



*Dr. Alok Prasad Das*

**Designation:** Assistant Professor

**Qualification:** M.Sc, M.Tech PhD

**Date of Birth:** 15.08.1984

**Date of Joining:** 23.06.2018

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**ORCID:** <https://orcid.org/0000-0003-1499-4133>

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**WOS:** [http://www.webofscience.com/wos/author/record/\[C-1675-2013\]](http://www.webofscience.com/wos/author/record/[C-1675-2013])

## Area of Interest

Geomicrobiology, Bioremediation, Marine Microplastics Pollution and Sustainable Solutions

## Courses taught

Bioinstrumentations, Fermentation Technology, Waste Management, Bioremediation  
**Career**

Assistant Professor (2018-present): Rama Devi Women's University, Bhubaneswar

## Teaching Experience

15 years

## Research Experience

18 years

## Administrative/Executive Experience (only prominent/statutory roles including membership of academic council/syndicate/board of studies. Avoid mere membership in committees)

Coordinator, Dept. of Statistics, Rama Devi Women's University (September 2020-April 2022)

Coordinator, E- Office, Rama Devi Women's University (September 2019-Present)

Coordinator, SAMARTH Portal Rama Devi Women's University (June 2022- Present)

Coordinator, IPR Cell, Rama Devi Women's University (June 2022-Present)

## Awards & Honors (including travel support award)

- Young Scientist, Govt. of Odisha, Odisha Bigyan Academy, 2015
- International travel award to visit Singapore from SERB, DST, Govt. of India (2010).

## Research Guidance

- ✓ PhD thesis supervised : **02 (Two)**
- ✓ M Tech/M.Phil thesis supervised : **05 (Five)**
- ✓ M.Sc thesis supervised : **20 (Twenty)**

## Research Grants (All research grants including seed funds)

Serial No	Govt. of India Sanctioned Research Projects	Funding agency	Position	Amount & year
1.	Investigation of Microbial Remediation Technology for Synthetic Microfiber Pollutants	DST, Govt. of Odisha	Principal Investigator	9.08Lakhs 2023-2025
2.	Bioreactor based enhanced biorecovery of manganese from mining waste residues [SP/YO/031/2016].	DST, Govt. of India	Principal Investigator	32.5Lakhs 2016-2019
3.	Enhanced recovery of Manganese as Electrolytic Manganese Dioxide (EMD) from Ferro manganese mine tailings through bioleaching	Ministry of Mines, Govt. of India	Principal Investigator	30 Lakhs 2016-2019
4.	Development of biosensors for rapid endotoxin detection in fluid systems used for the production of clinically applicable compounds [BT/PR3752/MED/32/208/2011]	DBT Govt. of India	Principal Investigator	17.33 Lakhs 2012-2014
5.	Biomining of manganese from wastes and natural resources [BT/PR7454/BCE/8/949/2012]	DBT Govt. of India	Principal Investigator	20.42 Lakhs 2014-2017
6.	Development of instrumentation methodology for rapid and noninvasive endotoxin detection in Urinary Tract Infection [IDP/MED/02/2013]	DST Govt. of India	Principal Investigator	52.57 Lakhs 2014-2016
7.	Development of simple single step chromogenic methodology for rapid detection of food pathogens and toxins [BT/PR10426/PFN/20/783/2013]	DBT Govt. of India	Principal Investigator	11.68 Lakhs 2014-2016

<b>Total project cost as PI = 1 Corer 64.9 Lakhs</b>				
8.	Development of rapid diagnostic kit for early detection of rhizome rot in turmeric and ginger	DST Govt. of India	Co- Investigator	2856800 Lakhs 2021-2024
9.	Establishment of a culture collection centre in North East Region of India phase II	DBT Govt. of India	Co- Investigator	202880 Lakhs 2017-2020
10.	Rapid detection of <i>P. falciparum</i> and <i>P. vivax</i> in human urine and saliva samples: a noninvasive approach for malaria diagnosis	DST, Govt. of India	Co- Investigator	42 lakhs 2014-2017

## Publications

SI NO	Authors	Title of paper	Journal	Year/ Vol/Page	IF	Journal ISSN No	DOI
1.	Mishra, S., Ghosh, S., van Hullebusch, E. D., Singh, S., & Das, A. P.	A Critical Review on the Recovery of Base and Critical Elements from Electronic Waste-Contaminated Streams Using Microbial Biotechnology.	Applied Biochemistry and Biotechnology	2023 1–30.	3.094	0273-2289	<a href="https://doi.org/10.1007/S12010-023-04440-X">https://doi.org/10.1007/S12010-023-04440-X</a>
2.	Benya, A., Mohanty, S., Hota, S., Das, A. P., Rath, C. C., Achary, K. G., & Singh, S.	Endangered <i>Curcuma caesia</i> Roxb.: Qualitative and quantitative analysis for identification of industrially important elite genotypes.	Industrial Crops and Products,	2023 195, 116363.	6.499	0926-6690	<a href="https://doi.org/10.1016/J.INDCROP.2023.116363">https://doi.org/10.1016/J.INDCROP.2023.116363</a>
3.	Dey, S., Tripathy, B., Kumar, M.	Ecotoxicological consequences of manganese mining	Environmental Chemistry	2023		2141-226X	<a href="https://doi.org/10.101">https://doi.org/10.101</a>

