

Publications- summary

Total:	85	(SINCE 2004)
Conference Papers:	37	
International journals:	33	
National journal:	05	
Book chapter	05	
Book	05	
Total Citation till date:	1987	(Google Scholar, September 2020)
h-index:	13	
i10-index:	16	

Patent granted

CERAMIC GLAZING PIGMENT FROM CHROME IRON SLUDGE – Indian Patent no. 300403 dated 19.6.2014 (Application no. 662/Kol/2014) granted in 2017

A CONTINUOUS REACTOR SYSTEM FOR CONDUCTING SUNLIGHT ASSISTED OXIDATIVE DEGRADATION OF

ORGANIC POLLUTANTS IN WASTEWATER- Indian Patent no. 328984 dated 31.3.2017 (Application no. 201731011606 dated 31.3.2017) granted in 2020

International peer reviewed journals

1. **Sampa Chakrabarti** and B. K. Dutta, Photocatalytic Degradation of Model Textile Dyes in Wastewater Using ZnO as Semiconductor Catalyst, **J of Hazardous Materials B112** (2004), 269 -278.
2. **Sampa Chakrabarti**, Basab Chaudhuri, and B. K. Dutta, Adsorption of Model Textile Dyes Using Agricultural Wastes as Adsorbents: Equilibrium, Kinetics and Fixed Bed Column Study, **International Journal of Environment and Pollution**, Special issue entitled '*Application of biosorbents in wastewater treatment*' 2008, Vol.33, No.1-4, 261-274.
3. **Sampa Chakrabarti** and B. K. Dutta, On the adsorption and diffusion of Methylene Blue on Glass Fibers, **J. of Colloid and Interface Science** 286 (2005), 807-811.
4. **Sampa Chakrabarti** and B. K. Dutta, Dye-sensitized photocatalytic degradation of PVC-ZnO composite film, **International Journal of Environmental Technology and Management**, special issue entitled '*Advanced technology in environmental remediation*, 2008, Vol.9, No.1, 33-46
5. **Sampa Chakrabarti**, Smritikana Banerjee, Basab Chaudhuri, Sekhar Bhattacharjee and B. K. Dutta, Application of Biodegradable Natural Polymers for Flocculated Sedimentation of Clay-Slurry, **Bioresource Technology**, Vol. 99, Issue 8 (2008), 3313 – 3317.
6. Arunava Sinha, **Sampa Chakrabarti**, Basab Chaudhuri, Sekhar Bhattacharjee, Parthasarathi Ray and Saswati Bandyopadhyay Ray, On the oxidative degradation of acetic acid liquor in wastewater emanating from hazardous industries, **Industrial and Engineering Chemistry Research**, 46, 2007, 3101 – 3107.

