

## Curriculum Vitae

### SUBHASHISH DEY

18/1B, Purna Chandra Mitra Lane

Tollygunge, Kolkata

West Bengal, India, Pin-700033

Email: subhasdey633@gmail.com, shubhashish.rs.civ13@itbhu.ac.in

Mobile: +91-6291284104/8017590496



### OBJECTIVE

Professional environmental engineer who is a creative, self-motivated, and resourceful individual, who thinks outside the box, has a strong, diverse technical skills and feel worthy of the responsibilities entrusted on me by the organization.

### ACADEMIC RECORD

Qualification	Institution	Board/University	Year	Percentage/CGPA
<b>Ph.D.</b> (Civil Engineering)	IIT (BHU) Varanasi	IIT (BHU) Varanasi	2018	<b>N.A.</b>
<b>M.Tech</b> (Civil Engineering)	IIT (BHU) Varanasi	IIT (BHU) Varanasi	2013	<b>8.45</b> <b>(First Hons.)</b>
<b>M.B.A</b> (Marketing and Finance)	Marketing and Finance	IILM Institute for Higher Education, Gurgaon	2010	<b>70%</b> <b>(First Hons.)</b>
<b>B.E.</b> (Environmental Engineering)	U.I.T.R.G.P.V Bhopal	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	2007	<b>75.52 %</b> <b>(First Hons.)</b>
<b>Class XII</b>	Lahiri H.S. School Chirimiri (C.G.)	C.G. Board	2002	<b>64.69%</b>
<b>Class X</b>	Lahiri H.S. School Chirimiri (M.P.)	M.P. Board	2000	<b>77.52%</b>

### EXPERIENCE

Joining Assistant Professor in Civil Engineering Department, Seshadri Rao Gudlavalleru Engineering College, Andhra Pradesh, India from July 15, 2019 to present (4 years 3 month)

### PUBLICATIONS: INTERNATIONAL AND NATIONAL JOURNALS

1. **S. Dey**, G.C. Dhal, D. Mohan, R. Prasad and R.N. Gupta, "Cobalt doped CuMnOx catalysts for the preferential oxidation of carbon monoxide", Applied Surface Science 2018, 441, 303-316. (Published: Elsevier SCI, Impact factor 6.707)
2. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, "Low-temperature complete oxidation of CO over various manganese oxide catalysts", Atmospheric Pollution Research 2018, 9, 755-763. (Published: Elsevier SCI, Impact factor 4.58)
3. G.C. Dhal, **S. Dey**, D. Mohan and R. Prasad, "Simultaneous abatement of diesel soot and NO<sub>x</sub> emissions by effective catalysts at low temperature: An overview", Catalysis Reviews 2017, 60(3), 437-496. (Published: Taylor and Francis SCI, Impact factor 13.60)
4. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, "Synthesis and characterization of AgCoO<sub>2</sub> catalyst for oxidation of CO at a low temperature", Polyhedron 2018, 155, 102-113. (Published: Elsevier SCI, Impact factor 3.052)
5. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, "Effect of preparation conditions on the catalytic activity of CuMnOx catalysts for CO oxidation," Bulletin of Chemical Reaction Engineering & Catalysis 2017, 12(3), 437-451. (Published: Elsevier Scopus, ESCI Impact factor 1.5)
6. **S. Dey**, G.C. Dhal, R. Prasad and D. Mohan, "Effects of doping on the performance of CuMnOx catalyst for CO oxidation," Bulletin of Chemical Reaction Engineering & Catalysis 2017, 12(3), 370-383. (Published: Elsevier Scopus, Impact factor 1.5)
7. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, "The choice of precursors in the synthesizing of CuMnOx catalysts for the maximizing CO oxidation", International Journal of Industrial Chemistry 2018, 9(3), 199-214. (Published: Scopus, Impact factor 1.8).
8. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, "Study of Hopcalite (CuMnOx) catalysts prepared through a novel route for the oxidation of carbon monoxide at low temperature," Bulletin of Chemical Reaction Engineering & Catalysis 2017, 12(3), 393-407. (Published: Elsevier Scopus, Impact factor 1.5)

9. G.C. Dhal, **S. Dey**, D. Mohan and R. Prasad, "Simultaneous elimination of Soot and NO<sub>x</sub> through Silver- Barium based catalytic materials", *Bulletin of Chemical Reaction Engineering & Catalysis* 2017, 12(1), 647-657. (Published: Elsevier Scopus, Impact factor 1.5)
10. G.C. Dhal, **S. Dey**, D. Mohan and R. Prasad, "Simultaneous control of NO<sub>x</sub>-Soot by substitutions of Ag and K on perovskite (LaMnO<sub>3</sub>) catalyst", *Bulletin of Chemical Reaction Engineering & Catalysis* 2018, 13(1), 144-154. (Published: Elsevier Scopus, Impact factor 1.5)
11. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, "Characterization and activity of CuMnOx/γ-Al<sub>2</sub>O<sub>3</sub> catalyst for oxidation of carbon monoxide", *Materials Discovery* 2017, 8, 26-34. (Elsevier Journal, Impact factor 1.14)
12. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, "Kinetics of catalytic oxidation of carbon monoxide over CuMnAgOx catalyst", *Materials Discovery* 2017, 8, 18-25. (Elsevier Journal, Impact factor 1.14)
13. **S. Dey**, G.C. Dhal, R. Prasad and D. Mohan, "Effect of nitrate metal (Ce, Cu, Mn and Co) precursors for the total oxidation of carbon monoxide", *Resource-Efficient Technologies* 2017, 3, 293-302. (Elsevier Journal)
14. G.C. Dhal, **S. Dey**, D. Mohan and R. Prasad, "Study of Fe, Co, and Mn-based perovskite-type catalysts for the simultaneous control of Soot and NO<sub>x</sub> from diesel engine exhaust", *Materials Discovery* 2017, 10, 37-42. (Elsevier Journal, Impact factor 1.14)
15. G.C. Dhal, **S. Dey**, D. Mohan and R. Prasad, "Solution combustion synthesis of perovskite-type catalysts for diesel engine exhaust gas purification", *Materials Today Proceedings* 2017, 4, 10489-10493. (Published: Elsevier Scopus, Impact factor 3.2)
16. **S. Dey** and G.C. Dhal, "Applications of silver nanocatalysts for low-temperature oxidation of carbon monoxide", *Inorganic Chemistry Communications* 2019, 110, 107614. (Published: Elsevier Scopus, SCI, Impact factor 3.8)
17. V.V. Praveen Kumar, N. Prasad and S. Dey, "Influence of metakaolin on strength and durability characteristics of ground granulated blast furnace slag based geopolymer concrete", *Structural Concrete* 2019, 1-11. DOI: 10.1002/suco.201900415. (Published: Wiley Scopus, SCI, Impact factor 3.162)
18. **S. Dey** and G.C. Dhal, "Controlling carbon monoxide emissions from automobile vehicle exhaust using copper oxide catalysts in a catalytic converter", *Materials Today Chemistry* 2020, 17, 100282. (Published: Elsevier Scopus, SCI, Impact factor 7.301)
19. **S. Dey** and G.C. Dhal, "Synthesis of Hopcalite catalysts by various methods for improved catalytic conversion of carbon monoxide", *Materials Science for Energy Technologies* 2020, 3, 377-389. (Published: Elsevier Scopus, Impact factor 17.6)
20. **S. Dey**, and N.S. Mehta, "Synthesis and applications of titanium oxide catalysts for lower temperature CO oxidation", *Current Research in Green and Sustainable Chemistry* 2020, 3, 100022. (Published: Elsevier Scopus, Impact factor 5.3)
21. **S. Dey** and V.V. Praveen Kumar, "Supported and un-supported zinc and chromium oxide catalysts for lower temperature CO oxidation: A review", *Environmental Challenges* 2021, 3, 100061. (Published: Scopus, Impact factor 3.8)
22. **S. Dey**, S. Botta, R. Kallam, R. Angadala and J. Andugala, "Seasonal variation in water quality parameters of Gudlavalleru Engineering College pond", *Current Research in Green and Sustainable Chemistry* 2021, 4, 100058. (Published: Elsevier Scopus, Impact factor 5.3)
23. **S. Dey**, and N.S. Mehta, "To optimized various parameters of Hopcalite catalysts in the synthetic processes for low temperature CO oxidation", *Applications in Energy and Combustion Science* 2021, 6, 100031. (Published: Elsevier Scopus, Impact factor 3.5)
24. **S. Dey**, N. Haripavan, S.R. Basha and G.V. Babu, "Removal of ammonia and nitrates from contaminated water by using solid waste bio-adsorbents", *Current Research in Chemical Biology* 2021, 1, 100005. (Elsevier Journal Scopus, Impact factor 1.12)
25. **S. Dey** and B.H. Nagababu, "Applications of food color and bio-preservatives in the food and its effect on the human health", *Food Chemistry Advances* 2022, 1, 100019. (Published: Elsevier Scopus, Impact factor 0.5)
26. N. Haripavan and **S. Dey**, "Delineation of groundwater potential zones using geospatial techniques in APCRDA area" *Polytechnica* 2021, 1-16. (<https://doi.org/10.1007/s41050-021-00033-x>) (Springer Journal)
27. **S. Dey**, V.V. Praveen Kumar, K.R. Goud and S.K.J. Basha, "State of art review on self compacting concrete using mineral admixtures", *Journal of Building Pathology and Rehabilitation* 2021, 6(18), <https://doi.org/10.1007/s41024-021-00110-9> (Published: Scopus, Impact factor 1.24)
28. P. Uppala and **S. Dey**, "Design of Potential Rainwater Harvesting Structures for Environmental Adoption Measures in India", *Polytechnica* <https://doi.org/10.1007/s41050-021-00035-9>, 1-22. (Springer Journal)
29. **S. Dey**, V.V. Praveen Kumar and A.V. Phani Manoj, "An experimental study on strength and durability characteristics of self-curing self-compacting concrete", *Structural Concrete* 2022, 1-30. (Wiley SCI Journal, Impact Factor 3.134)
30. **S. Dey** and N.S. Mehta, "Oxidation of carbon monoxide over various nickel oxide catalysts in different conditions: A review", *Chemical Engineering Journal Advances* 2020, 1, 100008. (Elsevier Scopus Index Journal; Impact Factor 4.60)

