**Dr.S.Ravichandran, M.Sc., Ph.D.,**



## (Anna, Bharathiar & Lovely Professional University Research Guide)

Professor in Chemistry,

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* **Google Scholar ID** : <https://scholar.google.co.in/citations?user=ZJE6f_kAAAAJ&hl=en>
* **URL ID**: <https://livedna.org/91.26040>
* **Linkedin ID** : <https://www.linkedin.com/in/dr-subramanian-ravichandran-53943433>
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* **Publons link** : <https://publons.com/researcher/1871288/ravichandran-chandran-subramanian/>

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| **Professional Highlights** | * A chemical educator with excellent academic background with **17 years of Teaching** and **Research** experience.
* Knowledgeable in research areas of Inorganic and Organic chemistry. Expertise in handling instruments like UV-Vis and IR spectrophotometer.
* Teaching at both undergraduate and postgraduate levels. Handled courses like general chemistry, Engineering Chemistry, modern analytical chemistry, Environmental science, Instrumental methods of analysis.
* Interested in Chemistry related activities.
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| **Number of Publications** | **Research Papers: 121****Research papers presented in conferences : 36****Text Books and Book Chapters published : 05 and 01****Patent published : 04****Ph.D.Guided/Guiding : 02 (Bharathiar University, Tamilnadu)/ 08 (Lovely Professional University, Punjab).** |
| **Educational Qualifications** | Ph.D. degree awarded on 23rd February-2006*,* Madurai KamarajUniversity, Madurai**, “Synthesis and Characterization of some metal chelates and their antimicrobial activity”** |

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| **Career History** | M.Sc(Chemistry):***1994–1996,PondicherryUniversity, Pondicherry*****CGPA**: 6.77 /10 **(67.7%)**B.Sc(Chemistry): ***1991–1994,* VivekanandaCollege*,* Madurai Kamaraj University, Madurai*.* Percentage**: **78.41% *(First Class with Distinction)**** July 2018- Till date : **AssociateProfessor, Chemistry Dept., Lovely Professional University, Phagwara, Punjab .**
* June 2017- April 2018: **AssociateProfessor, Chemistry Dept., Sreevidyanikethan Engineering College, Tirupati.**
* July 2016- June 2017: **Professor and Head, Chemistry Dept.,Sanskrithi School of Engineering, Puttaparthi, Andhra Pradesh.**
* February 2011- June 2016: **Associate Professor, Chemistry Dept.,Vel Tech University, Avadi, Chennai.**
* May 2010- January 2011 :**Assistant Professor, Chemistry Dept.,Saveetha University, Chennai.**
* April 2009- April 2010 :**Assistant Professor, Chemistry Dept., Sri Venkateswara College of Engineering, Chennai.**
* December 2008- April 2009 :**Assistant Professor, Chemistry Dept.,GalgotiasCollegeofEngineeringandTechnology,Greater Noida, New Delhi.**
* May 2008-December 2008:**Senior Lecturer, Chemistry Dept., RMK College of Engineering and Technology,Chennai.**
* January 2006-April 2008: **Lecturer, Chemistry Dept.,**

