## : FACULTY DETAILED RESEARCH DATA:

**Name of the Faculty: DR SUBHASIS SARKAR**

**Designation: Assistant Professor**

**Department: Microbiology**

**School: Life Sciences**

**Research Area: Antimicrobials, Bioremediation**

**Details of research portfolio of faculty:**

**A. Researcher's ID details:**

Google Scholar ID: https://scholar.google.com/citations?user=_M9-AKMAAAAJ&hl=en&authuser=3

Orchid ID: https://orcid.org/0000-0003-2976-5472

Scopus ID: https://id.elsevier.com/settings/redirect?code=elAWBgg0NxuK0eW3r0hD0LbuD5PP4Di7ERA4Vh2K

Vidwan ID: https://vidwan.inflibnet.ac.in/profile/585115

**B. Publication details:**

**1. Conference proceedings/ Conference paper:**

| Sl. No. | Name of the Conference | Title of the paper | Month & Year of Publication | Author(s) Name | National/ International | doi number (if any) | ISSN/ISBN no. |
|---|---|---|---|---|---|---|---|
| 1 | ICSA 2023 | The Key to A Sustainable Future - Algal Biofuel, Journal of Survey in Fishery Sciences. 2023. Vol. 10 No. 1S (Special issue 1), 6395-6400. | 2023 | Naskar, P., Dey, S., Mukherjee, S., Biswas, S., Das, R., Sarkar, S., Ghosh, S., Ghosh, B., Sarkar, S. | International | https://doi.org/10.53555/sfs.v10i1S.2154 | **ISSN: 2368-7487** |
| 2 | ICSA 2023 | Phytoremediation-Friendlier and | 2023 | Ghosh, S., Ghosh, B., Ghosh, M., Paul, S., Pal, | | https://doi.org/10.53555/sfs.v10i1S.2140 | **ISSN: 2368-7487** |

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|---|---|---|---|---|---|---|---|
| | | Affordable Approach to Remediate Heavy Metal Pollution, Journal of Survey in Fishery Sciences. 2023. Vol. 10 No. 1S (Special issue 1), 6291-6296. | | A., Dey, T.., Sarkar, S., Ghosh, S., Ghosh, B., Sarkar, S. | | | |
| 3 | ICALF-2023 | The Role of Plant Hormone on Root Developmen t, Journal of Survey in Fishery Sciences. 2023 Vol. 10 No. 1S (Special issue 1), 6401 – 6407. | **2023** | Nayak, S., Chakraborty, S., Roy, S., Roy, S., Ghosh, K., Ghorui, A., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. | International | https://doi.org/10.53555/sfs.v10i1S.2156 | **ISSN: 2368-7487** |
| 4 | | Water Reclamation Through Nano-remediation & Bioremediation: A Weal Against Conventional Chemical Techniques, Journal of Survey in Fishery Sciences. 2023 Vol. 10 No. 1S (Special issue 1), 6297-6305. | **2024** | Pal, N., Das, P., Dutta, R., Sarkar, S., Mukherjee, S., Devi, P., Mukherjee, M., Dhar, S., Ghosh, S., Sarkar, S., Sarkar, S., Ghosh., B | **International** | https://doi.org/10.53555/sfs.v10i1S.2141 | **ISSN: 2368-7487** |