31. **S. Dey**, S.R. Basha, G.V. Babu and T. Nagendra, "Characteristic and biosorption capacities of orange peels biosorbents for removal of ammonia and nitrate from contaminated water", *Cleaner Materials* 1, 2021, 100001. (Elsevier Scopus Index Journal; Impact Factor 3.15).
32. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, "Application of hopcalite catalyst for controlling carbon monoxide emission at cold-start emission conditions", *Journal of Traffic and Transportation Engineering (English Edition)* 2019, 6(5), 419-440. (Elsevier Scopus Index Journal, ESCI I.F. 7.9).
33. N.S. Mehta, **S. Dey**, V. Singh and M.R. Majhi, "Analysis the effect of TiO<sub>2</sub> addition on sintering, physical mechanical behavior of porcelain insulating material", *Applied Surface Science Advances* 4, 2021, 100083. (Elsevier Scopus Index Journal, ESCI I.F. 6.2)
34. **S. Dey** and N.S. Mehta, "Automobile pollution control using catalysis", *Resources, Environment and Sustainability* 2, 2020, 100006. (Elsevier Scopus Index Journal, I.F. 8.7)
35. **S. Dey** and G.C. Dhal, "Catalytic conversion of carbon monoxide into carbon dioxide over spinel catalysts: An overview", *Materials Science for Energy Technologies* 2, 2019, 575-588. (Elsevier Scopus Index Journal, I.F. 17.7)
36. **S. Dey** and G.C. Dhal, "Ceria doped CuMnOx as carbon monoxide oxidation catalysts: Synthesis and their characterization", *Surfaces and Interfaces* 18, 2020, 100456. (Elsevier Scopus Index Journal, I.F. 6.2)
37. **S. Dey** and G.C. Dhal, "Cerium catalysts applications in carbon monoxide oxidations", *Materials Science for Energy Technologies* 3, 2020, 6-24. (Elsevier Scopus Index Journal, I.F. 17.7)
38. **S. Dey** and N.S. Mehta, "Influence the performances of hopcalite catalysts by the addition of gold nanoparticle for low temperature CO oxidation", *Cleaner Engineering and Technology* 4, 2021, 100171. (Elsevier Scopus Index Journal, ESCI I.F. 4.5)
39. **S. Dey**, D. Mohan, G.C. Dhal, and R. Prasad, "Copper based mixed oxide catalysts (CuMnCe, CuMnCo and CuCeZr) for the oxidation of CO at low temperature", *Materials Discovery* 10, 2017, 1-14. (Elsevier Journal)
40. **S. Dey** and G.C. Dhal, "Deactivation and regeneration of hopcalite catalyst for carbon monoxide oxidation: a review", *Materials Today Chemistry* 14, 2019, 100180. (Elsevier Scopus Index Journal, I.F. 7.301)
41. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, "Effect of various metal oxides phases present in CuMnOx catalyst for selective CO oxidation", *Material Discovery* 12, 2018, 63-71. (Elsevier Journal)
42. N.S. Mehta, **S. Dey** and M.R. Majhi, "Electro-mechanical characterization of alumina-based porcelain insulator doped with BaTiO<sub>3</sub> at high temperature with frequency variation", *Materials Chemistry and Physics* 259, 2021, 124020. (Elsevier SCI Index Journal, Scopus I.F. 4.6).
43. **S. Dey**, S. Sun and N.S. Mehta, "Carbon monoxide catalytic oxidation over various iron-based nanoparticles at ambient conditions: A Review", *Carbon Capture Science & Technology* 1, 2021, 100013. (Elsevier Scopus Index Journal, ESCI, I.F. 4.301)
44. **S. Dey** and G.C. Dhal, "Materials progress in the control of CO and CO<sub>2</sub> emission at ambient conditions: An overview", *Materials Science for Energy Technologies* 2, 2019, 607-623. (Elsevier Scopus Index Journal, I.F. 17.7)
45. **S. Dey** and N.S. Mehta, "Synthesis of CuMnOx catalysts by using various precipitants for oxidation of carbon monoxide", *Resources, Environment and Sustainability* 4, 2021, 100025. (Elsevier Scopus Index Journal, I.F. 8.7).
46. **S. Dey** and G.C. Dhal, "Property and structure of various platinum catalysts for low temperature carbon monoxide oxidations", *Materials Today Chemistry* 16, 2020, 100228. (Published: Scopus, ESCI Impact factor 7.3)
47. **S. Dey** and N.S. Mehta, "Selection of Manganese oxide catalysts for catalytic oxidation of Carbon monoxide at ambient conditions", *Resources, Environment and Sustainability* 1, 2020, 100003. (Elsevier Scopus Index Journal, I.F. 8.7).
48. **S. Dey** and G.C. Dhal, "Synthesis of CuMnOx catalysts by novel routes for selective catalytic oxidation of carbon monoxide", *Computational Toxicology* 16, 2020, 100132. (Elsevier Scopus Index Journal, I.F. 5.6).
49. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, "Synthesis of highly active Cobalt catalysts for low temperature CO oxidation", *Chemical Data Collections* 24, 2019, 100283 (Elsevier Scopus Index Journal, I.F. 4.7).
50. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, "Synthesis of silver promoted CuMnOx catalyst for ambient temperature oxidation of carbon monoxide", *Journal of Science: Advanced Materials and Devices* 4, 2019, 47-56. (Elsevier SCI, Scopus Index Journal, I.F. 8.02).
51. **S. Dey** and G.C. Dhal, "The catalytic activity of cobalt nanoparticles for low-temperature oxidation of carbon monoxide", *Materials Today Chemistry* 14, 2019, 100198. (Published: Scopus, ESCI Impact factor 7.3)
52. **S. Dey** and V.V. Praveen Kumar, "The performance of highly active manganese oxide catalysts for ambient conditions carbon monoxide oxidation", *Current Research in Green and Sustainable Chemistry* 3, 2020, 100012. (Elsevier SCI, Scopus Index Journal, I.F. 5.3)
53. D. Mohan, Markandeya, **S. Dey** and S.B. Dwivedi, "Adsorption of arsenic using low cost adsorbents: guava leaf biomass, mango bark and bagasse", *Current Science* 117(4), 2019, 649-661. (Scopus Index Journal, I.F. 1.32)
54. **S. Dey**, G.C. Dhal, R. Prasad and D. Mohan, "Total oxidation of CO by CuMnOx catalyst at a low temperature", *International Journal of Scientific & Engineering Research* 7(10), 2016, 1730-1737.
55. **S. Dey**, G.C. Dhal, R. Prasad and D. Mohan, "The oxidation of carbon monoxide by using different cobalt precursors prepared catalysts", *Asian Journal of Science and Technology* 7(11), 2016, 3850-3856.

56. N. Chaurasia, S.K. Pandey and **S. Dey**, “Recent techniques use for arsenic detection in contaminated ground water”, *International Journal of Current Research* 6(1), 2014, 4398-4401.
57. **S. Dey**, S. Moulali, A. Anurag and V.V.P. Kumar, “An experimental study on strength of concrete with partial replacement of ine aggregate by ferrochrome slag”, *Journal of Building Pathology and Rehabilitation* 4(2), 2021, <https://doi.org/10.1007/s41024-021-00114-5>. (Springer Scopus Index Journal, I.F. 2.32)
58. **S. Dey**, G. C. Dhal, D. Mohan and R. Prasad, “Structural and catalytic properties of Fe and Ni doping on CuMnOx catalyst for CO oxidation”, *Advanced Composites and Hybrid Materials* 3, 2020, 84–97. (Springer SCI and Scopus Index Journal, I.F. 20.1)
59. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, “Ambient temperature complete oxidation of carbon monoxide using hopcalite catalysts for fire escape mask applications”, *Advanced Composites and Hybrid Materials* 2, 2019, 501-519. <https://doi.org/10.1007/s42114-019-00108-5>. (Springer SCI and Scopus Index Journal, I.F. 20.1)
60. **S. Dey**, G.C. Dhal, “Highly active palladium nanocatalysts for low-temperature carbon monoxide oxidation”, *Polytechnica* 1, 2019, 1-25. (Springer Journal)
61. **S. Dey** and G.C. Dhal, “A review of synthesis, structure and applications in hopcalite catalysts for carbon monoxide oxidation”, *Aerosol Science and Engineering* 3, 2019, 97–111. <https://doi.org/10.1007/s41810-019-00046-1> (Springer Scopus Index Journa, I.F. 1.4)
62. **S. Dey** and G.C. Dhal, “Application of perovskite catalysts for carbon monoxide emissions control: an overview”, *Advanced Composites and Hybrid Materials* 3, 2019, 152-164. <https://doi.org/10.1007/s42114-019-00110-x> (Springer SCI Scopus Index Journal, I.F. 20.1)
63. **S. Dey** and G.C. Dhal, “Applications of rhodium and ruthenium catalysts for co oxidation: an overview”, *Polytechnica* 1, 2020, 1-17. (Springer Journal) <https://doi.org/10.1007/s41050-020-00023-5>.
64. **S. Dey**, G.C. Dhal, D. Mohan and R. Prasad, “Advances in transition metal oxide catalysts for carbon monoxide oxidation: a review”, *Advanced Composites and Hybrid Materials* 2, 2019, 626-656. <https://doi.org/10.1007/s42114-019-00126-3>. (Springer SCI and Scopus Index Journal, I.F. 20.1)
65. M. Vinay, P.K. Rama Rao, **S. Dey**, A.H.L. Swaroop, A. Sreenivasulu, K.V. Rao, “Evaluation of Progressive Collapse Behaviour in Reinforced Concrete Buildings”, *Structures* 45, 2022, 1902-1919. (Elsevier SCI, Scopus Index Journal, I.F. 4.12).
66. G.T.N. Veerendra, **S. Dey**, A.V. Phani Manoj and B. Kumarvel, “Life Cycle Analysis for a Suburban Building in vicinity is using Revit Architecture”, *Building Pathology and Rehabilitation* 7(56), 2022, 1-12. (Springer Journal in Scopus Indexing, I.F. 1.86).
67. S. Dey, S.S. Charan, U. Pallavi, A. Sreenivasulu and N. Haripavan, “The removal of ammonia from contaminated water by using various biosorbents”, *Energy Nexus Journal* 7, 2022, 100119, 1-16. (Elsevier Scopus Index Journal, I.F. 1.08)
68. **S. Dey**, N.S.A. Kotaru, G.T.N. Veerendra and A. Sambangi, “The removal of iron from synthetic water by the applications of plants leaf biosorbents”, *Cleaner Engineering and Technology* 9, 2022, 100530, 1-20. (Elsevier ESCI, Scopus Index Journal, I.F. 4.5).
69. **S. Dey**, P. Uppala, A. Sambangi, N. Haripavan and G.T.N. Veerendra, “Recycling of solid waste biosorbents for removal of nitrates from contaminated water”, *Cleaner and Circular Bioeconomy* 2, 2022, 100014, 1-17. (Elsevier Index Journal).
70. **S. Dey**, A. Kotaru and N. Haripavan, “Performances of plant leaf biosorbents for adsorption of phosphorous from synthetic water”, *Cleaner Materials* 8, 2022, 100191, 1-17) (Elsevier ESCI, Scopus Index Journal, I.F. 3.01)
71. **S. Dey**, A. Anurag and V.V. Praveen Kumar, “An experimental study on strength and durability characteristics of concrete with partial replacement of fine aggregate by ferrochrome slag”, *Architecture, Structures and Construction* 2, 2022, 335-347. (Springer Journal)
72. **S. Dey**, “The importance of health insurance in the various insurance sectors in India: A review”, *International Journal of Industrial Marketing* 7(1), 2022, 32-57. (Macrothink Institute Journal).
73. P. Uppala and **S. Dey**, “The Planning of Water Purification Plant at Ponukumadu rural community for Recycling of Waste Water”, *Global Journal of Materials Science and Engineering* 4(3), 2022, 1-7. (Pubtexto Journal)
74. **S. Dey**, N. Haripavan, N.S.A. Kotaru and S. Vamsi, “Applications of plants leaf biosorbents for removal of iron and phosphorus from contaminated water: A review”, *Biomedical Materials & Devices* 6, 2022, 1-24; <https://doi.org/10.1007/s44174-022-00029-w>. (Springer Journal).
75. **S. Dey**, A. Sreenivasulu, G.T.N. Veerendra, A.V. Phani Manoj, N. Haripavan, “Synthetic and Characterization of Mango Leaves Biosorbents for removal of Iron and Phosphorous from Contaminated Water”, *Applied Surface Science Advances* 11, 2022, 100292, 1-20. (Elsevier Scopus and SCI Index Journal, I.F. 6.2).
76. V.V. Praveen Kumar and **S. Dey**, “Study on strength and durability characteristics of nano-silica based blended concrete”, *Hybrid Advances* 2, 2023, 100011, 1-15. (Elsevier Journal)
77. **S. Dey**, A. Sreenivasulu, G.T.N. Veerendra, K. V. Rao, P.S.S. Anjaneya Babu, “Application of Renewable Energy for Energy Production in India: An overview”, *Innovation and Green Development* 1, 2022, 100006, 1-22. (Elsevier Scopus Index Journal, I.F. 1.28)

78. Veerendra. G.T.N., Kumaravel. B., Kodanda Rama Rao P., **S. Dey** and A.V. Phani Manoj, "Forecasting models for surface water quality using predictive analytics", *Environment, Development and Sustainability* 2023, 1-21. <https://doi.org/10.1007/s10668-023-03280-3> (Springer SCI/Scopus Index Journal; I.F. 4.7).
79. S. S. Anjaneya Babu, **S. Dey**, G.T.N. Veerendra and A.V. Phani Manoj, "Performance evaluation of ternary blended cement concrete partially replacement of natural sand with granite quarry dust", *Hybrid Advances* 4, 2023, 100082. (Elsevier Journal).
80. S.S. Anjaneya Babu, V. Ramesh Kode and **S. Dey**, "Bond strength of fly ash and silica fume blended concrete mixes, *Asian Journal of Civil Engineering* 24, 2023, 1-15, <https://doi.org/10.1007/s42107-023-00819-7> (Springer Scopus Index Journal; I.F. 2.2)
81. S. Arunchaitanya and **S. Dey**, "Sorptivity and rapid chloride ion penetration of self-compacting concrete using fly ash and copper slag", *AI in Civil Engineering* 2(4), 2023, 1-14. <https://doi.org/10.1007/s43503-023-00013-3>. (Springer Journal)
82. S. Sai Charan, **S. Dey**, V. V. Praveen Kumar and T. Sireesha, "Performance characteristics of sugarcane bagasse ash and quarry dust in concrete", *Architecture, Structures and Construction* 2023, 1-26. <https://doi.org/10.1007/s44150-023-00096-7>. (Springer Journal)
83. **S. Dey**, G.T.N. Veerendra, P.S.S. Anjaneya Babu, A.V. Phani Manoj and K. Nagarjuna, "Degradation of Plastics Waste and Its Effects on Biological Ecosystems: A Scientific Analysis and Comprehensive Review", *Biomedical Materials & Devices* 4, 2023, 1-43. <https://doi.org/10.1007/s44174-023-00085-w>. (Springer Journal)
84. **S. Dey**, G.T.N. Veerendra and O. Aparna, "A systematic analysis of retrofitting tools in the residential buildings to improve the energy performances by using the STAAD Pro Software", *Innovative Infrastructure Solutions* 8(221), 2023, 1-34. <https://doi.org/10.1007/s41062-023-01192-9>. (Springer Scopus Index Journal, ESCI, I.F. 2.4)
85. G.K. Babu, K. Venkateswara Rao, **S. Dey** and G.T.N. Veerendra, "Performance studies on quaternary blended Geopolymer concrete", *Hybrid Advances* 2, 2023, 100019. (Elsevier Journal)
86. **S. Dey** and N.S. Mehta, "Low temperature catalytic conversion of carbon monoxide by the application of novel perovskite catalysts" *Science in One Health* 1, 2022, 100002, 1-14. (Elsevier Journal)
87. **S. Dey**, N.S. Anusha Kotaru, G.T.N. Veerendra, A. Sambangi, "The removal of iron from synthetic water by the applications of plants leaf biosorbents", *Cleaner Engineering and Technology* 9, 2022, 100530, 1-20. (Elsevier Scopus Index Journal, ESCI; I.F. 4.5)
88. N. Haripavan and **S. Dey**, "Application of Remote Sensing and Geographic Information System in Solid Waste Management for Gudivada Municipality", *Waste Management Journal* 1, 2023, 128-140. (Elsevier Journal)
89. M. Durga Rao, **S. Dey** and B. Panduranga Rao, "Characterization of fiber reinforced self-compacting concrete by fly ash and cement", *Chemistry of Inorganic Materials* 1, 100010, 1-14. (Elsevier Journal)