**St.Peter’sEngg. College, Avadi, Chennai.** |

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|  | * January 2005- Nov 2005: **Lecturer, Chemistry Dept., The American college,Madurai**.
* 1997-2000: **Project Assistant**sponsored by **SumitraPharmaceutical Chemical Laboratory**, School of Chemistry, University ofHyderabad.
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| **Academic Distinctions** | * Received the Prestigious **Bharat Shiksha Ratan**National award for academic excellence by the Global Society for Health and Educational Growth, **New Delhi** on 27th February2012.
* Received the **Life Time Education Excellence** National award with medal from All India Business Development Association, **New Delhi** on 29thApril 2013.
* Received the admirable **Outstanding Scientist Award** with medal from VD Good, Professional Associationin the 6th International Scientist Awards on Engineering, Science and Medicine on 20 & 21June-2020 in **Chennai**.
* Received the award of Academic Excellence by Arab Translators Association, Bahrain on 24th November 2021 in recognition of research publications achievement.
* Received the **Life Time Achievement Award** with medal from Blue Bird Welfare Association, Prayagraj in a National Conference on Recent Trends in Science, Technology and Management conducted by Madhu Vachaspati Institute of Engineering and Technology, Kaushambi (UP) on 13th February 2022.
* Qualified in **GATE** (**National Level Exam**) in 1998 conducted by Ministry of Human Resource Development with a score of **95percentile**.
* Participated in **DST sponsored Winter School** on Bio-Inorganic chemistry held in the Department of Chemistry, **Bharathidasan University,** Tiruchi from November 25 to December 07,2002.
* Selected and participated in the **three day DST sponsored Workshop** on Bio-Inorganic chemistry held at **Indian Institute of Science**, **Bangalore** during 20-22 October2005.
* Participated in the training program on **Instructional Design and Delivery** sponsored by **National Institute of Technical Teachers training and Research** conducted by St.Peter’sEngg. College, Chennai from 10thto 15th July2006.
* Participated in the training programme on **Innovative Educational Skills** by **Max Academy for Excellence** conducted by RMK College of Engg.& Tech, Chennai on 2nd September2008.
* Life membership (**L36754**) in Indian Science Congress Association, Kolkata.
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| Editorial Board member: * International Journal of Chem Tech and Research
* Progress in Chemical and Biochemical Research
* International Journal of Chemistry, Pharmacy and Technology
* International Journal of Fundamental of Science and Engineering Research
* Advanced Organic Chemistry Letters
* American Journal of Applied Chemistry
* Current Research in Chemistry
* International Journal of Green Chemistry
* International Journal of Environmental Chemistry
* Research Journal of Environmental Sciences
* Academic Journal of Chemistry
* International Journal of Analytical and Applied Chemistry
* International Journal of Chemical Synthesis and Chemical Reactions
* International Journal of Interdisciplinary Engineering
* International Journal of Interdisciplinary Science
* Journal of Emerging Technology and Innovative Research
* Journal of Innovations in Pharmaceutical and Biological Sciences
* Acta Scientific Agriculture
* Journal of Applied Science
* Asian Journal of Research in Chemistry
* Global Science Research Journals
* Bio Technology: An Indian Journal
* International Journal of Chemical Science
* International Journal of Pharma and Bio Sciences
* Indian Journal of Science and Technology
* International Journal of Scientific Research and Review
* VIT Press International Journal of Environmental Science
* International Journal of Chemistry and Applications

Editor-in Chief:* **International Journal of Green Chemistry**
* **International Journal for Research in Applied and Natural Science**
* **International Journal of Sustainability**
* **International Journal of Clinical Biochemistry and Research**
* **International Journal of Applied Science Research**
* Acta Scientific Environmental Sciences
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| **Current area of research work** | * Synthesis of Mannich and Schiffbases
* Complexation with metal ions like Cu(II), Co(II) andNi(II)
* Structural characterization using spectroscopic techniques like UV-Vis., IR, 1H NMR, CV andEPR
* Chromatography: column and thin layerchromatography
* To focus on the development of novel greener methodology.
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| **Papers Published in Refereed Journals** |
| 1. A new Approach to the Synthesis of Chromene Derivatives,**S.Ravichandran,**

Synth.Commun., **31**(8),1233-1235, 2001.1. A Facile one-pot synthesis of methyl (2E)-2-methylalk-2-enoates from Baylis-Hillman adducts under Microwave irradiation, **S.Ravichandran,**Synth.Commun., **31**(13), 2055-2058,2001.
2. A Facile Stereo selective Synthesis of (E) –and (Z)-allyl Bromides from the Baylis-Hillman adducts using MgBr2,

**S.Ravichandran,** Synth.Commun., **31**(13), 2059-2062, 2001.1. Facile Synthesis of (E) - α -Cyanocinnamicaldehydes from Baylis-Hillman adducts, **S.Ravichandran,** Synth.Commun., **31**(14), 2185-2188,2001.
2. Application of TMSOTf in the Baylis-Hillman adducts,**S.Ravichandran,**

Synth.Commun., **31**(15), 2345-2350, 2001.1. Synthesis of 2,4-dinitrophenylhydrazone Derivatives of Cu(II), Co(II),Ni(II) Complexes of β-diketones/β-ketoesters and Their Antimicrobial Activities, N.Raman, **S.Ravichandran** and A.Kulandaisamy, Asian J. Chem, **14**(3), 1261- 1264, 2002.
2. Synthesis,Characterisation and Antibacterial Activity of Metal Complexes ofN

-(1-piperidinobenzyl)nicotinamide, N.Raman and **S.Ravichandran**, Asian J. Chem,**14**(3),1551-1555, 2002.1. Synthesis and Antimicrobial Activity of SubstitutedN-(1- piperidinobenzyl)nicotinamide:A Structure-ReactivityStudy,

N.Raman and **S.Ravichandran**, Asian J. Chem,**14**(3),1766-1768, 2002. |

1. Synthesis,Characterisation and Antibacterial Activity of Metal Complexes ofN

-(1-morpholinobenzyl)acetamide, N.Raman and **S.Ravichandran**, Asian J. Chem,**15**(1), 255-259, 2003.