7. **Sampa Chakrabarti** Basab Chaudhuri, Paramita Das, Sekhar Bhattacharjee and B. K. Dutta, Degradation mechanism and kinetic model for photocatalytic oxidation of PVC-ZnO composite film in presence of a sensitizing dye and UV radiation, **Journal of Hazardous Materials**, 2008, Vol. 154, Issues 1 – 3, 230 – 236.
8. Debashis Sarkar, **Sampa Chakrabarti** and B.K. Dutta, Application of Shrinking Core Model to the adsorption of Methylene Blue on glass fiber, **Applied Mathematical Modeling**, 2009, 33, 2874–2881.
9. Ratnadeepa Dutta, Saker Mohammad, **Sampa Chakrabarti**, Basab Chaudhuri, Sekhar Bhattacharjee and Binay K. Dutta, Reduction Of Hexavalent Chromium In Aqueous Medium With Zerovalent Iron, **Water Environ. Res.**, **82** (2009) 134 - 146.
10. **Sampa Chakrabarti**, Basab Chaudhuri, Sekhar Bhattacharjee, Ajay K Ray and Binay K Dutta; Photoreduction of hexavalent chromium in aqueous solution in presence of zinc oxide as semiconductor catalyst; **Chemical Engineering Journal**, 153 (2009) 86-93 (Impact Factor: 2.813, 2008)
11. **Sampa Chakrabarti**, Binay K Dutta, Resat Apak; Active manganese oxide: a novel adsorbent for treatment of wastewater containing azo dyes; **Water Science & Technology**, WST (2009), 60.12, 3017 - 3024
12. **Sampa Chakrabarti**, Devika Sil, Photocatalytic degradation of PVC-ZnO composite film under tropical sunlight and artificial UV radiation: a comparative study, **Solar Energy** 84 (2010) 476-485.
13. Sabtanti Harimurti, Binay K. Dutta, I. Fauzi B. M. Ariff, **Sampa Chakrabarti**, Davide Vione; Degradation of Monoethanolamine in Aqueous Solution by Fenton's Reagent with Biological Post-treatment, **Water Air Soil Pollution**, (2010) 211: 273-286
14. Binay K Dutta, Sabtanti Harimurti, Idzham F. M. Ariff, **Sampa Chakrabarti**, Davide Vione; Degradation of diethanolamine by Fenton's reagent combined with biological post-treatment, **Desalination and Water Treatment**, 19 (2010) 286 – 293.
15. Arghya Banerjee, Sriparna Panda, Monojit Sidhanta, **Sampa Chakrabarti**, Basab Chaudhuri and Sekhar Bhattacharjee; Utilisation of eggshell membrane as an adsorbent for carbon dioxide. **International Journal of Global Warming**, 2010; 2 (3): 252
16. Pallavi Mitra, **Sampa Chakrabarti**, Debashis Sarkar and Binay K Dutta, Reduction of hexavalent chromium with zero-valent iron: Batch kinetic studies and rate model; **Chemical Engineering Journal** 171 (2011) 54–60.
17. Prantik Banerjee, **Sampa Chakrabarti**, Saikat Maitra, Binay K. Dutta, Zinc oxide nanoparticles – Sonochemical synthesis, characterization and application for photo-remediation of heavy metal, **Ultrasonics Sonochemistry**; 19 (2012) 85–93.
18. Isita Nandi, Pallavi Mitra, Prantik Banerjee, Anirban Chakrabarti, Mahua Ghosh, **Sampa Chakrabarti**, Ecotoxicological impact of sunlight assisted photoreduction of hexavalent

chromium present in wastewater with zinc oxide nanoparticles on common *Anabaena flos-aquae*; Frontier Article, **Ecotoxicology and Environmental Safety** 86 (2012) 7–12.

