

**Dr. Panchangam Sri Chandana**  
**Ph. D., National Taiwan University, Taipei, TAIWAN (2010)**

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**Dr. P. Sri Chandana**, M.Tech, Ph.D (NTU, Taiwan), FIE  
UGC Research Awardee (2014-2016)  
Professor and Head  
Department of Civil Engineering  
Annamacharya Institute of Technology and Sciences  
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**EDUCATIONAL BACKGROUND:**

<b>Degree</b>	<b>Specialization</b>	<b>Year of Passing</b>	<b>University/College</b>
<b>Ph.D.</b>	Environmental Engineering	2010	National Taiwan University, Taipei, TAIWAN
<b>M.Tech</b>	Environmental Engineering	2004	Sri Venkateswara University, Tirupati, INDIA
<b>B.Tech</b>	Civil Engineering	1998	Jawaharlal Nehru Technological University, Hyderabad, INDIA

**ACADEMIC HONOURS / AWARDS:**

- 2017 Visiting Professor at Graduate Institute of Environmental Engineering (GIEE) of National Taiwan University (NTU), Taipei, Taiwan from July-September (3 months period)
- 2016 Ratified post by JNTU Anantapur
- 2015 UGC Research Award for the period 2016-2018
- 2014 Certified by World Bank Institute for completing e-learning course on “Introduction to Disaster Risk Management” (2/10/2014-26/10/2014)
- 2014 Certified by World Bank Institute for completing e-learning course on Sustainable Urban Land Use Planning in Spring 2014 (2/4/2014-20/5/2014).
- 2006 Recipient of Taiwan Government Fellowship to pursue Ph. D programme in National Taiwan University, Taipei, Taiwan (Awarded by the Ministry of Education, Government of Taiwan for the period of three years 2006-2009)
- 2004 First rank in M.Tech (Civil and Environmental Engineering), Sri Venkateswara University, India.
- 2000 Recipient of GATE scholarship (Qualified in GATE-2000 exam (Civil Engineering Section) conducted by Indian Institute of Technology – Kharagpur).

## **PROFESSIONAL ACTIVITIES:**

March 2016 Member of District Level Expert Appraisal Committee (DEAC) for YSR Kadapa as appointed by District Collector for three years

July 2018 Road safety audit team member in the Kadapa district as an academician

## **RESEARCH INTEREST**

*My research interest encompasses development of efficient protocols for the treatment of emerging contaminants in the environment and search for materials for clean environmental applications. My current research projects I am actively involved in are the development of graphene based nanomaterials for heterogeneous photocatalytic treatment method or Advanced Oxidation Processes (AOPs) for treating emerging contaminants and studies on their degradation mechanisms.*

## **ONGOING RESEARCH:**

- Adsorption of pharmaceuticals by graphene-based nanoassemblies for environmental remediation
- Photocatalytic treatment of pharmaceutical compounds
- Self Cleansing concrete

## **RESEARCH ACCOMPLISHMENTS:**

- Graphene-Based Nanoassemblies For Photocatalytic Treatment Of Emerging Contaminants (funded by UGC June 2016- May 2018)
- Minimal TiO<sub>2</sub> coating method on cement surfaces for self-cleaning applications
- Development of ozonation treatment for the destruction of perfluoroalkyl acids (PFAAs)
- Development of Risk Assessment Methodologies
- Development of heterogeneous photocatalytic methods for the destruction of perfluoroalkyl acids (PFAAs)
- Recovery of copper from printed circuit board effluents by chemical reduction process
- Membrane fouling analysis - causes and implications
- Color removal from coffee and tea infusions

## **RESEARCH ON SPONSORED PROJECTS:**

- Research Professor at AITS, Rajampeta for the project sponsored by UGC under Research Award scheme (RA-2016-18-GE-ANP-6437) for the duration June 2016 to May 2018.
- Visiting Professor at GIEE, NTU Taiwan and worked on project “Free chlorine sunlight photolysis of emerging contaminants: kinetic and mechanism” funded by Ministry of Science and Technology (MOST) (MOST 106 - 2811 - E - 002 – 022), Taiwan.
- Worked as Project Assistant for National Taiwan University of Science and Technology sponsored project entitled “Recovery of copper from printed circuit board industrial wastes”.
- Worked as Project Assistant for Taiwan semiconductor Corporation Sponsored Project entitled “Treatment of semiconductor industry wastewaters”.

## **TEACHING INTERESTS:**

- ✓ Environmental emerging contaminants, physical and chemical treatment processes, Water and wastewater treatment, Introduction to environmental engineering, Environmental Engineering, Water Resources Engineering, Design and Drawing of Irrigation Structures, Concrete Technology, Disaster Management and Mitigation, Low Cost Housing Techniques.

## **TEACHING ACTIVITIES:**

- Professor in the Department of Civil Engineering in Annamacharya Institute of Technology and Sciences, Kadapa from March 2015 till date
- Associate Professor in the Department of Civil Engineering in Annamacharya Institute of Technology and Sciences, Kadapa from 15<sup>th</sup> June 2012 to Feb 2015
- Teaching assistant for Emerging Contaminants class during Ph.D. (2006 Fall) in National Taiwan University, Taipei, Taiwan.
- Teaching assistant for English Presentation for Scientists and Engineers class during Ph.D. (2007 Fall) in National Taiwan University, Taipei, Taiwan.
- Taught Wastewater treatment processes course for Bachelor of Science (B.S) (2007 Fall) in National Taiwan University, Taipei, Taiwan.