	<b>S., &amp; Das, A. P.</b>	pollutants and their biological remediation	and Ecotoxicology.				6/J.EN CECO. 2023.0 1.001
4.	<b>Raj, K., &amp; Das, A. P.</b>	Lead pollution: Impact on environment and human health and approach for a sustainable solution.	Environmental Chemistry and Ecotoxicology,	2023 5,79-85		2141-226X	<a href="https://doi.org/10.1016/J.ENCECO.2023.02.001">https://doi.org/10.1016/J.ENCECO.2023.02.001</a>
5.	<b>B. Tripathy, A.Dash, and A. P. Das</b>	Detection of Environmental Microfiber Pollutants through Vibrational Spectroscopic Techniques: Recent Advances of Environmental Monitoring and Future Prospects.	Critical Reviews in Analytical Chemistry	2022	5.6	1547-6510	<a href="https://doi.org/10.1080/10408347.2022.2144994">https://doi.org/10.1080/10408347.2022.2144994</a>
6.	<b>P. P. Sahoo, S. Singh, P.K. Rout, S.Mishra, A.P. Das</b>	Microbial remediation of plastic pollutants generated from discarded and abandoned marine fishing nets.	Biotechnology and Genetic Engineering Reviews.	2022	4.2	0264-8725	<a href="https://doi.org/10.1080/02648725.2022.2152629">https://doi.org/10.1080/02648725.2022.2152629</a>
7.	<b>S. Mishra, D. Dash, and A.P.Das</b>	Detection, characterization and possible biofragmentation of SM released from domestic laundering wastewater as an emerging source of marine pollution	Marine Pollution Bulletin.	2022, (185) 114254	7.01	0025-326X	doi: 10.1016/j.marpolbul. 2022.1 14254.

8.	S. Mishra, D. Dash, A. R. M. Tawaha, <b>A.P.Das</b>	A Review on Heavy Metal Ion Adsorption on Synthetic Microfiber Surface in Aquatic Environments	Applied Biochemistry and Biotechnology.	2022	4	0273-2289	<a href="https://doi.org/10.1007/s12010-022-04029-w">https://doi.org/10.1007/s12010-022-04029-w</a>
9.	S Ghosh. and <b>A.P Das</b>	Role of Microorganisms in Extenuation of Mining and Industrial Wastes	Geomicrobiology	2022	2.5	1521-0529	<a href="https://doi.org/10.1080/01490451.2022.2038953">https://doi.org/10.1080/01490451.2022.2038953</a>
10.	S. Mohanty and <b>A. P. Das.</b>	A Systematic Study on the Microbial Degradation of Glyphosate: A Review	Geomicrobiology,	2021	2.5	1521-0529	<a href="https://doi.org/10.1080/01490451.2021.1998255">https://doi.org/10.1080/01490451.2021.1998255</a>
11.	J. Bhattacharjee, S. Mishra, <b>A. P. Das.</b>	Recent Advances in Sensor-Based Detection of Toxic Dyes for Bioremediation Application: A Review.	Applied Biochemistry and Biotechnology	2021	3.09	0273-2289	<a href="https://doi.org/10.1007/s12010-021-03767-7">10.1007/s12010-021-03767-7</a>
12.	S. Mishra, S. Swain, M. Sahoo, S. Mishra, <b>A.P. Das.</b>	Microbial colonization and degradation of microplastics in aquatic ecosystem	Geomicrobiology,.	2021	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2021.1983670">https://doi.org/10.1080/01490451.2021.1983670</a>
13.	Biswal, P. Pal, Ghosh. S, A., <b>Das, A.P.</b>	Exploration of probiotic microbial biodiversity in acidic environments	Geomicrobiology	2021	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2021.1983670">https://doi.org/10.1080/01490451.2021.1983670</a>

		(curd) and their futuristic pharmaceutical applications.					021.19 56020
14.	D. Lahiria, M. Naga, A. Dey, T. Sarkar, S. Joshie, S. Pandit, <b>A. P. Das</b> , S. Pati, S. Pattanaik, V. K. Tilak and R.R.	Biofilm Mediated Degradation of Petroleum Products	Geomicrobiology journal.	2021	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2021.1968979">https://doi.org/10.1080/01490451.2021.1968979</a>
15.	Biswal, P. Pal, A., <b>Das, A.P.</b>	Screening for probiotic potential of Lactobacillus Rhamnosus strain CRD4	Biointerface Research in Applied Chemistry	2021 Volume 11, Issue 2,	1.95	2069-5837	
16.	Ghosh, S., Gandhi, M., van Hullebusch, E.D., <b>Das A.P.</b>	Proteomic insights into Lysinibacillus sp. mediated biosolubilisation of manganese.	Environmental Science and Pollution Research.	2021	5.19	1614-7499	10.1007/s11356-020-10863-4
17.	Singh, R.P., Mishra, S., <b>Das, A.P.</b>	Synthetic microfibers: Pollution toxicity and remediation,	Chemosphere.	2020 127199	7.086	1879-1298	<a href="https://doi.org/10.1016/j.chemosphere.2020.127199">https://doi.org/10.1016/j.chemosphere.2020.127199</a>
18.	Mishra, S., Singh, R.P., Rath, C. C., <b>Das, A. P</b>	Synthetic microfibers: Source, transport and their remediation	Journal of Water Process Engineering.	2020 38 101612	7.3	2214-7144	<a href="https://doi.org/10.1016/j.jwpe.2020.101612">https://doi.org/10.1016/j.jwpe.2020.101612</a>

19.	Mishra, S., Rout, P.K., <b>Das, A.P.</b>	Solar Photovoltaic Panels as next generation waste: A Review.	Biointerface Research in Applied Chemistry	2019 9(6), 4539-4546.	1.95	2069-5837	
20.	A. Prabhakar, S. Mishra & <b>A. P. Das.</b>	Isolation and Identification of Lead (Pb) Solubilizing Bacteria from Automobile Waste and Its Potential for Recovery of Lead from End of Life Waste Batteries.	Geomicrobiology Journal.	2019	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2019.1654044">https://doi.org/10.1080/01490451.2019.1654044</a>
21.	P. Biswal, A. Pal and <b>A.P. Das.</b>	Molecular identification of native LAB isolated from curd samples with probiotic potential.	Biointerface Research in Applied Chemistry .	2019	1.95	2069-5837	
22.	S.Mishra, C.C. Rath and <b>A. P. Das.</b>	Marine microfiber pollution: A review on present status and future challenges.	Marine Pollution Bulletin	2019 140, 188-197	7.001	0025-326X	<a href="https://doi.org/10.1016/j.marpolbul.2019.01.039">https://doi.org/10.1016/j.marpolbul.2019.01.039</a>
23.	S. Ghosh and <b>A.P. Das.</b>	Metagenomic insights into the microbial diversity in manganese-contaminated mine tailings and their role in biogeochemical cycling of Mn.	Nature Scientific Reports journal.	2018 8:8257	4.379	2045-2322	10.1038/s41598-018-26311-w

