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Research Papers Published in National/ International Journals

Research Papers Published in SCI/Scopus Journals: 127

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1. Saroja Anuma and Badekai Ramachandra Bhat, Synthesis Of Copper Graphene Nanocomposite By Amino Functionalization And Their Catalytic Applications, *Materials Today: Proceedings* 2019, 18, 4942–4951 <https://doi.org/10.1016/j.matpr.2019.07.486>
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75. B. Ramachandra Bhat and Tae-Hwan Kim, Synthesis of Nanocrystalline Molybdenum based Mixed oxide Catalyst and its Performance in Partial oxidation of Methanol to Formaldehyde, International Conference on Nanomaterial & its Applications (ICNA-2007), NIT Trichy, India, February 4-6, 2007, pp.83.
76. Jung-Sik Choi, Tae-Hwan Kim, Ko-Yeon Choo, Jae-Suk Sung, M.B. Saidutta, B.Ramachandra, Young-Woo Rhee, Benzene hydroxylation to Phenol with Iron impregnated Activated carbon Catalysts, Proceedings of the 4th Asian Pacific Chemical Reaction Engineering Symposium (APCRE 05), Gyeongju, Korea, June 12-15, 2005, p.145.

77. Keun-Soo Kim, B.Ramachandra, Jung-Sik Choi, , Ko-Yeon Choo and Tae-Hwan Kim, Application of NaA zeolite membrane prepared by clear solution method to vapor- permeation of alcohol-water system, Proceeding of 2005 spring Korea Institute of Chemical Engineers (KIChE), Yosu National University, South Korea. April 22-23, 2005, p. 65.
78. B.Ramachandra Bhat, Jung Sik Choi , Tae-Hwan Kim, Synthesis of nanocrystalline Mo-V-W-Fe-O mixed oxide catalyst and its performance in selective oxidation of methanol to formaldehyde, 1st International Symposium on CO₂ Reduction & Sequestration (ISCDRS), Seoul, South Korea, Jan 18-19, 2005, p. 146.
79. B.Ramachandra, Jung Sik Choi, Jae Wook Jun, Ko Yeon Choo, Tae-Hwan Kim, Partial oxidation of methanol to formaldehyde using acid treated Iron-Molybdate catalysts, Proceedings of 2004 Autumn KIChE and KSIEC, Hoseo University, Asan, South Korea. Oct 29-30, 2004. p. 241.
80. Jung Sik Choi, Tae-Hwan Kim, Ko Yeon Choo, M.B. Saidutta, B.Ramachandra, Young-Woo Rhee, The characteristic study of Benzen hydroxylation by using Metal complex immobilized on Activated Carbon., Proceedings of 2004 Autumn KIChE and KSIEC, Hoseo University, Asan, South Korea. Oct 29-30, 2004. p.232.
81. Tae-Hwan Kim, Jung Sik Choi , B.Ramachandra, Molybdenum Oxide based Partial Oxidation Catalyst for the Preparation of Formaldehyde from Methanol, Proceeding of 2004 Korea Institute of Chemical Engineers (KIChE) Spring, Kongju National University, Kongju, South Korea. April 23-24, 2004, p. 19.
82. Jung-Sik Choi, Young-Woo Rhee, Tae-Hwan Kim, Sun-Dal Song, M.B. Saidutta, B. Ramachandra, The Effect of modification by acid with Activated carbon catalysts in Benzene hydroxylation., Proceeding of 2004 Korea Institute of Chemical Engineers (KIChE) Spring, Kongju National University, Kongju, South Korea. April 23-24, 2004, p. 19.
83. Tae-Hwan Kim , Jung Sik Choi, Keun-Soo Kim, B.Ramachandra, Min-Soo Lee, A, Study of Formaldehyde Synthesis by using the Catalytic Membrane Reactor (2), 2nd Carbon dioxide Reduction and Sequestration Workshop, Jeju, South Korea, Feb. 5-7, 2004, p. 318-327.
84. Tae-Hwan Kim , Jung Sik Choi, Sun-Dal Song and B.Ramachandra, Clay supported Mo-Fe catalyst for partial oxidation of methanol to formaldehyde, 28th Conference of the Korean Society of Industrial and Engineering Chemistry(KSIEC), Seoul, South Korea, Oct. 31~Nov 1, 2003, p.190.
85. Tae-Hwan Kim, B.Ramachandra , Jung-Sik Choi, M.B.Saidutta and Ko-Yeon Choo, Modified Iron-Molybdate catalysts for oxidative dehydrogenation of methanol to formaldehyde, 23rd Conference of Korea Institute of Chemical Engineers(KIChE), Seoul, South Korea, Oct.24-25, 2003, p.211.
86. J.S. Choi, T.H. Kim, K.I. Kim, S.D. Song, M.B.Saidutta, B.Ramachandra and Y.W. Rhee, A study of direct phenol synthesis with transition metal catalysts of supported, MCM-41 and activated carbon, 23rd Conference of Korea Institute of Chemical Engineers(KIChE), Seoul, South Korea, Oct.24-25, 2003, p.222.