## **EXTERNAL COLLABORATORS:**

- Dr. C.F. Lin, Professor, GIEE, National Taiwan University, Taipei, Taiwan, R.O.C
- Dr. A.Y.C. Lin, Professor, GIEE, National Taiwan University, Taipei, Taiwan, R.O.C
- Dr. S.T.G. Raghukanth, Associate Professor, IIT Chennai, India
- Dr. J. Karthikeyan, Professor, S.V.U. Tirupathi, India
- Dr. L. Subramanyam Sarma, Department of Chemistry, Yogi Vemana University, Kadapa, India
- Dr. M.V. Shankar, Department of Materials Science and Nanotechnology, YVU, Kadapa, India

**GOOGLE SCHOLAR CITATION LINK: H-INDEX=12**

<http://scholar.google.co.in/citations?user=R2vDnpwAAAAJ&hl=en>

**SCOPUS AUTHOR LINK: H-INDEX=9**

<http://www.scopus.com/authid/detail.url?authorId=25928552100>

**RESEARCH GATE LINK:**

[https://www.researchgate.net/profile/Sri\\_Chandana\\_Panchangam2](https://www.researchgate.net/profile/Sri_Chandana_Panchangam2)

**PUBLICATIONS (Total=83):**

**Peer-Reviewed Publications**

1. Angela Yu-Chen, L., **Sri Chandana, P.**, Yen Ching, L., Liu Chung Lin (2018): The design of sunlight focusing and solar tracking system: Potential application for the degradation of pharmaceuticals in water. **Chemosphere** (Accepted) (SCI, IF: 4.427), UGC No: 5539, ISBN/ISSN: 00456535.
2. Ming Chi, H., **Sri Chandana, P.**, Wei Po, L., Angela Yu-Chen, L. (2018): Kinetics and role of radical species during the degradation of methadone by free chlorine sunlight photolysis. **Chemosphere** 209, 104-112 (SCI, IF: 4.427), UGC No: 5539, ISBN/ISSN: 00456535.
3. B. Alekhya, Sri Chandana P (2018): An investigation on mechanical properties and damage of normal concrete and mortars subjected to magnesium sulphate environment. *International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES)* 4 (8), 81-97 (SJIF: 5.22), e-ISSN: 2455-2585 (UGC approved journal No. 47719).
4. G. Naveen Kumar, **Sri Chandana P** (2018): Study of properties of concrete with partial replacement of cement with fly ash subjected to magnesium sulphate environment. *International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES)* 4 (7), 424-440 (SJIF: 5.22), e-ISSN: 2455-2585 (UGC approved journal No. 47719).
5. C. Sudheer, **Sri Chandana P** (2018): An experimental study on bond characteristics of geopolymer concrete. *International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES)* 4 (7), 751-760 (SJIF: 5.22), e-ISSN: 2455-2585 (UGC approved journal No. 47719).
6. S. Riyaz Basha, L. Siva Reddy, **Sri Chandana P** (2018): A comparative study on mechanical properties and load deflection parameters of R.C. beams with the addition of PVA, PE and Glass fibers. *International Journal of Engineering Research-Online* 6 (3), 63-71 (ICI IF: 5.8701), ISSN: 2321-7758.
7. N. Avinash Kumar Reddy, **Sri Chandana, P.** (2018). Self-cleaning surface-coat of micro-titanium dioxide on hardened cement mortar surfaces irradiated with sunlight. *International Journal of Engineering and Techniques* (UGC approved). Special Issue NCETIMES2018-Part1, pg 1-5. (ISSN 2395-1303). (<http://www.ijetjournal.org/Special-Issues/NCETIMES/NCETIMES1.pdf>) (Cosmos IF: 3.546).