24.	S. Mohanty, S. Ghosh, B. Bal, and <b>A.P. Das.</b>	A review of biotechnology processes applied for manganese recovery from wastes.	Reviews in Environmental Science and Bio/Technology.	2018 17 (4), 791-811, 2018	14.28	15691705	DOI:10.1007/s11157-018-9482-1
25.	B. Bal S. Ghosh, and <b>A.P. Das.</b>	Microbial recovery and recycling of Manganese waste and their future application: A review.	Geomicrobiology Journal.	20182018. 1: 1521-0529	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2018.1497731">https://doi.org/10.1080/01490451.2018.1497731</a>
26.	M.S. Kumar, <b>A.P. Das.</b>	Emerging nanotechnology based strategies for diagnosis and therapeutics of UTI A review.	Advances in Colloid and Interface Science.	2017 249:53-65	15.19	0001-8686	10.1016/j.cis.2017.06.010
27.	<b>A.P. Das</b> and S. Ghosh.	Bioleaching of Manganese of mining waste materials.	Materials Today Proceedings.	2017 5,2381-2390,		2214-7853	<a href="https://doi.org/10.1016/j.matpr.2017.11.459">https://doi.org/10.1016/j.matpr.2017.11.459</a>
28.	S. Ghosh, B. Bal and <b>A.P. Das.</b>	Enhancing Mn recovery from low grade ores by using mixed culture of indigenously isolated bacterial strains.	Geomicrobiology Journal	2018 35,242-246	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2017.1362080">https://doi.org/10.1080/01490451.2017.1362080</a>
29.	S. Ghosh and <b>A.P. Das.</b>	Bioleaching of Manganese from mining waste residues using Acinetobacter sp.	Geology, Ecology, and Landscapes.	2017 1, 77-83		24749508	<a href="https://doi.org/10.1080/24749508.2017.1362080">https://doi.org/10.1080/24749508.2017.1362080</a>



30.	S. Mohanty, S. Ghosh, S. Nayak, <b>A.P. Das.</b>	Bioleaching of manganese by <i>Aspergillus</i> sp. isolated from mining deposits.	Chemosphere.	2017 172, 302-309	7.086	1879-1298	<a href="https://doi.org/10.1016/j.chemosphere.2016.12.136">https://doi.org/10.1016/j.chemosphere.2016.12.136</a>
31.	M.S. Kumar and <b>A. P. Das.</b>	Molecular identification of multi drug resistant bacteria from urinary tract infected urine samples.	Microbial Pathogenesis,	2016 98, 37-44	3.8	0882-4010	10.1016/j.micpath.2016.06.029
32.	Bal B, Armstrong P.B., <b>Das A.P</b>	Development of Indigenous Biosensing Methodology for Rapid and Low Cost Endotoxin Detection System.	Sensor Network Data Communication	2016 S1: 005. doi:10.4172/2090-4886.S1-005.		2090-4886	10.4172/2090-4886.S1-005
33.	<b>A.P.Das.</b>	Biosensors: The Future of Diagnostics.	Sensor Network Data Communication	2016		2090-4886	<a href="http://dx.doi.org/10.4172-e001">http://dx.doi.org/10.4172 - e001</a>
34.	S. Mohanty, S. Ghosh, S.Nayak and <b>A.P. Das.</b>	Isolation, identification and screening of Mn solubilizing fungi from low grade Mn ore deposits.	Geomicrobiology journal,	2016 34, 309-316	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451">https://doi.org/10.1080/01490451</a>
35.	S. Ghosh, S. Mohanty, A. Akcil, L.B. Sukla and <b>A.P. Das.</b>	A greener approach for resource recycling: Manganese bioleaching.	Chemosphere	2016 154, 628-639	7.086	1879-1298	<a href="https://doi.org/10.1016/j.chemosphere.2016.04.028">https://doi.org/10.1016/j.chemosphere.2016.04.028</a>

36.	M.S. Kumar, S. Ghosh, <b>A.P. Das.</b>	Recent advances in biosensor based diagnosis of Urinary Tract Infection..	Biosensors and Bioelectronics,	2016 80, 497-510,	12.54	0956-5663	DOI: 10.1016/j.bios.2016.02.023
37.	A.S. Sanket S. Ghosh S. Mohanty, R. Kumar, <b>A.P. Das.</b>	Molecular identification of acidophilic Mn solubilizing bacteria from mining effluents and their application in mineral beneficiation,	Geomicrobiology journal,	2016 34, 1, 71-80.	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2016.1141340">https://doi.org/10.1080/01490451.2016.1141340</a>
38.	S. Mohanty, S. Ghosh, S.Nayak and <b>A.P. Das.</b>	Isolation, identification and screening of mn solubilizing fungi from low grade manganese ore deposits.	Geomicrobiology journal,	2016 34, 309-316	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2016.1189016">https://doi.org/10.1080/01490451.2016.1189016</a>
39.	P. Biswal, A. Pal, <b>A.P. Das.</b>	A New Light of Therapy for Non-Alcoholic Fatty Liver Disease	Int. J. Pharm. Sci. Rev. Res.,	2015 33(1), 61, 326-336.		0975-1491	
40.	S. Ghosh S. Mohanty, S. Nayak, Lala Sukla, & <b>A.P. Das.</b>	Molecular identification of mn solubilising bacterial biodiversity from mn mining deposits	Journal of Basic Microbiology.	2015 55,1-9	2.6	0233-111X	DOI: 10.1002/jobm.201500477
41.	S. Ghosh & <b>A.P. Das.</b>	Modified titanium oxide (TiO <sub>2</sub> ) nanocomposites and its array of applications: A Review,	Toxicological & Environmental Chemistry	2015 96	1.564	2772248	<a href="https://doi.org/10.1080/02772248.2015.1052204">https://doi.org/10.1080/02772248.2015.1052204</a>