#### BOOK PUBLICATIONS

1. S. Dey, *Plants leaf biosorbents used for iron & phosphorus removal from water*, Lambert Academic Publishing, ISBN No. 978-620-2-05637-3, Published on 2022-03-22, Pages 96.
2. S. Dey, *Removal of Nitrate and Ammonia from contaminated water by using biosorbents materials*, Lambert Academic Publishing, ISBN No. 978-620-2-05642-7, Published on 2022-01-18, Pages 80.
3. S. Dey and V.V. Praveen Kumar, *An experimental study on strength and durability characteristics of self curing self compacting concrete*, Lambert Academic Publishing, ISBN No. 978-620-2-07936-5, Published on 2021-12-24, Pages 82.
4. S. Dey, *Seasonal variations in the physic and chemical parameters of the Gudlavalleru Engineering College Pond during summer and winter season*, Lambert Academic Publishing, ISBN No. 978-613-9-45332-0, Published on 2022-04-24, Pages 46
5. Sambangi Arunchaitanya and S. Dey, 2023. *Effect of mineral Admixture on self compacting concrete*. Lambert Academic Publications, ISBN no. 978-620-6-14771-8, Pages 1-84.
6. S. Dey, 2023. *Strength and Durability Properties of Self Compacting Concrete*. Lambert Academic Publications ISBN no. 9786206-146827, 1-94.
7. Nekkanti Haripavan and S. Dey, 2023. *Applications of GIS systems in solid waste management for Gudivada AP*. Lambert Academic Publications ISBN no. 978-620-5-508398, 1-84.
8. S. Dey and Anduri Sreenivasulu, 2023. *Degradation of plastics waste and its effects on environmental aspects A scientific analysis and comprehensive review*. Lambert Academic Publications ISBN no. 9786205-513828, 1-76.
9. S. Dey, 2023. *Applications of Plants leaf biosorbents used for iron & phosphorus removal from water*. Lambert Academic Publications ISBN no. 978-620-2-05637-3, 1-87.
10. P.S.S. Anjaneya Babu and S. Dey, 2023. *Evaluation of mechanical and durability properties of ternary blended cement concrete containing granite quarry dust*. Lambert Academic Publications ISBN no. 978-620-6-15974-2, 1-98.
11. Obulasetti Aparna and S. Dey, 2023. *Analysis and design of residential building against gravity and seismic loads by using STAAD PRO Software* Lambert Academic Publications ISBN no. 978-620-6-15974-2, 1-96.
12. S. Dey, 2023. *Application of biosorbents for removal of nitrite from contaminated water*. Lambert Academic Publications ISBN no. 978-620-6-78944-4, 1-77.

## **PARTICIPATION OF NATIONAL PROGRAMMED ON TECHNOLOGY ENHANCED LEARNING**

1. Successfully completed 12 weeks NPTEL-AICTE course of “Environmental Geomechanics” From July-Oct, 2021.
2. Successfully completed 12 weeks NPTEL-AICTE course of “Environmental Remediation of Contaminated Sites”, From Jan-Oct, 2021
3. Successfully completed 12 weeks NPTEL-AICTE course of “Applied Environmental Microbiology” From Jan-April, 2023.
4. Successfully completed 4 weeks NPTEL-AICTE course of “Electronics Waste management-Issues and Challenges”, From Jan-Feb, 2023.
5. Successfully completed 12 weeks NPTEL-AICTE course of “Integrated Waste Management for a smart City”, From July-October, 2022.
6. Successfully completed 8 weeks NPTEL-AICTE course of “Plastic Waste Management”, From August-October, 2022.

## **PARTICIPATION OF FACULTY DEVELOPMENT PROGRAMMED**

1. Participation of Three Days FDP programmed on “Advances in Civil Engineering” from 11/05/2020 to 23/05/2020 in Civil Engineering Department, Swarnandha College of Engineering and Technology, A.P., India.
2. Participation of One Day FDP programmed on “Faculty Programmed on NBA”, on 05/10/2020 organized by Bharati Vidyapeeth College of engineering, Navi Mumbai, India.
3. Participation of One week FDP programmed on “Industrial and Municipal solid waste management for green India”, from 20-26 July, 2020 organized by Civil Engineering Department, P.S.R. Engineering College, Tamil Nadu, India.
4. Participation of six days online FDP programmed on “Upheaval Era of Civil Engineering”, from 01/06/2020 to 06/06/2020 organized by department of civil engineering, Malineni Perumallu Educational Society’s Group of Institutions, Guntur, A.P.
5. Participation of five days online FDP programmed on “Integrated Urban Water & Wastewater Management”, from 27-31 July, 2020 organized by department of civil engineering PSG Institute of Technology and Applied Research Coimbatore, India.
6. Participation of two days online FDP programmed on “The Strategies for Enhancing Professional Communication”, from 8-9 June, 2020 organized by RISE Krishna Sai Prakasam Group of Institutions, Ongole, A.P. India.
7. Participation of one week FDP programmed on “Civil Engineering Research –A step Forward”, from 25-30 May, 2020 organized by department of civil engineering, Gudlavalleru Engineering College, Gudlavalleru, A.P., India.
8. Participation of Three days FDP programmed on “Recent Trends in Environmental Engineering” from 04-06, June 2020 organized by department of civil engineering, Mohamed Sathak A J College of Engineering, Chennai, India.
9. Participation of Three days FDP programmed on “Safety Measures in Transportation Systems”, from 27-29 May, 2020 organized by Department of Civil Engineering, Muthoot Institute of Technology & Science, Kerala, India.
10. Participation of Twelve days FDP programmed on “Indo-China Research Online series in Civil And Environmental Engineering” from 8-19 May, 2020 organized by Shantou University, China, Vardhaman College of Engineering, Hyderabad , Indian Geotechnical Society Surat, SVNIT Surat and Qingdao University of Technology, China.
11. Participation of one week FDP programmed on “Recent Advancements in Civil Engineering: Challenges and Future Prospectives, from 25-30 May, 2020 organized by IIT Madras and Shri Vishnu Engineering College for Women, A.P. India.
12. Participation of one week FDP programmed on “Recent & Emerging Trends in Civil Engineering” from 28-30 May, 2020 organized by Civil Engineering Department, Andhra Loyola Institution of Engineering and Technology A.P. India.
13. Participation of one week FDP programmed on “NAAC Awareness Programmed for Faculty” from 08-14 May, 2020 organized by Marathwada Mitra Mandal Institute of Technology (MMIT), Lohgaon, Pune, India.
14. Participation of one day FDP programmed on “Online Workshop on Recent Advances in Science and Technology of Concrete”, on 2<sup>nd</sup> May, 2020 organized by Indian Institute of Technology Madras, Chennai, India.
15. Participation of one week FDP programmed on “Recent Advancements in Geotechnical and Transportation Engineering” from 21-25 June, 2021 organized by Department of civil engineering, Gudlavalleru Engineering College, Gudlavalleru, A.P., India.
16. Participation of one day FDP programmed on “Effect of soil structure interaction on Structure against static and dynamics load”, from 3-8 February, 2021 organized by Department of civil engineering, Gudlavalleru Engineering College, Gudlavalleru, A.P., India.
17. Participation of one day FDP programmed on “Innovations in Civil Engineering”, from 22-27 March, 2021 organized by Department of civil engineering, Gudlavalleru Engineering College, Gudlavalleru, A.P., India.
18. Participation of one day FDP programmed on “Recent Advancements in Special Concretes”, from 26-31 October, 2020 organized by Department of civil engineering, Gudlavalleru Engineering College, Gudlavalleru, A.P., India.
19. Participation of six days FDP programmed on “Recent innovations in Civil Engineering”, from 24-29 August, 2020 organized by Department of Civil Engineering, Don Bosco Institute of Technology, in association with Indian Concrete Institute, Bengaluru Centre, India.

20. Participation of five days Online Elementary FDP programmed on “Air, Noise and Odour Pollution: Control and modeling practices” from 2021-7-19 to 2021-7-23 at Sardar Vallabhbhai National Institute of Technology, Surat conducted by AICTE Training and Learning (ATAL) Academy.
21. Participation of five days Online Elementary FDP programmed on “Recent developments in Sustainable processes” from 2021-5-31 to 2021-6-4 at Indian Institute of Carpet Technology, conducted by AICTE Training and Learning (ATAL) Academy.
22. Participation of five days Online Elementary FDP programmed on “Innovation in Civil Engineering Materials & Techniques for Sustainable Development (ICEMTSD-2021)” from 18/11/2021 to 22/11/2021 at National Institute of Technology Silchar, Assam conducted by AICTE Training and Learning Academy.
23. Participation of one weeks FDP programmed on “Progression to Smart Buildings in Indian Context” from 10-14 Jan 2022 organized by Department of Civil Engineering and Department of Electronics & Communication Engineering, Faculty of Engineering and Technology Manav Rachna International Institute of Research and Studies, Faridabad, Haryana, India.
24. Participation of Twelve days FDP programmed on “Environmental Geomechanics” from July 2021 conducted by NPTEL AICTE.
25. Participation of Twelve days FDP programmed on “Environmental Remediation of Contaminated Sites”, from Jan 2021 conducted by NPTEL AICTE.
26. Participation of five days online FDP programmed on “Water and Environmental Modelling using MIKE, Remote Sensing and GIS Applications”, from 13th to 17th July, 2020 organized by Department of Civil Engineering, SITAM, A.P. India.
27. Participation of three days online FDP programmed on “Innovation, Entrepreneurship & its Relevance in Civil Engineering”, from 10-12 May, 2021 Organized by Department of Civil Engineering of St. Martin’s Engineering College, Dhulapally, Secunderabad, T.S, India.
28. Participation of five days online FDP programmed on “Advances in Water Resources Management”, in Civil Engineering”, from 16-20 May, 2022 Organized by Department of Civil Engineering of NIT, Andhra Pradesh Tadepalligudem, India.
29. Participation of Twelve days FDP programmed on “Applied Environmental Microbiology”, from Jan 2023 conducted by NPTEL AICTE.
30. Participation of one day online FDP programmed on “Intellectual Property Rights”, organized by Internal Quality Assessment Cell (IQAC) in association with Indian Society For Technical Education (ISTE) on 26 March 2022 in Seshadri Rao Gudlavalluru Engineering College, Gudlavalluru, Andhra Pradesh, India.
31. Participation of one day online FDP programmed on “Insights of NEP 2020 and Strategies for Implementation”, organized by Academics Strengthening and Strategies for its implementation on 12<sup>th</sup> June 2022 2022 in Seshadri Rao Gudlavalluru Engineering College, Gudlavalluru, Andhra Pradesh, India.
32. Participation of six days online FDP programmed on “Recent Trends In Civil Engineering” organized by Department of Civil Engineering, J B Institute of Engineering & Technology from 20<sup>th</sup> – 25<sup>th</sup> Feb 2023.
33. Participation of Twelve days FDP programmed on “Integrated Waste Management for a smart city”, from July 2022 conducted by NPTEL AICTE.
34. Participation of six days online FDP programmed on “Applications of Artificial Intelligence & Machine learning in Civil Engineering”, 30Jan-4Feb, 2023 held at Department of Civil Engineering, ACE college of Engineering, India.
35. Participation of 8days days FDP programmed on “Plastics Waste Management”, from Aug 2022 conducted by NPTEL AICTE.
36. Participation of five days online FDP programmed on “Advances in Biological Waste Water Treatment Methods: Teaching and Learning Strategies”, organized by the Department of Biotechnology in association with the Teaching Learning Center, National Institute of Warangal, during 5-9<sup>th</sup> December, 2022.
37. Participation of six days online FDP programmed on “Applications of Artificially Intelligence and machine Learning in Civil Engineering”, organized by the Department of Civil Engineering, Seshadri Rao Gudlavalluru Engineering College, Gudlavalluru, Andhra Pradesh, India during 20-25<sup>th</sup> February, 2023.
38. Participation of six days FDP programmed on “Electronic Waste Management- Issues and Challenges”, from Jan 2023 conducted by NPTEL AICTE.