1. Effect of substituents on N-(1-piperidinobenzyl)acetamide and N-(1- morpholinobenzyl)acetamide and their antimicrobialactivity,

N.Raman and **S.Ravichandran**, Asian J. Chem, **15**(3),1848-1850, 2003.

**11**. Synthesis ,Characterization and electrochemical behaviour of Cu(II),Co(II) Ni(II) and Zn(II)Complexes derived from acetylacetone and p-anisidine and their antimicrobial activity. N.Raman ,V.Muthuraj, **S.Ravichandran** and A.Kulandaisamy, Proc.Indian Acad.Sci(Chem.Sci), **115**,161-167, 2003.

**12**. Copper(II),Cobalt(II),Nickel(II) and Zinc(II) complexes of Schiff base derived from benzil 2,4-dinitrophenylhydrazone with aniline, N.Raman, **S.Ravichandran**and C.Thangaraja, J. Chem. Sci ., **116**, 215-219,2004.

**13**. Synthesis and structural characterization of some transition metalcomplexes of piperidinobenzyl semicarbazide and their antibacterial study,N.Ramanand **S.Ravichandran,** Int. J.Chem.Sci., **2**, 489-494, 2004.

**14**. Studies on Schiff Base Complexes of β-diketones/ β-ketoesters with 2,4 – dinitrophenylhydrazone and their antimicrobial activities, N.Raman and **S.Ravichandran,** Polish J.Chem., **78**, 2005-2012,2004.

1. Synthesis,Characterization and Antibacterial activity of a New MannichBase, N-(1-piperidinibenzyl)benzamide and it’s Transition Metal(II) Complexes, N.Raman and **S.Ravichandran**, Int. J. Chem.Sci.,**2**(2),191-198,2004.
2. New neutral Schiff base and its metal complexes derived from Mannichbase, N-(1-morpholinobenzyl)acetamide,N.Raman and **S.Ravichandran,** Polish J. Chem**.,79**, 1107-1114,2005.
3. Pyridiniumhydrobromideperbromide as a brominating agent for the bromination of metal(II) complexes of Schiff base derived from acetylacetone and p-anisidineN.Raman, V.Muthuraj and **S.Ravichandran**, J. Indian Chem. Soc., **82**, 443 - 444,2005.
4. Synthesis and characterization of a new Schiff base and its metal complexes derived from the Mannich base, N-(1-piperidinobenzyl)acetamide, N.Raman and **S.Ravichandran**, Synth. React. Inorg.Met.Org.Nano-Metal Chem., **35**(6), 439 - 444, 2005.
5. Microwave assisted solvent free synthesis of substituted chromene, C.Meenakshi and **S.Ravichandran,** Int.J.Chem.Sci., 4(1), 125-126,2006.
6. Studies on Schiff base complexes of salicylaldehyde with sulphamethoxazole and their antimicrobial activities, C.D.Sheela,A.Gomathi, **S.Ravichandran**andP.Tharmaraj, Polish J.Chem., **80**, 1781-1787,2006.
7. Synthesis, characterisation and antibacterial activity of metal complexes derived fromMnnich base, N-[1-piperidino(4-nitrobenzyl)]semicarbazide, AmaliRoselineEmelda, N.Jeyachandramani and **S.Ravichandran**, Int. J.Sci. 25-32,2007.
8. Synthesis, characterisation and antibacterial activity of Cu(II), Co(II),Ni(II) a and Zn(II) complexes derived from Mannich base and1,2-diaminobenzene,AmaliRoselineEmelda, N.Jeyachandramani and **S.Ravichandran**, Int.J.Chem. Sci.,**5(1)**, 85-90, 2007.
9. Synthesis, characterisation and antibacterial activity of metal complexes derived from Mannich base, N-[1-piperidinobenzyl)]acetamide and 1,2- diaminobenzene,AmaliRoselineEmelda, N.Jeyachandramani and **S.Ravichandran**, Int. J. Chem. Sci.,**5(1)**, 175-180, 2007.
10. Synthesis, Characterisation and Antibacterial Activity of metal complexes derived from the Mannich base, N-[(1-piperidino(4- nitrobenzyl)]acetamide, AmaliRoselineEmelda, N.Jeyachandramani and **S.Ravichandran**, Int. J. Chem. Sci.,**5(2)**, 509-514,2007.
11. Synthesis, characterization and antimicrobial activity of Cu(ll),Co(ll),Ni(ll) andZn(ll)complexes derived from a new Mannich base, N-(1- morpholinobenzyl)benzamide and 1,2-Diaminobenzene, Amali RoselineEmelda, N.Jeyachandramani and **S.Ravichandran**, Asian J.Chem.,**20**(1), 337-342 ,2008

