Dr. S. Ananda

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Designation : Professor

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Phone : 0821-2419663/ 0821-2340011

Qualification : M. Sc, Ph.D

Area of Specialization : Chemical Kinetics, Biophysical Chemistry and Physical-organic Chemistry, Nano Science and Technology

Areas of Research:

- Analysis of Food Grains
- Kinetics and Mechanism of Oxidation of Substrates with Organic Haloamines.
- Analytical Estimation of Compounds (Nitrate, Cyanide etc.) by Kinetic Method.
- Synthesis and Characterization of Zeolities, Kinetics of Crystal Growth, its Application in Photo degradation of Organic Compounds, Dyes etc
- Synthesis of Metal-vitamin Complexes, Characterization and its applications
- Enzyme Kinetics.
- Biological studies related to Medicinal plants: Extraction, Isolation and characterization.
- Synthesis of nanomaterials and nano-compounds and its applications.

Research Experience and Publications:

1. Research Guidance (M.Phil/Ph.D) : M.Phil - 2 ; Ph.D - 9

1. " Kinetics and Mechanistic investigations of oxidation reactions of N-Metallo-N Hallogeno Aral Sulphonemides'
2. ”Oxidation of substrates with N-metalo-N-Ary/Hallo sulphonamides: A Kinetic study".
3. "Oxidation and Mechanistic investigation of reactions with N-Metallo- N-Ary/ halosu/phanamides as oxidants
4. " Kinetics and mechanism of oxidation reactions of N-Melallo-N-Halogeno Aryl sulphonamides'
5. " Mechanistic investigations and kinetic study of oxidation reactions of substrates with N-Metallo-N-Aryl halo sulphonemides"
6. "Mechanistic and kinetic investigations of oxidation reactions by n-Metallo N-Halogeno-Ary/Sulphonamides with Nitrogen and sulphur containing substrates and some biologi celly active substances".
7. " Oxidation and Enzyme catalyzed reactions of Carbohydrates and some biological Active compounds" A Kinetic Study Awarded :2007
8. "Isolation, synthesis and structure activity studies of peptides fragments isolated from snake venom ".
9. “Synthesis, characterization of metal-Vitamin complexes and metal oxide nanocomposites: Application to biological and industrial effluents degradation”

ON GOING RESEARCH WORK:

1. "Synthesis, characterization and Biological studies of metal vitamin complexes with N-Halomines as oxidant and kinetic study of complex formation".
2. "Biological studies related to medicinal plants; Extraction, isolation and characterization”. (IOE Project, University of Mysore, Principal investigator)
3. "Synthesis, characterization of metal-vitamin complexes and metal oxide nanocomposites: Application to Biological and Industrial effluents degradation"

4. "Synthesis of nanomaterials and its application in photodegradation of industrial effluents and organic compounds"
    (i) Member, UPA, 10 Crores project-University of Mysore
    (ii) Member, Nano material processing-University of Mysore (5 Crores Project)
5. Electrochemical oxidation and degradation of organic compounds and industrial effluents.

(Number of research fellows: 7, PDF: 1)

Research projects:

CO-INVESTIGATOR FOR RESEARCH PROJECTS:

Research projects	Source	Period	Amount
Synthesis of new alkali earth Alumino Silicates	Manoj. R. Jain Trust, Mumbai	Jan 2004- July 2004	Rs. 1.00 Lakh
Carbon Polymorphs: Hydrothermal synthesis and characterization	DST, New Delhi	Oct-2004- To date	Rs. 23.5 Lakhs
Crystal growth and characterization of rare earth Vanadate laser crystals	DST, New Delhi	Feb-2005-To date	Rs. 17.25 Lakhs
Hydrothermal preparation: polymorphic carbon composites, zeolites, carbon composites and their structural characterization	Collaborative research project with material and structural laboratory TIT, Japan	May 2006- may 2007	

Co-guidance in other fields (Not official):

University	Name of Scholar	Year of registration	Broad subject area
University of Mysore	Dr. A. K. Subramani		Geology and Environmental Science
University of Mysore	Dr. Suresh Kumar		Geology and Environmental Science
University of Mysore	Mr. Bhezad. S		Geology and Environmental Science

Referee for Journals:

Indian journal of chemistry, Journal of physical-organic chemistry, synthesis and reactivity of inorganic metals, organic and nano chemistry, international journal of chemical kinetics etc…

Chairmanship/Membership in university academic bodies PG level:

