and the Investigation on the Properties of Polymer/Blend Nano Composites for Biomedical Applications. <u>Dr. Prasad P.</u>	CISEE/2016-17/GRD-538 dated 21/12/2017	₹30,00,000	Centres Of Innovative Science And Engineering Education (CISEE) BY VGST, Govt. of Karnataka	On Going

Dr. Praveen B. M.

Books Written:

1. "Electrodeposition and Nanocomposites" Lambert Academic Publishing, Germany ISBN No 978-3-8484-0119-2.
2. "Corrosion Inhibitors" Lambert Academic Publishing, Germany ISBN No 978-3-8484-2710-9.
3. Non Toxic Corrosion Inhibitors for Steel B.M Prasanna, B.M. Praveen, NarayanaHebbar, ISBN NO: 978-3-659-50238-5
4. Eco-Friendly Corrosion Inhiitors for Steel and Zinc NarayanaHebbar, B.M. Praveen, B M Prasanna ISBN NO : 978-659-31547-3

Research Publications:

1. Corrosion inhibition studies of zinc and steel in hydrochloric acid medium. Kuvempu, Univ. Sci. J. 3(1) (2006) 88-95.
2. Corrosion studies of carbon nanotubes – Zn Composite coating. Surface and Coatings Technology, 201(2007) 5836 – 5842.

3. Corrosion Behavior of Zn -TiO₂ Composite Coating. *Synthesis & Reactivity Inorganic, Metal-Organic, & Nano-Metal Chemistry*. 37 (2007) 461–465.
4. Electrodeposition and properties of Zn-nanosized TiO₂ composite coatings. *Applied Surface Science*, 254 (2008) 2418-2424.
5. Quinol-2-thione compounds as corrosion inhibitors for mild steel in acid solution. *Materials chemistry and Physics*, 108 (2008) 283–289.
6. Chemical treatment of zinc surface and its corrosion inhibition studies. *Bulletin of Materials Science* 31(1) (2008) 37-41.
7. Generation and corrosion behavior of zn-nano sized carbon black composite, coating. *International journal of electrochemistry*, 4(2)(2009) 258-266.
8. Metol as corrosion inhibitor for steel. *International journal of electrochemistry* 4(2)(2009) 267-275.
9. Surface modification of steel by a condensation product and its corrosion studies. *Bulletin of electrochemistry* 23 (2007) 123-127.
10. Electrodeposition and properties of Zn-Ni-CNT composite coatings. *Journal of alloys and compounds* 482 (2009) 53-57.
11. Electrochemical Generation of Zn-Chitosan Composite Coating on Mild Steel and its Corrosion Studies, *Engineering*, 2 (2010) 580-584.
12. Veratradehyde as Corrosion Inhibitor for Mild Steel in Different Acid Medium. *Journal of chemistry and chemical engineering* 4 (8) 2010 35 – 41.
13. New schiff.s bases as corrosion inhibitor for mild steel in HCl medium. *Materials Science : An Indian Journal* 7(1), 2011 [1-6].
14. Synergistic effect of additives on bright nanocrystalline zinc electrodeposition. *Journal of Applied Electrochemistry*, 41 (1) (2011) 39-49
15. Preparation and characterization LiMn₂O₄ nano materials for Li ion Batteries, *Materials Science, An Indian Journal*, 8(2012) 207-212.
16. Veratraldehyde as Corrosion Inhibitor for Zinc in Different Acid Medium. *Der PharmaChemica*, 2010, 2(6): 295-301.
17. Ziprasidone as a corrosion inhibitor for zinc in different acid medium. *Journal of Chemical and Pharmaceutical Research* 2011, 3(1):501-507
18. Corrosion inhibition of steel in acid media by S-Benzylthiuronium chloride. *Der PharmaChemica*, 2011, 3(1): 388-398.
19. New Electroactive compounds as corrosion inhibitors for zinc in acidic medium. *Advances in Applied Science Research*, 2011, 2 (2): 333-341.
20. Inhibition effects of acetyl coumarines and thiazole derivatives on corrosion of zinc in acidic medium. *Bulletin of Materials Science* 2011, 34(3) 571–576.
21. Electrodeposition and Corrosion Resistance Properties of Zn-Ni/Tio₂ Nano Composite Coatings, *International journal of electrochemistry*, Volume 2011 doi:10.4061/2011/261407.
22. New brightener for Zn-Fe alloy plating from sulphate bath. *International journal of electrochemistry*, Volume 2011, doi:10.4061/2011/132138.
23. Corrosion Inhibition Effect of Substituted Quinoline and Its Condensation Products on Mild Steel in Acidic Media, *Analytical & Bioanalytical Electrochemistry*. 3 (3) (2011) 249-260.
24. Corrosion Inhibition studies of mild steel by new inhibitor in different corrosive medium. *Research Journal of chemical sciences* 1(7), 46-50, (2011).