Papers Presented in National Conferences/Symposium: 32

1. Badekai Ramachandra Bhat and Anuma Saroja (2019) “Cobalt Ferrite Nanoparticle by hydrothermal Synthesis for the efficient removal of cationic dyes from Wastewater” XXXVIIIth Annual National Conference on Indian Council of Chemists, Jaipur National University, Jaipur during 26-28 December 2019. IO-5,page:

2. B.Ramachandra Bhat (2019), Advanced Carbon nano materials for Energy and Sensing Applications, Synthetic, Spectroscopic and Structural Chemistry (SSSC-2019), Govinda Dasa College, Surathkal, March 15-16, 2019.
3. B.Ramachandra Bhat (2018), Carbon: Next Generation materials for Energy Applications, 37th Annual Conference of Indian Council of Chemists, , 12-14th , December 2018 NITK, Surathkal, Magaluru, India.
4. Lolakshi M. K and B. Ramachandra Bhat (2016). "Five coordinate cobalt pincer complex as a catalyst precursor for Suzuki Miyaura cross coupling." National conference on recent trends in chemical science (NCRTCS 2016), (11-12th Jan, 2016), Manipal University, Manipal, Karnataka, India.
5. Rasheeda M. Ansari and Badekai Ramachandra Bhat, Synthesis, Characterization and Catalytic Application of Cobalt Schiff base Complex in Suzuki-Miyaura Cross-Coupling reaction, National Conference on Recent Trend in Chemical Sciences (NCRTCS-2016), Department of Chemistry, Manipal Institute of Technology, Manipal-576104, Karnataka, INDIA, January 11-12, 2016
6. Rasheeda M. Ansari and Badekai Ramachandra Bhat, Synthesis and catalytic application of Schiff base complexes in cross-coupling reactions, National Conference on Advances and Innovations in Chemical Sciences (NCAICS-2015), University of Mumbai, Vidyanagri, Santacruz (E). Mumbai-400 098, INDIA, February 12-13, 2015
7. Bhat, P.B. & Bhat, B.R. (2013). Hydroxide supported magnetite as a magnetically separable heterogeneous catalyst for liquid-phase oxidations. XXXII Annual conference. Indian Council of Chemists, 28-30 November, Karnatak University, Dharwad.
8. Bhat, P.B. & Bhat, B.R. (2014). Magnetic nanocatalyst for liquid-phase oxidations of alcohols. UGC sponsored National conference on world's emerging advancements in chemical technology, 10-11 January, Govinda dasa college, Surathkal.
9. Raghavendra Prasad J and Badekai Ramachandra Bhat, Synthesis and Characterization of CdO Polypyrrole nano composite thin films, KSTA Conference-2013, Christ University, Bangalore, 20-21 December, 2013.
10. Raghavendra prasad J and Badekai Ramachandra Bhat, Zinc Oxide Nano flowers as Gas Sensor, ICC Conference-2013, Karnataka University, Dharwad, 28-30 November, 2013.
11. Badekai Ramachandra Bhat, Pooja. B. Bhat, Hydroxide supported magnetite as a magnetically separable heterogeneous catalyst for liquid phase oxidations, ICC Conference-2013, Karnatak University, Dharwad, 28-30 November, 2013.
12. Sandyarani and B. Ramachandra Bhat Cobalt-Schiff base-triphenylphosphine catalyzed oxidation of alcohols, Indian Council of Chemists (ICC) Conference, Osmania University, Hyderabad, 28-30 December, 2011.
13. Aparna P. I. and B. Ramachandra Bhat, One-Step synthesis of biaryls using Co(III) complex, Annual conference, Indian Council of Chemists (ICC) Conference, Osmania University, Hyderabad, 28-30 December 2011.
14. Ravindra R, Aravinda L S and B Ramachandra Bhat, "A simple way to synthesize carbon nanofibers in large scale on sodium chloride support." National conference on Recent Trends in Materials Chemistry and Engineering, 29-30 September, 2011, RNS College, Bangalore.