8. **Sri Chandana, P.\***, Bhargav, P.R.K., and Gayathri, K.B. (2018): Implications and implementation of Biomedical waste management Rules 2016 in Hospitals and a common biomedical waste treatment facility in Andhra Pradesh, India. **International Journal of Environment and Waste Management** 21 (2/3), 201-216, UGC No: 2994, ISSN/ISBN: 1226086X.
9. P. Raghavendra, G. Viswakshan Reddy, **P. Sri Chandana**, and L. Subramanyam Sarma. (2018): Reduced graphene oxide supported Pd@Au core-shell nanoelectrocatalyst for enhanced oxygen reduction in alkaline media. **Int. J. Hydrogen Energy**. 43, 4125-4135, (SCI IF: 4.229), UGC No: 22910, ISSN/ISBN: 03603199.
10. P. Raghavendra, G. Vishwakshan Reddy, R. Sivasubramanian, **P. Sri Chandana**, L. Subramanyam Sarma. (2017): Facile fabrication of Pt-Ru nanoparticles immobilized on reduced graphene oxide support for the electrooxidation of methanol and ethanol. **Chemistry Select** (Wiley VCH), 2, 11762-11770 (SCI IF: 1.505), UGC No: 48395, ISBN/ISSN: 23656549.
11. **Sri Chandana, P.\***, Bhargav, P.R.K., and Gayathri, K.B. (2017): Biomedical Waste Management (BMW) Practices in the Pinnamaneni Siddhartha Hospital, India - A Case Study. **A Glance at the World/Waste Management**. 65, II-III (SCI IF: 4.723), UGC No: 32799, ISSN/ISBN: 0956053X.
12. R. Mahesh, **P. Sri Chandana\***. (2017): Study of compressive and flexural strength of fibrous triple blended high strength concrete with Flyash and Condensed silica fume. *International Journal of Advanced Technology and Innovative Research*. 9 (7), 1253-1257, (IF: 4.106), ISSN/ISBN: 23482370.
13. G. Viswakshan Reddy, P. Raghavendra, B. Ankamwar, **P. Sri Chandana**, S.M. Senthil Kumar, and L. Subramanyam Sarma. (2017): Ultra-fine Pt-Ru bimetallic nanoparticles anchored on reduced graphene oxide sheets as highly active electrocatalyst for methanol oxidation. **Materials Chemistry Frontiers** an RSC journal. 1, 757-766 (SCI IF: new Journal), UGC No: 47732, ISSN/ISBN: 20521537.
14. Madhavalatha, T., Rajeswari, K., **Sri Chandana P\***. (Nov, 2016): Effect of soil structural interaction on multi-story building with raft foundation. *International Journal & Magazine of Engineering, Technology, Management and Research*. 3(11), 2348-4845 (IJIF: 3.554), ISSN/ISBN: 23484845.
15. Amulya, B., **Sri Chandana P.** (Aug, 2016)\*: Comparative study of Hydraulic design and estimation of RCC slab culvert. *International Journal for Master of Engineering and Technology, Management and Research*. 22(1), 4142-3453. (IF: 2.5), IN Online: 41423453.
16. Praveena, K., **Sri Chandana P\***. (2016): Stability Analysis of Bund Feeder Channels during Desilting and estimation. *International Journal & Magazine of Engineering Technology Management and Research*. 3 (9), 1580-1588. (IJIF IF: 3.554), ISSN/ISBN: 23484845.
17. Lakshmi Prasanna, V., Bhagyamma, G., **Sri Chandana P\***. (2016): Progressive Collapse Study on Regular Steel Space Frames Subjected to Seismic Loading. *International Journal of Engineering Research and General Science*. 4(4), 218-225 (SJ, IF: 3.843), ISSN/ISBN: 20912730.
18. **Sri Chandana, P.\***, Lin, A.Y.-C., Tsai, J. H., Lin, C. F., and Sarma, L.S. (2016): Role of Sonication in the decomposition of perfluorooctanoic acid (PFOA) by Sonophotocatalysis.

**International Journal of Engineering Research and Development.** 12(5), 54-62, (AQCI, IF: 4.61), UGC No: 48012, ISSN/ISBN: 2278800X.

19. G. Viswakshan Reddy, P. Raghavendra, **P. Sri Chandana**, L. Subramanyam Sarma. (2015): Halide-aided controlled fabrication of Pt-Pd/Graphene bimetallic nanocomposites for methanol electrooxidation. **RSC Advances.** 5, 100522-100530 (SCI, IF: 3.108), UGC No: 23625, ISSN/ISBN: 20462069.
20. A. Archana Priya, **Sri Chandana, P.\*** (2015): Low cost concrete from paper industrial waste- An experimental study. *International Journal & Magazine of Engineering, Technology, Management and Research.* 2(11), 484-487 (IJIF: 3.554), ISSN/ISBN: 23484845.
21. N. Siva Krishna, **Sri Chandana, P.\*** (2015): The use of basalt aggregate as coarse aggregate in high strength concrete mixes. *International Journal & Magazine of Engineering, Technology, Management and Research.* 2(11), 850-854 (IJIF: 3.554), ISSN/ISBN: 23484845.
22. K. Anitha, **Sri Chandana, P.\*** (2015): Experimental studies on ferrous slag as a replacement of fine aggregate in conventional concrete. *International Journal & Magazine of Engineering, Technology, Management and Research.* 2(11), 172-178 (IJIF: 3.554), ISSN/ISBN: 23484845.
23. G. Janardhan Reddy, **Sri Chandana, P.\*** (2015): Performance assessment of glass fiber reinforced concrete beams. *International Journal & Magazine of Engineering, Technology, Management and Research.* 2(10), 1090-1096 (IJIF: 3.554), ISSN/ISBN: 23484845.
24. N. Prem Kumar, **Sri Chandana, P.\*** (2015): Study on different types of cracks in plain and reinforced concrete. *International Journal & Magazine of Engineering, Technology, Management and Research.* 2(10), 1112-1118 (IJIF: 3.554), ISSN/ISBN: 23484845.
25. P. Praveen Kumar, **Sri Chandana, P.\*** (2015): Detailed investigations on requirement of water harvesting structures. *International Journal & Magazine of Engineering, Technology, Management and Research.* 2(10), 1119-1124 (IJIF: 3.554), ISSN/ISBN: 23484845.
26. D. Chinna Narasimhudu, **Sri Chandana, P.\*** (2015): A study on properties of light weight cinder aggregate concrete with silica fume and fly ash as admixtures. *International Journal & Magazine of Engineering, Technology, Management and Research.* 2(10), 1097-1104 (IJIF: 3.554), ISSN/ISBN: 23484845.
27. S. Arun Tejadhar Reddy, **Sri Chandana, P.\*** (2015): Experimental investigation of properties on concrete by using steel slag. *International Journal & Magazine of Engineering, Technology, Management and Research.* 2(10), 1105-1111 (IJIF: 3.554), ISSN/ISBN: 23484845.
28. **Sri Chandana, P.\***, Shaik Ahmed Mynuddin (2015): Experimental Study on Strength of Concrete by Partial Replacement of Fine Aggregate with Sawdust and Robosand. *International Journal & Magazine of Engineering, Technology, Management and Research.* 2(9), 338-346 (IJIF: 3.554), ISSN/ISBN: 23484845.
29. L. Siva Reddy, **Sri Chandana, P.\*** (2015): Experimental investigation on pervious concrete. *International Journal & Magazine of Engineering, Technology, Management and Research.* 2(9), 367-374 (IJIF: 3.554), ISSN/ISBN: 23484845.