42.	<b>A.P. Das</b> , S. Ghosh, S. Mohanty & Lala Sukla,	Consequences of Manganese Compounds	A Review, Toxicological & Environmental Chemistry	2015 96, 981-997	1.564	2772248	<a href="https://doi.org/10.1080/02772248.2015.1005428">https://doi.org/10.1080/02772248.2015.1005428</a>
43.	<b>A.P. Das</b> , P.S. Kumar, S. Swain,	Recent Advances in Biosensor Based Endotoxin Detection,	Biosensors and Bioelectronics.	2014 51, 62-75	12.54	0956-5663	<a href="https://doi.org/10.1016/j.bios.2013.07.020">https://doi.org/10.1016/j.bios.2013.07.020</a>
44.	Mohanty S, Bal B and <b>Das AP.</b>	Adsorption of Hexavalent Chromium onto Activated Carbon.	Austin J Biotechnol Bioeng.	2014 1(2):5.	2.1	2378-3036	
45.	<b>A.P. Das</b> , N. Pradhan, L.B. Sukla. International Journal of Nonferrous Metallurgy	Microbial recovery of manganese using Staphylococcus epidermidis.	International	2012, 9-12.	1.56		10.4236/ijnm.2012.12002
46.	<b>A.P. Das</b> , S. Swain, S. Panda, N. Pradhan, L. B. Sukla.	Reductive Acid Leaching of Low Grade Manganese Ores.	Geomaterials	2012 2, 70-72	0.69	2161-7546	10.4236/gm.2012.24011
47.	<b>A.P. Das</b> , L.B. Sukla, N. Pradhan, S. Nayak.	Manganese biomining: A review.	Bioresour ce Technology,	2011 102 (16), (2011), 7381-7387.	10.89	09608524	<a href="https://doi.org/10.1016/j.biortech.2011.05.018">https://doi.org/10.1016/j.biortech.2011.05.018</a>

48.	<b>A.P. Das</b> and S. Singh.	Occupational health assessment of chromite toxicity among Indian miners.	1.Indian J Occup Environ Med,	2011 15, 10-17		0973-2284	10.410 3/0019-5278.8 2998
49.	<b>A.P. Das</b> and A. Bissoyi.	Computational approach for comparative phylogenetic analysis of isolated chromium resistant strain B. casei.	Journal of Engineering and Technology Research,	2011 3, 82-87	2.15	2278-0181	
50.	R. K Sahoo, A.Kuanar, R.K. Joshi, <b>A.P. Das</b> , S, Nayak, E Subudhi.	Anti-dermatophytic activity of eucalyptol rich turmeric somaclone oil against human pathogenic isolates.	Journal of Medicinal Plants Research	2011 5(9), 1594-1597	0.33	16840240	
51.	<b>A.P. Das</b> and S. Mishra,	Biodegradation of the Metallic carcinogen Hexavalent chromium Cr (VI) by an indigenously isolated bacterial strain.	Journal of Carcinogenesis,	2010 9:6	5.334	09746773	10.410 3/1477-3163.6 3584
52.	<b>A.P. Das</b> , S. Mishra and P. Seragadam	Microbial remediation of Cr VI from chromite contaminated mines of Sukinda Valley, Orissa.	Journal of Env . Research and Development,	2009 Volume 3 No. 4:1122-1127	1.268	2319-5983	
53.	<b>A.P Das</b> , S. Mishra.	[Cr (VI)]: Yellow water Pollution and its Remediation.	1.ENVIS Newsletter on Wetland Ecosystem	2009 Vol. 5, No. 2, June		0972-3153	

54.	<b>A.P. Das</b> and S. Mishra	Hexavalent Chromium (VI): Health hazards & Environmental Pollutant.	Journal of Environmental Research and Development,	2009 2: 386-392	1.268	2319-5983	
55.	<b>A.P. Das</b> and S. Mishra.	Hexavalent chromium reduction and 16S rDNA identification of bacteria isolated from a Cr (VI) contaminated site.	The Internet Journal of Microbiology.	2008 7:1, 1-6		1937-8289	
56.	Bisnu Prasad Dash , <b>Alok Das</b> and Amarendra Narayan Misra.	Morphological Studies of Indian Horseshoe Crab (Tachypleus gigas) from Chandipur Beach of East India.	Anvesa	2008 3(1): 71-73		0974-5467	

### Patents (Entire list of patents/copyrights etc.)

Patent no.	Patent type	Patent title	Year of filing	Name of Inventor(s)	Status
201731027325	Indian patent	A process for microbial leaching of manganese	2017	S. Ghosh & A.P. Das	Under consideration