19. Anirban Chakraborty, **Sampa Chakrabarti**, Basab Chaudhuri, and Sekhar Bhattacharjee; Spectroscopic Estimation of Chloroauric Acid During Synthesis of Gold Nanoparticles by Citrate Reduction Method, **Advanced Science, Engineering and Medicine**, Vol. 4, pp. 128–131, 2012, ISSN: 2164-6627 (print); EISSN: 2164-6635 (online).
20. Pallavi Mitra, Prantik Banerjee, **Sampa Chakrabarti**, Sekhar Bhattacharjee, Utilization of solar energy for photoreduction of industrial wastewater containing hexavalent chromium with zinc oxide semiconductor catalyst, **Desalination and Water Treatment**, (2013)1 -9.
21. Pallavi Mitra, Prantik Banerjee, Debasish Sarkar, **Sampa Chakrabarti**; Commercial steel wool for reduction of hexavalent chromium in wastewater – batch kinetic studies and rate model; **International Journal of Environmental Science and Technology**, Springer, 2013. (Impact Factor: 1.84) Published online in March 2013. DOI 10.1007/s13762-013-0219-y [Article 20: Volume 11, Issue 2, March 2014, Pages 449-460 (12)]
22. **Sampa Chakrabarti**, Xin Liu, Changning Li, Prantik Banerjee, Saikat Maitra, and Mark T Swihart, Single-pot heating method for synthesis of iron-doped zinc oxide nanoparticles: Influence of precursor composition and temperature –**International Journal of Materials Engineering and Innovation**, Inderscience Publications-Vol 6, No.1, 2015.
23. Prantik Banerjee, Dipesh Das, Pallavi Mitra, Mahuya Sinha, Sanjit Dey and **Sampa Chakrabarti**, Solar photocatalytic treatment of wastewater with zinc oxide nanoparticles and its ecotoxicological impact on *Channa punctatus* –a freshwater fish, **J. Mater. Environ. Sci.** (ISSN : 2028-2508, IF 1.09) 5 (4) (2014) 1206-1213
24. Amrita Dutta, Prantik Banerjee, Debasish Sarkar, Sekhar Bhattacharjee, **Sampa Chakrabarti**, Degradation of Trypan Blue in wastewater by sunlight assisted modified photo-Fenton reaction, **Desalination and Water Treatment** T&F (IF 0.852) (2014) 1-9.
25. **Sampa Chakrabarti**, Prantik Banerjee, Preparation and characterization of multifunctional cotton fabric by coating with sonochemically synthesized zinc oxide nanoparticle-flakes and a novel approach to monitor its self-cleaning property, **Journal of the Textile Institute**; (ISSN 0040-5000, IF: 0.775) DOI 10.1080/00405000.2014.955962; (2014)
26. Amrita Dutta, Ishita Chakraborty Debasish Sarkar, **Sampa Chakrabarti**, Sunlight-Assisted Photo-Fenton Degradation of Pesticide in Wastewater: Ecotoxicological Impact on *Nostoc* sp. Algae, **Water Air Soil Pollut** (2015) 226:398; DOI 10.1007/s11270-015-2661-6
27. Anirban Roy, Saikat Maitra, Sobhan Ghosh, **Sampa Chakrabarti**, Sonochemically synthesized iron-doped zinc oxide nanoparticles: Influence of precursor composition on characteristics, **Materials Research Bulletin** 74 (2016)414–420. DOI 10.1016/j.materresbull.2015.11.006.

28. Paramita Das, Anirban Roy, **Sampa Chakrabarti**, Photocatalytic degradation of the nanocomposite film comprising polyvinyl chloride (PVC) and sonochemically synthesized iron-doped zinc oxide: a comparative study of performances between sunlight and UV radiation; (2017) **Journal of Polymer and the Environment**; Vol 24, No.4, page 102-112
29. Suchismita Majumdar, Anirban Roy, Ishita Nandi, Prantik Banerjee, Swapna Banerjee, Mahua Ghosh, **Sampa Chakrabarti**; Paper Coated with Sonochemically Synthesized ZnO Nanoparticles: Enhancement of Properties for Preservation of Documents; **TAPPI Journal**; January 2017, Vol 16, No.1, Page 25-33
30. Ramesh Raliya, Caroline Avery, **Sampa Chakrabarti**, Pratim Biswas; Photocatalytic degradation of methyl orange dye by pristine titanium dioxide, zinc oxide, and graphene oxide nanostructures and their composites under visible light irradiation, **Appl Nanosci** (2017) Volume 7, Issue 5, pp 253–259 (DOI 10.1007/s13204-017-0565-z)
31. Anirban Roy, Saikat Maitra, **Sampa Chakrabarti**, “Sonochemical syntheses of iron doped zinc oxide nanoparticles at different sonication powers and temperatures with their application for photocatalytic degradation of PVC-ZnO composite film” **Int. J. Nanoparticles**, 2018, Vol. 10, No. 3,
32. Amrita Dutta, Nayan Das, Debasish Sarkar, **Sampa Chakrabarti**; Development and characterization of a continuous solar-collector-reactor for wastewater treatment by photo-Fenton process; **Solar Energy** 177 (2019) 364–373 (Elsevier, IF 4.37)
33. Mahjabeen Akram, **Sampa Chakrabarti**; Mechanism and Kinetic Model of the Oxidative Degradation of Rhodamine B Dye in Aqueous Solution by Ultrasound-assisted Fenton’s Process; *In Press* with **Int. J. of Environment and Waste Management**; Inderscience Publishers (ISSN 1478-9868/9876)