Position	Name of the academic body	University	Period	
			From	To
Member	BOE	University of Mysore	2001	2002
Chairman	BOE	University of Mysore	2009	2010
Member	BOS	University of Mysore	2007	2010
Member	Academic Council	University of Mysore	1993	1995

Details of visits to abroad:

Year	Purpose	Sponsored by
2006	Research associate	Tokyo institute of technology, Tokyo, Japan

Details of participation in seminars/ symposiums/conferences in India (1998 to 2004) Annexure-2:

Year	Organized by	Level of participation	Title of programme/ International/ National/Institution
2002	India	Participation	Indian council of Chemists Conference
2005	India	Participation joint secretary (organizing committee)	International conference on solvothermal reactions
2005	India	Participation	Workshop at RCE on the preparation of "teacher manual for 2^{nd} PUC students"
2006	Japan	Presented a paper	International symposium on hydrothermal and solvothermal reactions
1999	Japan (yokhoyama)	Presented a paper	International conference on Bioinorganic Chemistry

2009	India	Co-convener	National conference on emerging areas in chemistry
2009	India	Member (organizing committee)	38th national seminar on crystallography
2010	CHINA	Presented paper on nano materials	2nd international solvothermal and hydrothermal association conference
2011	India	Participated	Bangalore nano conference (DST)
2011	India	Paper presented by students, 1st and 3rd prize (nano materials)	Recent trends in chemistry, PES college, Mandya
2012	India	Invited speaker (synthesis of nano materials and applications)	National conference on material scienc, Annamalai university
2012	India	Invited speaker (synthesis of nano materials and applications)	Nano materials and its applications, national seminar, KM Doddi, Mandya

Organization of programmes (National/ International/ Seminars/ Workshops etc…) at national/ international levels (June.1999-Nov.2005)

Year	**Progammes**	**Sponsor**	**Position Held**
2005	6th international conference on solvothermal reactions	University of Mysore	Joint secretary (organizing committee)
2002	ICC conference	University of Mysore	Organizing committee member
2009	India	Member	38th national

		(organizing committee)	seminar on crystallography
2009	India	Co- convener	National conference on emerging areas in chemistry

Participation in refresher courses/ orientation programmes/other trainings:

Month	**Year**	**Institution**	**Programme**	**Nature of participation**
March	1992	IISc, Bangalore	Chemical reaction dynamics	Attended
Feb	1993	IISc, Bangalore	Solid state chemistry	Attended

Membership held in university authorities (senate, syndicate, academic council, deans, finance committee and other statutory bodies):

University	**Authority**	**Period**	
		From	**To**
University of Mysore	Academic council	1993	1995

Membership in employees association:

Name of the association	**Position held**	**Period**	
		From	**To**
Co operative society, University of Mysore	Member	2005	Present
Teacher association MUTA and PGTA	Member	1983	Present

Participation in development schemes (COSIP/COHIP/SAP/FIST/Other grants):

Year	University	Development	Role
SAP/FIST 2003-2008	University of Mysore	Chemistry	Teacher
SAP 2009-2014	University of Mysore	Chemistry	Member, advisory committee

M.Phil and Ph.D adjudicated:

Andhra University, Karnatak University, Bangalore University, Kerala University, etc…

Faculty/Students related programmes organized:

Year	Programme
1999-2000	Chemical society secretary
2009-2010	Chemical society secretary

TOTAL NUMBER OF RESEARCH PUBLICATIONS:

- Improved plate grinder with sieve attachment for milling of cereal grains.H.S.R. Desikachar, R. Shankara, N.G. Malleshi, R. Krishnamurthy, M.N.Narayana and S. Anand Ahara 82, International Food Confernece, May 23-26, 1982, Bangalore, India.
- Kinetics of Oxidation of amino acids by sodium-N-bromobenzene sulphonamide D.S. Mahadevappa, S. Ananda, A.S.A. Murthy and K.S. Rangappa.Reaction Kinetics and Catalysis letters (HUNGARY) Vol. 23, 181-187 (1984).
- Oxidation of Dimethyl Sulphoxide by Sodium-N-bromobenzene sulphonamide; A kinetic and mechanistic study. D.S. Mahadevappa, S. Ananda, A.S.A. Murthy and K.S. Rangappa.Tetrahedran (U.K.) Vol. 40, 1673-1682 (1984).