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|---|---|---|---|---|---|---|---|
| 5 | ICSA 2023 | Phosphate Solubilizing Bacteria: A potential biotic component for solubilizing phosphate in soil and its application as Biofertilizer: A Review. Journal of Survey in Fishery Sciences. 2023 Vol. 10 No. 1S (Special issue 1), 6306-6315. | **2023** | Banerjee, D., Sadhu, P., Das, S., Pal, S., Mitra, S., Ghosal, A., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar. S. | **International** | https://doi.org/10.53555/sfs.v10i1S.2143 | **ISSN: 2368-7487** |
| 6 | ICSA 2023 | Mycoremediation is a Potential Strategy for Environmental Clean-up of Heavy Metal: A Review, Journal of Survey in Fishery Sciences. 2023. Vol. 10 No. 1S (Special issue 1), 6316- 6327. | **2023** | Biswas, D., Chourasia, A., Sasmal, A., Santra, S., Panigrahi, S., Kundu, M., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. | **International** | | **ISSN: 2368-7487** |
| 7 | ICALF-2023 | Water Reclamation Through Nano-remediation & | **2023** | Pal, N., Das, P., Dutta, R., Sarkar, S., Mukherjee, S., Devi, P., Mukherjee, | **International** | https://doi.org/10.53555/sfs.v10i1S.2141 | **ISSN: 2368-7487** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Bioremediation: A Weal Against Conventional Chemical Techniques, Journal of Survey in Fishery Sciences. 2023 Vol. 10 No. 1S (Special issue 1), 6297-6305. | | M., Dhar, S., Ghosh, S., Sarkar, S., Sarkar, S., Ghosh., B | | | |
| | | Analytical approach of micro-RNA interaction study in ovarian cancer, Journal of Survey in Fishery Sciences. 2023. Vol. 10 No. 1S (Special issue 1), 6328- 6335. | 2023 | Sen, A., Mondal, I., Das, S., Roy, S., Mondal, M., Roy, R., Sarangi, S., Banerjee, S., Sarkar, S., Ghosh, B., Sarkar, S., Ghosh, S. | International | https://doi.org/10.53555/sfs.v10i1S.2144 | **ISSN: 2368-7487** |
| 8 | ICSA 2023 | Structural and functional relationship study in plant salinity stress, Journal of Survey in Fishery Sciences. 2023 Vol. 10 No. 1S (Special issue 1), 6336- 6343. | **2023** | Chakraborty, B., Gosai, R., Saha, D., Nayek, B., Biswas, P., Das Gupta, A., Ghosh, R., Ghosh, B., Sarkar, S., Sarkar, S., Ghosh, S. | **International** | https://doi.org/10.53555/sfs.v10i1S.2145 | **ISSN: 2368-7487** |
| 9 | ICSA 2023 | Role of pathogenesis | | Dalalthakur, S., Singh, P., | International | https://doi.org/10.53555/s | **ISSN: 2368-7487** |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | -related (PR) proteins in plant microbes defense mechanism, Journal of Survey in Fishery Sciences. 2023 Vol. 10 No. 1S (Special issue 1), 6344- 6352. | | Singh, S., Sasmal, A., Deb, T., Karmakar, S., Dasgupta, T., Sarkar, S., Sarkar, S., Ghosh, B., Ghosh, S. | | fs.v10i1S.2146 | |
| 10 | ICSA 2023 | Scavenging of Waste Water Using Oyster Mushrooms, Journal of Survey in Fishery Sciences. 2023 Vol. 10 No. 1S (Special issue 1), 6364- 6371. | **2023** | Noor, S., Mondal, M., Singh, S., Sadhu, P., Chourasia, S., Patra, S., Ghosh, K., Pal., S., Sarkar, S., Sarkar, S., Ghosh, S., Ghosh, B. | **International** | https://doi.org/10.53555/sfs.v10i1S.2149 | **ISSN: 2368-7487** |
| 11 | ICSA 2023 | Study About the Absorption Pattern of Soil Chromium By Perennial Flowering Herbs, Journal of Survey in Fishery Sciences. 2023 Vol. 10 No. 1S (Special issue 1), 6372- 6377. | **2023** | Saha, S., Devi, P., Das, S., Roy, S., Sing, P., Mitra, S., Banerjee, S., Mallick, J., Sarkar, S., Sarkar, S., Ghosh, S., Ghosh, B. | International | | **ISSN: 2368-7487** |
| 12 | ICSA 2023 | Therapeutic Role of Probiotics In Managing Various Diseases, Journal of Survey in Fishery Sciences. | **2023** | Sharma, P., Das, S., Sadhu, P., Pal, S., Mitra, S., Ghoshal, A., Biswas, S., Roy, S., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. | International | | **ISSN: 2368-7487** |