**Journal publications (Give the entire list of publication in Scopus/SCI-WoS/UGC care only)**

Sl NO	Authors	Title of paper	Journal	Year/ Vol/Page	IF	Journal ISSN No	DOI
1.	Mishra, S., Ghosh, S., van Hullebusch, E. D., Singh, S., & Das, A. P.	A Critical Review on the Recovery of Base and Critical Elements from Electronic Waste- Contaminated Streams Using Microbial Biotechnology.	Applied Biochemis try and Biotechno logy	2023  1–30.	3.094	0273- 2289	<a href="https://doi.org/10.1007/S12010-023-04440-X">https://doi.org/10.1007/S12010-023-04440-X</a>
2.	Benya, A., Mohanty, S., Hota, S., <b>Das, A. P.</b> , Rath, C. C., Achary, K. G., & Singh, S.	Endangered Curcuma caesia Roxb.: Qualitative and quantitative analysis for identification of industrially important elite genotypes.	Industrial Crops and Products,	2023  195, 116363.	6.499	0926- 6690	<a href="https://doi.org/10.1016/J.INDCROP.2023.116363">https://doi.org/10.1016/J.INDCROP.2023.116363</a>
3.	B. Tripathy, A.Dash, and <b>A. P. Das</b>	Detection of Environmental Microfiber Pollutants through Vibrational Spectroscopic Techniques: Recent Advances of Environmental Monitoring and Future Prospects.	Critical Reviews in Analytical Chemistry	2022	5.6	1547- 6510	<a href="https://doi.org/10.1080/10408347.2022.2144994">https://doi.org/10.1080/10408347.2022.2144994</a>

4.	P. P. Sahoo, S. Singh, P.K. Rout, S.Mishra, <b>A.P. Das</b>	Microbial remediation of plastic pollutants generated from discarded and abandoned marine fishing nets.	Biotechnology and Genetic Engineering Reviews.	2022	4.2	0264-8725	<a href="https://doi.org/10.1080/02648725.2022.2152629">https://doi.org/10.1080/02648725.2022.2152629</a>
5.	S. Mishra, D. Dash, and <b>A.P.Das</b>	Detection, characterization and possible biofragmentation of SM released from domestic laundering wastewater as an emerging source of marine pollution	Marine Pollution Bulletin.	2022, (185) 114254	7.01	0025-326X	doi: 10.1016/j.marpolbul.2022.114254.
6.	S. Mishra, D. Dash, A. R. M. Tawaha, <b>A.P.Das</b>	A Review on Heavy Metal Ion Adsorption on Synthetic Microfiber Surface in Aquatic Environments	Applied Biochemistry and Biotechnology.	2022	4	0273-2289	<a href="https://doi.org/10.1007/s12010-022-04029-w">https://doi.org/10.1007/s12010-022-04029-w</a>
7.	S Ghosh. and <b>A.P Das</b>	Role of Microorganisms in Extenuation of Mining and Industrial Wastes	Geomicrobiology	2022	2.5	1521-0529	<a href="https://doi.org/10.1080/01490451.2022.2038953">https://doi.org/10.1080/01490451.2022.2038953</a>
8.	S. Mohanty and <b>A. P. Das.</b>	A Systematic Study on the Microbial Degradation of Glyphosate: A Review	Geomicrobiology,	2021	2.5	1521-0529	<a href="https://doi.org/10.1080/01490451.2021.1998255">https://doi.org/10.1080/01490451.2021.1998255</a>

9.	S. Mishra, S. Swain, M. Sahoo, S. Mishra, <b>A.P. Das.</b>	Microbial colonization and degradation of microplastics in aquatic ecosystem	Geomicrobiology,.	2021	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2021.1983670">https://doi.org/10.1080/01490451.2021.1983670</a>
10.	Biswal, P. Pal, Ghosh. S, A., <b>Das, A.P.</b>	Exploration of probiotic microbial biodiversity in acidic environments (curd) and their futuristic pharmaceutical applications.	Geomicrobiology	2021	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2021.1956020">https://doi.org/10.1080/01490451.2021.1956020</a>
11.	D. Lahiria, M. Naga, A. Dey, T. Sarkar, S. Joshie, S. Pandit, <b>A. P. Das</b> , S. Pati, S. Pattanaik, V. K. Tilak and R.R.	Biofilm Mediated Degradation of Petroleum Products	Geomicrobiology journal.	2021	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2021.1968979">https://doi.org/10.1080/01490451.2021.1968979</a>
12.	Ghosh, S., Gandhi, M., van Hullebusch, E.D., <b>Das A.P.</b>	Proteomic insights into Lysinibacillus sp. mediated biosolubilisation of manganese.	Environmental Science and Pollution Research.	2021	5.19	1614-7499	10.1007/s11356-020-10863-4
13.	Singh, R.P., Mishra, S., <b>Das, A.P.</b>	Synthetic microfibers: Pollution toxicity and remediation,	Chemosphere.	2020 127199	7.086	1879-1298	<a href="https://doi.org/10.1016/j.chemosphere.2020.127199">https://doi.org/10.1016/j.chemosphere.2020.127199</a>



14.	Mishra, S., Singh, R.P., Rath, C. C., <b>Das, A. P</b>	Synthetic microfibers: Source, transport and their remediation	Journal of Water Process Engineeri ng.	2020  38 101612	7.3	2214- 7144	<a href="https://doi.org/10.1016/j.jwpe.2020.101612">https://doi.org/10.1016/j.jwpe.2020.101612</a>
15.	A. Prabhakar, S. Mishra & <b>A. P. Das.</b>	Isolation and Identification of Lead (Pb) Solubilizing Bacteria from Automobile Waste and Its Potential for Recovery of Lead from End of Life Waste Batteries.	Geomicro biology Journal.	2019	2.4	1521- 0529	<a href="https://doi.org/10.1080/01490451.2019.1654044">https://doi.org/10.1080/01490451.2019.1654044</a>
16.	S.Mishra, C.C. Rath and <b>A. P. Das.</b>	Marine microfiber pollution: A review on present status and future challenges.	Marine Pollution Bulletin	2019  140, 188- 197	7.001	0025- 326X	<a href="https://doi.org/10.1016/j.marpolbul.2019.01.039">https://doi.org/10.1016/j.marpolbul.2019.01.039</a>
17.	S. Ghosh and <b>A.P. Das.</b>	Metagenomic insights into the microbial diversity in manganese- contaminated mine tailings and their role in biogeochemical cycling of Mn.	Nature Scientific Reports journal.	2018  8:8257	4.379	2045- 2322	<a href="https://doi.org/10.1038/s41598-018-26311-w">10.1038/s41598-018-26311-w</a>
18.	S. Mohanty, S. Ghosh, B. Bal, and <b>A.P. Das.</b>	A review of biotechnology processes applied for manganese recovery from wastes.	Reviews in Environm ental Science and Bio/Techn ology.	2018  17 (4), 791-811, 2018	14.28	1569170 5	DOI:10.1007/s11157-018-9482-1