- Oxidation of aminoacids with sodium-N-bromobenzene sulphonamide: A kinetic studyD.S. Mahadevappa (late) M.B. Madegowda, S. Ananda and K.S. Rangappa.Indian Journal of Chemistry, Vol. 23 A, 17-20 (1984).
- Kinetics and Mechanisms of oxidation of Dimethyl Sulphoxide by Bromamine-T in aqueous solution. D.S. Mahadevappa, (late) M.B. Madegowda, S. Ananda and K.S. Rangappa Indian Journal of Chemistry, Vol. 23 A, 325-328 (1984).
- Oxidation of aminoacids with sodium N-bromo-p-toluene sulphonamide A Kinetic studyD.S. Mahadevappa, S. Ananda, (late) M.B. Madegowda; and K.S. rangappa Journal of Indian Chemical Society; Vol. 61, 323-328 (1984).
- Oxidation of Methionine by sodium N-chloro p-toluene sulphonamide in aqueous solution : A kinetic study D.S. Mahadevappa, S. Ananda, M.B. Madegowda and K.S. Rangappa Journal of Chemical Society (London) Perkin transactions Vol. 11, 39-43, 1985.
- Oxidation of primary alcohols by sodium N-bromobenzene sulphonamide : A kinetic study D.S. Mahadevappa; S. AnandaIndian Journal of Chemistry, Vol. 1A, 589-593.
- Oxidation of methionine by sodium N-bromobenzene sulphonamide: A kinetic study S. Ananda; K.S. Rangappa and D.S. Mahadevappa Journal of Indian Chemical Society Vol. 0XIII, 581-585, 1986.
- Kinetics of oxidation of EDTA by sodium N-chlorobenzene sulphonamide in buffer medium. K. Mohan, S. Ananda and D.S. Mahadevappa Indian Journal of Chemistry, Vol. 25A, 666-668, July 1986.
- Oxidation of aliphatic ketones by sodium N-bromobenzene sulphonamide: A kinetic study K. Mohan, S. Ananda and D.S. Mahadevappa Tetrahedron Vol. 42, 4857-4866, 1986.
- Mechanism of bromamine-T oxidation of Glutamic acid and aspartic acids ID.S. Mahadevappa, Puttaswamy and S. Ananda Indian Journal of Chemistry, Vol. 25A, 33-37, Jan. 1987
- Kinetic and mechanisms of oxidation of EDTA by Bromamine-B and Bromamine-T in buffer medium K. Mohan, S. Ananda and D.S. Mahadevappa Proc. Indian Acad. Sci (Chem Sci) Vol. 98, No. 3, 213-220, March 1987

- Oxidation of aliphatic esters by sodium N-bromobenzene sulphonamide: A kinetic study Indian Journal of Chemistry (India) 31A, 789-792, 1991 S. Ananda*, B.M. Venkatesha and D.S. Mahadevappa
- Oxidation of Indole by N-sodio-N-Chlorobenzene Sulphonamide (Chloramine-B)in alkaline medium catalyzed by Os (VIII): A kinetic and mechanistic study.Journal of Physical Organic Chemistry (U.K.) 5,373-381,1992 USA S. Ananda*, B.M.Venkatesha, D.S. Mahadevappa and N.M. Made Gowda.
- Oxidation of Ethylenediamine tetra-acetic acid by aromatic N-Bromaminesin Alkaline medium with Os O4 as catalyst ; A kinetic and mechanistic study Indian Journal of Chemistry, (India), 32A, 814-818, 1993B.M. Venkatesh, S. Ananda* and D.S. Mahadevappa.
- Ruthenium (III) catalyzed kinetics of chloroacetic acids oxidation by sodium N-bromobenzene sulphonamide in hydrochloric acid medium. International Journal of Chemical Kinetics (USA) 25, 755-770, 1993.S. Ananda*, B.M. Venkatesha, D.S. Mahadevappa and N.M. Made Gowda.
- Kinetics of Oxidation of chloroacetic acid by sodium-N-bromo-p-toluene suphonamide in HCI medium and catalyzed by Ru(III)ion. Indian Journal of Chemistry (India), 33A, 128-135, 1993.S. Ananda*, B.M. Venkatesha, D.S. Mahadevappa.
- Oxidation of Indigacaramine by chloramines-B, in acidic buffer (pH2-6) medium: A kinetic study. Indian Journal of Chemistry (India), 34B, June 1995, 508-513. S. Ananda*, B.M. Venkatesha, D.S. Mahadevappa.
- Oxidation of some primary amines by sodium N-bromobenzene sulphonamide (bromamine-B) in alkaline medium: A kinetic and mechanistic study. 32nd annual convention of chemists, Phy-0-31, 1995. International Journal of Chemical Kinetics (USA), 1996 Vol. 28, 873-878. S. Ananda*, T. Demappa, D.S. Mahadevappa and N.M. Made Gowda.
- Oxidation of primary amines by sodium N-bromobenzene sulphonamide (Chloramine-B) with OsO4 as catalyst: A kinetic study. International Journal of Chemical Kinetics (USA), 1997, Vol. 29, 734-744. S. Ananda*, T. Demappa and N.M. Made Gowda.