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1. Facile synthesis of Mikanecic acid diesters from Baylis-Hillman adducts, **S.Ravichandran** and AmaliRoselineEmelda, Int. J. Chem. Sci.,**5(3)**, 1216-1218, 2008.
2. Microwave assisted synthesis of some Mannich bases, **S.Ravichandran,**AmaliRoselineEmelda and N.Jeyachandramani, Int. J. Chem. Sci.,**5(3)**, 1258-1262,2008.
3. Synthesis, characterization and antimicrobial study of a Mannich base, N-(1- piperidinobenzyl)benzamide and its transition metal(II) complexes with 1,2- Diaminobenzene, AmaliRoselineEmelda, N.Jeyachandramani and **S.Ravichandran**, Asian J. Chem.,.**20**,2485-2490,2008.
4. Montmorillonite K 10 clay catalyzed microwave synthesis of Mikanecicacid diesters from Baylis-Hillman adducts, **S.Ravichandran,** K.Subramani and R.Arun Kumar, Int. J. Chem.Sci., **6(4)**, 1800-1803,2008.
5. Microwave assisted solvent free Friedlander synthesis of1,8-naphthyridines, **S.Ravichandran,** K.Subramani and R.Arun Kumar, Int. J. Chem.Sci., **7(2)**, 993- 996, 2009.
6. Synthesis of some Chromenederivatives,**S.Ravichandran,** K.Subramani and R.ArunKumar,Int.J. Chem.Tech.,**1(2)**, 329- 331, 2009.
7. Montmorillonite K-10 clay catalyzed microwave synthesis of some Mannich bases and their characterization,R.ArunKumar**,** K.Subramani and **S.Ravichandran**,Int.J.Chem.Tech.,**2(1)**,278- 281, 2010.
8. Calcium chloridecatalyzed microwave synthesis of some Mannich bases and theircharacterization,**S.Ravichandran**, Int.J. Chem.Tech.,. **2(4)**, 2182-2184, 2010.
9. Green Chemistry-A potential tool for chemicalsynthesis,

**S.Ravichandran**, Int.J. Chem.Tech.,. **2(4)**, 2188-2191, 2010.

1. Microwave Synthesis - A Potential Tool for Green Chemistry, **S.Ravichandran** and E.Karthikeyan, Int.J. Chem.Tech.,. 3**(1)**, 466-470, 2011.
2. Nanomaterials and its potentialapplications,

K.Arivalagan, **S.Ravichandran**, K.Rangasamy and E.Karthikeyan, Int.J. Chem.Tech.,. **3(2)**, 534-538,2011.

1. Studies on Estimative Methods and their Role in Artificial Ground Water Recharge, Leena Singh and **S.Ravichandran**, Int.J. Chem.Tech.,. **3(1)**, 435-440, 2011.
2. Synthesis, Characterisation and Antibacterial activity of Mannich base, N- [(1-piperidinobenzyl)]benzamide:AStructure and ReactivityStudy,**S.Ravichandran**andS.Sathishkumar, Asian J. Biochem. Pharm. Res., **1(2)**, 136-141,2011.
3. Green Chemistry for Sustainable Development,**S.Ravichandran**,Asian J. Biochem. Pharm. Res., **1(2)**, 129-135,2011.
4. Selective Techniques in Artificial Ground Water Recharge through Dug well and Injection well methods, **S.Ravichandran**, S.Sathish Kumar and Leena Singh, Int.J. Chem.Tech.,. **3(3)**, 1050-1053, 2011.
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**S.Ravichandran**, Int.J. Chem.Tech.,. **3(3)**, 1040-1049, 2011.

1. Innovation in Green Chemistry, **S.Ravichandran**, Int.J. Chem.Tech.,. **3(3)**, 1511-1513, 2011.
2. Perspectives and fate of Green Chemistry, **S.Ravichandran**, Int.J. Chem.Tech.,. **3(4)**, 1882-1885,2011.
3. GroundwaterqualityassessmentinCheyyarregion,S.SathishKumarand