Indian Journal

1. **Sampa Chakrabarti**, Devika Sil, Basab Chaudhuri, Sekhar Bhattacharjee, Comparison of the photocatalytic degradation of polyvinyl chloride and polystyrene with zinc oxide semiconductor catalyst under tropical sunlight, **Chemical Technology – an Indian Journal** published by Trade Science Inc, India.(ISSN 0974-7443)(2011) Vol 6, Issue 1, p58-64
2. Pallavi Mitra, Sandeep Karmakar, Debasish Sarkar, **Sampa Chakrabarti**, Chemical Reduction of hexavalent chromium in wastewater - effect of pH and dosing of Mohr salt, Journal of the Leather Technologists Association (**JILTA**), Vol 3, May 2011,
3. Mandip Saha Roy, Pallavi Mitra, Debasish Sarkar, **Sampa Chakrabarti**, Removal of hexavalent chromium from wastewater by reduction with zerovalent iron and subsequent precipitation by alkali, Journal of the Leather Technologists Association (**JILTA**), Vol 3, March 2011, 165-172

4. Prantik Banerjee, Pallavi Mitra, **Sampa Chakrabarti**, Sekhar Bhattacharjee, Zinc oxide nanoparticles for the photocatalytic reduction of hexavalent chromium in wastewater under sunlight, **Environmental Science :An Indian Journal**; published by Trade Science Inc, India, Accepted in August 2012.
5. Mahjabeen Akram, Anirban Chowdhury, **Sampa Chakrabarti**, Removal of Rhodamine B Dye from Wastewater by Ultrasound-Assisted Fenton Process: A Comparison between Bath and Probe Type Sonicators; **Environmental Science: An Indian Journal**; Environ Sci Ind J. 2016;12(9):115

Conference papers/abstracts

1. **Sampa Chakrabarti** and B. K. Dutta, Photocatalytic oxidative degradation of PVC-ZnO composite films in the presence of a dye sensitizer, was presented in International Conference on Environment 2006 (**ICENV 2006**) Nov. 13-15, 2006 at Penang, **Malaysia**.
2. **Sampa Chakrabarti**, K. Ariffin and B. K. Dutta, Adsorption of an azo-dye on active manganese oxide, Presented in **9th Fundamentals of Adsorption (FOA9) Conference, 2007** organized by Italian Association of Chemical Engineers (AIDIC), on behalf of International Adsorption Society(IAS) at Giardini Naxos, Sicily, **Italy**, May 20-25, 2007
3. **Sampa Chakrabarti** and B. K. Dutta, Sedimentation of clay slurry using biodegradable polysaccharides as flocculant, was presented in **Water Malaysia 2007**, Kuala Lumpur, **Malaysia**, in May 2007.
4. Amit Kumar Das, Rajib Kumar Das, **Sampa Chakrabarti** and B. K. Dutta, Photocatalytic reduction of hexavalent chromium in aqueous medium using Zinc Oxide as semiconductor catalyst, presented in **CHEMCON 2007**, Kolkata, **India** in December 2007
5. **Sampa Chakrabarti**, Basab Chaudhuri, Sekhar Bhattacharjee and Binay K. Dutta; On the removal of hexavalent chromium from wastewater: a comparative study between photocatalytic and chemical reduction processes; was presented in regular session in **WSEAS Environment, Ecosystem and Development (EED08)** conference held in Cairo, **Egypt** in December 2008.
6. Devika Sarkar, Sukamal Das, Aritra Chakrabarti, **Sampa Chakrabarti**, Basab Chaudhuri, Sekhar Bhattacharjee, Debabrata Chakrabarti, Utilization of Solar Energy for the Treatment of Waste Plastics: Photo catalytic degradation of Polyvinyl Chloride (PVC) with Zinc Oxide and Sunlight, was presented in **CHEMCON 2008** (held during Dec 27-30, 2008 in Chandigarh, **India**)
7. **Sampa Chakrabarti**, Pallavi Mitra , Debasish Sarkar and Sekhar Bhattacharjee, Removal of Hexavalent Chromium from Wastewater by Reduction with Steel Wool and Subsequent Precipitation, was presented in **ICEST 2010** held during April 23-25, 2010 in Bangkok, **Thailand**.