- Palladium (II) - phenothiozine complexes : Synthesis and characterization. Journal of Molecular structure (1997), 407, 125-130, USA.N.M. Made Gowda, Ravindra K, Vallabhamani, Indira Gajula, S. Ananda*.
- Kinetics of oxidation of indigocaramine by N-sodio-N-bromotoluene Sulphonamide in acidic buffer medium. International Journal of Chemical Kinetics (USA), 1997, Vol. 28, 453-459. S. Ananda*, B.M. Venkatesha, D.S. Mahadevappa.
- Ru(III) catalyzed oxidation of aliphatic amines by bromamine-T in hydrochloric acid medium: A kinetic study.Synthesis and reactivity in inorganic and metal organic chemistry (1997) (USA) 27 (8 1093-1113, 1997 presented at 8th International) conference on Bioinorganic chemistry, Yokohoma, Japan.S. Ananda*, M.B. Jagadeesha, Puttaswamy and N.M. Made Gowda.
- Kinetics of oxidation of cysteine by Bromamine-T in H2SO4 medium. Journal of Chemistry Vol. 10 No. 4 (1998) 937-946.M.B. Jagadeesha, S. Ananda*, M.G. Ramanand
- Ruthenium (III) catalyzed kinetics of oxidation of primary alcohols by (Bromamine-B) in hydrochloric acid solution. ynthesis and reactivity in inorganic and metal organic chemistry 28(4), 649-667 (1998), (USA).S. Ananda*, T. Demappa, Puttaswamy.
- Oxidation of Aspirin by N-sodio-bromabenzene sulphonamide (Bromamine-B) in acid medium: A kinetic and mechanistic study. Asian Journal of Chemistry, Vol. 11, No. 1 (1999) 23-28.
- Kinetics of Ru(III) catalyzed oxidation of amides by Sodium N-bromotoluene sulphonamide in hydrochloric acid solution. Synthesis and reactivity in inorganic and metal organic chemistry 29(1) 1-21 (1999), USA. S. Ananda*, M.B. Jagadeesha, K.M. Loknath Rai and N.M. Made Gowda
- Kinetics and mechanism of oxidation of O-Toluidine by Sodium N-chlorobenzene sulphonamide (chloramines-B) in acid medium. Asian Journal of Chemistry Vol. 11, No. 4 (1999) 1348-1352. M.G. Ramananda and S. Ananda*
- Oxidation of cysteine by sodium N-chlorotoluene sulphonamide (chloramines-T) in HclO4 and H2SO4 media : A kinetic and mechanistic

study. Oxidation communications 22, No. 2, 464-472 (1999), Bulgeria. Ravi J.D. Saldhana, S. Ananda*, B.M. Venkatesha, M.B. Jagadeesha