#### **COORDINATOR OF CONFERENCES AND FDPS**

1. One week online Faculty Development programmed in “Innovations in Civil Engineering” from March 22<sup>nd</sup>-27<sup>th</sup>, 2021 at Gudlavalluru Engineering College, Civil Engineering Department, Krishna District in Andhra Pradesh, India.
2. One week online Faculty Development programmed in “Effects of Soil structures interactions on structures against static and dynamic load” From 3<sup>rd</sup>-8<sup>th</sup> Feb, 2021, Civil Engineering Department, Gudlavalluru Engineering College.
3. One week online Faculty Development programmed in “Applications of Artificially Intelligence and machine Learning in Civil Engineering”, organized by the Department of Civil Engineering, Seshadri Rao Gudlavalluru Engineering College, Gudlavalluru, Andhra Pradesh, India during 20-25<sup>th</sup> February, 2023.
4. Online International Conference on “Advancements and Innovations in Civil Engineering (ICAICE-2021) 17<sup>th</sup>-18<sup>th</sup>

December, 2021 at Civil Engineering Department, SR Gudlavalleru Engineering College, Andhra Pradesh, India.

#### INTERNATIONAL AND NATIONAL CONFERENCE

1. S. Dey, D. Mohan and R. Prasad, "Catalytic control of CO emissions at ambient conditions," National Conference on Technological Advances in Chemical, Petroleum and Natural Gas Engineering, Chandigarh University, Chandigarh, 2015, 4, 39.
2. S. Dey, D. Mohan and R. Prasad, "Automobile pollution control using catalysis," International Conference on Geo-Engineering and Climate change Technologies for Sustainable Environmental Management, Department of Civil Engineering, MNNIT, Allahabad, 2015, 2, 82.
3. S. Dey, D. Mohan and R. Prasad, "The oxidation of carbon monoxide at ambient temperature using Copper Manganese oxide Catalysts," International Conference on Chemcon 2015, Indian Chemical Engineering Congress, Department of Chemical Engineering, IIT Guwahati, Assam, 2015, 8, 46.
4. S. Dey, D. Mohan and R. Prasad, "Use GIS technology for detection ground water level in soil", Open Source GIS: Opportunities & Challenges (OSGIS-2015), IIT(BHU) Varanasi 2015, 1, 22-25.
5. S. Dey and M. Kumar, "Use renewable energy for sustainable development: A review", National conference on renewable energy, conservation and efficient use of electricity, RENCON, IIT Roorkee, 2016, 2, 127-133.
6. S. Dey, G.C. Dhal and D. Mohan, "Determination and removal of arsenic from ground water", National conference on Ground water prospects of palaeo channels, Central ground water body, State Unit office Allahabad, 2015, 33-42.
7. S. Dey, D. Mohan and R. Prasad, "The oxidation of carbon monoxide at ambient temperature using copper manganese oxide catalysts", International conference on Multifunctional materials for future applications (ICMFA), Chemistry Department, IIT(BHU) Varanasi, 2015, 22, 62.
8. S. Dey, Actively participated in International conference, Sustainable Natural Resource Management: from science to practice (SNRMSP-2017), Department of Farm engineering, Institute of Agricultural Sciences BHU, 2017.
9. S. Dey, D. Mohan and R. Prasad, "Study on hopcalite (CuMnOx) catalysts prepared through a novel route for low temperature oxidation of carbon monoxide", International Conference on Chemcon 2016, Indian Chemical Engineering Congress, Department of Chemical Engineering, Anna University, Tamilnadu, 2016, 69, 241.
10. S. Dey, D. Mohan and R. Prasad, "Removal of arsenic from contaminated water: An experimental study", International Conference on Chemcon 2016, Indian Chemical Engineering Congress, Department of Chemical Engineering, Anna University, Tamilnadu, 2016, 69, 247.
11. S. Dey and D. Mohan, "Effects of fluoride on plants", National conference on Sustainable development: Environmental awareness for a secured future, Botany Department, S.S.S.V.S. Government Post Graduation College, Chunar, Mirzapur (U.P.), 2015, 2, 67.
12. R. Ranjan and S. Dey, "Effects of arsenic toxicity on plants", National conference on Indian agriculture and rural development in changing global scenario, Krishi Vigyan Kendra, Institute of Agricultural Sciences, B.H.U., 2014, 2, 42.
13. S. Dey, S.B. Dwivedi and D. Mohan, "Arsenic removal using Biosorption", National conference on Sustainable Water Resources Management in Era of Changing Climate, Institute of Environmental and Sustainable Development, B.H.U., 2014, 1, 2.
14. S. Dey and A.K. Sahayogi, "Biosorption process used in removal of toxic metals from contaminated water", National Conference on Conservation Strategies for Degradation Ecosystems in Present Scenario, S.B.P.G. College, Baragaon, Varanasi, 2013, 1, 8.
15. A.K. Sahayogi and S. Dey, "Fluoride in ground water and its effect", National Conference on Conservation Strategies for Degradation Ecosystems in Present Scenario, S.B.P.G. College, Baragaon, Varanasi, 2013, 1, 7.
16. S. Dey, "Environmental Impact Assessment on Varanasi", National Conference on Varanasi Kal Aaj aur Kal, Kasikatha-2015, B.H.U.
17. S. Dey, Actively participated in 8<sup>th</sup> All India student's conference on Science and Spiritual Quest, Bhaktivedanta Institute, Kolkata, IIT(BHU), Varanasi, 2014.
18. S. Dey, G.C. Dhal, D. Mohan and R. Prasad, "Catalytic oxidation of Carbon monoxide at ambient temperature and Simultaneous reduction of Soot and NOx of diesel exhaust emission", Institute day April 2-3, 2016 at Civil Engineering Department, IIT(BHU) Varanasi.
19. S. Dey, "Renewable energy generation in India: Present scenario", International conference of Energy: The future Scenario, Department of Mechanical Energy, Institute of Technology (B.H.U), 2007, 2, 23-24.
20. S. Dey, "Synthesis and characterization of CuMnOx catalysts using various precipitants for oxidation of carbon monoxide", National conference on Material Science Department held on 26-28 January, 2018 at Jadavpur University, West Bengal, India.
21. S. Dey, "Planning and controlling of Plastic waste degradation pollution in India", National conference on "Emerging Trends in Civil Engineering" (ETCE-2020), organized by Department of Civil Engineering, KL University, Guntur Dist. A.P. from 20-21 March, 2020.
22. S. Dey, "Climate Change and Water Resources Management: A Federal Perspective", International conference on "Sustainable water resources management under changed climate" organized by the School of Water Resources



Engineering, Jadavpur University, Kolkata, West Bengal during 13<sup>th</sup>-15<sup>th</sup> March, 2020.

23. S. Dey, "The Renewable Energy Applications in India: An overview", International virtual conference on Sustainable Technologies for Energy and Environment (ICSTEE 2000) held on 14<sup>th</sup> August 2020, Department of Civil and Mechanical Engineering, Mohamed Sathak AJ College of Engineering, Chennai, India.
24. S. Dey, "Applications of gold based Nano-catalysts for catalytic conversion of carbon monoxide (ICAN – 20113)", in the International Conference on Advanced Nano-materials (ICAN–2020) Organized by the Faculty of Engineering & Technology, Rama University during February 27-29, 2020.
25. S. Dey, "Applications of Plants Leaf Biosorbents for Removal of Heavy Metals from Contaminated Water" in 3rd National conference on Current Trends in Life Sciences (NSCTLS-2021) on 29th January 2021 at Amity Institute of Biotechnology, Amity University Madhya Pradesh, Gwalior, India.
26. S. Dey, "Recycling of orange peels biosorbents after removal of heavy metals", at the Fifth International Online Conference on Reuse and Recycling of Materials (Polymers, Wood, Paper, Leather, Glass, Metals, Ceramics, Semi Conductors, Water etc) and their products (ICRM – 2020) 11th -13th December 2020 Kottayam, Kerala, India.
27. S. Dey, "Applications of Biosorbents Materials for Removal of Iron from Contaminated Water", held at 27-28<sup>th</sup> February in 2nd International Conference on Advancements in Research & Development - ICARD 2021 - Coimbatore, Tamilnadu, India.
28. S.Dey, "Water Quality Parameters ofGudlavaluru Engineering College Pond in Different Seasons", in the International Web Conference in Civil Engineering for a Sustainable Planet (ICCESP 2021) organized by Habilete Learning Solutions in collaboration with American Society of Civil Engineers (ASCE), TKM College of Engineering, and Baseliros Mathews II College of Engineering, Kollam, Kerala on 5th and 6th of March 2021.
29. S.Dey, "Biosorption of Iron from Contaminated Water By Using Plant Leaf Biosorbents", in 3<sup>rd</sup> International Conference on "New Scientific Creations In Engineering and Technology" through Virtual Mode Organized by Nadar Saraswathi College of Engineering and Technology on 19th March 2021.
30. S.Dey and B. Vineela Sree "An Observation on Construction of Channels and Laying of Pipe Lines", in 2<sup>nd</sup> International Conference on Science and Technology (ICOST-2021) Coimbatore, Tamilnadu held at 30-31<sup>st</sup> January 2021.
31. S.Dey, "Applications of Plants Leaf Biosorbents for Removal of Phosphorus from Contaminated Water", at the International Online Congress on Membranes and Membrane Assisted Processes (ICMMAP 2021) held at Mahatma Gandhi University Kottayam, Kerala, India and Wroclaw University of Technology, Wroclaw, Poland during 12th - 14th February 2021.
32. S.Dey and Sk. Rabbani Basha, "Removal of Nitrates from Contaminated Water by Using Solid Waste Bio-adsorbents", at Two-Day Online National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology (NCB4EBT-2021) conducted by the Department of Biotechnology in NIT Warangal from 29-01-2021 to 30-01-2021.
33. S. Dey, "Design of Catalytic Converter in Automobile Vehicles", in the International Conference on Recent Trends in Mechanical Engineering (ICRTME-2021) held on 22<sup>nd</sup>-23<sup>rd</sup> January, 2021, Maharashtra Institute of Technology, Aurangabad, Maharashtra, India.
34. S. Dey, "Synthesis of Perovskite Catalysts for Ambient conditions Carbon Monoxide Oxidation", at National Conference on Air, Noise & Odour Pollution (ANOP-2021) organized by Department of Civil Engineering, SVNIT Surat during 22-23<sup>rd</sup> October 2021.
35. S. Dey, "An experimental study on strength and durability characteristics of concrete with partial replacement of fine aggregate by ferrochrome slag" at International Cappadocia Scientific Research Congress held on 15-17 December, 2021 by the Institute of Economical Development and Social Research.
36. S. Dey, "An observation of construction of channels", International Conference on "Advancements and Innovations in Civil Engineering" 18th - 20th March 2021 IC-AICE-20Organized By K.D.K.College of Engineering, Nagpur in Association with Institute For Engineering Research and Publication (IFERP) American Society of Civil Engineers.
37. S.Dey, "Synthesis of biosorbents materials for removal of contaminated nitrates from water", International Virtual Conference on Emerging Trends in Engineering and Management Science-2021 (ICETEMS-2021)" On 23rd - 24th July 2021 at Marathwada Mitra Mandal Trust, Pune, Maharashtra.
38. S. Dey, "Application of E-Waste Management for Controlling of Environmental Degradation", 4<sup>th</sup> Springer International conference "International Conference on Inventive Material Science Applications [ICIMA 2021]" on 14-15 May 2021 at PPG Institute of Technology, Coimbatore, India.
39. S. Dey, "Environmental Impact Assessment on Deforestation", 1st International e-Conference on Management, Science and Technology (ICMST – 2021) Dates: 29th and 30th May 2021, Department of Computer Science R.B.V.R. Women's College, (Autonomous), Narayanaguda, Hyderabad, India.
40. S.Dey, "Procurement of Relevant Soil and Groundwater Quality – Quantity Standards", at virtual International Conference on Sustainable Innovation in Mechanical Engineering (ICSIME-2021) organized by Faculty of Engineering and Technology, Rama University, Uttar Pradesh, India.
41. S. Dey, "Synthesis of Perovskite Catalysts for Ambient conditions Carbon Monoxide Oxidation", has presented a paper