19.	B. Bal S. Ghosh, and <b>A.P. Das.</b>	Microbial recovery and recycling of Manganese waste and their future application: A review.	Geomicrobiology Journal.	20182018. 1: 1521-0529	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2018.1497731">https://doi.org/10.1080/01490451.2018.1497731</a>
20.	M.S. Kumar, <b>A.P. Das.</b>	Emerging nanotechnology based strategies for diagnosis and therapeutics of UTI A review.	Advances in Colloid and Interface Science.	2017 249:53-65	15.19	0001-8686	10.1016/j.cis.2017.06.010
21.	S. Ghosh, B. Bal and <b>A.P. Das.</b>	Enhancing Mn recovery from low grade ores by using mixed culture of indigenously isolated bacterial strains.	Geomicrobiology Journal	2018 35,242-246	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2017.1362080">https://doi.org/10.1080/01490451.2017.1362080</a>
22.	S. Mohanty, S. Ghosh, S. Nayak, <b>A.P. Das.</b>	Bioleaching of manganese by <i>Aspergillus</i> sp. isolated from mining deposits.	Chemosphere.	2017 172, 302-309	7.086	1879-1298	<a href="https://doi.org/10.1016/j.chemosphere.2016.12.136">https://doi.org/10.1016/j.chemosphere.2016.12.136</a>
23.	M.S. Kumar and <b>A. P. Das.</b>	Molecular identification of multi drug resistant bacteria from UTI samples.	Microbial Pathogenesis,	2016 98, 37-44	3.8	0882-4010	10.1016/j.micpath.2016.06.029
24.	S. Mohanty, S. Ghosh, S.Nayak and <b>A.P. Das.</b>	Isolation, identification and screening of Mn solubilizing fungi from low grade Mn ore deposits.	Geomicrobiology journal,	2016 34, 309-316	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451">https://doi.org/10.1080/01490451</a>

25.	S. Ghosh, S. Mohanty, A. Akcil, L.B. Sukla and <b>A.P. Das.</b>	A greener approach for resource recycling: Manganese bioleaching.	Chemosphere	2016 154, 628-639	7.086	1879-1298	<a href="https://doi.org/10.1016/j.chemosphere.2016.04.028">https://doi.org/10.1016/j.chemosphere.2016.04.028</a>
26.	M.S. Kumar, S. Ghosh, <b>A.P. Das.</b>	Recent advances in biosensor based diagnosis of Urinary Tract Infection..	Biosensors and Bioelectronics,	2016 80, 497-510,	12.54	0956-5663	DOI: 10.1016/j.bios.2016.02.023
27.	A.S. Sanket S. Ghosh S. Mohanty, R. Kumar, <b>A.P. Das.</b>	Molecular identification of acidophilic Mn solubilizing bacteria from mining effluents and their application in mineral beneficiation,	Geomicrobiology journal,	2016 34, 1, 71-80.	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2016.1141340">https://doi.org/10.1080/01490451.2016.1141340</a>
28.	S. Mohanty, S. Ghosh, S.Nayak and <b>A.P. Das.</b>	Isolation, identification and screening of mn solubilizing fungi from low grade manganese ore deposits.	Geomicrobiology journal,	2016 34, 309-316	2.4	1521-0529	<a href="https://doi.org/10.1080/01490451.2016.1189016">https://doi.org/10.1080/01490451.2016.1189016</a>
29.	S. Ghosh S. Mohanty, S. Nayak, Lala Sukla, & <b>A.P. Das.</b>	Molecular identification of mn solubilising bacterial biodiver from mn mining deposits	Journal of Basic Microbiology.	2015 55,1-9	2.6	0233-111X	DOI: 10.1002/jobm.201500477
30.	S. Ghosh & <b>A.P. Das.</b>	Modified titanium oxide (TiO <sub>2</sub> ) and its array of appl: A Review,	Toxicological & Environmental Chemistry	2015 96	1.564	2772248	<a href="https://doi.org/10.1080/01490451.2015.1002331">https://doi.org/10.1080/01490451.2015.1002331</a>

31.	<b>A.P. Das, S. Ghosh, S. Mohanty &amp; Lala Sukla,</b>	Consequences of Manganese Compounds	A Review, Toxicological & Environmental Chemistry	2015 96, 981-997	1.564	2772248	<a href="https://doi.org/10.1080/02772248.2015.1005428">https://doi.org/10.1080/02772248.2015.1005428</a>
32.	<b>A.P. Das, P.S. Kumar, S. Swain,</b>	Recent Advances in Biosensor Based Endotoxin Detection,	Biosensors and Bioelectronics.	2014 51, 62-75	12.54	0956-5663	<a href="https://doi.org/10.1016/j.bios.2013.07.020">https://doi.org/10.1016/j.bios.2013.07.020</a>
33.	<b>A.P. Das and S. Mishra,</b>	Biodegradation of the Metallic carcinogen Hexavalent chromium Cr (VI) by an indigenously isolated bacterial strain.	Journal of Carcinogenesis,	2010 9:6	5.334	09746773	10.4103/1477-3163.63584