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|---|---|---|---|---|---|---|---|
| | | 2023.Vol. 10 No. 1S (Special issue 1), 6378-6380. | | | | | |
| 13 | ICSA 2023 | Phytoremediation: A Way Forward Towards Heavy Metal Management, Journal of Survey in Fishery Sciences. 2023. Vol. 10 No. 1S (Special issue 1), 6381-6394. | 2023 | Ghoshal, A., Saha, P., Mallick, J., Sarkar, S., Chakarborty, M., Sarkar, S., Ghosh, B., Ghosh, S., Sarkar, S. | International | https://doi.org/10.53555/sfs.v10i1S.2152 | **ISSN: 2368-7487** |
| 14 | ICSA 2023 | Genetic Basis And Clinical Perspectives Of Breast Cancer. Journal of Advanced Zoology, (2023). 44(S6). | 2023 | Bidisha Ghosh, Monoswita Chakraborty, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. | International | https://doi.org/10.53555/jaz.v44iS6.3708 | **ISSN**: 0253-7214 |
| 15 | ICSA 2023 | Microbial Plastic Degradation: Nature's Solution for Sustainable Waste Management. Journal of Advanced Zoology, (2023). 44(S6), 2315–2321. | 2023 | Santanu Biswas, Subhajit Pal, Sayani Das, Soumili Banerjee, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. | International | https://doi.org/10.53555/jaz.v44iS6.3720 | **ISSN**: 0253-7214 |
| 16 | ICSA 2023 | Efflux Pumps In Antimicrobial Resistance: Mechanism, Regulation And Therapeutic Implications. Journal of Advanced Zoology, 2023. 44(S5), 2575–2580. | **2023** | Abhishek Ghoshal, Joydev Mallick, Suranjana Sarkar, Semanti Ghosh, Bidisha Ghosh, & Subhasis Sarkar | International | https://doi.org/10.53555/jaz.v44iS5.3282 | **ISSN**: 0253-7214 |
| 17 | ICSA 2023 | Recombinant Protein Production: Advancements And Applications. Journal of | **2023** | Dipti Das, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. | | https://doi.org/10.53555/jaz.v44iS6.3706 | **ISSN**: 0253-7214 |

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|---|---|---|---|---|---|---|---|
| | | Advanced Zoology,2023. 44(S6), 2236–2242. | | | | | |
| 18 | ICSA 2023 | Exosomal RNA: Interplay and Therapeutic Potential. Journal of Advanced Zoology, 44(S6), 2309–2314. | **2024** | Sayantani Chakraborty, Sampanna Roy, Aayushee Chatterjee, Falguni Pal, Ritu Das, Puja Sadhu, Subhasis Sarkar | **International** | https://doi.org/10.53555/jaz.v44iS6.3718 | **ISSN**: 0253-7214 |
| 19 | ICSA 2023 | Oncolytic Viral Nanoparticles: A Combination Of Targeted And Immunotherapeutic Approach For Cancer Treatment: A Review. Journal of Advanced Zoology, 2023. 44(S5), 2537–2550. | 2023 | Puja Sadhu, Suranjana Sarkar, Aritri Laha, Semanti Ghosh, Bidisha Ghosh, & Subhasis Sarkar. | **International** | https://doi.org/10.53555/jaz.v44iS5.3277 | **ISSN**: 0253-7214 |
| 20 | ICSA 2023 | MANAGEMENT OF MICROBIAL BIOFILM USING NANO PARTICLE: A REVIEW. Journal of Advanced Zoology, 2023. 44(S6), 2070–2080. | **2023** | Sulogna Mitra, Suranjana Sarkar, Debjit De, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar. | **International** | https://doi.org/10.17762/jaz.v44iS6.2696 | **ISSN**: 0253-7214 |
| 21 | ICSA 2023 | Application Of Genetic Engineering In Crop Improvement. Journal of Advanced Zoology, 2023. 44(S6), 2301–2308. | **2023** | Prity Singh, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. | | https://doi.org/10.53555/jaz.v44iS6.3717 | **ISSN**: 0253-7214 |
| 22 | ICSA 2023 | Biofertilizer and their importance in sustainable agriculture. Journal of Advanced Zoology, 2023. 44(S5), 2526– | **2023** | Sourav Banerjee, Suranjana Sarkar, Subhasis Sarkar, Bidisha Ghosh, & Semanti Ghosh. | **International** | https://doi.org/10.53555/jaz.v44iS5.3222 | **ISSN**: 0253-7214 |