- (Invited Talk) at the International Online Conference on Materials Science and Technology (ICMT 2021) 12th - 14th November 2021 Kottayam, Kerala, India.
42. S. Dey, "Removal of Iron and Phosphorus from Contaminated Water By using Plant Leaf Biosorbents", In International Conference on "Water and Environment" (ICWE-2021), organized by the Department of Civil Engineering, Maulana Azad National Institute of Technology, Bhopal during March. 22- 23, 2021.
  43. S. Dey, "Removal of chlorides from synthetic water by using various biosorbents", 6<sup>th</sup> Asia Pacific International Modern Sciences Congress held on December 15-16, 2021 / Delhi, India Mata Sundri College for Women, University Of Delhi, India.
  44. S. Dey, "Design of Potential Rainwater Harvesting Structures for Environmental Adoption Measured in India", at Astana International Conference on Scientific Research Nur-Sultan, Kazakhstan/Seiffulin Kazakh Agrotechnical University October 23-24, 2021.
  45. S. Dey, "Application of Overlay Methods in the Environmental Impact Assessment & Management", in 1 day International conference on "Emerging Trends in Advanced Technologies (ICETAT-2021)" on 25<sup>th</sup> March 2021 organized by Department of Computer Science and Information Technology held at ARKA Jain University (Jharkhand) Jamshedpur India.
  46. S. Dey, "Removal of hardness from synthetic water by using various biosorbents", ISPEC 8<sup>th</sup> International Conference on Agriculture, Animal Sciences and Rural Development December 24-25, 2021/Bingol University, Turkey.
  47. S. Dey, "An observation on construction of channels and laying of pipe lines", in the Online International Conference on "Sustainable Construction (ICSC 2021)" organized by Department of Civil Engineering, St. Peter's Institute of Higher Education and Research, Chennai, on 15.06.2021.
  48. S. Dey, "Effects of acids present in water to the hardened properties of concrete", 2<sup>nd</sup> International Conference On Sustainable Construction Technologies & Advancements In Civil Engineering, in Department of Civil Engineering at Shri Vishnu Engineering College For Women held at 14-16 October 2021, A.P. India.
  49. S. Dey, "Manufacturing of various Catalysts in the Catalytic converter for low temperature Carbon Monoxide oxidation" in the International Conference on Advances in Mechanical, Civil and Construction Engineering (ICAMCCE)" held at 18.04.2021 in Hyderabad, India.
  50. S. Dey, "Applications of plants leave biosorbents for removal of nitrates from contaminated water", in 3<sup>rd</sup> International Conference on "Advances in Civil Engineering (ICACE-2021) during 25-26<sup>th</sup> June, 2021 Civil Engineering Department, KL University, AP. India.
  51. S. Dey, "The Performance of Self Compacting Concrete in the Building Infrastructure" in the Two Day Online conference on "Recent Advances in Civil Engineering 2021)" organized by the Department of Civil Engineering ACE Engineering College, Ghatkesar, Hyderabad, held on 30th & 31st July, 2021.
  52. S. Dey, "Carbon Monoxide Impacts and Catalytic Abatement at Ambient Conditions: An Overview", at the International Congress on Phenomenological Aspects in Civil Engineering (PACE-2021) at 20-23<sup>rd</sup> June 2021, Teknik Universities.
  53. S. Dey, "The presence of acids in water effects on the hardened properties of concrete", in the International conference on "Research & Development in Civil Engineering" RDCE'2021 (Virtual, organized by Department of Civil Engineering, SVKM's Institute of Technology Dhule, from 23-24 December, 2021.
  54. S. Dey, "Application of Hopcalite Catalyst in the Catalytic converter for low temperature oxidation of Carbon Monoxide", in virtual International conference on the Sustainable Technologies and Smart Materials held on 10<sup>th</sup> April, 2021 in Department of Civil Engineering at SRM TRP Engineering College, Tamilnadu, India.
  55. S. Dey, S. Botta and R. Kallam, "Seasonal Variation in Water Quality Parameters of Gudlavalleru Engineering College Pond", at First Virtual National conference on Sustainable Innovative Trends in Civil Engineering (SITCE-2021), Organized by Department of Civil Engineering Vignana Bharathi Institute of Technology (Autonomous), Hyderabad held on 5-6 February, 2021.
  56. S. Dey, "Delineation of groundwater potential zones using geospatial techniques in Andhra Pradesh, India area", in 12<sup>th</sup> International Conference on Engineering & Natural Sciences December 24-25, 2021 / BINGOL, TURKEY.
  57. S. Dey, "Design your Future", One Day International Conference held on 21.01. 2022 at Department of Chemistry in Collaboration with Asian Institute of Family Managed Business of Shree Chandraprabhu Jain College, Minjur, Madras, India.
  58. S.Dey, "Application of Orange Peels Biosorbents for Removal of Ammonia and Nitrate from Contaminated Water", International Conference on Emerging Trends in Engineering Yukthi 2021, Government Engineering College Kozhikode, Kerala, India 24th to 26th September 2021.
  59. S.Dey, "Synthesis and design of various Perovskite Catalysts for low temperature oxidation of Carbon monoxide" in oral and technical presentation AHI EVRAN, International Conference on Scientific Research held on Nov 30- Dec 2 at the Kirsehir Ahi Evran University.
  60. S. Dey, "Applications of plant leaf biosorbents materials for removal of iron from contaminated water", 3<sup>rd</sup> International Conference on Advances in Civil Engineering, on 25-26 June, 2021 at Civil Engineering Department, KL University, Andhra Pradesh, India.
  61. S. Dey, "Recycling of Mango leaves biosorbents for removal of iron and phosphorous from contaminated water", 11th

- International Conference on Sustainable Waste Management & Circular Economy 2021 (11th IconSWM-CE) & IPLA Global Forum 2021, IconSWM-ISWMAW Secretariat, Jadavpur University, Kolkata, India; December 01-04, 2021.
62. S. Dey, "Applications of biosorbents for removal of pollutants from ground water", in the International Conference on Recent Challenges in Engineering Science and Technology (ICRCEST 2021)" on 27th - 28th August 2021 organized by Institute For Engineering Research and Publication (IFERP).
  63. S. Dey, "Synthetic of Mango Leaves Biosorbents for subtraction of Iron and Phosphorous from synthetic Water", at the International Online Conference on Macromolecules: Synthesis, Morphology, Processing, Structure, Properties and Applications (ICM 2 021)10th-12th September 2021, Kottayam, Kerala, India, organized by Mahatma Gandhi University, P.D Hills P.O, Kottayam, Kerala, India & Gdansk University of Technology, Chemical Faculty, Gdansk, Poland & Wroclaw University of Technology , Wroclaw, Poland.
  64. S. Dey, "Application of e-waste management for reducing the environmental problems", in the "National Conference on Modern And Advanced Digital Construction Technologies - 2021" (NCMDCT – 2021) from 22nd to 23rd July 2021, organized by Department of Civil Engineering, Aarupadai Veedu Institute of Technology, Paiyanoor, Chennai, India.
  65. S. Dey, "Synthetic and Characterization of Mango Leaves Biosorbents for removal of Iron and Phosphorous from Contaminated Water", The 8th Global Conference on Polymer and Composite Materials August 16-19, 2021 (PCM 2021) organized by Macao Convention & Exhibition Association China.
  66. S. Dey, "Renewable energy for sustainable development and climate change mitigation in India", in recognition of presentation of research paper in National Conference on Sustainable Development and Circular Economy in Civil Engineering (SDCE) held during Dec 16-17, 2021 and organized by Department of Civil Engineering, Heritage Institute of Technology Kolkata, India.
  67. S. Dey, "The removal of iron and phosphorous from synthetic water by application of biosorbent material", 3<sup>rd</sup> International Conference (Online) on "Civil Engineering Trends and Challenges for Sustainability (CTCS 2021)" on November 19<sup>th</sup>-20<sup>th</sup>, 2021, Organized by Department of Civil Engineering, NMAM Institute of Technology Karnataka India.
  68. S. Dey, "Sustainable management of e-waste for reducing the environmental problem", 1<sup>st</sup> International Online Conference on Sustainable Development in Civil and Electrical Engineering (SDCEE-2021), Dec. 17-19, 2021 organized by National Institute of Technology Kurukshetra Chandigarh India.
  69. S. Dey, "Synthesis of various Hopcalite catalysts for low temperature oxidation of carbon monoxide", in the two-day National Conference on Advances In Chemical Engineering and Science (ACES-2022), organized jointly by the Departments of Chemical Engineering at IISER Bhopal and UEC, Ujjain in association with IChE-IISER Bhopal Students' Chapter on 25-26 March 2022.
  70. S. Dey, "An experimental study on durability characteristics of concrete with partial replacement by ferrochrome slag", in the International Conference on Advances in Sustainable Construction at 18th and 19th March, 2022 organized by Department of Civil Engineering KL University Guntur, India.
  71. S. Dey, "Biosorptions of Phosphorous from water by the applications of plant leaf biosorbents", MAS 16<sup>th</sup> International European Conference on Mathematics Engineering, Natural and Medical Sciences, February 22-23, 2022 Mardin, Turkey.
  72. S. Dey, "The e-waste management for controlling the environmental pollution", International Euroasia Congress on Scientific Researchers and Recent Trends-IX held on February 18-20, 2022 in Baku Euroasian University & IKSAD Institute Antlaya Turkiye.
  73. S. Dey, "The application of renewable energy for production of non-conventional source of energy in India: an overview", International Euroasia Congress on Scientific Researchers and Recent Trends-IX held on February 18-20, 2022 in Baku Euroasian University & IKSAD Institute Antlaya Turkiye.
  74. S. Dey, "Seasonal Variation in Water Quality Parameters of Gudlavaluru Engineering College Pond", in Global Water Congress 20-22<sup>nd</sup> March 2022 Hybrid mode organized by Environment and Social Development Association (ESDA), Delhi and Grass Roots Research & Creation India (GRC India) in Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh, India.
  75. S.Dey, "Biosorption Capacities of Plant Leaf Biosorbents for Adsorption of Phosphorous from Synthetic Water", in the International Conference on Smart Environment Management and Solutions, ICEMS 2022 - Virtual Conference on the 21<sup>st</sup> and 22<sup>nd</sup> April 2022 organized by Institute For Engineering Research and Publication (IFERP).
  76. S. Dey, "The E-waste Management for controlling the Environmental Pollution" in the 1<sup>st</sup> International Congress of Gerontology held on March 18-20 2022 organized by Sivas Cumhuriyet University İKSAD- Institute of Economic Development and Social Research Gerontology Studies Application and Research Center SIVAS, Turkey.
  77. S. Dey, "Synthetic Food Colour Used in Food Effects on the Human Health", 2<sup>nd</sup> International Anatolian Conference on Coffee & Cocoa April 7-8, 2022 organized by Universidad Nacional Abierta y a Distancia in Bogota, Colombia.
  78. S. Dey, "Life cycle analysis for a suburban building in vicinity using Revit architecture", 8th International Scientific Researches Conference held on April 15-17, 2022 organized by IKSAD Institute of Economic Development and Social Research of Turkey at Adana Turkey.
  79. S. Dey, "The design of water treatment plant at Ponukumadu village" in the 8<sup>th</sup> International Scientific Researches

Conference held on April 15-17, 2022 organized by IKSAD Institute of Economic Development and Social Research of Turkey at Adana Turkey.