15. Aparna P I and B Ramachandra Bhat. "Synthesis Characterization and Catalytic application of Ni(II) complex." National Symposium on Chemistry and Humanity (NSCH-2011), Manipal Institute of Technology, Manipal University, Manipal, 11-12 July 2011.
16. Sandya Rani and B Ramachandra Bhat. "Catalytic oxidation of alcohols to carbonyl compounds by V(IV) complexes containing NSO donor schiff base and triphenyl phosphine." National Symposium on Chemistry and Humanity NSCH-2011, Manipal Institute of Technology, Manipal University, Manipal, 11-12 July 2011.
17. Chitra K, Ravindra R and B Ramachandra Bhat, Study of effect of temperature on the synthesis of carbon nanotubes by using ferrocene as catalyst, National conference on social relevance of chemical sciences, Kuvempu University, Shimoga, 26-27 March 2011.
18. Ravindra R and B Ramachandra Bhat, Catalytic synthesis of carbon nanotubes in industrial scale by metal formates, National conference on social relevance of chemical sciences, Kuvempu University, Shimoga, 26-27, March 2011.
19. Ravindra R and B Ramachandra Bhat, High scale production of carbon nanofibers on easy soluble substrate, National conference on Recent Applications of Nanomaterials in Chemistry and Environmental Research, Kongu Engineering College, Erode, 18 - 19 February 2011 (First prize in poster presentation).
20. Aparna P.I, B. Ramachandra Bhat and S.Vijayanarayana. "Catalytic Activities of Ruthenium(II) Complex Containing C3S5 and PPh3 Ligands." 20th National Symposium on Catalysis for Energy Conversion and Conservation of Environment. Indian Institute of Technology, Madras , December 19-22, 2010. (Poster No.60, Full paper -8 pages).
21. Rudresha B. J, Ramachandra Bhat B, Manjunatha K. B and G. Umesh, "Synthesis characterization of 1,10-phenanthroline based Cd(II) complexes for study of third order nonlinear optical properties", Recent Trends in Chemical and Biological Sciences (NCRTCBS-2010) Kuvempu University, Shankargatta, March 30-31, 2010
22. A.S. Ramasubramanian, B. Ramachandra Bhat and R. Dileep, "Lanthanide Schiff base complexes: Synthesis, characterization, Thermal and Antibacterial studies", National Conference on Recent Trends in Chemical Research (NCRTCBS-2010), National Institute of Technology Karnataka, Surathkal, March 8-10, 2010.
23. Dileep R and B. Ramachandra Bhat. "Ruthenium-Schiff base-triphenylphosphine complexes: Synthesis, characterization, catalytic and kinetic studies", National Conference on Recent trends in Chemical Research (NCRTCBS 2010) , National Institute of Technology Karnataka, Surathkal, March 8-10, 2010.
24. Rudresha B. J, Ramachandra Bhat B, Dileep R, John Kiran A, Hwang Woon Lee and Fabian Rotermund. "Ultrafast nonlinear optical response and multi-photon absorption of a cobalt complex in the near-infrared spectral range using Differential Optical Kerr Gate and Z-scan Studies", National Conference on Recent trends in Chemical Research (NCRTCBS 2010), National Institute of Technology Karnataka, Surathkal, March 8-10, 2010.
25. Dileep. R and B. Ramachandra Bhat, Synthesis, crystal structures, spectral studies and application of Palladium (II) complexes containing NNO donor Schiff base and Triphenylphosphine, 27th Annual Conference of ICC, GK University, Haridwar, December 26-28, 2008. (IOCYS-39-II).

26. Vinay S.K, Ritesh .P, Nagaraj K, Dileep R and Ramachandra Bhat B, Synthesis and Characterization of Ni (II) complex with 4-Vanillidenamino -3-methyl-5-mercapto 1, 2, 4-triazole. 26th Annual Conference of ICC, Sagar (M.P), India, February 26-28, 2008, pp 58.
27. B.Ramachandra and B.Narayana, Synthesis and characterization of yttrium and lanthanide perchlorate complexes of 4-Salicylideneamino-3-mercapto-6methyl-1,2,4- triazin(4H)-5-one, Annual Convention of Chemist, 1997, Abst.ING (OP)- 58.
28. B.Ramachandra and B.Narayana, Complexing behavior of 4-Vanillideneamino-3-methyl-5mercapto-1,2,4-triazole towards transition metal ions, Annual Convention of Chemist, 1997, Abst.ING (OP)- 54.
29. B.Ramachandra and B.Narayana, Complexes of Ag(I), Tl(I), Zn(II), Pb(II), Cd(II), Hg(II), Co(II), Ni(II), Rh(III), Ru(III), and Ir(III) with 4-Salicylideneamino-3-mercapto-6methyl-1,2,4-triazin(4H)-5-one, 16th Conference of ICC, Mangalore University, INDIA, 1997 Abst. IO-39.
30. B. Ramachandra and B. Narayana, Complexing behaviour of 4-salicylideneamino-3-mercapto-6-methyl-1,2,4- triazin(4H)-5-one towards lanthanide nitrates. 16th Conference of ICC, Mangalore University, INDIA, 1997 Abst. IO-26.
31. C.H.R. Nambiar, B.Narayana, B.M.Rao, B.Mathew and B.Ramachandra, Indirect Complexometric Determination of Mercury(II) Using Sodium Thiosulfate as a Masking Reagent, 83rd Annual Session of the ISCA, 7, 1996
32. B.Ramachandra and B.Narayana, Synthesis and spectral studies on the complexes of Co(II),Ni(II),Pd(II) and Hg(II) with Salicylideneamino-3-mercapto-6methyl-1,2,4-triazin(4H)-5-one, 12th Conference of ICC IP-3, 1993

Ph.D. Guidance

Ph.D. Awarded: 14

S. No	Name of the student	Reg. No.	Thesis Title	Completed /Ongoing
1.	Ramasubramanian. A. S.	CY05P01	“Physico-Chemical and Biological Studies on Some Metal-Organic	November 2010