30. D. Padmaroja, **Sri Chandana, P.\*** (2015): Experimental study on strength and sorptivity properties of geopolymer mortar. *International Journal & Magazine of Engineering, Technology, Management and Research*. 2(4), 48-52 (IJIF: 3.554), ISSN/ISBN: 23484845.
31. K. Naga Deepika, **Sri Chandana, P.\*** (2015): Experimental study on effects of ferro cement. *International Journal & Magazine of Engineering, Technology, Management and Research*. 2(2), 379-382 (IJIF: 3.554), ISSN/ISBN: 23484845.
32. K. Chandrakala, **Sri Chandana, P.\*** (2015): Experimental study on effects of glass powder in concrete. *International Journal & Magazine of Engineering, Technology, Management and Research*. 2(2), 383-387 (IJIF: 3.554), ISSN/ISBN: 23484845.
33. G. Priyanka Rani, **Sri Chandana, P.\*** (2015): Experimental study on effects of sisal fiber reinforced concrete. *International Journal & Magazine of Engineering, Technology, Management and Research*. 2(2), 388-392 (IJIF: 3.554), ISSN/ISBN: 23484845.
34. **Sri Chandana, P.\***, Karthikeyan. J. (2015): Decolorization of aqueous coffee and tea infusions by chemical coagulation. *Desalination and Water Treatment* 53(1), 119-125.(doi: 10.1080/19443994.2013.860401) (SCI, IF:1.173), UGC No: 12911, ISBN/ISSN: 19443994.
35. Lin, A.Y.-C.\*,**Sri Chandana, P.**, Tsai, Y.T., and Yu, T.H. (2014): Occurrence of perfluorinated compounds in the aquatic environment as found in Science Park effluent, river water, rain water, sediments and biotissues. *Environmental Monitoring and Assessment* 186(5), 3265-3275(SCI, IF: 1.804), UGC No: 19807, ISBN/ISSN: 01676369.
36. Yang, K.H., Lin, Y.C., Fang, M.D., Wu, C.H., **Sri Chandana, P.**, Hong, P.K.A., and Lin, C.F\*. (2013): Sorption of Perfluorooctanoic acid (PFOA) onto sediment in the presence of dissolved natural organics. *Separation Science and Technology* 48, 1473-1478 (SCI IF: 1.2), UGC No: 35845, ISBN/ISSN: 01496395.
37. Ng, K. K., Wu, C. J., Yang, **Sri Chandana, P.**, Lin, Y. C., Hong, P. K., Wu, C. H., and Lin, C. F.\* (2012): Effect of Ultrasound on membrane filtration and cleaning operations. *Separation Science and Technology* 48, 215-222 (SCI, IF: 1.2), UGC No: 35845, ISBN/ISSN: 01496395.
38. Lin, A.Y.-C.\*, **Sri Chandana, P.**, Chang, C. Y., Hong, P.K.A., and Hsueh, H.F. (2012): Removal of Perfluorooctanoic acid and Perfluorooctanesulfonate via ozonation under alkaline condition.*J. Hazardous Materials* 243, 272-277(SCI, IF: 6.434), UGC No: 28386, ISBN/ISSN: 03043894.
39. **Sri Chandana. P.\***, Karthikeyan. J. (2012): Sorptive removal of color from aqueous coffee and tea infusions. *Desalination and Water Treatment* 50, 338-347 (SCI, IF: 1.173), UGC No: 12911, ISBN/ISSN: 19443994.
40. Yu, T. H., Lin, A.Y.C., **Sri Chandana, P.**, Hong, P. K., Yang, P. Y., Lin, C. F.\* (2011): Biodegradation and Bio-sorption of antibiotics and non-steroidal anti-inflammatory drugs using immobilized cell process. *Chemosphere* 84, 1216-1222 (SCI, IF: 4.427), UGC No: 5539, ISBN/ISSN: 00456535.
41. Ng, K. K., Lin, C. F.\*, **Sri Chandana, P.**, Hong, P. K. and Yang, P. Y. (2011): Reduced membrane fouling in a novel bio-entrapped membrane reactor for treatment of food and beverage

processing wastewater. *Water Research* 45, 4269-4278 (SCI, IF: 7.051), UGC No: 32831, ISBN/ISSN: 00431354.