80. S. Dey, "Applications of various environmental impact assessment methodologies for controlling the air, water and soil pollution in India", International Conference on Contemporary Scientific Studies-VII held on March 3-4, 2022, Beirut Arab University, Lebanon.
81. S. Dey, "Synthesis of silver catalysts for low temperature oxidation of carbon monoxide", International Scientific Research Congress Dedicated to the 30<sup>th</sup> Anniversary of Baku Eurasia University held on April 28, 2022/Baku, Azerbaijan.
82. S. Dey, "Impact, Source and Control of Carbon Monoxide Emission at Ambient Conditions: An Overview", 4<sup>th</sup> International Palandoken Scientific Studies Congress 28-29 April, 2022 at Erzurum, Turkey.
83. S. Dey, "Experimental study on strength and durability characteristics of self curing self compacting Concrete", 8<sup>th</sup> International ZEUGMA Conference on Scientific Research held on 15-17 July, 2022 at Gaziantep, Turkey.
84. S. Dey, "Applications of biosorbents for removal of pollutant from ground water", 2. International Hasankeyf scientific studies and innovation congress 25-26 JUNE 2022 /Turkey.
85. S. Dey, "Recycling of various plant leaf biosorbents for removal of pollutants from ground water", 6<sup>th</sup> International Asian Congress on Contemporary Sciences held on May 27-29, 2022/Van, Turkey.
86. S. Dey, "The Hopcalite catalyst in a catalytic converter for cold-start emission control", 2<sup>nd</sup> International Cappadocia Scientific Research Congress held on June 17-19, 2022/ Cappadocia-Nevsehir, Turkey.
87. S. Dey, "Applications of food colour and preservatives in artificial food and its result on human health", 4<sup>th</sup> International Conference of Food, Agriculture, and Veterinary Sciences on the occasion of the 40<sup>th</sup> Anniversary of Van Yüzüncü Yıl University held on May 27-28, 2022/Van, Turkey.
88. S. Dey, "Application of biosorbents for removal of nitrite from contaminated water", 4<sup>th</sup> International Conference of Food, Agriculture, and Veterinary Sciences on the occasion of the 40<sup>th</sup> Anniversary of Van Yüzüncü Yıl University held on May 27-28, 2022/Van, Turkey.
89. S. Dey, "Importance of irrigation for the growth of economical conditions of the country", 4<sup>th</sup> International Conference of Food, Agriculture, and Veterinary Sciences on the occasion of the 40<sup>th</sup> Anniversary of Van Yüzüncü Yıl University held on May 27-28, 2022/Van, Turkey.
90. S. Dey, "Investigation on strength and toughness properties of supplementary cementations materials based blended concrete", International Conference on Global Practice of multidisciplinary scientific studies dedicated to the 100<sup>th</sup> Anniversary of "Georgian Technical University" held On June 24-26, 2022/Tbilisi, Georgia.
91. S. Dey, "Application of Revit architecture in a suburban building for life cycle analysis", National Conference on Recent Trends and Innovations in Civil Engineering, NC-RTICE'22 organized by Department of Civil Engineering, Kings College of Engineering, Punalkulam, Pudukkottai on 9<sup>th</sup> June, 2022 India.
92. S. Dey, "Mechanisms and aspects of food preservation and processing", International Pepper and Spices Conference held on April 26, 2022/Tobasco, Mexico.
93. S. Dey, "Controlling of CO and HC emissions from automobile vehicles by the application of catalytic converter", in the 6<sup>th</sup> International Conference on Scientific Research to be held in Lankaran, Azerbaijan during May 13-15, 2022.
94. S. Dey, "Removal of ammonia from water by using various biosorbents", in 3<sup>rd</sup> Karabakh International Congress of Applied Sciences "Year of Shusha- 2022" held on June 7-10, 2022/Karabagh, Azerbaijan.
95. S. Dey, "Degradation of plastic materials effects on the environment and human and animal health", 2<sup>nd</sup> International Dicle Scientific Studies and Innovation Congress 28-29 May 2022 /Diyarbakir.
96. S. Dey, "Measurements of ground water parameters and their remedies", 9<sup>th</sup> International GAP SUMMIT Scientific Research Congress July 1-3, 2022/Adiyaman, Turkey.
97. S. Dey, "Removal of Ammonia and Nitrate from water by using orange peels biosorbents", International Istanbul Congress on multidisciplinary scientific research held in Istanbul, Turkey on May 16-17, 2022.
98. S. Dey, "Synthesis of biosorbents in laboratories for elimination of nitrite from water", International Korkut-Ata Scientific Researches Conference 28-30 June, 2022 to be held in Osmaniye Korkut Ata University, Osmaniye/Turkey during June 28-30, 2022.
99. S. Dey, "Effect of particulate matter on environment and global warming", 8<sup>th</sup> International Mardin Artuklu Scientific Researches Conference June 04-06, 2022/Mardin, Turkey.
100. S. Dey, "Evaluation of progressive collapse behavior in reinforced concrete buildings", 8<sup>th</sup> International Mardin Artuklu Scientific Researches Conference June 04-06, 2022/Mardin, Turkey.
101. S. Dey, "Removal of ammonia and nitrates from water by using solid waste bio-adsorbents", 3<sup>rd</sup> International Modern Scientific Research Congress held on May 06-08, 2022/Istanbul Gedik University, Istanbul, Turkey.
102. S. Dey, "Prediction and assessment of impacts on soil and ground water environment", 3<sup>rd</sup> International Modern Scientific Research Congress held on May 06-08, 2022/Istanbul Gedik University, Istanbul, Turkey.
103. S. Dey, "Forecasting models for surface water quality using predictive analytics", 2<sup>nd</sup> International Mediterranean Scientific Research and Innovation Congress (ISARC) held on 30-31<sup>st</sup> July 2022 Kibris, Turkey.
104. S. Dey, "Applications of water resource engineering for proper irrigation practices", International Conference on Metamorphosis of Engineering Sciences Towards Sustainable Smart Cities (MES3C) held during June (23<sup>rd</sup> -24<sup>th</sup>) 2022

- organized by Department of Applied Sciences & Civil Engineering, FET, Manav Rachna International Institute of Research and Studies, Faridabad Haryana, India.
- 105.S. Dey, "Application of eggshell powder based geopolymer concrete for better strength", 4<sup>th</sup> International Ankara Multidisciplinary Studies Congress July 29-31, 2022/Ankara, Türkiye.
  - 106.S. Dey, "The experimental analysis on strength of concrete with partial substitute of small size aggregate by ferrochrome slag", International Conference on Metamorphosis of Engineering Sciences Towards Sustainable Smart Cities (MES3C) held during June (23<sup>rd</sup> -24<sup>th</sup>) 2022 organized by Department of Applied Sciences & Civil Engineering, FET, Manav Rachna International Institute of Research and Studies, Faridabad Haryana, India.
  - 107.S. Dey, "Retrofitting of residential building", 4<sup>th</sup> International Conference on "Sustainable Materials and Structures for Civil Infrastructures" (26-27 May 2022) organized by Civil Engineering Department, UIT RGPV Bhopal, India.
  - 108.S. Dey, "Forecasting Models for Surface Water Quality using Predictive Analytics" on 2<sup>nd</sup> International Mediterranean Scientific Research and Innovation Congress 30-31 July 2022/ KKTC-Girne (ISARC).
  - 109.S. Dey, "Biomaterials applications for complete removal of nitrites from water" on ISPEC 11<sup>th</sup> International conference of Agricultural, Animal Sciences and rural development on March 3-5, 2023.
  - 110.S. Dey, "Performance of mechanical and durability properties of ternary blended cement concrete", on 10<sup>th</sup> International Mardin Artuklu Scientific Researches Conference May 19-21, 2023 Mardin, Turkey.
  - 111.S. Dey, "Evaluation of progressive collapse behaviour in reinforced concrete buildings", on 8<sup>th</sup> International Mardin Artuklu Scientific Researches Conference June 04-06, 2022, Mardin, Turkey.
  - 112.S. Dey, "Design of water treatment plant at Gudlavalleru for recycling of waste water", On 10<sup>th</sup> International Zeugma Conference on Scientific Research held on June 25-26, 2023/Gaziantep, Türkiye.
  - 113.S. Dey, "International Environmental Law and Governance from Principles To Practice In India", on 10<sup>th</sup> International Mardin Artuklu Scientific Researches Conference May 19-21, 2023 Mardin, Turkey.
  - 114.S. Dey, "Geographic information system applications for solid waste management in city", on 5<sup>th</sup> International Anatolian Scientific Research Congress held on July 21-23, 2023 Hakkai, Türkiye.
  - 115.S. Dey, "Reduction of carbon footprint in concrete production for sustainable building", 4<sup>th</sup> Baskent International Conference On multidisciplinary studies held online and in-person on August 4-6, 2023/Ankara, Türkiye.
  - 116.S. Dey, "Applications of Solid waste management by using GIS Technologies", Sivas International Conference on Scientific and Innovative research held on October 13-15, 2022 Sivas Tukiye.
  117. S. Dey, "Degradation of plastics waste effects on the environment: a scientific review", 2<sup>nd</sup> International Congress on Innovation Technologies & Engineering held online and in-person on June 12-13, 2023 / Izmir, Türkiye, organized by Ege University, Karakalpak State University, Tashkent State Pedagogical University and IKSAD Institute.
  - 118.S. Dey, "Removal of chlorides and hardness from contaminated water by using various biosorbents: a comprehensive review", 4<sup>th</sup> International Black Sea Modern Scientific Research Congress held on June6-7, 2023 Rize, Türkiye.
  119. S. Dey, "Application of geographic information system for solid waste management in city", 2<sup>nd</sup> International Congress on Innovation Technologies & Engineering held online and in-person on June 12-13, 2023/Izmir, Türkiye, organised by Ege University, Tashkent State Pedagogical University and IKSAD Institute.
  - 120.S. Dey, "Water quality index assessment in the ground water of Gudlavalleru Krishna district, A.P, India", 4<sup>th</sup> International Mediterranean Congress held online and in-person on June 15-16, 2023 / Nicosia, TRNC organized by Near East University and IKSAD Institute.
  - 121.S.Dey, "Degradation of plastics waste and its effects on environmental aspects: a scientific analysis and comprehensive review" on the International Social Sciences Congress in the Age of Digital Transformation to be held on November 11-12, 2022 at Halic University Campus in Istanbul, Türkiye.
  - 122.S. Dey, "Life Cycle analysis of Buildings for Environmental conditions", 4<sup>th</sup> National Conference of Advances in Chemical Engineering and Science 31<sup>st</sup> March-1<sup>th</sup> April, 2023 India.
  - 123.S. Dey, "Physical and Chemical analysis of Surface Water and Ground Water in Krishna District Andhra Pradesh, India", International Conference on Sustainable Development in Engineering, Management and Medical Sciences 12 to 13<sup>th</sup> May, 2023 Rajshree Institute of Management and Technologies Bareilly, India.
  - 124.S. Dey, "Automobile vehicles emitted carbon monoxide for complete oxidation using hopcalite catalysts and its applications: A review" Second National Conference on Environmental Geotechnology and Sustainable Civil Engineering (NCEGSCE-23) held on 5<sup>th</sup> May, 2023 organized by Department of Civil Engineering SRM TRP Engineering College and Indian Concrete Institute.
  - 125.S.Dey, "Applications of biosorptions technology for treatment of contaminated water by using flower waste biosorbents", International Workshop And Conference On Membrane Assisted Water Purification Processes Mahatma Gandhi University, Kottayam, Kerala, INDIA 9-12 March 2023 Organized jointly by School Of Energy Materials (SEM) Mahatma Gandhi University, Kottayam, Kerala, India National Research Centre, Cairo , Egypt & Lund University, Sweden.
  - 126.S. Dey, "Effects of nano-sized biosorbents for the removal of toxic metals from the water", International Conference on Nanotechnology: Opportunities & Challenges ICNOC-2022 (Nov. 28-29, 2022) Organized by Department of Applied Sciences and Humanities Faculty of Engineering and Technology Jamia Millia Islamia New Delhi, India.
  - 127.S. Dey, "Removal of arsenic from water by the biosorption processes", ISARC 3. International Scientific Research

and Innovation Congress 26-27 August 2022 İSTANBUL.

- 128.S. Dey, "Ground water parameters measurements and their remedies", MAS 18<sup>th</sup> International European Conference On Mathematics, Engineering, Natural & Medical Sciences held on August 14-15, 2023 / Ankara, Türkiye.
- 129.S. Dey, "Source and control of carbon monoxide emission at low temperature", SES V. International Scientific Research Conference to be held in Erzurum, Türkiye, during August 12-13, 2023.
- 130.S. Dey, "Controlling of Automobile vehicles emission by using catalytic converter", 4<sup>th</sup> Baskent International Conference On Multidisciplinary Studies held online and in-person on August 4-6, 2023 / Ankara, Türkiye organized by Institute Of Economic Development And Social Studies – İKSAD.
- 131.S. Dey, "The applications of retrofitting tools in the residential buildings to recover the energy performances by using the STAAD Pro Software", in the International Conference on 'sustainability In Industry 4.0' held at our Institute on 11<sup>th</sup> May 2023 at Manel Srinivas Nayak Institute of Management Besant Campus, Mangalore, India.
- 132.S.Dey, "Study on biosorbents for the removal of chloride ion from water", International Conference on Global Practices of Multidisciplinary Scientific Studies-IV held on April 28-30, 2023 Turkish Republic of Northern Cyprus.
- 133.S.Dey, "Performance of Mechanical & Durability Properties of Ternary Blended Cement Concrete", International Conference on Global Practices of Multidisciplinary Scientific Studies-IV held on April 28-30, 2023 Turkish Republic of Northern Cyprus.
- 134.S.Dey and N.S.Mehta, "Analysis of dielectric behavior of alumina-silica based ceramic porcelain composite material in microwave frequency application", 7<sup>th</sup> International Education and Innovative Sciences Congress to be held on May 12-13, 2023 at Baku, Azerbaijan.
- 135.S. Dey, "Impact, source and control of carbon monoxide emission at ambient conditions: an overview", 3<sup>rd</sup> International Symposium "Global Migration Phenomenon", with its Security, Economic, Social, Political and Cultural Dimensions held on April 1-3/2023, Paris France organized by Capital city conference and Violence Abuse Studies Platforms.
- 136.S.Dey, "Diesel engine emitted carbon monoxide emissions for complete oxidation using hopcalite catalysts and its applications: a review", 5<sup>th</sup> International Food, Agriculture and Veterinary Sciences Congress held online on March 17-19, 2023 / Kars, Türkiye organized by Kafkas University and İKSAD Institute.
- 137.S.Dey, "Durability of sustainable concrete subjected to elevated temperature", 5<sup>th</sup> International Food, Agriculture and Veterinary Sciences Congress held online on March 17-19, 2023 / Kars, Türkiye organized by Kafkas University and İKSAD Institute.
- 138.S.Dey, "Degradation of plastics waste and its effects on environmental aspects: a scientific analysis and comprehensive review", International Social Sciences Congress in the Age of Digital Transformation held on 11-12 November 2022/Istanbul, Türkiye Halic University.
- 139.S.Dey, "Solid waste management planning in India", AHI Evran 2<sup>nd</sup> International Conference on Scientific Research held on October 21-23, 2022/Kirsehir, Türkiye.
- 140.S.Dey, "Applications of plastic waste materials in bituminous mixes pavement for increasing the strengthen of pavement materials", 7th International New York Conference on Evolving Trends In Interdisciplinary Research & Practices October 1-3, 2022/Manhattan, New York City.
- 141.S.Dey, "Measuring the various parameters for preparations of Hopcalite Catalysts in the optimum Conditions", 30<sup>th</sup> National Conference on Condensed Matter Physics Condensed Matter days -2022 (December 14<sup>th</sup>-16<sup>th</sup> 2022) organized by Department of Science And Humanities National Institute Of Technology Nagaland, INDIA.
- 142.S. Dey, "The importance of health insurance in the various insurance sectors in India: A Review", ISARC 5. International Social Sciences and Innovation Congress 12-13 November 2022 Ankara.
- 143.S. Dey and G.T.N. Veerendra, "Increasing of green house gases in the environment effects on human health", on 2<sup>nd</sup> International Conference on Climate Change and Environmental Sustainability (CCES) at 5-7<sup>th</sup> October, 2022 at Chongqing University, China.
- 144.S.Dey, "Experimental study on concrete by partial replacement of cement with fly ash and coarse aggregates with palm kernel shells (pks) and with addition of hybrid fibers", Baskent International Conference on Multidisciplinary Studies-III held on September 23-25, 2022 / Ankara, Türkiye.
- 145.S.Dey, "Applications of Artificially Intelligence in Civil Engineering Developments", on 4<sup>th</sup> International Conference on Artificial Intelligence and Robotics in Life Science organized by Rama University, Kanpur India in association with IEEE MP section and IETE Bhopal Section at 25-26 November, 2022.
- 146.S. Dey "Effects of air pollutions on the deterioration of Taj Mahal quality in India", 2<sup>nd</sup> International Archeology, Art History and Cultural Heritage Congress held on September 09-11, 2022/Sanlıurfa, Türkiye.
- 147.S.Dey, "Synthesis and Characterizations of Hopcalite catalysts for low temperature CO oxidation", on III. International Urban Research Congress to be held on November 21-22, 2022 at Aksaray University, Aksaray Türkiye
- 148.S.Dey, "E-waste management and control in India", Digital Innovation Transformation and Sustainability Conference 2022, organized by School of Business, Woxen University.
- 149.S.Dey, "A systematic analysis of retrofitting tools in the residential buildings to improve the energy performances by using the STAAD Pro Software", International Conference on Cement and Building Concrete for a Sustainable and