			Compounds”	
2.	Dilip. R	CY07F02	Studies On Catalytic Oxidation of Alcohols Using Transition Metal Complexes,	December, 2010
3.	Ravindra R	CY09P01	Synthesis of one dimensional carbon nanostructures and its applications	July, 2012
4.	Rudresh. B.J.	CY08F02	Synthesis Characterization and study of nonlinear optical properties of some transition metal complexes	December, 2012
5.	Sampath Kumar H.C.	CY08P04	Synthesis and characterization of some transition metal complexes and their NLO activity.	December, 2013
6.	Sandhyarani	CY08P05	Transition metal complexes as catalysts for organic synthesis.	April, 2014
7.	Aparna.P.I.	CY09F01	Transition metal complexes as catalysts for the C-C cross coupling reactions.	October, 2014
8.	Aravinda L.S.	CY10F05	Carbon nano materials for Supercapacitor	December, 2014
9.	Pooja B Bhat	CY11F05	Magnetic nano catalyst for oxidation of alcohols	August 2015.
10.	Raghavendra J Prasad	CY12F06	Carbon Nano Composite Materials for Non-Enzymatic Electrochemical Glucose Sensing	March, 2017
11.	Lolakshi Mahesh Kumar	CY13F02	Pincer ligand-metal complexes for Organic Transformation reactions	October,2018
12.	Rasheeda Maqbool Ansari.	CY13F05	Synthesis, Characterization and Application of some Transition metal Complexes for Cross Coupling Reactions.	October,2018
13.	Jayalakshmi	MT13F03	Effect of shot peening coverage on microstructure and mechanical properties of the plasma nitride AISI 316L stainless steel	20.03.2019
14.	Praveen Mishra	CY 15 F05	Even-D carbon nanostructures for sensing and energy applications	15.01.2020
No. of Ph.D. Students Working: 05				
15.	Madhu M Nibalkar	CY 15 P01	Synthesis and Applications of Metal Organic Frame works	Ongoing
16.	Anuma Saroj	CY 14 F 03	Synthesis characterization and catalytic application of graphene oxide immobilized transition metal complexes	Ongoing
17.	Vishrutha K.S.	187032CY 007	Synthesis,Characterization of nano silver based semiconductors for solar cell applications	Ongoing
18.	FionaJoyline Mascarenhas	197CY001	Graphene-metal oxide for supercapcitor applications	Ongoing
19.	Lavanya R Rao	197CY004	Mixed metal-oxide-carbon nano material composite for bio-sensors	Ongoing

M. Pil: 01

Mr. K. Krishna Karanth, Lecturer, Vivekananda First Grade College, Puttur,
Dissertation: Carbon Nanotubes and its applications- A review.
Year: 2007-2008.

PG Projects: 28**M.Sc. (Chemistry)**

Sl.No.	Name of the Student	Roll No.	Thesis Title	Year
1.	Nafisath	07CY 05	Synthesis and characterization of some organometallic compounds	2008-09
2.	Ravindra R	07CY11	Nickel (II) complexes as non linear optical material	2008-09
3.	Ravindra Moger	07CY10	Catalytic oxidation of alcohols to carbonyl compounds	2008-09
4.	Shiva Kumar .K.I.	08CY12	Synthesis and third order nonlinear optical studies of Copper (I) Phenanthroline based complexes.	2009-10
5.	Shravan S. Acharya	08CY14	Synthesis characterization and DNA binding studies of some iron (III) Schiff base complexes.	2009-10
6.	Slipa.P	08CY15	Synthesis characterization and catalytic applications of some transition metals complexes.	2009-10
7.	Chitra. K	09CY05	Study of effect of temperature on the synthesis of carbon nanotubes by using floating catalyst method.	2010-11
8.	Pooja B Bhat	09CY15	Synthesis characterization and third order NLO studies of metal complexes containing substituted O- phenylenediammine Schiff Base ligands	2010-2011
9.	Oswin Pinto	09CY14	Synthesis characterization and catalytic applications of some transition metal complexes.	2010-2011
10.	Darshan.A.S.	10CY03	Synthesis of carbon nanotubes and its polymer composites	2011-2012
11.	Ragavendra R	10CY09	Synthesis of carbon nanofibers and its nano metal oxide composites	2011-2012

12.	Akila K	11CY01	Magnetic nano particles as Catalysts	2012-2013
13.	Pavana M N	11CY13	Carbon nano structures for supercapitors	2012-2013
14.	Prashanth G	11CY16	Carbon nano fiber-polymer composite materials	2012-2013
15.	Nikhika Kashyap D M	12CY09	Electrochemical Biosensor for Dopamine using metal oxide	2013-2014
16.	Suchetha B Shetty	12CY16	Synthesis and Applications of Grafted Magnetic Nanocatalyst.	2013-2014
17.	Arjun C H	13CY06	Pincer like complexes as catalysts in carbon-carbon coupling reactions	2014-2015
18.	Reshma K R	13CY15	Non Enzymatic biosensors using Cobalt oxide electrodes	2014-2015
19.	Maruthi C	13CY12	Non enzymatic biosensors using Copper oxide electrodes	2014-2015
20.	E.Priyamvada Menon	14CY06	RGO-Co ₃ O ₄ Nano-Composite for Super capacitor Application	2015-2016
21.	Neethu Raveendran M	14CY13	Synthesis of Transition Metal Complexes for C-C coupling reactions	2015-2016
22	Fiona Joyline Mascarenhas	15CY03	Grafting of metal schiff base complexes on graphene nanosheets and its catalytic activity in C-C coupling	2016-2017
23	Jayashree P	15CY05	Synthesis and characterization of modified graphene quantum dots for the eletrochemical detection of oxalic acid	2016-2017
24	Vipin Cyriac (SDM College Uijre)	161527	Synthesis of CNT-NiO composite using CVD Technique and its application with respect to supercapacitors	2017-2018
25	Muhammed Ajeebanu M P	16CY14	Evaluation of photosensitization of graphene quantum dot	2017-2018
26	Anootha N V	16CY 04	Grafting of Transition metal complexes onto graphene oxide and its applications in Suzuki-coupling reaction	2017-18
27	Mohammed Aslam Villan	17CY14	NiSe ₂ -Polypyrrole- Graphene Nanocomposite for supercapacitor Application	2018-19
28	G Shreeraj	17CY09	Synthesis of Graphene oxide immobilized metal Schiff base nanocomposites for dye adsorption	2018-19