**S.Ravichandran**, Int.J. Chem.Tech.,. **3(3)**, 1060-1063, 2011.

1. Studies on Nanostructured ZnO thin films deposited by spray pyrolysis, R.S.Gaikwad, R.S.Mane, B.N.Pawar ,**S.Ravichandran,** S.H.Han, O.S.Joo and V.Sudhakar, Asian J. Biochem. Pharm. Res., **1(3)**, 391-398, 2011.
2. Spectrophotometric determination of Cu (II)and Ni (II) using 4- hydroxybenzaldehydethiosemicarbazone, K.P.Satheesh, **S.Ravichandran** and V.SuryanarayanaRao, Int.J. Chem.Tech.,. **3(4)**, 2002-2005, 2011.
3. Spectrophotometric Determination of Traceamounts of Molybdenum(VI) using 4-Hydroxybenzaldehydethiosemicarbazone, K.P.Satheesh, **S.Ravichandran**, V.SuryanarayanaRao and N.Devanna, Int.J. Chem.Tech.,. **3(4)**, 1740-1746,2011.
4. Sustainable technology beckons, **S.Ravichandran,**Process India, **1(6),** 43-47, 2011.
5. Possible natural ways to eliminate toxic heavy metals, **S.Ravichandran**, Int.J. Chem.Tech., **3(4)**, 1886-1890,2011.
6. Transition metal complexes of Isonicotinoylhydrazone-4- diphenylaminobenzaldehyde:Synthesis, characterization and antimicrobial studies, L.Mtu, M.Ilis, N.Raman, M.Imran and **S.Ravichandran** , E-J Chem., **9(1)**, 365-372,2012.
7. Synthesis, characterization and antimicrobial activity of metal complexes derived from Mannich base, N-(1- morpholino(4-nitrobenzyl)acetamide, M.Petchiammal, S.Ravichandran and L.Singh, Int. J. Chem. Tech. Res, **6**(7), 3680 (2014).
8. Green Chemistry: The Future Pillars, **S.Ravichandran** and Leena Singh Int.J. Chem.Tech., **6(1)**, 147,2014.
9. Synthesis, characterization and antimicrobial activity of metal complexes derived from Mannich base, N-(1- morpholino(4-nitrobenzyl)abenzamide, M.Petchiammal, **S.Ravichandran** and L.Singh, Int. J. Chem. Tech. Res, **7**(1), 287-292 (2015).
10. Metal complexes of Mannich base: synthesis, characterization, electrochemical behaviour and antimicrobial activity, M.Pechiammal and S.**Ravichandran,** Int.J. Chem.Tech.,8(2), 778-782,2015.
11. Metal complexes of schiff base derived from a new mannichbase, S.**Ravichandran** and C.Murugesan, Int.J. Chem.Tech.,8(2), 937-943,2015.
12. Clean India: The Green Chemistry approach, **S.Ravichandran** and Sathya Satheesh, Int.J. Frontiers in Sci&Tech., **3(1)**, 94-99,2015.
13. Synthesis, characterization and screening of antimicrobial activity of metal complexes derived from the Mannich base, N-(1- morpholino(4-diphenylaminobenzyl)acetamide, **S.Ravichandran** and C.Murugesan, Int. J. Chem. Tech. Res, 8(12), 435-441 (2015).
14. Synthesis, characterisation and antibacterial activity of Cu(II), Co(II),Ni(II) and Zn(II) complexes usingMannich base ligand, **S.Ravichandran** and C.Murugesan, Asian J. Chem., 28(6), 1281-1284,2016.
15. Synthesis, characterization and antimicrobial activity of metal complexes derived from Mannich base, N-(1-pyrrolidinobenzyl)semicarbazide, **S.Ravichandran** and M.Petchiammal, Int. J. Chem. Tech. Res, **10**(10),267-269 ,2017.
16. Synthesis, characterisation and antimicrobial activity of Mannichbase derived from pyridine-3-carboxaldehyde and its metal complexes S.**Ravichandran** and C.Murugesan, Int.J. Chem.Tech.,10(13), 307-310, 2017.
17. Synthesis, spectral characterisation and antibacterial activity ofmetal complexes derived from the Mannich base N-(1- piperidino(4- methoxybenzyl)acetamide, M.Pechiammal and S.**Ravichandran,** Int.J. Innovative Res & Adv Studies, 4(5), 229-232,2017.
18. Environmental pollution control through Green Chemistry, S.**Ravichandran**,Int.J. Chem.Tech.,11(10),293-297,2018.
19. Synthesis, characterization and antibacterial activity of Pyrrolidine based Mannich base ligand and its metal (II) complexes, S.**Ravichandran**and M.Petchiammal, Int.J. Chem.Tech.,11(7), 12-16,2018.
20. Food adulteration has taken away the joy of Life, S.**Ravichandran**, Int.J. Med Pharm Res.,4(1), 4-9,2018.
21. The Effect of Diesel Blended With Olive Oil, S.Shanmugan and **S.Ravichandran**,

International Journal of Research and Analytical Reviews, 5(4), 69-72, 2018.