42. Lin, Y.C., **Sri Chandana, P.**, Wu, C.H., Hong, A.P.K. and Lin, C.F.\* (2011): Effects of water washing on removing organic residues in bottom ashes of municipal solid waste incinerators. *Chemosphere* 82, 502-506 (SCI, IF: 4.427), UGC No: 5539, ISBN/ISSN: 00456535.
43. Wu, W., **Sri Chandana, P.**, Wu, C. H., Hong, P. K. A., and Lin, C. F.\*(2011): Recovery of metallic copper by integrated chemical reduction and high gradient magnetic separation. *Environmental Technology* 32, 817-824 (SCI, IF: 1.666), UGC No: 19849, ISBN/ISSN: 09593330.
44. Lin, A.Y.-C.\*, **Sri Chandana, P.** and Ciou, P.S (2010): High levels of perfluorochemicals in Taiwan's wastewater treatment plants and downstream rivers pose great risk to local aquatic ecosystems. *Chemosphere* 80, 1167-1174 (SCI, IF: 4.427), UGC No: 5539, ISBN/ISSN: 00456535.
45. Lin, A.Y.-C.\*,**Sri Chandana, P.** and Chen, H.Y (2010): Implications of human pharmaceutical occurrence in Sindian river of Taiwan: A strategic study of risk assessment. *Environmental Science: Processes and Impacts (formerly Journal of Environmental Monitoring)*.12, 261-270 (SCI, IF: 2.592), UGC No: 19844, ISBN/ISSN: 20507887.
46. Ng, K. K., Lin, C. F.\*, Lateef, S. K., **Sri Chandana, P.**, Hong, P. K. and Yang, P. Y. (2010): The effect of soluble microbial products on membrane fouling in a fixed carrier biological system. *Separation and Purification Technology* 72, 98-104 (SCI, IF: 3.927), UGC No: 35843, ISBN/ISSN: 1335866.
47. **Sri Chandana, P.**, Lin, A.Y.-C., Lateef, S. K., Tsai, J. H. and Lin, C. F.\* (2009): Decomposition of perfluorocarboxylic acids (PFCAs) by heterogeneous photocatalysis in acidic aqueous medium. *Chemosphere* 77, 242-248 (SCI, IF: 4.427), UGC No: 5539, ISBN/ISSN: 00456535.
48. **Sri Chandana, P.**, Lin, A.Y.-C., Tsai, J. H. and Lin, C. F.\* (2009): Sonication-assisted photocatalytic decomposition of perfluorooctanoic acid. *Chemosphere* 75, 654-660 (SCI, IF: 4.427), UGC No: 5539, ISBN/ISSN: 00456535.
49. Lin, A.Y.-C.\*, **Sri Chandana, P.** and Lo, C.-C. (2009): Impact of semiconductor, electronics and optoelectronic industries on downstream perfluorinated chemical contamination in Taiwanese rivers. *Environmental Pollution* 157, 1365-1372 (SCI, IF: 4.358), UGC No: 19815, ISBN/ISSN: 02697491.
50. Lin, C.F.\*, Lin, A.Y.-C., **Sri Chandana, P.** and Tsai, C. Y. (2009): Effects of mass retention of dissolved organic matter and membrane pore size on membrane fouling and flux decline. *Water Research* 43, 389-394 (SCI, IF: 7.051), UGC No: 32831, ISBN/ISSN: 00431354.

### Other publications

**Sri Chandana, P.**\*(2010): [異相光解全氟羧酸化合物之反應機制研究](#). 臺灣大學環境工程學研究所學位論文, Pg No 1-153.

(URL: <http://www.airitilibrary.com/Publication/alDetailedMesh1?DocID=U0001-1101201017385200>)