25. Kinetic and mechanistic studies on the oxidation of tinidazole by bromamine-t (bat) in hcl medium. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 2(4) 2011, 947-957.
26. Surface modification of zinc by new organic compounds and its corrosion study *Der PharmaChemica*, 2011, 3 (6):565-575.
27. New brightener for Zn-Ni alloy plating from sulphate bath *Chemical Engineering Communications*, 199 (6)(2012) 812-822.
28. Metol as corrosion inhibitor for zinc. *Transactions of Indian Institute of Metals*, 65 (3) 2012, 297-302.
29. Benzimidazole derivatives as corrosion inhibitors for zinc in acid solution. *Protection of Metals and Physical Chemistry of Surfaces*, 2013, 49,(5),2013. 587–590.
30. Electrochemical study of the corrosion behavior of zinc surface treated with a new organic chelating inhibitor. *International Scholarly Research Network* , ISRN Metallurgy Volume 2012, Article ID 940107, 7 pages doi:10.5402/2012/940107.
31. Acid corrosion inhibition of steel by lamotrigine. *International Scholarly Research Network* , ISRN Corrosion Volume 2012, Article ID 932403, doi:10.5402/2012/932403.
32. Corrosion Inhibition of Zinc by a New Inhibitor in Hydrochloric Acid Medium. *Research Journal of Chemical Sciences* ,Vol. 3(11) 82-89 (2013).
33. Microstructural and Mechanical Studies of PVA Doped with ZnO and WO3 composites Films. Volume 2014, Article ID 846140, 7 pages <http://dx.doi.org/10.1155/2014/846140>.
34. Inhibition Effect of Azadirachtaindica, a Natural Product, on the Corrosion of Zinc in Hydrochloric Acid Solution. *Transactions of the Indian Institute of Metals*, (2014) 67(5):675–679.
35. The Inhibition Effects of Chloroquinolines on the Corrosion of Mild Steel in Hydrochloric Acid Solution. *Journal Of Iron And Steel Research, International*, 2014, 21 (8) 804- 808.
36. Ketosulfone Drug as a Green Corrosion Inhibitor for Mild Steel in Acidic Medium. *Industrial Engineering and Chemistry Research (ACS publication)* 2014, 53 (20), pp 8436–8444.
37. Micro structural studies of PVA doped with metal oxide nanocomposites films *AIP Conference Proceedings* 1591, 493 (2014); (<http://dx.doi.org/10.1063/1.4872650>) (AIP Publications).
38. Anthralic acid as corrosion inhibitor for mild steel in hydrochloric media. *Procedia Materials Science* 5 (2014) 712 – 718.
39. Advancement in Microstructural, Optical and Mechanical Properties of PVA (Mowiol 10- 98) Doped by ZnO Nanoparticles, *Physics Research International*, Volume 2014, Article ID 742378, 9 pages <http://dx.doi.org/10.1155/2014/742378>.
40. Polyethylene glycol as a corrosion inhibitor for lead and lead free solders in acidic medium. *International Journal of Mechanical Engineering and Robotics Research* Vol. 4, No. 1, January 2015 128-135.
41. Inhibition effect of an anti-HIV drug on the corrosion of zinc in acidic medium. *Transactions of the Indian Institute of Metals*, 68 (4) 543-551, 2015.
42. Enhancement of Optical, Mechanical and Micro Structural Properties in Nanocomposite Films of PVA doped with WO3 Nanoparticles. *International Journal of Structural Integrity*. 6(2015)338 – 354.