8. **Sampa Chakrabarti**, Prantik Banerjee, Saikat Maitra and Sekhar Bhattacharjee, Comparison of the photocatalytic oxidation of an azo dye using Zinc Oxide nanoparticles under artificial and solar radiation' presented and published in the proceedings of **ICFANT 2010** held in **Kolkata**.
10. **Sampa Chakrabarti**, Prantik Banerjee; Sonochemical synthesis and characterization of zinc oxide nanoparticles using different solvents and study of its efficacy as a semiconductor photocatalyst for reducing hexavalent chromium in wastewater under tropical sunlight; presented and published in the proceedings of **Nanotech 2010** conference held in **Kochi**, Kerala, India during December 19-21, 2010
11. Prantik Banerjee, **Sampa Chakrabarti**, Sekhar Bhattacharjee; Utilization of solar energy for photocatalytic oxidative degradation of azo dye in wastewater using zinc oxide nanoparticles; was presented in **ICENV 2010** conference held in **Penang**, Malaysia during December 13 – 15, 2010.
12. **Sampa Chakrabarti**, Pallavi Mitra, Prantik Banerjee, Kaberi Tah and Saikat Pal, Oxidative Degradation of Eosin Y dye in water with Fenton's Reagent and Comparison with Photo-Fenton and Sono- Fenton Degradation' in **AOP 2010** (International conference on advanced oxidation processes) held at **Kottayam**, Kerala, India during September 18 -21, 2010.
13. Pallavi Mitra, Prantik Banerjee, **Sampa Chakrabarti**, Debasish Sarkar and Sekhar Bhattacharjee, Solar photo reduction of hexavalent chromium in wastewater with zinc oxide semiconductor catalyst, was presented in **ICENV 2010** conference held in **Penang**, Malaysia during December 13 – 15, 2010.
14. Pallavi Mitra, Sandeep Karmakar, Debasish Sarkar, **Sampa Chakrabarti**, Chemical Reduction of hexavalent chromium in wastewater - effect of pH and dosing of Mohr salt, was presented in **AIPTC** conference organized by **FOSET** during February 12- 1, 2011 in Kolkata.
15. Mandip Saha Roy, Pallavi Mitra, Debasish Sarkar, **Sampa Chakrabarti**, Removal of hexavalent chromium from wastewater by reduction with zerovalent iron and subsequent precipitation by alkali, was presented in **AIPTC** conference organized by **FOSET** during February 12- 1, 2011 in Kolkata.
16. Prantik Banerjee, Indranil Nag, Somnath Chowdhury and Sampa Chakrabarti, Self-cleaning cotton fabric using sonochemically synthesized zinc oxide nanoparticles, has been selected for oral presentation in **NANOSIM 2012** conference (AICTE sponsored national conference) organized by **JIS**, Kalyani, West Bengal.
17. Prantik Banerjee, Saikat Maitra, Sekhar Bhattacharjee, **Sampa Chakrabarti**; Photocatalytic degradation of azo-dye under sunlight with different types of sonochemically synthesized ZnO nanoparticles – A comparative study ; Hydrology: Current Research, Volume 3 Issue 4, Special Issue: Proceedings of **Hydrology 2012 conference**, San Antonio, **Texas USA**