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|---|---|---|---|---|---|---|---|
| | | 2529. | | | | | |
| 23 | ICSA 2023 | GUT MICROBIOME AND HUMAN HEALTH: A REVIEW. Journal of Advanced Zoology,2023. 44(S6), 2062–2069. | 2023 | Sayani Da, Suranjana Sarkar, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar. | **International** | https://doi.org/10.17762/jaz.v44iS6.2695 | **ISSN**: 0253-7214 |
| 23 | ICSA 2023 | Tuberculosis - A multisystemic disease and antimicrobial resistance in Mycobacterium tuberculosis. Journal of Advanced Zoology, 44(S5), 2641–2645. | 2023 | Tilatoma Dasgupta, Bidisha Ghosh, Suranjana Sarkar, Subhasis Sarkar, & Semanti Ghosh | **International** | https://doi.org/10.53555/jaz.v44iS5.3304 | **ISSN**: 0253-7214 |
| 24 | ICALF 2024 | Unlocking The Potential of Phytochemicals in Anti-Diabetic Therapy: Mechanisms, Challenges, And Future Prospects. Journal of Advanced Zoology, 2023. 44(S6), 2284–2289. | 2023 | Ankit Pal, Shreyoshi Pal, Saikat Manna, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. | **International** | https://doi.org/10.53555/jaz.v44iS6.3713 | **ISSN**: 0253-7214 |
| 25 | ICALF 2024 | Immunity Risk Associated with Cytomegalovirus Infection After Organ Transplantation. Journal of Advanced Zoology, 2023. 44(S5), 2451–2456. | 2024 | Sahely Roy, Semanti Ghosh, Srijani Karmakar, Subhasis Sarkar, Suranjana Sarkar, & Bidisha Ghosh. | **International** | https://doi.org/10.53555/jaz.v44iS5.3202 | **ISSN**: 0253-7214 |
| 26 | ICALF 2024 | Genetic Diagnosis of Vexas Syndrome: A New Rare And | 2024 | Srijani Karmakar, Sahely Roy, Suranjana Sarkar, Bidisha | **2024** | https://doi.org/10.53555/jaz.v44iS5.3302 | **ISSN**: 0253-7214 |

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|---|---|---|---|---|---|---|---|
| | | Deadly Autoinflammatory Disorder In Adults. Journal of Advanced Zoology, 2023. 44(S5), 2636–2640. | | Ghosh, Subhasis Sarkar, & Semanti Ghosh. | | | |
| 26 | ICALF 2024 | Recombinant Hormones: Applications And Challenges. Journal of Advanced Zoology, 2023. 44(S6), 2279–2283. | **2024** | Anwesha Das, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. | **International** | https://doi.org/10.53555/jaz.v44iS6.3712 | **ISSN**: 0253-7214 |
| 27 | ICALF 2024 | Revolutionizing the Biological Landscape: the Power of Genome Editing. Journal of Advanced Zoology, 44(S5), 2446–2450. | **2024** | Deeti Das, Sudipta Chakraborty, Moumita Mukherjee, Susoma Garai, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar, & Suranjana Sarkar. | **International** | https://doi.org/10.53555/jaz.v44iS5.3199. | **ISSN**: 0253-7214 |
| 28 | ICALF 2024 | Analysis of pathogenic genes in dengue virus. Zoological and Entomological Letters 2024; 4(1): 67-70. | **2024** | Satabdi Dey, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and Suranjana Sarkar. | **International** | https://doi.org/10.22271/letters.2024.v4.i1a.84 | **E-ISSN: 2788-8428 P-ISSN: 2788-8436** |

## 2. Publications in SCI/Scopus indexed Journals:

| Sl. No | Name of the Journal (mention SCI/scopus) | Title of the paper | Month & Year of Publication | Author(s) Name (Highlight the corresponding and 1st author in every article) | doi number | Issue No. &Volume No. | Page no. | ISSN of the journal |
|---|---|---|---|---|---|---|---|---|
| 1 | *South African Journal of Botany*, | Unraveling the potential of Acinetobacter | 2024 | Laha, A., **Sarkar, S.**, Sengupta, S., Das, A., Paul, S., & Bhattacharyya, | https://doi.org/10.1016/j.sajb.2024.03.005 | *168*, | 561-70. | Online ISSN: 1727-9321 Print ISSN: |