- Resilient infrastructure (CBKR 2023) 28-29 March 2023 Organized by Department of Civil Engineering, National Institute of Technology, Warangal Telangana, India
150. S.Dey, "Removal of Arsenic from water by the biosorption processes", 3<sup>rd</sup> International Scientific Research and Innovation Congress organized by ISARC between 26-27 August 2022 in Istanbul.
  151. S.Dey, "Removal of arsenic from water by the biosorption processes", 3<sup>rd</sup> International Scientific Research and Innovation Congress 26-27 August 2022/İSTANBUL/Turkey.
  152. S.Dey, "Biosorption capacities of plant leaf biosorbents for adsorption of phosphorous from synthetic water", IV. International Halich Congress on Multidisciplinary Scientific Research August 4-5, 2022/ Istanbul.
  153. S.Dey, "Effect of particulate matter on environment and global warming", 8<sup>th</sup> International Mardin Artuklu Scientific Researches Conference June 04-06, 2022/Mardin, Turkey.
  154. N.S. Mehta and S.Dey, "Analysis of dielectric behavior of Alumina-Silica based ceramic porcelain composite material in microwave frequency application", International Conference on Energy Conversion and Storage (IECS-2023) held at Jan 18-20, 2023 organized by IIT Madras, Chennai, Tamilnadu, India.
  155. S. Dey, "E-waste management application for controlling the environmental pollution in India", 10<sup>th</sup> International Zeugma Conference on Scientific Research held on June 25-26, 2023 / Gaziantep, Türkiye.
  156. S.Dey, "Elimination of chlorides from water by applying various biosorbents", 7<sup>th</sup> International Icon tech Conference On Innovative Surveys in Positive Sciences held on July 4-5, 2023/Ankara, Türkiye.
  157. S.Dey, "Effects of air pollutions on the deterioration of Taj Mahal quality in India", on the 2<sup>nd</sup> International Conference of Archeology, Art History And Cultural Heritage Congress to be held in Şanlıurfa, Turkey during September 09-11, 2022.
  158. S. Dey, "Impacts and Catalytic Abatement of Carbon Monoxide at Ambient Conditions: An Overview", 1. Bilsel International Ahlat Scientific Researches Congress" 15-16 August 2023, Bitlis/Turkey.
  159. S.Dey, "The importance of health insurance in the various insurance sectors in India: a review", 5. International Social Sciences and Innovation Congress 12-13 November 2022 Ankara/Turkey.
  160. S.Dey, "Applications of Solid waste Biodegradable materials for treatments of water", on 12<sup>th</sup> International Conference of Sustainable Waste Management & Circular Economy and IPLA Global Forum 2022 organized by Sri Venkateswara University, Tirupati, Andhra Pradesh, India.
  161. S.Dey, "Removal of Chlorides and Hardness from Contaminated Water by using various Biosorbents: A Comprehensive Review" on 1<sup>st</sup> Bilsel International Truva Scientific Researches And Innovation Congress at 25-26 August Çanakkale / Türkiye.
  162. S. Dey, "Environmental Footprint of Concrete: A Life Cycle Assessment Approach for Sustainable Practices", on 6<sup>th</sup> International scientific researches and innovation congress organized by International Science and Art Research center 02-03 September 2023 Ankara/Turkey.

#### **SEMINARS/WORKSHOPS/SHORT TERM COURSE**

1. International Workshop on DAE-BRNS 20<sup>th</sup> Symposium & Workshop on Thermal Analysis (THERMANS- 2016) BARC, during 18-22<sup>nd</sup> January, 2016 at Department of Physics, IIT (BHU) Varanasi.
2. National Workshop on Ground Water Prospects of Palaeochannels, Ministry of Water Resources, Central ground water body, State Unit office Allahabad, during 6<sup>th</sup> October 2015, Allahabad.
3. National Workshop on Citation Analysis, Impact factor, Patent and Copyrights for Maximizing Research Impact, Organized by Progress Harmony Development (PHD) Chamber of Commerce and Industry, during 27<sup>th</sup> February, 2015 at PHD House, New Delhi.
4. Summer School-cum-Workshop on Water and Wastewater Treatment (SSWWT-2015) organized by MCIIE and Department of Civil Engineering, IIT(BHU) Varanasi during May 21-June 5, 2015 at Malaviya Centre for Innovation, Incubation & Entrepreneurship (MCIIE) IIT(BHU) Varanasi.
5. International workshop on Advances in Preparation & Characterization of Heterogeneous Catalysts, during June 8-20, 2015 at Department of Chemical Engineering & Technology, IIT(BHU) Varanasi.
6. National Symposium on Research Methodology for Future Researchers (RMFR-2015), Organized by Teaching Learning Cell during 22<sup>nd</sup> March 2015 at IIT(BHU) Varanasi.
7. National Workshop on Mathematical Modeling and Computer Simulation, organized by Teaching-Learning Cell (TL CELL) during March 20-21<sup>th</sup> at IIT(BHU) Varanasi.
8. One day Workshop on Scope of Rainwater Harvesting and Groundwater Recharging (RHGR-2016), Organized by Departmental of Civil Engineering, IIT(BHU) Varanasi during March 29, 2016 at Civil Engineering Department, IIT(BHU) Varanasi.
9. International Workshop on Authors Jointly organized by Springer and IIT(BHU), Organized by Springer during 10<sup>th</sup> February, 2014 at IIT(BHU) Varanasi.
10. National Workshop on Mahamana's Vision for Excellence in Higher Education: Relevance in Twenty First Century, Organized by MCIIE, IIT(BHU) Varanasi during 23-24 February, 2018.
11. One day workshop on "Scholarly Communication" held on 25 Feb 2021 organized by Gudlavalleru Engineering College, Seshadri Rao Knowledge Village, Gudlavalleru 521356, Krishna District, AP, India.

12. Five days hand on workshop on “Patent searching drafting and filing” online mode from 29-05-2020 to 02-06-2020 In Association with Turnip Innovations and Exilyze Intellectual Services, IEEE Computer Society & Computer Society of India, conducted by Panimalar Institute of Technology, Chennai, India.
13. Three days online National Workshop on “Current Developments in Civil Engineering: Need for sustainable designs”, held during 08.06.2020 to 10.06.2020, organized by Department of Civil Engineering Lingayas Institute of Management and Technology at Kakinada, A.P., India.
14. Two days online workshop on “Waste management: Issues and concerns” held at 20-21, August 2020 organized by Department of Civil Engineering, Jaypee University of Information Technology, Himachal Pradesh, India.
15. Three days online international workshop on “Structural Equation Model and Confirmatory Factor Analysis using AMOS” conducted from 18-20 Dec 2021 organized by Inspire Softech Solutions, Chennai, India.
16. One day National workshop on “Ground water resources in different terrains conservatives and management (GWRDT CM-2020)” held on Feb 20, 2020 at Department of Geology, Acharya Nagarjuna University, Guntur, A.P. India.
17. Two days “All India Seminar on Recycle and Reuse of Waste Water”, 17-18, October, 2022 By the Institute of Engineer (India) under the aegis Civil Engineering Department IEI in association with Department of Civil Engineering Rajshree Institute of Management and Technology Bareilly (U.P.) India.
18. Two days National Seminar on “Nature Inspired Technologies For Carbon Sequestration and Ground Engineering (NITCSJE)”, on 22-23<sup>rd</sup> December, 2022 at Department of Civil and Environmental Engineering at IIT Patna with Ministry of Earth Science [MoES] Govt. of India.
19. Two days National Seminar on “Digital India: Progress Towards Inclusive Fulfillment for Sustainable Development in the Digital Economy”, organized by PG and Research Department of Commerce, (School of Management Studies) St. Joseph's College, (Autonomous) Tiruchirappalli, Tamil Nadu, India at 27<sup>th</sup>-28<sup>th</sup> June 2023.
20. Three Days workshop on “Electrochemical Energy Systems” held at 18-20 January, 2022 IIT Madras Chennai, Tamil Nadu, India.
21. Short Term Training Programmed on “Scientific Research, Publications, Grants and Intellectual Property Rights”, at 12-16 June 2023 Organized by Department of Civil Engineering Adithya Institute of Technology Coimbatore, India.
22. One day workshop on “Workshop Applications of Machine Learning Models in Water Resources Management” organized by Indian Water Resources Society and Department of Water Resources Development and Management, Indian Institute of Technology Roorkee on 25<sup>th</sup> February, 2023.
23. One week short term course on “Sustainable Solutions to Solid Waste Management”, held at the Department of Civil Engineering, National Institute of Technology Patna, during September 4–8, 2023.

#### **SCHOLASTIC ACHIEVMENTS/EXTRA ACTIVITY**

1. Qualified GATE-2011
2. Awarded 2<sup>nd</sup> rank on Department research board for Poster presentation at the department level on the occasion of Institute Day (April 2-3, 2016).
3. Awarded 2<sup>nd</sup> rank on the 3<sup>rd</sup> International Conference on “Advances in Civil Engineering (ICACE-2021) during 25-26 June, 2021” organized by Department of Civil Engineering, KL University, AP, India
4. Awarded 1<sup>st</sup> rank on the International Conference on Sustainable Development in Engineering, Management and Medical Sciences 2023 (SDEMMS-2023) organized by Rajshree Institute of Management and Technology, Bareilly, India
5. Actively participated in the activity of Drama Group NANDINIK, BHOPAL.
6. Awarded 1<sup>st</sup> rank on the 12 weeks NPTEL-AICTE course of “Environmental Geomechanics” From July-Oct, 2021.
7. Actively learning two month computer programming in CF, MS (DOS, Word, Excel) Info, Power, Intro to Internet and Win 95 at the APTECH (Computer Education) on the 26<sup>th</sup> March - 26<sup>th</sup> May 2000.

#### **CHAIRPERSON OF THE CONFERENCE**

1. International Online Congress on Membranes and Membrane Assisted Processes (ICMMAP 2021) 12<sup>th</sup> -14<sup>th</sup> February 2021 Kottayam, Kerala, India organized by Mahatma Gandhi University, P.D Hills P.O, Kottayam, Kerala, India & Wroclaw University of Technology, Wroclaw, Poland.
2. International Online Conference on Macromolecules: Synthesis, Morphology, Processing, Structure, Properties and Applications (ICM 2021) 10<sup>th</sup>-12<sup>th</sup> September 2021, Kottayam, Kerala, India Organized by Mahatma Gandhi University, P.D Hills P.O, Kottayam, Kerala, India & Gdansk University of Technology, Chemical Faculty, Gdansk, Poland & Wroclaw University of Technology, Wroclaw, Poland.
3. 3<sup>rd</sup> International Modern Scientific Research Congress held on may 06-08<sup>th</sup> September, 2022 organized by Institute of Economic Development & Social Researches and Istanbul Gedik University Istanbul, Turkey.
4. 3<sup>rd</sup> Karabakh International congress of Applied Sciences "Year of SHUSHA-2022" held on June 7-10, 2022 organized by Institute of Economic Development & Social Researches, Azerbaijan National Academy of Sciences, Azerbaijan State Pedagogical University, Azerbaijan State Agrarian University, Nakhchivan State University, Khazar University and “Nakhchivan” University, Karabagh, Azerbaijan.
5. 4<sup>th</sup> International Conference of Food, Agriculture, and Veterinary Sciences on the occasion of the 40<sup>th</sup> Anniversary of Van Yüzüncü Yıl University held on May 27-28, 2022/Van, Turkey.