1. Importance of Microwave heating in organic synthesis, Sumitra Nain, Ruchi Singh and S.**Ravichandran,** Adv. J. Chem.Section A.,2(2),94-104,2019.
2. Plastics Awareness for Sustainable Development, S.**Ravichandran,**

BioTechnology: An Indian Journal, 15 (1), 1-4, 2019.

1. Efficient One-Pot Three-Component Mannich Reaction for the Synthesis of Barbituric Acid, S.**Ravichandran** and C.Murugesan,BioTechnology: An Indian Journal, 15 (1), 186-189, 2019.
2. Synthesis, characterization and antibacterial activity of Cu(II), Co(II),Ni(II) and Zn(II) metal complexes of Schiff base derived from a new Mannich base, N-(1- morpholino(4-diphenylaminobenzyl)acetamide, **S.Ravichandran** and C.Murugesan, Int. J.Sci. Res.&Rev., 8(1), 1042-1055 (2019).
3. Removal Of Nitrate In Water Using Orange Peel Powder: Colorimetry Study,Ashish Kumar, Vikash and **S.Ravichandran**,Journal of the Gujarat Research Society, 21(8),1230-1233, 2019.
4. Effective removal of cadmium in water using powdered orange peel, **S.Ravichandran,** Plant Archives, 20(2), 3208-3210, 2020.
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1. Cost Effective and Natural Plant Based Coagulant for Removal of Chloride

from Potable Water, C.Thamaraiselvi, S.Asaithambi, S.Nanthini, M.Vasanthy, **S.Ravichandran** and S.R.Bosein, Asian J. Chem., 32(4), 871-875,2020.

1. Synthesis and Characterization of Cu- Zr doped Strontium penta ferrites by

Sol-Gel Method, **S.Ravichandran,** Ashish Kumar and Sanghamitranath,

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1. Heavy Metal Removal using Cysteine Adsorbents : A short review, S.Suresh

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3. Global control epidemiology of Covid-19 : Synthesis, Characterization and antibacterial screening of Silver nanoparticles with citrus aurantifolia, S.Shanmugan, Shiva Gorijan, **S.Ravichandran,** Hitesh Panchal, F.A.Essa and A.E.Kabeel,J.of Xidian University, 14(4),3327-3341, 2020.
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9. Sustainable development through less carbon emission, **S.Ravichandran** and C.U.Tripura Sundari, Int.J. Green Chem., 6**(1)**, 30-35, 2020.
10. Existing pollutants reaching the Ganga river: A mini review, **S.Ravichandran** and Sangeeta Agarwal, Int.J. Env. Chem., 6**(1)**, 47-50, 2020.
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14. Review on harmful effects of air pollution, Nidhi Sharma, R.M.Madhumitha Sri and **S. Ravichandran,**IP Journal of Urology, Nephrology and Hepatology Science,4(1), 1-3,2021.
15. Benefits of Green Chemistry,R.M.Madhumitha Sri, **S. Ravichandran** and T.B.Suneetha,Int. J Clinical Biochem. Res., 8(1), 70-72,2021.
16. An overview of pollution studies on Gomti river,Preeti Yadavand**S. Ravichandran**,Int. J Clinical Biochem. Res.,8 (2), 96-99,2021.
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# Details of patents

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| S.No | Patent Title | Name of Applicant(s) | Patent No. | Award Date | Agency/Country | Status |
| 1 | Fluoride removal in potable water by Fluidized bed reactor using pyrolized delonix regia pod carbon (**PDPC**) | Dr.M.Angelina Thanga Ajisha,Dr.K.Rajagopal,**Dr. S. Ravichandran**, Dr.J.Jaslin Christopher, Dr. N. Muthukumaran and Dr. S.R.Boselin Prabhu | 201941029299 A | 09/08/2019 | India | Published |
| 2 | A Robot with automated technology capable of recovering children trapped inside abandoned bore wells  | Dr. N. Muthukumaran, Dr. T. Vinothkumar,Dr. A. Gnana Saravanan, Dr. R. Kabilan,Dr. S.R.Boselin Prabhu, Dr. **S. Ravichandran**, Dr.S.Chidambaranathan, S. Arun and R. Meby Selvaraj | 201941054379 A | 10/01/2020 | India | Published |
| 3 | Secure and reliable smart E-voting system using Aadhar card | Dr. N. Muthukumaran,Dr. C Mythili,**Dr. S.Ravichandran**,Dr. S.R.Boselin Prabhu, Dr.S.Chidambaranathan, Dr.T. Jarin, Dr.S.S.Sreeja Mole, Dr. A. Neela Madheswari, Dr. R. Vasanthi,Mr. R. Kabilan, Mr. T.Vinoth Kumar, Mr. S. Esakki Rajavel and Mr. P. Kannan | 201941018956 A | 24/05/2019 | India | Published |
| 4 | Entropy based image retrieval method for faster retrieving of images | Mrs.K.Saraswathi Dr.R.Reka Dr. Anil Lamba Dr.S.ShanmuganDr. S. R. Boselin Prabhu Dr. Prasad Janga**Dr.S. Ravichandran** Dr.S.Chidambaranathan Dr. N. Muthukumaran | 202041028523A | 17/07/2019 | India | Published |