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|---|---|---|---|---|---|---|---|---|
| | | calcoaceticus for arsenic resistance and plant growth promotion in contaminated lentil field. | | S. | | | | 0254-6299 |
| 2 | Waste and Biomass Valorization | Metabolic dynamics of soil microorganisms of the aquatic ecosystem is a key component for efficient sewage purification in single pond natural treatment wetlands at East Kolkata Wetland (2022). | **2022** | A Das Gupta, **S Sarkar**, J Singh, T Saha, AK Sil. | https://doi.org/10.1007/s12649-022-01806-w | | , 1-14. | **1877-2641**. |
| 3 | Archives of Microbiology, | Bioaugmentation of Enterobacter cloacae AKS7 causes an enhanced degradation of low-density polyethylene (LDPE) in soil (2021): a promising approach for the sustainable management of LDPE waste. | 2021 | RK Sarker, P Chakraborty, **S Sarkar**, MM Ghosh, P Tribedi. | 10.1007/s00203-021-02645-4 | 204 (1) | (1-12). | ISSN: 0302-8933 (print); 1432-072X (web) |
| 4 | 3 Biotech | Cuminaldehyde exhibits potential | 2021 | S Chatterjee, P Paul, P Chakraborty, S | 10.1007/s13205-021- | 11 (11) | 1-12 | ISSN **2190-5738** (Online) |

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|---|---|---|---|---|---|---|---|---|
| | | antibiofilm activity against Pseudomonas aeruginosa involving reactive oxygen species (ROS) accumulation : a way forward towards sustainable biofilm management. | | Das, RK Sarker, **S Sarkar**, A Das, P Tribedi. | 03013-1 | | | |
| 5 | Chemosphere | Nitrogen Dynamics of the aquatic System is an important driving force for efficient sewage purification in single pond natural treatment wetlands at East Kolkata Wetland | 2016 | Anirban Das Gupta, **Subhasis Sarkar**, Jayprakash Singh, Tapan Saha, Alok Kumar Sil | https://doi.org/10.1016/j.chemosphere.2016.08.140 | 164: | **12.** 576-584. | Online ISSN: 1879-1298 Linking ISSN: 0045-6535 |
| 6 | Environ Monit Assess | Exploration of strategies to increase the nitrogen and phosphate content of solid waste landfill soil | 2020 | Poulomi Chakraborty, Rakshita Dave, Payel Paul, Sutirtha Dutta & **Subhasis Sarkar** & Prosun Tribedi | 10.1007/s10661-020-8200-y | 192(4) | 245 | 1573-2959 |
| 7 | Waste and Biomass Valorization | Microbial Functional Diversity Decreases with Sewage Purification in Stabilization Ponds | 2016 | **Subhasis Sarkar**, Prosun Tribedi, Anirban Das Gupta, Tapan Saha, Alok Kumar Sil | https://doi.org/10.1007/s12649-016-9571-8 | 7 | 1-7 | Electronic ISSN:1877-265X<br><br>Print ISSN:1877-2641 |

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|---|---|---|---|---|---|---|---|---|
| 8 | Ecological Engineering | Phosphorous dynamics of the aquatic system constitutes an important axis for waste water purification in natural treatment pond(s) in East Kolkata Wetlands | 2016 | Anirban Das Gupta, **Subhasis Sarkar**, Phanibhusan Ghosh, Tapan Saha, Alok Kumar Sil | https://doi.org/10.1016/j.ecoleng.2016.01.056 | 90 | 63-67 | Online ISSN: 1872-6992<br><br>Print ISSN: 0925-8574 |
| 9 | Journal of Applied Microbiology | 3-Amino-4-Aminoximidofurazan derivatives: small molecules possessing antimicrobial and antibiofilm activity against Staphylococcus aureus and PseudomonasS | 2016 | Das, M. C., Paul, S., Gupta, P., Tribedi, P., Sarkar, S., Manna, D., & Bhattacharjee | 10.1111/jam.13063 | 120(4) | 842-59 | Online ISSN 1365-2672<br><br>Print ISSN 1364-5072 |
| 10 | Waste and Biomass Valorization | Sequential changes of microbial community composition during biological wastewater treatment in single unit waste stabilization system | 2016 | **Subhasis Sarkar**, Prosun Tribedi, Phanibhusan Ghosh, Tapan Saha, Alok Kumar Sil | https://doi.org/10.1007/s12649-015-9471-3 | 7 | 483-493 | Electronic ISSN:1877-265X<br><br>Print ISSN:1877-2641 |
| 11 | Indian Journal of GeoMarine Science | Environmental variability of some edaphic components from virgin areas of tropical | 2015 | S Mukherjee, P Ghosh, **S Sarkar**, T Saha | | | | |