6. 8<sup>th</sup> International Mardin Artuklu Scientific Researches Conference organized by Institute of Economic Development & Social Researches June 04-06, 2022/Mardin, Turkey.
7. International Workshop and Conference on Membrane Assisted Water Purification Processes Mahatma Gandhi University, Kottayam, Kerala, India Organized jointly by School of Energy Materials (SEM) Mahatma Gandhi University, Kottayam, Kerala, India National Research Centre, Cairo , Egypt & Lund University, Sweden.
8. 9<sup>th</sup> International Zeugma Conference On Scientific Research held on February 19-21, 2023/ Gaziantep, Türkiye organized by IKSAD Institute.
9. IV. International Halich Congress on Multidisciplinary Scientific Research August 4-5, 2022 / Istanbul organized by Institute of Economic Development & Social Researches.

#### FAVOURITE SUBJECTS

- ❖ Water Quality Parameters, Characteristics and Perspectives
- ❖ Water and Wastewater Treatment
- ❖ Air Pollution Control
- ❖ Solid waste Treatment, Disposal and Management
- ❖ Hydrology and Water Resources Engineering
- ❖ Transportation Engineering
- ❖ Environmental Impact Assessment and Management
- ❖ Environmental Laws and Policies
- ❖ Industrial waste water Treatment
- ❖ Environmental Sanitation Management

#### TRAINING

S. N.	Organization	Duration	Overview
1.	South Eastern Coalfields Limited (SECL), Seepat Road, Bilaspur – 495 006 (C.G.)	15 Days	Environment management of Chirimiri opencast of SECL at Chirimiri area.
2.	Environmental Research Laboratory (ERL), Madhya Pradesh Lake Conservation Authority, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016 (M.P.)	21 Days	Hands down training programmed on sophisticated equipments at Environmental research laboratory (ERL)
3.	Common Effluent Treatment Plant at State Pollution Control Board, Govindpura, Bhopal (M.P.)	45 Days	Treatment of industrial waste water by various treatment processes before it is discharged into the municipal waste water treatment collection systems.
4.	HDFC Standard Life Insurance Company Ltd., Bhikaji Cama Place, Delhi – 110 066.	60 Days	Health Insurance

#### Guidance of B. Tech. Final Year Project students

S.N.	Students Names	Topic of the Projects	Year
1.	V. Naresh Kumar K. Naga Sai Anusha B. Vineela sree S. Vamsi	Applications of plants leaf biosorbents for removal of iron and phosphorus in water	2019-2020
2.	Sk. Rabbani basha G. Vijay babu T. Nagendra K. Ravindra	Removal of nitrate and ammonia from contaminated water by using solid waste bio-adsorbents	2019-2020
3.	K.Ramanjaneya Goud P.V.N.Sandeep Reddy Sk.John Basha M.D.Rafiq Ahme	An experimental study on strength and durability characteristics of self curing self compacting concrete	2019-2020
4.	Botta Sushma Kallam Radhika Angadala Ramu Andugala Jyothsna	Seasonal variation in water quality parameter of Gudlavalleru Engineering College pond	2019-2020
5.	T.Bhaskar Ramaiah M.Pushpadanth G.Sai Mashesh V.Sai Geetha	Effect of bio adsorbents on removal of pollutants in ground water	2020-2021

6.	E.C. Harsha Vardhan Aslamur Rahaman G. Venkatesh K. Pavan Sai	Removal of chlorides and hardness from synthetic water by using biosorbents	2020-2021
7.	J. Dasaratha Ram K. Sravani K. Neeraja k. Moses	Application of biosorbents for removal of nitrite from contaminated water	2021-2022
8.	Jyothi Anne Pushpa Badisa Tejaswini Kundati Rama Sai	The removal of Sulphur and Fluoride removal from water by the applications of biosorbents	2021-2022
9.	Darisi Jyothi Swaroop Pothana Hema Harika Darise Jeswanth Veerabathina Thambi	A study on biosorbents for the removal of chloride ion from water	2022-2023
10.	P. Bharath Y.V. Krishna Reddy P. Moses P. Sai Krishna	Physical And Chemical Analysis Of Surface Water And Ground Water In Krishna District Andhra Pradesh	2022-2023

#### B. Tech. Mini Project Guided

S.N.	Students Names	Topic of the Projects	Year
1.	A. Manisha A. Jyothirmathi S. Hemanth V. Navya Sri	Applications of E-waste Management for Reducing the Environmental Problems	2020-2021
2.	Naga Venkata M. Sai Bhupathi Durga Sankar Chinni Eswar Chaitanya Dakarapu Kranthi Kumar Kali Niranjana	Effects of Plastic Materials Degradation on Environment	2021-2022

#### Reviewer of Journals

- ACS Applied Energy Materials (ACS) (2)
- ACS Nano Materials (ACS) (1)
- ACS Food Science & Technology (ACS) (1)
- Applied Catalysis A: General (Elsevier) (2)
- Applied Catalysis B: Environmental (Elsevier) (1)
- Applied Materials & Interfaces (ACS) (2)
- Applied Surface Science (Elsevier) (2)
- Asian Journal of Business Ethics (Springer) (1)
- Biomass Conversion and Biorefinery (Springer) (1)
- Bulletin of Chemical Reaction Engineering & Catalysis (Elsevier) (3)
- Biomedical Materials & Devices (Springer) (14)
- Catalysis Communications (Elsevier) (2)
- Catalysis Letter (Springer) (2)
- Catalysis Science & Technology (RSC) (1)
- Catalysis Survey from Asia (Springer) (1)
- Chemical Physics Letters (Elsevier) (1)
- Chemical Thermodynamics and Thermal Analysis (Elsevier) (2)
- Cogent Engineering (Taylor & Francis) (1)
- Construction and Building Materials (Elsevier) (2)
- Colloids and Surfaces A: Physicochemical and Engineering Aspects (2)
- Current Research in Ecological and Social Psychology (2)
- Emergent Materials (Springer) (3)
- Energy and Built Environment (Elsevier) (3)
- Environmental Challenges (Elsevier) (2)
- Environmental Science and Technology (ACS) (2)

- Environmental Science and Toxicology (Elsevier) (2)
- Food Chemistry Advances (4)
- Inorganic Chemistry Communications (Elsevier) (2)
- International Journal of Environmental Analytical Chemistry(Taylor & Francis) (2)
- International Journal of Industrial Chemistry (Springer) (1)
- Journal of Building Pathology and Rehabilitation (Springer) (14)
- Journal of Chemical Technology & Biotechnology (Wiley) (1)
- Journal of Electronics Materials (Springer) (3)
- Journal of Building Pathology and Rehabilitation (14)
- Journal of Materials Chemistry A (RSC) (1)
- Journal of Materials in Civil Engineering (ASCE) (2)
- Journal of Molecular Structure (Elsevier) (2)
- Journal of Science: Advanced Materials and Devices (Elsevier) (2)
- Journal of Traffic and Transportation Engineering (English Edition) (Elsevier) (1)
- Journal of Cleaner Production (1)
- Journal of Physics and Chemistry of Solids (1)
- Journal of the Brazilian Chemical Society (1)
- Material Science and Engineering Technology (Wiley) (1)
- Materials Circular Economy (Springer)(3)
- Materials Today Proceedings (Elsevier) (4)
- New Journal of Chemistry (RSC) (2)
- PEC Innovation (Elsevier) (1)
- Process Safety and Environmental Protection (Elsevier) (2)
- PEC Innovations (1)
- Power Electronic Device and Components (1)
- Physica Scripta (1)
- Research on Chemical Intermediates (RINT) (Springer) (1)
- Resource-Efficient Technologies (Elsevier) (2)
- SN Business and Economics (Springer) (3)
- Scientia Horticulturae
- Ultrasonics Sonochemistry (Elsevier) (1)
- Talanta Open (1)
- Transportation Research Interdisciplinary Perspectives (1)

#### **PROFESSIONAL MEMBERS OF THE SOCIETY**

1. American Chemical Society (Membership id. 31954089)
2. International Association of Academic plus Corporate AY-2022 (Membership id. FRTJQC-CE000397)
3. International Society for Development and Sustainability (Membership id. M13110283)
4. Environment and Social Development Association (ESDA) (Membership id. L-537)
5. Research and Scientific Innovation Society Membership (Membership id. RSIS-MB1118-1182)
6. International Society of Environmental Relationship and Sustainability (Membership id. PM31069752)
7. Indian Water Resources Society (Membership id. LM-22-7923)
8. Society for Environmental Sustainability (Membership id. 112)
9. Hong Kong Chemical, Biological& Environmental Engineering Society (HKCBEES) (Membership id. 203327)
10. Institute for Engineering Research and Publications (Membership id. PM80426173)
11. Royal Society of Chemistry (Membership id. 671706)
12. International Association for the Engineers and Computer Scientist (Membership id. 300344)
13. National Skill Development Corporation (Membership id. NSDC/2021-22/1302)
14. International Association of Academic plus Corporate (Membership id. FRTJQC-CE000397)

#### **ADMINISTRATIVE RESPONSIBILITIES**

1. Departmental NAAC criteria III coordinator for 2021 NAAC accreditation process
2. Member of Board of studies for UG for the Autonomous.
3. Departmental NBA criteria IV coordinator for 2021 NBA accreditation process
4. Over all coordinator of Green Club Activities.
5. Department coordinator of virtual lab organizing.
6. Chairman of Class Monitoring committee of Final Year students in Civil Engineering Department
7. Coordinator of B.Tech. IV<sup>th</sup> year Civil Engineering Department students.
8. Class teacher of B.Tech. II<sup>nd</sup> year Civil Engineering Department students

**Research Project applied in DST**

Project Title “A Sustainable approach to Develop an Integrated Biosorptions and IoT-Based Monitoring System for Enhanced Industrial Waste water Treatment” as the CO-PI from Seshadri Rao Gudlavalleru Engineering College, Andhra Pradesh, India under the **Water Technologies Cell Programmed**

**Total cost of the project Rs. 57,00,000/-**

**Research Associate (Environmental Engineering Department in UIT RGPV BHOPAL)**

Project Title: “**Applications of various catalyts in a catalytic converter for conversion of toxic pollutants into less toxic pollutants**”

Duration: 12<sup>th</sup> Jan 2019 to 27<sup>th</sup> May 2019 (4 months 15 days)

**Ph.D. (Civil Engineering Dept. in Environmental Engineering Specialization at IIT (BHU) Varanasi)**

Project Title: “**Control of Carbon Monoxide Emission at Low Temperature Using Hopcalite Catalysts**”

Duration: 22<sup>nd</sup> July 2013 to 26<sup>th</sup> Dec 2018 (5 year and 5month)

**M. Tech. (Civil Engineering Dept. in Environmental Engineering Specialization at IIT (BHU) Varanasi)**

Project Title: “**Removal of Arsenic from Contaminated Water: An Experimental Study**”

Duration: 25<sup>th</sup> May 2012 to 2<sup>nd</sup> July 2013 (1 year and 1month)

**B.E. (Environmental Engineering in UIT RGPV Bhopal)**

Title: “**Water extraction, supply and treatment system for the improvement of water quality in UIT RGPV, BHOPAL**”

Duration: 13<sup>th</sup> Jan 2007 to 10<sup>th</sup> May 2007 (4 month)

**RESEARCH PROFILE**

**SCOPUS AUTHOR ID:** 57193732356, Total Publication = 60; h-index =26, Total Citation = 1382

**GOOGLE SCHOLAR:** Total Citation = 1958; h-index = 30, i10 index = 51

**RESEARCH GATE:** Total Publications = 82; Total Citation = 1420

**ORCID Id.** <https://orcid.org/0000-0002-3408-7429>

**Web of Science Researcher I.D.** Q-9259-2019

**Publication Metrics**

Total Documents = 34, Total times cited = 584, H index = 17; Average Citation per document = 18; Average citation per Year = 28.5

**Peer review metrics**

Verified Reviews = 28 Median 7; Verified review last 12 month = 11; Review to publication ratio = 2.2:1

**COMPUTER SKILL**

- Knowledge of Microsoft office
- Origin lab

**PERSONAL STRENGTH**

Positive Thinking, Always try to grasp new things, Mold myself according to the situation.

**PERSONAL DETAILS**

Father's name : Mr. Debasish Dey

Mother's name : Smt. Lina Dey

Date of birth : 1<sup>st</sup> July 1985

Nationality : Indian

Martial Status : Married

Language Proficiency : Hindi, English, Bengali

Permanent address : 18/1B, Purna Chandra Mitra Lane, Tollygunge, Kolkata  
West Bengal, India, Pin - 700033

Mobile: +91-8017590496, 06291284104

**Interests:** Listening soft music, Playing Chess, cricket and Reading books