- Oxidation of para-methobenzaldehyde and salicylaldehyde by N-sodio-N-chlorobenzene sulphonamide (chloramines-B) in acid medium: A kinetic and mechanistic study. Asian Journal of Chemistry, Vol. 11, No. 4 (1999) 1271-1275. Revathi S.K., Rangaswamy and S*, Ananda.
- Kinetics and mechanistic study of oxidation of Diethylamine by N-Sodio-N-bromobenzene sulphonamide (bromamine-B) in acid solution: Catalyzed by Ru (III). International Journal of Chemical Kinetics 31; 744-752, 1999, USA. S.Ananda*, Ravi J.D. Saldanha, K.M.L. Rai, B.M. Venkatesha.
- Kinetics and mechanism of oxidation of methionine by chloramines-T in alkaline medium in presence of OsO4 catalyst. Asian Journal of Chemistry Vol. 11, No. 2 (1999) 376-383. T. Demappa and S. Ananda*
- Oxidation of some primary amines by bromamine-T in alkaline medium Transactions of Illinois State academy of science, Vol. 93, (2000) USA. S. Ananda*, T. Demappa and N.M. Made Gowda.
- Oxidation of methionine by sodium-chlorobenzene sulphonamide in hydrochloric acid medium : A kinetic study. Asian Journal of Chemistry, Vol. B, Vol. 2 (2001) 543-549. S. Ananda* and M.G. Ramananda
- Oxidation of aliphatic primary amines by bromamine-B in hydrochloric acid medium in the presence of Ru(III) catalyst : A kinetic and mechanistic study. Oxidation communications 23, No. 4, 576-589(2000), Bulgaria. S. Ananda*, Ravi J.D. Saldanha and B.M. Venkatesha
- Kinetic and mechanistic studies of aliphatic amines oxidation by sodium-N-bromo-p-toluene sulphonamide in hydrochloric acid medium. International Journal of Chemical Kientics, 32 (12) 776-783 (2000). USA. S. Ananda*, M.B. Jagadeesha, Puttaswamy, B.M. Venkatesha and N.M. Made Gowda.
- Oxidation of Psychotropic drugs by Chloramine-T in acid medium: A kinetic study using spectrophotometry Ravi. J. D. Saldana, S. Ananda*., B. M. Venkatesha., N. Madegowda Journal of molecular structure 9(2001) USA.
- Hydrothermal crystallization and electrical conductivity of aluminophosphate zeolites. Indian Journal of Physics, 75A(2) 113-115 (2001). B.V. Suresh Kumar, K. Byrappa, S. Ananda* and K.M.L. Rai.

- Oxidation of Psychotropic drugs by bromamine-B in acidic buffer: A kinetic study using spectrophotometry.Synthesis and reactivity in inorganic and metal organic chemistry, Vol (09), 763-1647 (2001), USA. S. Ananda*, M.G. Ramananda and N.M. Made Gowda
- Oxidation of methionine by N-chlorobenzene sulphonamide in hydrochloric acid medium : A kinetic study. Mallamma, S. Ananda* and Rangaswamy Asian J. Chem., 13, 543 (2001).
- Ru(III) catalyzed oxidation of DPSO by N-Sodio-N-bromobenzene sulphonamide in hydrochloric acid. A kinetic study.Mallamma, Rangaswamy, S. Ananda* and N.M. Madegowda Synth React Inorg Mat-Org Chem; 31, 1479(2001).
- Oxidation of cysteine by bromamine-B in H2SO4 and HclO4 media : A kinetic and mechanistic study.Mallamma, Rangaswamy and S. Ananda*, J. Indian Council of Chemists, 18, 12 (2001).
- Kinetics and mechanistic study of oxidation of phenylacetic acid by bromamine-B in acid solutions catalysed by Ru(III).Mallamma, Rangaswamy and S. Ananda* Oriental J. Chem., 18, 37(2002).
- Pd (II) catalysed oxidation of mandelic acid by bromamine-B in hydrochloric acid solution : A kinetic study. Mallamma, S. ananda*, Rnagaswamy and N.M. Made Gowda. Oxidation comm.. 26, 250(2003).
- Kinetic and Mechanistic studies of Pd(III) catalysed oxidation of some x-hydroxy acids by sodium N-bromo benzene sulphonamide in hydrochloric acid solutions. Mallamma, S. Ananda*, Rangaswamy and N.M. Made GowdaSynth React Inorg Met-org Chem, ..., (2003)
- Oxidation of p-methoxy benzaldehyde and salicyladehyde by chloramines-B in acid medium : A kinetic and mechanistic study. S.K. Revathi, Rangaswamy and S.Ananda* Asian J. Chem, 11, 1271 (1999)
- Kinetics and mechanism of Ru(III) catalysed oxidation of phenyl acetic acid by chloramines-B in acid medium S. Ananda* and M.H. Kondorasaiah Asian Journal of Chemistry Vol. 14, No. 2, 2002, 651-665.
- Hydrothermal synthesis and characterization of RVPI-5 where R=Ce and Gd. Asian Journal of Chemistry Vol. 14, No. 3, 2002.
- Ruthenium (III) catalyzed oxidation of dimethyl sulphoxide by chloramines-B in Hydrochloric acid medium : A kinetic study. M.H. Kondarasaiah, S.