No. of PG Project through Summer Internship Programme: 05

Sl. No.	Name	Institution	Title	Year
1	Chetana.A	St. Aloysius College, Mangalore	Synthesis of graphene quantum dots	June-July, 2016
2	H S Supriya	Reg.No.175123612, Mangalore University	Synthesis Of Graphene Quantum Dots And Evaluating Its Suitability For Solar Cells	May –July, 2018
3	SHREEGANESH SUBRAYA HEGDE	Reg.No: 17S05097 Karnataka University, Dharwad	SUPERCACITOR DEVICES BASED ON GRAPHENE MATERIALS	May-July, 2018
4	Soujanya	Reg. No.181438, SDM PG, Ujire,	“Synthesis of nano cobalt ferrite for dye adsorption application”.	June-July, 2019
5	Sanjay Pratap	NIT Warangal		June-July,2019

Awards/Fellowships :

- **Prof. S. T. Nandibewoor Award-2019 by Indian Council of Chemists** Received at 38th Annual Conference of ICC at Jaipur National University, Jaipur during 26-28th December 2019.
- **Commonwealth Academic Fellowship** tenable at: Northumbria University, New Castle Upon Tyne, United Kingdom, January 19th to April 18th, 2015
- **VISITING SCIENTIST under Brain Pool Program** supported by the Korean Federation of Science and Technology Societies (KOFST) and the Korea Science and Engineering Foundation (KOSEF), South Korea. During my stay at Korea Institute of Energy Research (KIER), Daejeon, Republic of Korea. I was working with Dr. Tae-Hawn Kim, Center leader of Hydrogen Separation and Storage Research Center, on ‘The development of new process for the

production of formaldehyde derivatives using catalytic membrane reactor-Green syntheses for 24 months, from July 2003 to June 2005.

- Visited SMaRT Centre (Sustainable Materials Research and Technology) for the research interaction with Prof. Veena Sahajwalla, Director of Centre for (SMaRT), University of New South Wales, Australia from 1st July to 7th July, 2014.
- Visited Nanoscale Science and Engineering Laboratory, for research interaction with Dr. Mainak Majumder, Senior Lecturer, Department of Mechanical Engineering, Monash University, Melbourne, Australia from 8th July to 11th July, 2014.
- Direct synthesis of phenol from benzene on iron-impregnated activated carbon catalysts Article Applied Catalysis A: General, Volume 290, Issue 1-2, 1 August 2005, Pages 1-8 Choi, J.S.; Kim, T.H.; Choo, K.Y.; Sung, J.S.; Saidutta, M.B.; Ryu, S.O.; Song, S.D.; Ramachandra, B.; Rhee, Y.W. Was a Science Direct Top 25 Hottest article in the subject area of Chemical Engineering, in the Journal Applied Catalysis A: General
- Green Conversion of Alcohols to Carbonyls Catalyzed by Novel Ruthenium-Schiff base-triphenylphosphine complexes Dileep Ramakrishna, Badekai Ramachandra Bhat Inorganic Chemistry Communications, a Science Direct Top 10 (2nd) most cited article. November, 2010.
- Best Poster Paper: High scale production of carbon nanofibers on easy soluble substrate, National conference on Recent Applications of Nanomaterials in Chemistry and Environmental Research, Kongu Engineering College, Erode, 18 - 19 February 2011.
- Best Oral Paper: Cobalt-Schiff base-triphenylphosphine catalyzed oxidation of alcohols Prof . C.P.Bhasin award in ICC conference, Osmania University, Hyderabad, 28-30 December, 2011.
- Results of article published in Journal of Nanoparticle Research, 14, 2012, 656 has been Published in Nanotechnology weekly on 19th March, 2012.
- Journal of Nanoparticle Research article has been published even in vertical news and High beam research due to its simplicity, environmental friendly route to synthesize new worm shaped carbon nanofibers.
- Best Poster Paper: Synthesis and Characterization of CdO Polypyrrole nano composite thin films, KSTA Conference-2013, Christ University, Bangalore, 20-21 December, 2013.
- Research work published in ACS Comb. Sci., 2014,16, 397–402 has been selected by the editorial Board of SYNFACTS (Thieme) for its important insights.

Organizing conference/ workshop

- 37th ICC Conference at NITK, December 12-14, 2018.
- GIAN programme on Novel Functional Materials for Energy Conversion, 4-7th, October 2016. Department of Chemistry, NITK, Surathkal-575025.
- CRSI Mid-year Symposium, 2013 at NITK, Surathkal, July, 12-13, 2013.
- International conference on recent advances in material science & technology (ICRAMST – 2013), NITK Surathkal, 17-19 January, 2013. Inorganic Chemistry Section President.
- National Conference on Recent trends in Chemical Research (NCRTCR 2010), at NITK , Surathkal, 8-10, March, 2010. (250 delegates and 107 papers)
- National Workshop on ‘Advances in Coordination Chemistry’ at NITK, Surathkal, January 8-10, 2009. (135 delegates)
- Organized workshop on Recent Research Trends in Chemistry: An Interaction Programme Faculty and PG students of NITT & NITK at NIT, Trichy on September 27-28, 2008.
- One day workshop on ‘Community-Institute Interaction’ under Community Service Programme of TEQIP at NITK, 18th March, 2007.