43. Chemical and electrochemical studies of ranitidine as a corrosion inhibitor for mild steel in hydrochloric acid medium. *International Research Journal of Chemistry*, Vol. 1(2), pp. 010-017, 2014.
44. Corrosion inhibition behavior of ketosulphide for mild steel in acidic medium. *International Research Journal of Chemistry* 2(1)(2015) 018-020.
45. Pulse Electrodeposition, characterization and corrosion behavior of Ni-Si₃N₄ composites *Journal of Materials Engineering and Performance* 24(5) (2015) 1987-1994.
46. Development of Ni-Si₃N₄ Nanocomposites by Electrodeposition. *International Journal of Engineering Sciences & Research Technology*, 4(2): February, 2015, 505-508.
47. Anticorrosion Potential of Hydralazine for corrosion of mild steel in 1 M hydrochloric acid solution. *Journal of Fundamental and Applied science*, 2015, 7(2) 222-243.
48. Corrosion Inhibition behavior of Ketosulfone for zinc in acidic medium. *Journal of Fundamental and Applied science*, 2015, 7(2) 271-279.
49. Generation of Nanostructured MgO Particles by Solution Phase Method. *Research Journal of Chemical Sciences* Vol. 5(5), 13-18, May (2015).
50. Development and characterisation of Ni-Si₃N₄ nanocomposites. *AIP Conference Proceedings* 1665, 080031 (2015); doi: 10.1063/1.4917935.
51. Enhancement of micro structural properties of PVA doped with MWCNT's and metal oxide nanocomposites films. *Conference Proceedings* 1665, 140002 (2015); doi: 10.1063/1.4918211.
52. The Corrosion inhibition effect of Hydralazine.HCl on the zinc in Acidic media. *Moroccan Journal of Chemistry*, 3 (3) (2015) 496-506.
53. The inhibition effect of hydralazine hydrochloride on corrosion of mild steel in hydrochloric acid solution. *International Research Journal of Chemistry and Chemical Sciences* Vol. 2(2), pp. 021-025.
54. Anticorrosion potential of a pharmaceutical intermediate Floctafenine for zinc in 0.1 M HCl solution. *International Journal of Industrial chemistry* (2015) 6:221–231, DOI 10.1007/s40090-015-0049-5.
55. Studies on Structural, Optical and Mechanical Properties of MWCNTs and ZnO nanoparticles doped PVA nanocomposites. *Nanotechnology Reviews* , 4(5), 2015, 457-468.
56. Adsorption, thermodynamic, and electrochemical studies of ketosulfide for mild steel in acidic medium. *Journal of Adhesion Science and Technology*, Vol. 29, No 24, 2692–2708, 2015, <http://dx.doi.org/10.1080/01694243.2015.1081781>.
57. Corrosion inhibitory action of mild steel in 1M HCl by Chlorophenicol. *Moroccan Journal of Chemistry*, 3(4) 2015 824-837.
58. Synthesis and antimicrobial evaluation of novel 4-amino-6-(1,3,4-oxadiazolo/1,3,4-thiadiazolo)-pyrimidine derivatives.", *Molecular Diversity*. (2016) 20:391–398. DOI 10.1007/s11030-015-9640-0.
59. Electrochemical Study on inhibitory effect of Aspirin on Mild Steel in 1M hydrochloric acid. *Journal of the Association of Arab Universities for Basic and Applied Sciences* (2017) 22, 62–69.
60. Inhibition Study of Mild Steel Corrosion in 1 M Hydrochloric Acid solution by 2-Chloro 3- formylquinoline. *Internnatioanl Journal of Inustrial chemistry* (2016) 7:9–19 DOI 10.1007/s40090-015-0064-6.

61. Experimental and theoretical studies of hydralazine hydrochloride as corrosion inhibitor for mild steel in HCl acid medium. *Anti-Corrosion Methods and Materials*, Volume: 63 Issue: 1, 2016, PP 47-55.
62. Generation of Ni–Si₃N₄ nanocomposites by DC, PC and PRC electrodeposition methods. *Surface Engineering*, 32(7) 501-507, 2016.
63. Ni-Nb₂O₅ Composites Prepared by Pulse Electrodeposition Method. *Surface Engineering and Applied Electrochemistry*, 2017, Volume 53, Issue 2, pp 179–185.
64. Ni - Si₃N₄ Electrodeposition, Properties and corrosion behaviour. *Surface Engineering and Applied Electrochemistry*, 2017, Vol. 53, No. 3, pp. 258–264.
65. Dielectric and electric conductivity studies of PVA (Mowiol 10-98) doped with MWCNTs and WO₃ nanocomposites films. *Materials Research Express*, 3(5) (2016) 055012.
66. Synthesis and Antimicrobial Evaluation of 6-(4-(4-Chlorophenylamino)piperidine-1-yl) pyrimidin-4-amino Analogues. *Iranian Journal of Organic Chemistry* Vol. 8, No. 2 (2016) 1755-1764.
67. Microwave-Assisted, Palladium Catalyzed Synthesis of Novel 4,6-Diamino Pyrimidine Derivatives. *International journal of Innovative research and Development* 5(11) 2016, 118- 123.
68. Electroactive Sulfonated Polysulfone Polymer as Corrosion Inhibitor for Mild Steel in Acidic Medium. *Journal of Bio and Tribo Corrosion*, accepted, DOI 10.1007/s40735-017- 0106-z.
69. Synthesis and antimicrobial evaluation of some novel 6-(4-benzylpiperidin-1-yl)-4-amino/benzylamino/phenylamino/phenoxy-pyrimidine derivatives. *Iranian Journal of Organic Chemistry* Vol. 9, No. 3(2017) 2123-2133.
70. Experimental approach of Sulfamethoxazole as a corrosion Inhibitor for Carbon Steel in 1M hcl, *JNNCE Journal of Engineering & Management* (Accepted).