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| | | mangrove forest of Sundarban, India | | | | | | |
| 12 | Archives of microbiology | Biofilm, pathogenesis and prevention—a journey to break the wall: a review | 2016 | Gupta, P., **Sarkar, S**., Das, B., Bhattacharjee, S., & Tribedi, P | 10.1007/s00203-015-1148-6 | 198 | 1-15 | Electronic ISSN:1432-072X<br><br>Print ISSN: 0302-8933 |
| 13 | Environmental Science and Pollution Research | Microbial siderophores and their potential applications: a review. | 2016 | Environmental Science and Pollution Research | https://doi.org/10.1007/s11356-015-4294-0 | 23 | 3984-3999 | 0944-1344 |
| 14 | Ecological Engineering | Suspended Particulate Matter Dynamics act as a driving force for Single Pond Sewage Stabilization System | 2014 | **Subhasis Sarkar**, Phani Bhusan Ghosh, Alok Kumar Sil, Tapan Saha | https://doi.org/10.1016/j.ecoleng.2014.03.060 | 69 | 206–212 | Online ISSN: 1872-6992<br><br>Print ISSN: 0925-8574 |
| 15 | Archives of Applied Science Research | Environmental Assessment in terms of Salinity Distribution in the Tropical Mangrove forest of Sundarban, North East Coast of Bay of Bengal, India | 2013 | **Subhasis Sarkar**, Phanibhusan Ghosh, Tulsi Prasad Das Mahapatra, Shrabani Som Mazumdar and Tapan Saha | | 5 (6) | 109-118. | |
| 16 | Environmental Science and Pollution Research | Isolation of a novel Pseudomonas sp from soil that can efficiently degrade polyethylene | 2011 | Isolation of a novel Pseudomonas sp from soil that can efficiently degrade polyethylene succinate | https://doi.org/10.1016/j.envc.2021.100056 | 18 (1) | 2115–2124 | 0944-1344 |

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| | | succinate | | | | | | |
| 17 | Journal of Ecology and the Natural Environment | Heavy metal contamination in leaves of Mangifera indica around a coal fired thermal power plant in India ( | 2011 | Sengupta S., Chatterjee T., Ghosh P. B., **Sarkar S** and Saha T. | | 3(14) | 446-454 | |
| 18 | Archives of Applied Science Research | Assessment of Heavy metal pollution in Sewage-fed fishery pond surface sediments of East Kolkata Wetland, a Ramsar site in India | 2011 | **Sarkar S**, Ghosh P. B, Sil A.K and Saha T. Environmental Earth Sciences | 10.1007/s12665-010-0760-7 | 6(5) | 915-924 | Electronic ISSN:1866-6299<br><br>Print ISSN:1866-6280 |
| 19 | Water Science and Technology | Sewage Treatment in a Single Pond System at East Kolkata Wetland, India | 2010 | **Sarkar S,** Ghosh PB, Mukherjee K, Sil AK, Saha T | https://doi.org/10.2166/wst.2009.673 | 60 (9) | 2309-17 | *ISSN*: 0273-1223 |