# Details of Books Publication

* + Dr.PrasantaRath (KIIT University, Bhubaneswar-Odissa) on **Engineering Chemistry**in Cengage Learning, India Private Limited, New Delhi(2015)
	+ Dr.RaviKrishnan (Anna University,Chennai and Dr.Leena Singh, Delhi University) on **Environmental Studies**in Sri Krishna HiTech Publishing Company, Hyderabad(2016) ISBN978-93-85364-77-8.
	+ Dr.RaviKrishnan (Anna University,Chennai and Dr.Syeda Jeelani Basri, JNT University) on **Engineering Chemistry**in Sri Krishna Publishers,Chennai(2016).
	+ Dr.RaviKrishnan (Anna University,Chennai and Dr.Leena Singh, Galgotias University) on **Environmental Studies**in Sri Krishna HiTech Publishing Company, Hyderabad(2018) ISBN978-93-85364-77-8.
	+ Dr.RaviKrishnan (Anna University, Chennai and Dr.Ashishkumar, Lovely Professional University) on **Engineering Chemistry**in Sri Krishna Publishers,Chennai (2018).
	+ Dr.Sujata Kundan (Central University of Jammu, Jammu and R.M.Madhumitha Sri,Anna University, Chennai ) on Significances of Medicinal Plants for the Betterment of Human Life in Kripa Drishti Publications,Pune (2021) Indian Medicinal Plants for Primary Health Care System (ISBN: 978-93-90847-83-9).

**Details of Invited Talk Presented**

* **Effective Teaching Methods for Teachers** in the Five day National level online Faculty Development Program on “Recent Advances in Applied Chemistry” organized by Chemistry Department*, QIS college of Engineering and Technology, Ongole*  on 6th July to 10th July 2020.
* **Sustainable Development through Polymer Chemistry** in the Two day virtual Inter national conference on Chemical and Environmental Sciences organized by Department of Chemistry, St. Peter’s Institute of Higher education and Research, Chennai during 11th and 12th November, 2020.
* **Polymer Composites**in the virtual International conference on Smart Advanced Material Science and Engineering Applications organized by KL University, Guntur during 3-5thDecember 2020, (Andhra Pradesh).
* **Celebration of Science for Sustainable Development** in a webinar organized by the Department of Microbiology, Pingle Government College for Women,Warangal on 27thFebruary 2021.
* **Sustainable Development Goals through Sustainable Energy** in a webinar organized by the Department of Statistics, Pondicerry University on 20thMarch 2021.
* **Sustainable Development through Green Chemistry** Keynote address in an International webinar organized by the College of Science, University of Diyala, Iraq on 26thMay 2021.
* **Engineering Applications of Polymers**in the virtual National conference on Advanced Materials and Engineering Applications organized by PERIInstitute of Technology, Chennai during 5-6thAugust 2021 (Tamilnadu).
* **Environmental Sustainability through Green Chemistry** in the virtual National Seminar on Preservation of Ozone layer for Sustainable Development held on 16thSeptember2021 at Mother Teresa Women’s University, Kodaikanal (Tamilnadu).
* **Recent Trends of Polymers in Engineering Field** in the virtual National webinar organized by Theivanai Ammal College for Women, Villupuram on 25th October 2021 (Tamilnadu).
* **Sustainable Development through Polymer Chemistry** in the Two day virtual 2nd Inter national conference on Innovation in Chemical and Allied Sciences (**ICICAS-2021**)organized by Department of Chemistry, The Women University Multan, Pakistan, during 26-28th October 2021.
* **Recent Advancement inPolymers and their Engineering Applications of** in the virtual International conference on Functional Materials and its Application Aspects organized by Saveetha School of Engineering, Chennai during 29-30th October 2021 (Tamilnadu).
* **Plastics awareness for sustainable development** in the virtual International webinar organized by Green Energy 2022, USA on 4th April 2022.