Books Published

- Praveen Mishra, Badekai Ramachandra Bhat “Correlation between Synthesis and Properties of Graphene” chapter in the book Graphene as Energy Storage Material for Supercapacitors Material Research Foundation **64 (2020)** 25-62 Materials Research Forum LLC,
- Praveen Mishra, Badekai Ramachandra Bhat, “Zero-Dimensional Carbon Nanostructures for Supercapacitors” Chapter in a book Morphology Design Paradigms for Supercapacitors 1(2019), 1-32, CRC Press, ISBN: 13:978-0-367-20754-0, Taylor & Francis Group, 6000 Broken Sound Palcoog NW, Suit 300, Boca Raton, FL 33487-2742.
- Ravindra Rajarao, Badekai Ramachandra Bhat (2012) " Synthesis of One Dimensional Carbon Nanostructures : Application in Catalysis and Hydrogen Storage" Lambert Academic Publishers, Germany, 252 pages. ISBN 13: 978-3-659-21985-6, ISBN 10: 3659219851.

- Ravindra Rajarao and Badekai Ramachandra Bhat, book Chapter titled “Carbon Nanotubes and Graphenes in Energy Storage and Catalysis” in the book "*Nanotechnology Vol. 6: Energy and Environment*" by Studium Press LLC, USA P.O. Box 722 200, Houston, TX 77072-USA. Vol(6) ISBN.No.1-62699-006-9. Page No. 137-156.
www.researchgate.net/publication/...1.../79e41512f324e8d592.pdf

Funded Research Projects

- “Carbon nanotubes by catalytic pyrolysis and its hydrogen storage properties”, DRDO, 21.882 lakhs, 2009-2013, PI: B.Ramachandra Bhat, CI: A.V.Adhikari.
- “Synthesis, Characterization Studies on Nonlinear Optical Properties of some Organometallic Compounds” TEQIP-I, 6.00 lakhs, 2008-2009, PI: B. Ramachandra Bhat, CI: R.Karvembu, NITTrichy,
- “Synthesis Characterization and NLO studies of Ni(II), Co(II) complexes containing 1,10-phenanthroline Derivatives” TEQIP-I, 6.00 lakhs, 2008-2009, PI: B. Ramachandra Bhat, CI: R.Karvembu, NITTrichy,
- “Green conversion of alcohols to carbonyl compounds in ionic liquids using nickel catalysts containing PPh₃ and *N*-(2-pyridyl)-*N'*-(salicylidene) hydrazine ligands”, TEQIP-I, 6.00 lakhs, 2008-2009, PI: B. Ramachandra Bhat, CI: R.Karvembu, NITTrichy,

Consultancy Project

- Gold lamination of Kateelu Temple Chariot.-2013-14. 420 lakhs
- Gold lamination of Golden roof of the Sanctum Sanctorum of Sri Krishna Matha, Udupi-2019. 4000 lakhs
- Gold lamination of Kateelu Temple flag post- 2019-2020. 320 laks

Special lecture Delivered:

- “Nano Carbon Sensors” Prof. S. T. Nandibewoor Award lecture at 38th Annual Conference of Indian Council of Chemists held at Jaipur National University, Jaipur during 26-28th December 2019.
- “Nano Bio Sensors” National Seminar on Current Trends in Chemical Research and Development (CTCRD-2019), Vivekananda College of PG studies, Puttur. 18th , September 2019
- Advanced Carbon nano Materials for Energy and Sensing Applications, Synthetic, spectroscopic and structural Chemistry (SSSC-2019), Govinda Dasa College, Surathkal-575014., 16th March, 2019.
- “ Carbon: A Next Generation Material for Energy Applications, 37th Annual Conference of Indian Council of Chemists, NITK, Surathkal, Magaluru-575025, 12-14th , December 2018.
- “Carbon: A Next Generation Material”, Canara PU College, Mangaluru, October 11, 2018
- “Nano Carbon: A Smart Material” Mangalore University College, Mangaluru, September 04, 2018.
- Next-Gen materials for Energy and Sensing Application-Advances in nano-Science and Nano-Technology, Yenepoya Institute of Technology, Moodbidri, October 31, 2017.
- Carbon nanostructures for energy Applications- Refresher Course in nano science by UGC-HRD Centre, Kannur University, Payyanur Campus. March 17, 2017.
- ‘Carbon Nanostructures- A smart materials’ – National Conference on Chemistry for Sustainable Future (NCCSF-2017) will be held on 27th and 28th January 2017 at Sri Dharmasthala Manjunatheshwara College Ujire.
- “Nanotechnology: Smart Materials”, St. Joseph Engineering College, Vamanjoor, Mangalore-28, November 19, 2016.
- “Ozone: Come save the Earth”, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi, September 16, 2016.
- “Nano Carbon materials for Energy and Sensor Applications”, Northumbria University, Newcastle Upon Tyne, United Kingdom, January, 28th, 2015.