Dr. Prasad P.

Publications:

1. Miscibility, Thermal, and Mechanical Studies of Hydroxypropyl Methylcellulose/Pullulan Blends, *Journal of applied polymer science* 110 (1), 444-452, 2008
2. Investigation of miscibility of biocompatible guar gum/pullulan polymer blend, *Malaysian Polymer Journal*, 8 (1), 33-37, 2013
3. In-vitro release study of metoprolol succinate from the bioadhesive films of pullulan-polyacrylamide blends, *International Journal of Polymeric Materials* 61 (4), 300-307, 2012
4. Investigation on Miscibility of Sodium Alginate/Pullulan Blends, *Journal of Polymers and the Environment* 20 (3), 887-893, 2012
5. Miscibility, thermal, and mechanical studies of methylcellulose/poly(vinyl alcohol) blends, *Int. J. Res. Pharm. Chem.*, 2 (4), 957-968, 2012
6. Miscibility and Thermal Behavior of Pullulan/Polyacrylamide Blends, *Journal of Macromolecular Science, Part A* 48 (11), 920-926, 2011
7. Miscibility and thermal studies of PVP/Pullulan blends, *International Journal of Plastics Technology* 14 (2), 234-245, 2010

8. Miscibility Studies of Polysaccharide Xanthan Gum/PVP Blend, Journal of Polymers and the Environment 18 (2), 135-140, 2010
9. Studies on the Compatibility of Pullulan – Carboxymethyl Cellulose Blend Using Simple Techniques, Malaysian Polymer Journal 3 (2), 13-23, 2008
10. Miscibility studies of GG/CMC blends in aqueous solution, International Journal of Advance Research in Science and Engineering, Vol. 6, issue 1, 514-523, 2017
11. Physico-chemical and thermal property studies of GG/CMC blend thin films, International Journal of Advance Research in Science and Engineering, Vol. 6, issue 6, 572-578, 2017
12. Azobenzene dye-sensitised solar cells using TiO₂ nanoparticles and carbon nanotubes, International Journal of Advance Research in Science and Engineering, Vol. 6, issue 7, 743-749, 2017
13. A comparative study of efficiency of CdS-SWCNT, and NiO-SWCNT nanocomposites for methyl violet, International Journal of Advance Research in Science and Engineering, Vol. 6, issue 8, 1-9, 2017
14. Miscibility studies of GG/PVA blends in aqueous solution, International Journal of Advance Research in Science and Engineering, Vol. 6, issue 9, 1-8, 2017
15. Physico-chemical and thermal property studies of GG/PVA blend thin films, International Journal of Advance Research in Science and Engineering, Vol. 7, issue 1, 2018

Awards:

1. Active Young Researcher Award, for significant contribution in the field of research by AR Research Publications, International Research Publication

Editorial Member:

1. Editorial member of International Journal of Advance Research in Science and Engineering. ISSN(O): 2319-8354, ISSN(P): 23119-8346
2. Editorial member of Journal of Nano Science and Quantum Physics, <http://jnsqp.com/editorial.php>
3. Editorial member of International Journal of Applied Engineering and Management Letters (IJAEML)
4. Editorial member of International Journal of Case Studies in Business, IT and Education (IJCSBE)

Lecture Delivered as Resource Person:

1. A keynote address on 'Speciality Polymers' on 28th February 2012 at FMKMC, Madikeri, in connection with National Science Day Celebration 2013
2. Guest lecture on "Chemistry of Nanomaterials and Applications" at Sri Venkatramana Swami College, Bantwal on 23rd August, 2014
3. Invited talk on "Applications of Nanotechnology" at Mahaveera First Grade College, Moodbidri on 18th September, 2014
4. Special talk on "Industrial applications of Nanomaterials" at Vijaya College, Mulki on 5th January, 2015
5. Invited Talk on "Importance of Nanoscience and Technology" at CIT, Ponnampete on February 19, 2016.
6. Special talk on "Nanomaterials and their applications" for two days workshop on Advanced Materials at SIT, Mangaluru, on 29th – 30th July 2016.

Dr. P. S. Aithal

Publications:

1. Aithal, P. S. (2016). Nanotechnology Innovations & Business Opportunities : A Review, International Journal of Management, IT and Engineering (IJMIE), Volume 6, Issue 1, pp. 182-204, (January 2016), ISSN: 2249-0558, DOI : <http://doi.org/10.5281/zenodo.161153> <http://ssrn.com/abstract=2779151>
2. Aithal, P. S., (2016). Study on ABCD Analysis Technique for Business Models, business strategies, Operating Concepts & Business Systems, International Journal in Management and Social Science, Volume 4, Issue 1, pp. 98-115, 2016, ISSN 2321-1784, www.ijmr.net.in, DOI:<http://doi.org/10.5281/zenodo.161137>. <http://ssrn.com/abstract=2779232>
3. Aithal P. S. &Shubhrajyotsna Aithal, (2016). Business Strategy for Nanotechnology based Products & Services. International Journal of Management Sciences and Business Research (IJMSBR) Vol. 5, Issue 4, April 2016, pp.139-149, ISSN 2226-8235. DOI : <http://doi.org/10.5281/zenodo.161127> <http://ssrn.com/abstract=2779450>
4. Aithal, P. S. &Shubrajyotsna Aithal, (2016). Nanotechnological Innovations & Business Environment for Indian Automobile Sector: A Futuristic Approach, International Journal of Scientific Research and Modern Education (IJSRME), Volume I, Issue I, 2016, pp. 296-307. ISSN: 2455 – 5630, DOI : <http://doi.org/10.5281/zenodo.161090> <http://ssrn.com/abstract=2779505>
5. Aithal, P. S. and Shubrajyotsna Aithal, (November 2016). Nanotechnology Innovations and Commercialization – Opportunities, Challenges & Reasons for Delay. International Journal of Engineering and Manufacturing (IJEM), 6(6), pp. 15-25, ISSN: 2305-3631. DOI : <http://doi.org/10.5281/zenodo.161161>, DOI: 10.5815/ijem.2016.06.02. www.academia.edu/s/f7a9836ef1. <http://ssrn.com/abstract=2866363>
6. Aithal, P. S. &Shubhrajyotsna Aithal, (2016). Nanotechnology Innovations & Business Opportunities in Renewable Energy Sector, International Journal of Engineering Research and Modern Education (IJERME) ISSN (Online): 2455 - 4200 (www.rdmodernresearch.com) Volume I, Issue I, 2016, pp. 674- 692. DOI : <http://doi.org/10.5281/zenodo.160905> <http://ssrn.com/abstract=2822971>
7. Aithal, P. S., and Shubhrajyotsna Aithal, (2016). Opportunities & Challenges for Green Technology in 21st Century. International Journal of Current Research and Modern Education (IJCRME), ISSN (Online): 2455 - 5428 (www.rdmodernresearch.com) Volume I, Issue I, pp. 818-828, 2016. DOI : <http://doi.org/10.5281/zenodo.62020> <http://ssrn.com/abstract=2837272>
8. Aithal, P. S., (2016). Review on Various Ideal System Models Used to Improve the Characteristics of Practical Systems. International Journal of Applied and Advanced Scientific Research, ISSN (Online): 2456 – 3080, Vol. 1, Issue 1, pp. 47-56, 2016. DOI : <http://doi.org/10.5281/zenodo.159749> <http://ssrn.com/abstract=2850040>
9. Aithal, P. S. &Shubhrajyotsna Aithal, (2016). A New Model for Commercialization of Nanotechnology Products and Services. International Journal of Computational Research and Development, Vol. 1, Issue 1, pp. 84-93. ISSN (Online): 2456 - 3137 (www.dvpublication.com) DOI:<http://doi.org/10.5281/zenodo.163536>. <http://ssrn.com/abstract=2860623>
10. Aithal, P. S., &Shubhrajyotsna Aithal, (2015). Ideal Technology Concept & its Realization Opportunity using Nanotechnology, International Journal of Application or Innovation in Engineering & Management (IJAIEM), Volume 4, Issue 2, pp. 153 -