### Book/book chapter Publications (entire list of books/book chapters)

Sl No	Authors	Title	Publisher	Year	ISBN	DOI
1.	<b>Alok Das, Shreya Ghosh</b>	Biobleaching of manganese from mining waste residues using <i>Acinetobacter</i> sp.	Manganese mining microorganisms, Elsevier	2023	9780128214711	<a href="https://doi.org/10.1080/24749508.2017.1332847">https://doi.org/10.1080/24749508.2017.1332847</a>
2.	<b>Mishra, S. Singh, R.P. Rout, P.K Das, A.P.</b>	Membrane bioreactor (MBR) as an advanced wastewater treatment technology for removal of synthetic microplastics.	Development in Wastewater Treatment Research and Processes, Elsevier	2022	9780323855839	<a href="https://doi.org/10.1016/B978-0-323-85583-9.00022-3">https://doi.org/10.1016/B978-0-323-85583-9.00022-3</a>

3.	Dipankar Das, <b>Alok Prasad Das</b> , Prasanta Kumar Rout.	Effect of Slag Addition on Compressive Strength and Microstructural Features of Fly Ash Based Geopolymer.	Circular Economy in the Construction Industry. CRC Press.	2021	9781032108964	DOI:10.1201/9781003217619-9
4.	Mishra S. P.K. Rout and <b>Das A.P.</b>	Emerging microfiber pollution and its remediation.	Microbial biotechnology and Environmental issues/ Remediation. Springer Nature.	2021	2662-1681	DOI:10.1007/978-981-15-5499-5_9
5.	Mishra S. and <b>Das A.P.</b>	Current treatment technologies for removal of microplastic and microfiber pollutants from wastewater.	Wastewater Treatment: Cutting Edge Molecular Tools, Techniques and Applied Aspects . Elsevier.	2021	9780128218952	<a href="https://doi.org/10.1016/B978-0-12-821881-5.00011-8">https://doi.org/10.1016/B978-0-12-821881-5.00011-8</a>
6.	Shreya Ghosh & <b>Das A.P.</b>	Microbial metagenomics: Current advances in investigating microbial ecology and population dynamics.	Frontiers in Soil and Environmental Microbiology to be published by CRC Press, a Taylor & Francis,	2020	9781138599352	DOI:10.1201/9780429485794-26
7.	B.Bal and <b>A.P. Das.</b>	Molecular identification and phylogenetic analysis of Indian mangrove horseshoe crab.	Research and considerations in the global efforts to conserve and protect globally the four species of Horseshoe Crabs. Springer, LLC.	2020		DOI:10.1007/978-3-030-82315-3_3
8.	B. Bal and <b>A. P. Das.</b>	Recovery of manganese from low grade ferromanganese ores using <i>B. safensis</i> .	Recent Developments in Waste Management Springer	2020	978-981-15-0990-2	<a href="https://doi.org/10.1007/978-981-15-0990-2_3">https://doi.org/10.1007/978-981-15-0990-2_3</a>

9.	Kishor Kumar Sadasivuni, Sunita Rattan, S. Ghosh, <b>A. P. Das</b>	Silver Nanoparticles and Its Polymer Nanocomposites— Synthesis, Optimization, Biomedical Usage, and Its Various app	Polymer Nanocomposites in Biomedical Engineering ,Springer Nature Switzerland AG. 2019.	2019	978-3-030-04741-2	DOI:10.1007/978-3-030-04741-2_11
10	Shreya Ghosh, M.S. Kumar B. Bal and <b>A.P. Das.</b>	Application of bioengineering in revamping human health: Omics Tools aqnd Their Applications	Springer	2018	978-981-10-8693-9	DOI:10.1007/978-981-10-8693-9_2
11	P. Biswal, A. Pal and <b>A. P. Das.</b>	“Current trends and future prospective of prebiotics as therapeutic food	Elsevier	2017	9780128115169	DOI:10.1016/B978-0-12-811520-6.00003-9
12	B. Bal, S. Nayak and <b>AP Das.</b>	“Recent Advances in Molecular Techniques for the Diagnosis of Foodborne Diseases” in Nanotechnology applications in food.	Elsevier, Edited by Alexandra Elena Oprea. Nanotechnology applications in food	2017	978-0-12-811942-6	DOI:10.1016/B978-0-12-811942-6.00013-3
13	<b>A.P. Das,</b> S. Ghosh, B. Bal and S. Nayak	Advanced Nanosensors for detection food pathogens and toxins.	Nanobiosensors (Nanotechnology in the Food Industry), Elsevier.	2016	9780128043721	
14	S. Ghosh, S. Mohanty, L.B. Sukla and <b>A.P. Das</b>	“Biomining: An Emerging Technology for Manganese Recovery and Recycling” in “Recent biotechnological applications in India”.	ENVIS Centre of Environmental biotechnology	2016		

15	<b>A.P. Das,</b> B. Bal and P.S. Mahapatra.	Chromogenic biosensors for pathogen detection.	Biological and Pharmaceutical Applications of Nanomaterial, CRC press, Taylor & Francis.	2015	9780367575649	DOI:10.1201/b18654-15
16	<b>A.P. Das,</b> S. Ghosh, S. Mohanty, L.B. Sukla.	Advances in Manganese pollution and its bioremediation.	Environmental Microbial Biotechnology. Soil Biology, Springer.	2015	978-3-319-19018-1	DOI:10.1007/978-3-319-19018-1_16
17	<b>A.P. Das,</b> B. Bal and P.S. Mahapatra	Horseshoe crabs in modern day biotechnological applications	Changing global perspectives on biology. Conservation and management of horseshoe crabs, Springer.	2015	978-3-319-19542-1	DOI:10.1007/978-3-319-19542-1_26
18	<b>A.P. Das,</b> S. Ghosh, S. Mohanty, L. B. Sukla.	Biometallurgy: Greener Technology for mineral recovery from Wastes.	Applied and Industrial biotechnology.	2015	9789385961205	DOI:10.13140/RG.2.1.2244.8728
19	Susmita Mishra, <b>Alok Prasad Das</b> and Padma Seragadam	Isolation and characterization of nickel-resistant bacteria from electroplating waste.	Global Environmental Issues: Empirical Evidences. Serials, 2010, xxii,	2011	81-8387-369-7	
20	<b>A.P. Das,</b> L. B. Sukla, N. Pradhan, S. Nayak.	Isolation and characterization of manganese solubilising bacteria and its potential for manganese bioleaching.	Bio-hydrometallurgical: biotechnology keys to open the door to use of mineral resources.	2011	978-7-5487-0356-3	