## **Non-indexed Publications**

1. Sri Chandana, P.(2014): Introduction to Engineering. *Engineering and science Focus::AITK* October 2014 (Research Gate DOI: 10.13140/RG.2.1.4254.4486)
2. Sri Chandana, P.(2014): Plastic Saga. *Engineering and science Focus::AITK* December 2014 (Research Gate DOI: 10.13140/RG.2.1.4778.7365)
3. Sri Chandana, P.(2015): Plastic Saga-1. *Engineering and science Focus::AITK* January 2015 (Research Gate DOI: 10.13140/RG.2.1.3468.0169)
4. Sri Chandana, P.(2015): Colgate Controversy. *Engineering and science Focus::AITK* February 2015 (Research Gate DOI: 10.13140/RG.2.1.2419.4403)
5. Sri Chandana, P.(2015): Smart Cities: Transforming Life-Transforming India. *Engineering and science Focus::AITK* March 2015 (Research Gate DOI: 10.13140/RG.2.1.2943.7282)
6. Naveen G, DegaRaju K, Naresh P, Rayal S, Lokesh R, Raveendra M.V, Sainath M.B, Sri Chandana, P. (2015): Biomedical waste management practice in Vijaya Super Specialty Hospital in Vijayawada. *Engineering and science Focus::AITK* April 2015 (Research Gate DOI: 10.13140/RG.2.1.5106.4164)
7. Sri Chandana, P.(2015): Hazardous Waste. *Engineering and science Focus::AITK* June 2015 (Research Gate DOI: 10.13140/RG.2.1.3861.2322)
8. Sri Chandana, P.(2015): Maggie Instant Noodles- Instantly Famous-Instantly Notorious. *Engineering and science Focus::AITK* July 2015 (Research Gate DOI: 10.13140/RG.2.1.1925.3601)
9. Sri Chandana, P. (2015): “Seven Billion Dreams. One Planet. Consume With Care” on World Environment Day. *Engineers’ Bulletin. The Institution of Engineers (India)*. Vol VIII (4), July-August, 2015.
10. Sri Chandana, P.(2015): Dr. A. P. J. Kalam, Indomitable spirit and Impeccable character. *Engineering and science Focus::AITK* August 2015
11. Sri Chandana, P.(2015): Escherichia Coli (E.Coli). *Engineering and science Focus::AITK* September 2015 (Research Gate DOI: 10.13140/RG.2.1.5159.9846)
12. Sri Chandana, P.(2015): Dengue. *Engineering and science Focus::AITK* October 2015 (Research Gate DOI: 10.13140/RG.2.1.3294.7921)
13. Sri Chandana, P.(2015): Robosand – The future of sand. *Engineering and science Focus::AITK* November 2015 (Research Gate DOI: 10.13140/RG.2.1.4250.8242)
14. Sri Chandana, P.(2016): Zika Virus. *Engineering and science Focus::AITK* February 2016 (Research Gate DOI: 10.13140/RG.2.1.3410.2809)
15. Sri Chandana, P.(2016): *El Niño & La Niña*. *Engineering and science Focus::AITK* April 2016 (Research Gate DOI: 10.13140/RG.2.1.2630.9520)
16. Sri Chandana, P.(2016): *Leonardo da Vinci*. *Engineering and science Focus::AITK* July 2016 (Research Gate DOI: 10.13140/RG.2.1.2991.7685)

## Consultancy Reports

1. Sri Chandana, P. (2015): Report on Bio-medical waste management practice in Endocare hospital in Vijayawada, Andhra Pradesh.
2. Sri Chandana, P. (2015): Report on Bio-medical waste management practice in Dr. Pinnamaneni Siddhartha Institute of Medical Sciences and Research Foundation Vijayawada, Andhra Pradesh.
3. Sri Chandana, P. (2015): Report on Bio-medical waste treatment and disposal at SafEnviron, a biomedical waste treatment facility in Vijayawada, Andhra Pradesh.
4. Sri Chandana, P. (2015): Report on Bio-medical waste management practice in Vijaya hospital in Vijayawada, Andhra Pradesh.

## CONFERENCES/SYMPOSIA/SEMINARS:

1. N. Avinash Kumar Reddy, **Sri Chandana, P.** Comparison of self-cleaning efficiency of fresh and hardened cement mortar surfaces coated with titanium dioxide under natural sunlight. 4<sup>th</sup> International Young scientist Congress (IYSC-2018), Organized by International Science Community Association in collaboration with Rashtriya Sanskrit Vidyapeetha, Tirupati, on 8<sup>th</sup> and 9<sup>th</sup> May, 2018.
2. N. Avinash Kumar Reddy, **Sri Chandana, P.** Self-cleaning surface-coat of micro-titanium dioxide on hardened cement mortar surfaces irradiated with sunlight. National Conference on Emerging trends in Information, Management, and Engineering Sciences (NC'e-TIMES#1.0), *Organized by Annamacharya Institute of Technology and Sciences, Rajampeta, Kadapa*, on 14<sup>th</sup> and 15<sup>th</sup> March, 2018. Full paper (<http://www.ijetjournal.org/Special-Issues/NCETIMES/NCETIMES1.pdf>)
3. **Sri Chandana, P.**, Avinash Kumar Reddy, N, Sarma, L.S, Shankar, M.V. Evaluation of Photocatalytic performance of minimal coated nano-TiO<sub>2</sub> on hardened cement surfaces under sunlight irradiation. *International Conference on Sustainable Environment and Energy ICSEE 2017, Organized by Dept of Civil Engineering and Department of EEE, Hindustan University, Chennai, T.N, 6<sup>th</sup>-7<sup>th</sup> April, 2017. Pg No. 26.*
4. Y. Chandra Sekhar, **Sri Chandana, P.**, Sarma, L.S., Sravani, B., Raghavendra, P. Development of Graphene-based Nanoassemblies for Environmental Remediation. *International Conference on Sustainable Environment and Energy ICSEE 2017, Organized by Dept of Civil Engineering and Department of EEE, Hindustan University, Chennai, T.N, 6<sup>th</sup>-7<sup>th</sup> April, 2017. Pg No. 93.*
5. Y. Chandra Sekhar, **Sri Chandana, P.**, Raghavendra, P., Sarma L.S., Development of graphene-based nanoassemblies for environmental remediation. UGC sponsored Two day National Seminar on Modern Trends in Chemistry Research (MTCR), Organized by Dept of chemistry, Government College for Men, Kadapa, 27-28 January, 2017. Pg No. 50.
6. **Sri Chandana, P.** Smart City: Transforming Life-Transforming India. International Conference