- “Overview on the research at Catalysis and Materials laboratory at NITK”, Faculty of Engineering and Environment, Northumbria University, Newcastle Upon Tyne, United Kingdom, January, 19th, 2015.
- “Allotropy of carbon materials for energy applications”, One day state level UGC sponsored Seminar, Vijaya College, Mulky, January 5th, 2015.
- “Chemistry of Carbon nano materials” Vivekananda College of PG studies, Puttur, September 29th, 2014.
- “Materials for catalysis, biosensors and energy applications”, Nanoscale Science and Engineering Laboratory, Department of Mechanical Engineering, Monash University, Melbourne, Australia, July 9th, 2014.
- ‘Climate Change and Ozone’ Refresher Course in Chemistry for UG/PG faculty organized by the UGC- Academic Staff College, Bangalore University, Bangalore, March 21st, 2014.
- “Carbon nano structure: An efficient energy storage material’ Refresher Course in Chemistry for UG/PG faculty organized by the UGC- Academic Staff College, Bangalore University, Bangalore, March 21st, 2014.
- “Nano Carbon: A fascinating Material” two days national symposium on Recent Advances in Chemical Sciences, Alva’s College, Moodbidri, March 7th, 2014.
- “Carbon nano structures for Energy Applications” World’s Emerging Advancements in Chemical Technology (We Act 2014), Govinda Dasa First Grade College, Surathkal January 11, 2014
- “Ozone: Cover and Uncover”, Alva’s College Moodabidri, on the occasion of world ozone day celebration, September 16th, 2013.
- “Safety precautions in handling petroleum products” Training program for Indian Oil Corporation workers at Panambur, Mangalore, October 14, 2012.
- “Petroleum and safety measures”, Training program for Indian Oil Corporation workers at Panambur, Mangalore, March 11, 2012.
- “One dimensional carbon nanostructures and its energy applications”, Seminar on Nanotechnology- Ultimate solution to energy challenges, St. Aloysius College Mangalore, February, 24, 2012.

- Overview on one dimensional carbon nanotubes, Christ University, Hosur Road, Bangalore, November, 25, 2011.
- Carbon nanotubes: Polymer composites, STTP, NITK Surathkal, August 3, 2011.
- ‘Development of New Process for the Production of Formaldehyde Derivatives using Catalytic Membrane Reactor’ at Hydrogen Separation & Storage Research Center, Korea Institute of Energy Research (KIER), Daejeon, South Korea, March 15, 2005.
- ‘Modified Iron-Molybdate catalysts for oxidative dehydrogenation of methanol to formaldehyde’ KIER, Daejeon, South Korea, September 24, 2003.

Special Appointments:

- Organizing Secretary, National Workshop on “Recent Advances in Material Chemistry”, 26th September 2019. NITK Surathkal
- Chairman, 37th ICC Conference to be held at NITK, Surathkal, December 12-14, 2018.
- Chaired a session in ICC International Conference held at Bali, Indonesia, during June 7th-9th, 2017.
- Head of the Department, Chemistry, 11th August, 2014 to 10th August, 2016
- Member, BOS for two years (2017-19), St. Aloysius College, Mangaluru-575003
- Elected as a Senate Nominee to Board of Governors, NITK Surathkal for two years from 21.10.2014 to 20.10.2016
- Member, Finance Committee, NITK, Surathkal from October, 2014 to October, 2016
- Chaired a session in Two day National Conference on Current Trends in Scientific Research for Engineering Applications (NCSEA-2014) at St. Joseph Engineering College, Mangalore, July 17th, 2014.
- Chaired a session in CRSI Mid-year Symposium, 2013 at NITK, Surathkal, July, 12-13, 2013.
- Chaired a session in, International conference on Recent advances in material science & technology (ICRAMST – 13), NITK Surathkal, 17-19th January, 2013.
- Inorganic Chemistry Section President, International conference on recent advances in material science & technology (ICRAMST – 13), NITK Surathkal, 17-19th January, 2013.
- Member, FANITK, EC Sub Committee for the modification of MHRD guidelines for recruitment in NITK in March-April, 2012.
- Advisory Committee Member, Seminar on Nanotechnology- Ultimate solution to energy challenges, St. Aloysius College Mangalore, February, 24, 2012.

- Advisory Committee Member, International Workshop on Applications of Nanotechnology to Energy, Environment and Biotechnology (NANO EEB) St. Aloysius College (Autonomous) Mangalore, India, during December, 14-16, 2010.
- Chaired a session in International Conference on Nanomaterial & its Applications (ICNA-2007), at NIT Trichy, February 4-6, 2007.
- Chaired a session in International Workshop on Applications of Nanotechnology to Energy, Environment and Biotechnology (NANO EEB) St. Aloysius College (Autonomous) Mangalore, India 14-16 December 2010.
- TEQIP-II- Joint nodal officer, Disclosure Management, MIS
- TEQIP-I- Nodal officer for training and faculty affairs
- TEQIP-I- Joint nodal officer for training and faculty affairs
- TEQIP-I- Coordinator for Service to Community.

Membership of Professional Bodies

1. Life Member, Indian Chemical Society.
2. Life Member, Indian Society for Technical Education – LM 36477
3. Life Member, Chemical Research Society of India- LM 947
4. Life Member, Indian Science Congress Association- L 13148
5. Member, Indian Council of Chemist – LF/1226
6. Member, IACSIT- 80342267

Conferences/ Workshops/Seminars/ Short-term courses attended

- 38th Annual Conference of Indian Council of Chemists held at Jaipur National University, Jaipur during 26-28th December 2019.
- 6th International conference of Indian Council of Chemists at Hotel Novotel Wellness and Spa roissy (Paris) Courtyard by Marriot-Avenue des Olympiades (Brussels) June 6-8, 2019.
- 5th International conference of Indian Council of Chemists at Swiss-Belhotel Rainforest, Kuta, Bali, Indonesia, June 7-9, 2017.
- 6th International Engineering Symposium (IES 2017) at Kumamoto University, Japan, March 01-03, 2017
- Northumbria University, Newcastle Upon Tyne as a Commonwealth Fellow, Jan,18-April 18th, 2015.