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- Impregnation of ZnO onto activated carbon under hydrothermal conditions and its photocatalytic properties. K. Byrappa, A.K. Subramani, S. Ananda*, K.M. Lokanatha Rai, H.M. Sunitha, B. Basavalingu, K. Soga J. Mater Sci 41 (2006), 1355-1362.
- Synthesis and characterization of calcium aluminium silicate hydroxide (CASH) mineral. K. Byrappa, M.K. Devaraju, P. Madhusudan, A.S. Dayananda, B.V. Sureshkumar, H.N. Girish, S. Ananda*, K.M.L. Rai, P. Javeri J. Mater Sci 41(2006), 1395-1398 (Springer Science)
- Hydrothermal preparation of neodymium oxide coated titania composite designed particulates and its application in the hotocatalytic degradation of Procion red dye. K. Byrappa, M.H. Sunitha, A.K. Subramani, S. Ananda*, K.M.L. Rai, B. Basavalingu, M. Yoshimura J. Mater Sci 41(2006), 1369-1375 (Springer Science).
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- Zeolite (AIPO4-5) inhibition of D-glucose oxidation by Sodium-N-Chlorobenzene Sulphonamide (Chloramine-B) in NaOH medium: A kinetic study S. Ananda*, K.B. Sudharani, B.V. Suresh Kumar, K. Byrappa Bulgarian Chemical Communications 38(2006), No 4, 255-262

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- Photocatalytic degradation of Indigo Carmine dye using TiO2 as impregnated activated carbon. A. K. Subramni, K. Byrappa., S. Ananda., K. M. L. Rai., C. Ranganathaiah., . M. Yoshimura Bull. Mater. Sci., 30 (2007) No 1, 1-5 1.Hydrothermal preparation of TiO2: AC composite crystalline particulates A. K. Subramani, K. Byrappa, R. Dinesh, K.M.L. Rai, S. Ananda*, Y. Yoshimuar Acta Cryst. A61, C118 (2005)
- Hydrothermal crystallization and characterization of R+3: AlPO4 zeoliotes, where R= Ce, Pr and Nd. K. Byrappa, B.V. Suresh Kumar, C. Ranganathiah, R. Somashekar, R. Dinesh, K.M.L. Rai and S. Ananda* Acta Cryst. C382 (2005)
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- Synthesis, Characterization and Antioxidant activity evaluation of Pyridoxine and its Transition metal complexes. G. Chaitanya Lakshmi, S.Ananda*, Netkal M. Made Gowda Synthesis and reactivity in inorganic and metal organic chemistry, 41;413-424, (2011).
- Synthesis of Iron-Pyridoxine complex by solvothermal process, its structural characterization and Antioxidant activity evaluation, Journal of Chemistry and Chemical engineering, Vol.4, NO. 12, (Serial No. 37), (2010).
- In-Situ Surface Modification of Molybdenum Doped TiO2 Organic-Inorganic Hybrid Nanoparticles under Hydrothermal Conditions and Treatment of Pharmaceutical Effluent Bhezad Shamahrodi, K.Byrappa, S.Ananda* Environmental Technology, 31(11);1213-1220, (2010).
- Solvothermal Synthesis of the Surface Modified Manganese Doped TiO2 Nanoparticles for Photodegradation of Cibacron Brilliant Yellow 3G-P Bhezad Shamahrodi, K.Byrappa, S.Ananda* IEEE Transactions on Nanotechnology, (2011).
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- In vitro antioxidant and free radical scavenging activities of Mukia Maderaspatana (Linn) M. Roem, B. R. Srilatha, S. Ananda*, Journal of Pharmacy Research, 5(6), 3296-3303, (2012).
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- Synthesis of ZnO/MgO nano composites by electrochemical method for photocatalytic degradation of Eosin Yellow dye, International Journal of Nano Science and Nano Technology, G. Chaitanya Lakshmi, S.Ananda*, Somashekar, Ranganathaiah, (2012).
- Synthesis of ZnO/ZrO_2 nano composites by electrochemical method and its application for photocatalytic degradation of Fast green FCF dye and paper dyeing and printing press effluents, International Journal of Material Science, G. Chaitanya Lakshmi, S.Ananda*, Somashekar, Ranganathaiah, (2012).
- Electrochemical Degradation of Indigocarmine Dye at Ru-doped Platinum Anode in Aqueous Solution, Sowbhagya, S. Ananda* and Rakesh,

International Journal of Applied Chemistry, Volume 8, Number 2 (2012) pp. 141-152.

- Synthesis, characterization of ZnO:Cu nanocomposites and photocatalytic degradation of Cibacron brilliant yellow dye and textile dyeing industry effluent,(communicated)
- Synthesis, characterization of ZnO/SnO_2 nanocomposites and photocatalytic degradation of Rhodamine B, (communicated)
- Synthesis, characterization of Ag-RuO_2nanocomposites and photocatalytic degradation of Fast green dye and parathion pesticide, (communicated)