on Sustainable Energy Technologies for Smart and Clean Cities (SETS & CC-2016), Organized by IIT Tirupathi, Amara Raja Batteries Ltd, Krishna Teja Educational Institutions, and Southern University and A & M College, USA, 27-29 July, 2016. Pg No. 78. ISBN-978-93-82570-81-3.

7. **Sri Chandana, P.** Natural Attenuation of aqueous Environmental Contaminants. *National Seminar on Chemistry for Pharmaceutical, Biological, Energy & Environmental Applications (NCPBEE-2015)*, UGC sponsored National Seminar Organized by Department of Chemistry, Yogi Vemana University, Kadapa, March 19<sup>th</sup>, 2015.
8. Rajeswari, K., **Sri Chandana, P.**, Raghukanth, S.T.G. Rehabilitation of a heritage structure in Nandalur. 2<sup>nd</sup> National Conference on Recent Advances in Civil Engineering (RACE 2K15), Organized by *Department of Civil Engineering, CMR Technical Campus, Medchal, Hyderabad*, 31<sup>st</sup> March, 2015. Pg No. 101-104, ISBN-978-81-929195-3-9.
9. Tejaswi, K., **Sri Chandana, P.**, Raghukanth, S.T.G. Stability Analysis of Sowmyanadha Swamy Temple. *Recent Advances in Civil Engineering (RACE2K15)*, Organized by *Department of Civil Engineering, CMR Technical Campus, Medchal, Hyderabad*, 31<sup>st</sup> March, 2015. Pg No. 105-108, ISBN-978-81-929195-3-9.
10. **Sri Chandana, P.**, Angela Y-C Lin, Lin, C.F. Sonophotocatalytic treatment of perfluorocarboxylic acids (PFCAs). 4<sup>th</sup> *International Science Congress (ISC-2014)* Organized by *International Science Congress Association*, at Pacific University, Udaipur, Rajasthan, India. December 8-9, 2014. Pg. No. 139(*Print Souvenir ISBN 978-93-83520-28-2 and E- Souvenir ISBN 978-93-83520-27-5*).
11. **Sri Chandana, P.**, Angela Y-C Lin, Lin, C.F. Removal of perfluorooctanoic acid (PFOA) and perfluorooctanesulfonate (PFOS) by alkaline ozonation. *International AvH Conference on Third Pole Demands Protection (HOPE 2013)*, Organized by *Humboldt House of Uttarakhand, Uttarakhand Academy of Administration (ATI), Nainital, India*. September 12-14, 2013.
12. **Sri Chandana, P.**, Tsai, J. H., Lin, C.F and Lin, Y.C.-A. Advanced Oxidation Processes: Technologies for the destruction of the recalcitrant perfluorochemicals (PFOA and PFOS). 17<sup>th</sup> *Joint KKNN (Kyoto University-KAIST-National Taiwan University-University of Singapore) Symposium on Environmental Engineering*, Batam, Indonesia, June 22-25, 2008.
13. Participated in the 104<sup>th</sup> Indian Science Congress held at S.V.University , Tirupati, January 3- 7, 2017.
14. Participated in *RTCS-2012 National Seminar on Recent Trends in Chemical Sciences*, Yogi Vemana University, Kadapa, 31<sup>st</sup> March, 2012.
15. Participated in *National Seminar on New Exciting Frontiers of Chemistry UGC sponsored Seminar Organized by Department of Chemistry, Hindu College, Guntur*, January 8-9, 2014.

16. *Participated in International Seminar on Emerging Trends in Synthetic Organic & Medicinal Chemistry (ESMC-2013), Organized by Department of Chemistry, Vikrama Simhapuri University, Nellore, November 13-15, 2013.*
17. *Participated in National Seminar on Recent Trends in Chemistry Research-2014 (NSRTPCR) UGC sponsored Seminar Organized by Department of Chemistry, Government college, Kodur (RS), Kadapa, July 30, 2014.*

#### **WORKSHOPS:**

1. One day workshop on “Road safety Audit” as nominee (an academician) by our institute conducted by the RTA Andhra Pradesh State Government at AITS Kadapa on 13<sup>th</sup> July, 2018.
2. Two Day National Workshop on “Environmental Management, Green and Sustainable Chemistry (EMGSC-2017)” organized by JNTU College of Engineering, Pulivendula, 22-23 February, 2017.
3. Workshop on “Procedures to be followed for issuance of Environmental clearances for quarry/mining leases to an extent of 5 Ha and below” by Techno Mining Solutions in association with ENVIPRO, Bangalore, in New Collectorate Complex, D Block, Kadapa, 22<sup>nd</sup> September, 2016. (As a member of DEAC).
4. Two Week ISTE STTP on “Introduction to Structural Engineering” organized by IIT Kharagpur under National Mission on Education through Information and Communication Technology, January 4-9, 2016.
5. Attended as stakeholder (alumnus status) in one day workshop on Curriculum Design and Development for Post Graduate Programs under TEQIP-II organized by Department of Civil Engineering, Sri Venkateswara University, Tirupathi, 30<sup>th</sup> November, 2014.