- Attended 5th Chemical Nanoscience Symposium (CNSN-5), Newcastle University, United Kingdom, 26th March, 2015.
- Visited University of New South Wales, Sydney and Monash University Australia from 30.06.2014 to 11.06.2014 for Research Interaction.
- SPIE- Photonic West-2014 at San Francisco, California, USA, February 1-6, 2014.
- *International Conference on physical sciences and technology (ICPST-2011)*, Dubai, December 28-30, 2011
- *ICC International conference*, Bangkok, Thailand, June 11-15, 2011
- Attended 5th *International Congress of Chemistry and Environment*, Glory Beach Resort, Port Dickson, MALAYSIA, May 27-29, 2011.
- Attended 23rd *International Conference on Organometallic Chemistry*, Rennes , France, July 13-18, 2008.
- Attended 10th *International Symposium on Catalyst Deactivation*, Berlin/Germany, February 5 - 8, 2006.
- Spring Conference of Korea Institute of Chemical Engineers (KIChE), April 22-23, 2005, Yosu National University, South Korea.
- 1st International Symposium on CO₂ Reduction & Sequestration (ISCDRS). Jan 17-20, 2005 Seoul, South Korea.
- Autumn Conference of Korea Institute of Chemical Engineers (KIChE) and KSIEC, Oct. 29-30, 2004, Hoseo University, Asan, South Korea.
- Spring Conference of Korea Institute of Chemical Engineers(KIChE), April 23-24, 2004, Kongju National University, Kongju, South Korea.
- 28th Conference of the Korean Society of Industrial and Engineering Chemistry (KSIEC), Oct.31-Nov.1, 2003, Seoul, South Korea.
- 23rd Conference of Korea Institute of Chemical Engineers(KIChE), Oct.24-25, 2003, Seoul, South Korea
- Zeolite Conference on September 26-27, 2003. Chonnam National University, Gwangju, South Korea.
- One day workshop on TEQIP- II MIS conducted by NPIU on at EdCIL, 18-A Sector 16A,

Noida, 23rd November, 2013.

- Two day training programme on Web based Management Information System(MIS) conducted by NPIU, New Delhi at Osmania University College of Engineering, Hyderabad. On 14-15th, February, 2012.
- International conference on nanoscience and technology (ICONSAT-2012), Hyderabad, 20-23 January 2012.
- National Workshop on Advances in Organic Chemistry and Allied Applications (AOCAA-09), NITK, Surathkal, February 16-19, 2009.
- International Conference on Frontiers in Chemical Research (ICFCR-2008), Mangalore University, December 29-31, 2008.
- Faculty Awareness Camp on Entrepreneurship (FACE), 22-24th June, 2008, NITK, Surathkal.
- Summer School on “Recent Developments in Advanced Materials”, 16-21st June, 2008, NITK Surathkal
- NITK/TU/e (The Netherlands)Workshop on Modeling & Simulation of Engineering Processes organized by Centre for Materials Research NITK, Surathkal, March 10-14, 2008.
- Workshop on Integrated Coastal Zone Management Plan (ICZMP-2007), April 26, 2007, NITK Surathkal.
- Workshop on Materials Characterization (MACMET-2007), March 30, 2007, NITK, Surathkal.
- International Conference on Nanomaterial & its Applications (ICNA-2007), February 4-6, 2007. NIT Trichy.
- Workshop on NanoStructure (Merials, Methods and Applications) June, 22nd 2006, CIT, Coimbatore.
- One day workshop on Industrial Corrosion Awareness and Prevention, February, 25th 2006, Mangalore University, Mangalagangothri, India.
- National Conference on Synergic Solutions for Sustainable Development “Prescription for Prosperity”, Dec, 28 -30, 2005, NITK, Surathkal.
- National Workshop on Energy Audit, December, 19-21, 2005, at NITK, Surathkal.
- Workshop on ‘Trends in aerosol research – climate and health’, November, 25-26, 2005, at NITK, Surathkal.

- Work shop on ‘Grading in credit system at NITK’ November, 12th , 2005, at NITK sponsored by TEQIP at NITK, Surathkal.
- Coastal Erosion Areas (CEA) - Protection and Management, 06 - 18, Jan, 2003, App. Mech Department, NITK Surathkal.
- Robotics & Automation , 24th Feb to 08th March, 2003, Mech Engg. Department, NITK Surathkal.
- Solar Energy and its Applications (SEA) 20th Jan to 02nd Feb, 2003, E & E Engg., NITK Surathkal.
- Engineering Geology and Geotechnology role in country planning and development, 27th Dec. 1999 to 8th Jan.2000, KREC Surathkal
- Student Evaluation, 25th to 27th Nov, 2002 , Technical Teachers Training Institute, CHENNAI
- Induction Training Programme , 11th Dec. 2000 to 31st Dec.2000, REC, Durgapur, West Bengal.
- Internet, Intranet and programming, 22nd Nov. to 4th Dec. 1999, Computer Engg. Department, KREC Surathkal
- Fuzzy logic and neural networks in chemical process automation 15th Feb. to 27th Feb.1999, E&E Department, KREC Surathkal.