18. Pallavi Mitra, Prantik Banerjee, Debashis Sarkar, **Sampa Chakrabarti**; Reduction of hexavalent chromium in wastewater using hydrogen peroxide, *Hydrology: Current Research*, Volume 3 Issue 4, Special Issue: Proceedings of **Hydrology 2012 conference**, San Antonio, **Texas USA**
19. Argha Dey, Pallavi Mitra, **Sampa Chakrabarti**, Saikat Maitra, Beneficial use of chrome-iron sludge; was presented in the **Environment: Pollution and Protection (EPP-2014)** national conference held at NIT, Durgapur during January 31-February 2, 2014.
20. Amrita Dutta, **Sampa Chakrabarti**, Debasish Sarkar, Degradation of Trypan Blue dye in aqueous solution by photo-Fenton reaction: comparison between two sources of light; was presented in the **Environment: Pollution and Protection (EPP-2014)** national conference held at NIT, Durgapur during January 31-February 2, 2014.
21. **Sampa Chakrabarti**, Pallavi Mitra, Prantik Banerjee, Debasish Sarkar, Reduction of hexavalent chromium present in wastewater by steel wool in a continuous flow system *APCBES procedia (proceedings of ICESD 2014, Singapore)* (ISSN: 2212-6708), 10, 59 – 63.
22. Amrita Dutta, Anirban Roy, Debasish Sarkar, **Sampa Chakrabarti**; Solar photo-Fenton oxidative degradation of a dye-pollutant in wastewater using a novel continuous flow reactor; was presented and published in the proceedings of the **30th National Convention of Chemical Engineers** on the theme 'Recent trends in research, development and innovations in chemical industries' during September 6-7, 2014, Agartala, Tripura, India.
23. Anirban Roy, Sobhan Ghosh, Saikat Maitra, **Sampa Chakrabarti**; Sonochemical synthesis and characterization of iron(Fe)-doped zinc oxide(ZnO) nanoparticles; was presented in the National Conference on Nanoscience and Nanotechnology (**NS&NT-2014**) during September 18-19, 2014 at CRNN, University of Calcutta, Kolkata, India.
24. Anirban Roy, Arnab Bhattacharya, Saikat Maitra, **Sampa Chakrabarti**; Solar photocatalytic degradation of dye pollutant using sonochemically synthesized iron-doped and undoped zinc oxide nanoparticles; was presented at International conference on water: from pollution to purification (**ICW-2015**), during January 23-26, 2015 at Kottayam, Kerala, India
25. Amrita Dutta, Debasish Sarkar, Sampa Chakrabarti; Continuous oxidative degradation of insecticide in wastewater by solar photo-Fenton process using a plug-flow reactor; was presented at International conference on water: from pollution to purification (**ICW-2015**), during January 23-26, 2015 at Kottayam, Kerala, India
26. Arnab Bhattacharya, Anirban Roy, Saikat Maitra, **Sampa Chakrabarti**; Sonochemical synthesis, characterization and photocatalytic application of iron doped zinc oxide nanoparticles under UV and solar radiation; was presented in **10th All India People's Technology Congress (AIPTC-FOSET)** during February 6-7, 2015 in Kolkata, India
27. Arnab Bhattacharya, Anirban Roy, Saikat Maitra, **Sampa Chakrabarti**; Sonochemically synthesized iron-doped zinc oxide nanoparticle: influence of varying sonication power, was

presented at 6th All India Inter Engineering College Academic Meet 2015 on April 26, 2015 in Kolkata, India (**Best paper award**)