**3. Book chapter:**

| Sl. No. | Title of the book | Publishers | Author(s) Name (Highlight the corresponding and 1st author in every article) | Year | ISBN No. | doi no. (if applicable) |
|---|---|---|---|---|---|---|
| 1. | **Biotechnological interventions in removal of emergent pollutant** | Springer | **Bidisha Ghosh[1], Subhasis Sarkar[*], Santanu Paul*** | 2025 | 978-981-97-9921-3 | https://doi.org/10.1007/978-981-97-9922-0 |
| 2. | **Biotechnological Removal of Emerging Pollutants from Wastewater Systems** | Springer | **Bidisha Ghosh[1], Subhasis Sarkar[*],** | 2025 | 978-981-96-3944-1 | https://doi.org/10.1007/978-981-96-3945-8 |
| 3. | BIOBRIDGES: Connecting Technology with the Future of Life | Integrated Publications | **Sayan Mondal,** Arunava Maity, Subhasis Sarkar, Suranjana Sarkar**, Bidisha Ghosh** | 2025 | 978-93-5834-179-9 (Paperback ISBN) 978-93-5834-976-4 ( E-reader ISBN) | https://doi.org/10.62778/int.book.535 |
| 4. | BIOBRIDGES: Connecting Technology with the Future of Life | Integrated Publications | **Soumili Bakshi,** Subhasis Sarkar, Suranjana Sarkar**, Bidisha Ghosh** | 2025 | 978-93-5834-179-9 (Paperback ISBN) 978-93-5834-976-4 ( E-reader ISBN) | https://doi.org/10.62778/int.book.535 |
| 5. | BIOBRIDGES: Connecting Technology with the Future of Life | Integrated Publications | **Shrishti Dey,** Bidisha Ghosh, Suranjana Sarkar**, Subhasis Sarkar** | 2025 | 978-93-5834-179-9 (Paperback ISBN) 978-93-5834-976-4 ( E-reader ISBN) | https://doi.org/10.62778/int.book.535 |
| 6. | **The Living World: Fundamentals of Life Sciences** | AkiNik Publications | **Madiha Perween,** Subhasis Sarkar, Suranjana Sarkar and **Bidisha Ghosh[*]** | 2025 | 978-93-6135-585-1 | https://doi.org/10.22271/ed.book.3190 |
| 7. | **The Living World: Fundamentals** | AkiNik Publications | **Sulogna Mitra,** Bidisha Ghosh, Suranjana Sarkar and | 2025 | 978-93-6135-585-1 | https://doi.org/10.22271/ed.book.3190 |

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| | **of Life Sciences** | | **Subhasis Sarkar** | | | |
| 8. | **The Living World: Fundamentals of Life Sciences** | AkiNik Publications | **Anushka Singh,** Madiha Perween, Palak Bhardwaj, Priyanka Mandal, Riya Lama, Semanti Ghosh, Subhasis Sarkar, Suranjana Sarkar and **Bidisha Ghosh** | 2025 | 978-93-6135-585-1 | https://doi.org/10.22271/ed.book.3190 |
| 9. | **The Living World: Fundamentals of Life Sciences** | AkiNik Publications | **Prity Singh,** Anwesha Das, Tiyasha Saha, Semanti Ghosh, Bidisha Ghosh, Subhasis Sarkar and **Suranjana Sarkar)** | 2025 | 978-93-6135-585-1 | https://doi.org/10.22271/ed.book.3190 |
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| 35. | Probiotics are highly effective against Viral Infections: Towards illustratingthe contributions of probiotics in combating with the viral pathogen" Multidisciplinary Review Book. Taurean Publications, New Delhi; | | Pal, P., **Sarkar, S**. | 2022 | **SBN- 978-93-91074-40-1** | |

**4. Text/Reference book published from reputed national/international publishers:**

| Sl. No. | Title of the Text/Reference book | Publishers | Author(s) Name (Highlight the corresponding and 1st author in every article) | Year | ISBN No. | doi no. (if applicable) |
|---|---|---|---|---|---|---|
| | | | | | | |

**5. Project granted:**

| Sl. No | Sponsoring Agency | Name of the project | Duration | | Amount in Lakhs | PI/ CO-PI |
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| | | | Starting Month & Year | Ending month & Year | | |
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**6. Consultancy Project Grant:**

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**7. Patent/IPR granted:**

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| 1 | malai Probiotic formulation | Soham Banik, Souradeep Sarka, Argha Chakraborty, Ashwini Saha, Debolina Mitra, Dr SubhasisSarkar | Swami Vivekananda University | 2/03/202 | 8/03/2025 | No | 202531022101A |

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