#### **INVITED TALKS:**

1. **Sri Chandana, P.** Current Environmental Crisis and Probable Solutions. *National Conference on Emerging Issues in Green Chemistry: Possible Alternatives, Organized by Dept of Chemistry, Sanskrithi School of Engineering, Puttaparthi, Anantapuramu, A.P., 24<sup>th</sup> March, 2017.*
2. Sri Chandana, P. Issues, Abatement and Remediation of Environmental Pollution. *National Conference on Emerging Trends in Environment (ETE-2016), Organized by Dept of Chemistry, RGM College of Engineering & Technology, Nandyal, Kurnool, A.P., 3rd October, 2016.*
3. Dr. P. Sri Chandana. “Seven Billion Dreams. One Planet. Consume With Care”. *Presented on World Environment Day. Invited by Institute of Engineers India Kadapa Local Centre, Kadapa, A.P, India, June 5, 2015.*
4. Sri Chandana, P. Emerging Contaminants and Current Issues. *New Frontiers in Chemical Sciences (NFCS-2014), UGC sponsored National Seminar Organized by Department of Chemistry, Yogi Vemana University, Kadapa, March 4<sup>th</sup>, 2014.*

## ACADEMIC SERVICES:

- Awarded “Outstanding contribution in reviewing award” by Journal of environmental chemical engineering (November 2017)
- National Foundation for Science and technology Development (NAFOSTED), Government of Vietnam, has invited me as reviewer for a project submitted by VNU University of Science, Hanoi, Vietnam. Finished evaluation by March 2018.
- Reviewer
  - Sustainable Environmental Research (Elsevier)
  - Ultrasonics Sonochemistry (Elsevier)
  - Journal of Environmental Chemical Engineering (Elsevier)
  - Journal of Environmental Sciences and Management (ISSN 0119-11449), ISI indexed
  - Journal of Water Supply: Research and Technology AQUA (IWA Publishers)
- Reviewer for the 2016 International conference on Water Resource and Environment (WRE2016) held in Shanghai, China
- Convener for a National Level Symposium entitled “Samsleshana-2K15” Organized by Department of Civil Engineering, AITS, Kadapa on January 24<sup>th</sup>, 2015.
- Governing body member in AITS, Kadapa
- Chief Editor of *Engineering and Science Focus::AITK* an academic monthly bulletin (first issue on October 2014)
- Chief Executive Officer (CEO) of Greener World Environmental Consultancy
- Member of Disciplinary Action Committee in AITS, Kadapa
- Member of Cultural Activities Committee in AITS, Kadapa
- Co-convener for a National Level Symposium entitled “Samsleshana-2K14” by AITS, Kadapa on March 15<sup>th</sup>, 2014.
- Interview Panelist in faculty selection for Civil Engineering Department in AITS (autonomous), Rajampet on 12<sup>th</sup> June, 2013
- Chairman of Board of Studies in Civil Engineering at AITS (autonomous), Rajampet (1<sup>st</sup> May 2013 to 3<sup>rd</sup> Jan 2016)
- Director of Civil Engineering Organization (CEO) since 2013
- Head of the Department of Civil Engineering, AITS (Since September 2012-till date)
- Member of anti-ragging committee in AITS (Since December 2012-till date)
- Served as Panel member in faculty selection for Civil Department in AITS during the period 2012-till date

## ADDITIONAL QUALIFICATIONS:

- Qualified in German Language Course (A-1) from Goethe Institute Taipei in 2009
- Qualified in English Language test conducted by National English Language Testing Service in association with Orient Longman On Nov 19<sup>th</sup>, 2000
- Qualified in Hindi tests up to Vidwan Part-1 conducted by Uttar Bharath Hindi Prachar Sabha in 1994

### THESIS GUIDANCE: (As on Sep 2018)

Degree	Completed	Ongoing
Ph.D.	-	2
M.Tech	29	-
B.Tech	11	-

#### Ph.D Guidance: 2 (Ongoing)

- Advisor for **G. Bhagyamma**, A study on Effect of Nano Materials on the Mechanical Properties of Cement Mortars and their Applications (Tentative title)
- Co-Advisor for **Cheng-Hsien Denton Yang** (D02541006), NTU Taiwan, Photoelectrochemical treatment of emerging contaminants (Tentative title)

#### MEMBERSHIP IN PROFESSIONAL BODIES:

- Fellow of Institute of Engineers India
- Fellow of International Society for Research and Development
- Member of International Association of Engineers
- Member of National Solid Waste Association of India

#### COUNTRIES VISITED:

- ✓ Taiwan, Malaysia, Singapore, Indonesia, Germany, France, Czech Republic