28. Soumyadip Paul, Anirban Roy, **Sampa Chakrabarti**: *Utilization of sonochemically synthesized iron-doped zinc oxide nanoparticles for photocatalytic degradation of PVC-composite film under UV radiation*: 7th All India Inter Engineering College Academic Meet - 2016 & Innovative Model Competition for a Sustainable Society, 13th March, 2016 Organized by Forum of Scientists, Engineers & Technologists (FOSET) Mankundu, Hooghly – 712139. (Best Paper Award)
29. Anirban Chowdhury, Mahjabeen Akram, **Sampa Chakrabarti**: *Oxidative degradation of Rhodamine-B dye in wastewater using ultrasound-assisted Fenton's reaction: a comparison between bath and probe type sonicators*: 7th All India Inter Engineering College Academic Meet - 2016 & Innovative Model Competition for a Sustainable Society, 13th March, 2016 Organized by Forum of Scientists, Engineers & Technologists (FOSET) Mankundu, Hooghly – 712139. (2nd Best Paper).
30. Anirban Roy, Saikat Maitra, **Sampa Chakrabarti**: *Solar photocatalytic degradation of PVC by sonochemically synthesized iron-doped zinc oxide nanoparticles*: National Conference on Nanotechnology: Materials and Applications: (NCoN:M&A) 2016 organized by School of Materials Science and Nanotechnology, Jadavpur University, Kolkata, 16th-17th June, 2016, Jadavpur University, Kolkata.
31. Deepangsu Chatterjee, Anirban Roy, **Sampa Chakrabarti**: *Solar photocatalytic degradation of Methylene Blue dye in water using sonochemically synthesised iron-doped zinc oxide nanoparticles immobilized in polyvinyl chloride film*: 8th All India Inter Engineering College Academic Meet- 2017 & Innovative Model Competition for a Sustainable Society organized by Forum of Scientists, Engineers & Technologists (FOSET), 19th March, 2017, Panihati, Kolkata, West Bengal.
32. Bipasha Das, Anirban Roy, **Sampa Chakrabarti**: *Iron-doped zinc oxide nanoparticles: Sonochemical synthesis at different input powers and use in UV-assisted photocatalytic degradation of PVC nanocomposite film*: 9th All India Inter Engineering College Academic Meet- 2018 & Innovative Model Competition for a Sustainable Society organized by Forum of Scientists, Engineers & Technologists (FOSET), 25th March, 2018, Serampore, Hooghly, West Bengal.
33. Anirban Roy, Saikat Maitra, **Sampa Chakrabarti**; *Solar photocatalytic degradation of PVC film with Fe-doped ZnO nanoparticles having different dopant concentrations*; (**presented by Sampa Chakrabarti**) 10th European meeting on Solar Chemistry and Photocatalysis: Environmental Applications (**SPEA10**) conference organized by Solar Energy Research Centre and University Of Almeria held in **Almeria, Spain** during June 4-8, 2018.

34. Anirban Roy, Sampa Chakrabarti, *Floating composite film of PVC and iron-doped ZnO nanoparticles for conservation and photocatalytic treatment of water under sunlight*; in 12th All India Peoples' Technology Congress 2019 organized by FOSET, Kolkata 16-17th February, 2019
35. Parbatee Nag, Aniruddha Mukhopadhyay, Amrita Debnath, Anirban Roy, Sampa Chakrabarti; *Degradable plastic composite film – a comparison between photocatalytic and biodegradation*; in 2nd International Conference on the Bioprocess Engineering and Technology, (ICABET 2020), January 20 – 22, 2020 at Heritage Institute of Technology, Kolkata, India. (selected for a chapter of a book to be published by Springer-Nature)
36. Parbatee Nag, Aniruddha Mukhopadhyay, Amrita Debnath, Anirban Roy, Sampa Chakrabarti; *Plastic-Semiconductor Composite Films: Solar Photocatalytic and Microbial Degradations in Series*; in 9th International Conference on Sustainable Waste Management towards Circular Economy (9th IconSWM-CE 2019; November 27 - 30, 2019 at KIIT (Kalinga Institute of Industrial Technology), Bhubaneswar, Odisha, India) (selected for a chapter of a book to be published from the conference)
37. Mahjabeen Akram, Sampa Chakrabarti; *Oxidative degradation of Rhodamine B dye in water - comparison of UV and sunlight-assisted Fenton processes*; in 9th International Conference on Sustainable Waste Management towards Circular Economy (9th IconSWM-CE 2019; November 27 - 30, 2019 at KIIT (Kalinga Institute of Industrial Technology), Bhubaneswar, Odisha, India) (selected for a chapter of a book to be published from the conference)