- 164, 2015, ISSN 2319-4847. DOI: <http://doi.org/10.5281/zenodo.61591>
<http://ssrn.com/abstract=2778225>
11. Aithal, P. S., Shubhrajyotsna Aithal, (2015). A review on Anticipated Breakthrough Technologies of 21st Century, International Journal of Research & Development in Technology and Management Sciences, Vol. 21, Issue 6, 2015, pp. 112 - 133, ISBN - 1-63102-450-7, DOI : <http://doi.org/10.5281/zenodo.61617>.
<http://ssrn.com/abstract=2778613>
 12. Aithal, P. S., (2015). Concept of Ideal Business & Its Realization Using E-Business Model, International Journal of Science and Research (IJSR), Volume 4, Issue 3, pp. 1267-1274, March, 2015, ISSN 2319-7064, DOI : <http://doi.org/10.5281/zenodo.61648>. <http://ssrn.com/abstract=2778674>
 13. Aithal, P. S., V.T. Shailashree, P. M. Suresh Kumar, (2015). A New ABCD Technique to Analyze Business Models & Concepts, International Journal of Management, IT and Engineering (IJMIE), Vol. 5, Issue 4, pp. 409 - 423, April 2015, ISSN: 2249-0558, DOI : <http://doi.org/10.5281/zenodo.61652>, IF = 5.299. <http://ssrn.com/abstract=2778659>
 14. Aithal, P. S. and T. VaikuthPai, (2016). Concept of Ideal Software and its Realization Scenarios, International Journal of Scientific Research and Modern Education (IJSRME), ISSN (Online): 2455 – 5630, (www.rdmodernresearch.com) Volume I, Issue I, 2016. pp. 826-837. DOI: <http://doi.org/10.5281/zenodo.160908>.
<http://ssrn.com/abstract=2821763>
 15. Aithal, P. S. (2016). Ideal Banking Concept and Characteristics. International Research Journal of Management, IT and Social Sciences (IRJMIS), Vol. 3, No. 11, pp. 46-55. DOI : <http://dx.doi.org/10.21744/irjmis.v3i11.311>. ISSN: 2395-7492. Published by International Journal of College and University.
 16. Aithal, P. S. (2016). A Comparison of Ideal Banking Model with Mobile Banking System. International Journal of Current Research and Modern Education (IJCRME), ISSN (Online): 2455 - 5428 (www.rdmodernresearch.com), 1(2), 206-224. DOI: <http://dx.doi.org/10.5281/ZENODO.198708>. <http://ssrn.com/abstract=2883773>
 17. Shubrajyotsna Aithal, & Aithal, P. S., Bhat, G. K. (2016). Characteristics of Ideal Optical Limiter and Realization Scenarios using Nonlinear Organic Materials – A Review. International Journal of Advanced Trends in Engineering and Technology (IJATET), Impact Factor: 5.665, ISSN (Online): 2456 - 4664 (www.dvpublication.com), 1(1), 73-84. DOI: <http://doi.org/10.5281/zenodo.240254>.
<https://www.academia.edu/30895021>.
 18. Aithal, P. S.,&Shubhrajyotsna Aithal, (2015). An Innovative Education Model to realize Ideal Education System, International Journal of Scientific Research and Management (IJSRM),Vol. 3, Issue 3, pp. 2464 - 2469, March, 2015, ISSN 2321-3418, DOI: <http://doi.org/10.5281/zenodo.61654>. <http://ssrn.com/abstract=2778871>

Dr. Shubhrajyotsna Aithal

Publications:

1. Shubrajyotsna Aithal, P. S. Aithal, and Gopalkrishna Bhat, (2011). Optical Nonlinearity of Dye-doped Polymer Film using Z-scan Technique, Second International Conference on Photonics 2011, 17-19 October 2011, Le Meridian, Kota Kinabalu, Malaysia, IEEEExplore ISBN 978-1-61284-265-3, pp 62-66 (2011), DOI:

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Mr. Shareefraju J. Ukkund

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Mrs. Bhavya M. S.

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