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| **Papers Presented in Conferences** |
| * **Synthesis and Antimicrobial Activity of Substituted N-(1- piperidinobenzyl) acetamide and N-(1- morpholinobenzyl)acetamide: AStructure-Reactivity Study**in the National seminar on**“Hydro(Solvo)thermal Syntheses and Applications”**organized by *ManonmaniumSundaranar University* , Tirunelveli during 24-25 January,2002.
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* **Studies on Cu(II), Co(II) and Ni(II) schiff base derived from benzil2,4-dinitrophenylhydrazone with aniline**in the seminar on**“Current Trends in Chemistry”**organized by *Madurai Kamaraj University and Chemical Research Society* of India(**CRSI**), Madurai during 21-22 July,2003.
* **Applications of Baylis-Hillman reaction** in the Chemistry Department*,VHNSN College*, Virudhunagar on 8thSeptember2004.
* **Novel Schiff base complexes of β-diketones/ β-ketoesters with 2,4– dinitrophenylhydrazone** in the UGC sponsored regional symposium on “**Current Research Trends in Chemistry**” organized by *Kongunadu Arts and Science College*, Coimbatore on 10thSeptember2004.
* **“Physico-chemical characterization and antimicrobial behaviour of some bivalent transition metal complexes derived from Mannich base** in the National seminar on Chemistry Education and Research (NSCHER) organized by *P.G. & Research Depaartment of Chemistry, Erode Arts College* ,Erode during 30 Sep, Oct 1 & 2,2004.
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## Synthesis,Characterisation and Antibacterial Activity ofCu(II),Co(

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* **Synthesis, characterisation and antibacterial activity of metal complexes derived from Mannichbase** in the National seminar on “Recent Advancements in Studies of Metal Complexes” organized by *Science College,* Nanded (Maharashtra) during 15-16 March,2008.
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* **Better Living through Green Chemistry** in the National Conference on New Renaissance in Chemical Research organized by the Department of Chemistry, SRM University, Chennai on 4th March, 2011.
* **Recent Trends on Artificial Ground Water recharge** in the CSIR Sponsored seminar on Waterborne Diseases causes and prevention organized by the Department of Chemistry, Sriram Engineering College, Chennai during 24th&25th March,2011.
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* **Applications of Nanomaterials** in the National Conference on Emerging Technologies organized by Anna University of Technology Tirunelveli on 6th May2011.
* **Importance of Nanomaterials** in the International Conference on Nanoscience and Nanotechnology (ICNN-2011) organized by Coimbatore Institute of Technology, Coimbatore during 6th to 8th July, 2011.
* **Green Chemistry Towards Sustainable Development** in National conference on Green Engineering and Technologies (NCGET-2011) held at VSB Engineering College, Karur during 23rd and 24thSeptember,2011.
* **Green Principles for Environmental Protection** in the International conference on Chemistry of Phytopotentials: Health, Energy and Environmental Perspectives organized by Department of Chemistry, Dayalbagh Educational Institute, Dayalbagh, Agra during 4th to 6thNovember,2011.
* **Environmental Sustainability and Development through Green Chemistry** in the International conference on Environmental impacts, Health implications & Therapeutic approaches organized by Department of Chemistry during 15th to 17th July, 2012 at VikramaSimhapuri University, Nellore, AndhraPradesh.
* **Environmental Sustainability through Green Chemistry** in the proceeding of a two day National symposium on Role of Chemistry in Advanced Engineering materials organized by Department of Chemistry during 26th and 27th July, 2013 at Vasavi college of Engineering,Hyderabad.
* **Green Chemistry for Sustainable Development** in National conference on Scope of advanced materials in Energy&Environment organized by Department of Chemistry during 7th and 8th August, 2013 at CMR Institute of Technology,Bangalore.
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* **Environmental pollution control through Green Chemistry** in the Inter National conference on Health and Air pollution organized by International Development Centre on 7-8th September, 2018 at India International Centre, NewDelhi.

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## Retro synthetic Approach on Synthesis of Quinoline derivative using Microwave energy in the virtual International conference on Smart Advanced Material Science and Engineering Applications organized by KL University, Guntur during 3-5th December 2020, (Andhra Pradesh).

* + - **Recent advancement in Polymers and their Engineering Applications**in the virtual International conference on Functional Materials and its Application Aspects organized by Saveetha School of Engineering, Chennai during 29-30th October 2021 (Tamilnadu).

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2. **Prof.Sayeeda Sultana**, Professor in Chemistry, St.Peter’s Engineering College, Chennai-54.
3. **Dr.Renu Sarin**, Prof. in Chemistry, Galgotias University, Greater Noida-201306.

Yours faithfully,



## (Dr.S. RAVICHANDRAN)