Book Chapters

1. Amrita Dutta, **Sampa Chakrabarti**, Debasish Sarkar, *Degradation of Trypan Blue dye in aqueous solution by photo-Fenton reaction: comparison between two sources of light*; in **Environmental Pollution and Protection : Present Scenario**(ISBN 978-81-8487-4105) Ed. Dr. Kalyan Adhikari et al, NIT, Durgapur published by Narosa Publishers, New Delhi, India.
2. **Sampa Chakrabarti** and Basab Chaudhuri, *Removal of brominated flame retardants present in water: a short review*; in **Environica**, Vol 1, 2014 (ISBN 978-93-84106-14-0) Ed. Prof. J.K. Datta et al. published by Levant Books and The University of Burdwan
3. **Sampa Chakrabarti**, Prantik Banerjee, Pallavi Mitra; *Solar photocatalytic reduction of hexavalent chromium in wastewater using zinc oxide semiconductor catalyst : a comparison of performances between micro and nanoparticles*; in a book entitled: **Physical Chemical and Biological Treatment Processes for Water and Wastewater** (Ed. Dr. Tushar Kanti Sen, Curtin University, Australia) published by Nova Science Publishers, Inc NY 11788-3619, USA. 2015 (ISBN 978-1-63483-396-7)

4. Anirban Roy, Sobhan Ghosh, Saikat Maitra, **Sampa Chakrabarti**; *Sonochemical synthesis and characterization of iron(Fe)-doped zinc oxide(ZnO) nanoparticles* in **Nanospectrum: A Current Scenario** – Conference proceedings - Published by Allied Publications Pvt Ltd New Delhi, (2016) on behalf of CRNN, University of Calcutta (ISBN 978-93-85926-06-8)
5. Sampa Chakrabarti, Prantik Banerjee, Pallavi Mitra, Anirban Roy; *Zinc oxide based nanomaterials for environmental applications* (Chapter 5) in **Handbook of Smart Photocatalytic Materials: Environment, Energy, Emerging Applications and Sustainability**; ISBN 9780128190494; Editor: Chaudhery Mustansar Hussain & Ajay Kumar Mishra, Elsevier, USA, 2020

Book / Editing

1. Edited conference proceeding: **Nanospectrum: A Current Scenario** – Conference proceedings - Published by Allied Publications Pvt Ltd New Delhi, (2016) on behalf of CRNN, University of Calcutta (ISBN 978-93-85926-06-8)
2. Single authored book: **Solar Photocatalysis for Environmental Remediation – TERI Press (New Delhi, India); 2018**, ISBN 978-81-7993-660-3
3. **Solar Photocatalysis for Environmental Remediation** – Reprinted internationally by **CRC Press (T&F group)** in December **2018** (in collaboration with TERI Press); ISBN 9780367178970 - CAT# K416004
4. **Associate Editor – Journal of The Institute of Engineers (India): Series E** –(Journal no. 40034 of Springer Nature) – since September 2018
5. Single authored book –পরিবেশ ও বিজ্ঞান - প্রাণিত প্রবন্ধমালা; পশ্চিমবঙ্গ রাজ্য পুস্তক পর্ষদ; ২০১৯–ISBN 978-81-247-0771-5
6. Single authored book **Treatment of Urban Solid Waste – Engineering and Integrated Management**; TERI Press (New Delhi, India); 2019; ISBN 977-81-7993-658-0

Other Publications:

- সৌরকরোজ্জ্বল – **শম্পা চক্রবর্তী** ও বাসব চৌধুরী- আন্তর্জাতিক পাঠশালা (ISBN2230-9594) – ২০১১
- পরিবেশ নারীবাদ বা Ecofeminism তত্ত্ব, তথ্য ও ভাবনা- **শম্পা চক্রবর্তী**- আন্তর্জাতিক পাঠশালা (ISBN2230-9594) – ২০১২
- জীবনবিজ্ঞানী রবীন্দ্রনাথ-**শম্পা চক্রবর্তী**- আন্তর্জাতিক পাঠশালা (ISBN2230-9594) – ২০১২
- অমৃতের সন্ধানে একটি Transhumanist বা পরামনুষ্যত্ববাদী যাত্রা – **শম্পা চক্রবর্তী**- আন্তর্জাতিক পাঠশালা (ISBN2230-9594) – ২০১৩
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