## Book Editor

Sl No	Editor	Book Title	Publisher	Year	ISBN	DOI
1.	<b>A.P Das</b> Shreya Ghosh.,	Manganese Mining Microorganisms	Elsevier	2023	9780128221471	<a href="https://www.elsevier.com/books/manganese-mining-microorganisms/das/978-0-12-822147-1">https://www.elsevier.com/books/manganese-mining-microorganisms/das/978-0-12-822147-1</a>
2	Maulin P Shah and <b>A.P Das</b>	Advance greener technology for environmental sustainability and circular economy	CRC Press	2023	Under Progress	
3	Sunanda Mishra & <b>A.P Das</b>	Impact of Covid-19 waste on Environment Pollution and its Sustainable Management	Springer	2023	Under Progress	
4	<b>A.P Das,</b> Ipsita Dipamitra Behera and Narayan Prasad Das	Renewable Energy Generation And Value Addition From Environmental Microfiber Pollution Through Advanced Greener Solution	Springer	2023	Under Progress	
5	<b>A.P Das</b> and Ipsita Dipamitra Behera	Impact Of Petroleum Waste On Environmental Pollution And Its Sustainable Management Through Circular Economy	Springer	2023	Under Progress	
6	<b>A.P Das,</b> Eric D. Van Hullebusch and Ata Akcil	Circular Economy Approaches for the Sustainable Management of Mining Waste and Tailings	CRC Press	2023	Under Progress	



7.	Ananya Kuanar, Dattatreya Kar, <b>A.P Das,</b> Maulin P Shah	Sustainable Management of Environmental Pollutants Through Phytoremediation	CRC Press	2023	Under Progress	
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## Participation in Conferences & Seminars (as invited/plenary/chair)

1. Delivered Invited Talk as Resource person at National Seminar on The current trends in Plant Science at Kendrapara Autonomous College, 25-26 February 2023.
2. Delivered Invited Talk at International Conference on, Geosciences and Remote Sensing, GeoRS-2022, Microorganism in mining waste remediation Technologies. November 23-25.
3. Delivered Keynote talk at the Biospectrum-2022 conference on Metagenomic Exploration of Native Manganese Bioleaching Microorganism. 5<sup>th</sup>-6<sup>th</sup> November 2022.
4. Delivered Invited talk in the SOA WAL -2022, Organized by Department of Chemistry, Siksha O Anusandhan University, Bhubaneswar, Odisha on 17th September, 2022.
5. Delivered Invited talk in the 3rd International Conference on Bioprocess for Sustainable Environment and Energy –2022, Organized by Department of Biotechnology, held on 20-24 June, 2022 at National Institute of Technology Rourkela.
6. Delivered Invited talk in the International Conference on Recent trends in Biotechnology, Organized by Department of Biotechnology, Centurion University of Technology and Management, Bhubaneswar, Odisha, on 22-23 June, 2022.
7. Delivered Invited talk in the International Conference on Advance in Energy, Environment for Sustainable Development, organized by Siksha O Anusandhan University, Bhubaneswar, Odisha and NIT Meghalaya, from 7-8 January 2022.
8. Delivered Invited talk in the International online Conference on Advanced Nano Materials, Organized by center for Nanaoscience & Technology, Mahatma Gandhi University, Kerala, from 14-16 December 2021.
9. Delivered Invited talk in the AICTE sponsored STTP on Functional Metagenomics and Bioprocessing of Therapeutic Enzymes organized by the Department of Biotechnology, Sri Venkateswara College of Engineering, Sriperumbudur, 22nd-27th February 2021.
10. Delivered Invited talk in the National Conference on Recent trends in Interdisciplinary Research in Basic Science, IQAC cell, Pillai HOC college of Arts , Science & commerce, Rasayani, Maharashtra, India

11. Organized International Webinar on "Understanding the COVID-19 Pandemic: Challenges and Opportunities" during 29th and 30th June, 2020, Dept. of Life Sciences, RDWU.

12. Delivered Invited Talk on "Recycling of synthetic microplastics: An environmental perspective for controlling microplastic pollution" at the Fifth International 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. Mahatma Gandhi University Kottayam, Kerala, India.

13. A.P. Das. Bacterial extraction and recycling of Manganese from mining residues 2nd International Conference on Bioprocess for Sustainable Environment and Energy (ICBSEE-India-2020) 5 -7th March, NIT Rourkela, Odisha.

14. A.P. Das. Synthetic Microfibers: Detection, Characterization and removal for Environmental Sustainability. Third International Conference on Advanced Materials for Power Engineering (ICAMPE 2019), conference, 9-11 August 2019 at Mahatma Gandhi University, Kottayam, Kerala, India.

15. A.P. Das. National level brainstorming workshop on conservation of horseshoe crab and horseshoe crab habitats on 26th April 2019 in Kolkata.

16. A.P.Das. Biomineral Recycling for Bioenergy Applications. Workshop on Energy Production and Management, 19th-23rd March 2018, NIT Agartala.

17. A. P. Das, Bio processing of manganese based mining and industrial residues for recovery of inorganic manganese. New Frontiers in Chemistry-from Fundamentals to Applications (NFCFA2015), 18th-19th December, 2015, BITS Pilani, Goa.

18. A. P. Das, Molecular phylogenetic of Indian horseshoe crab. National seminar on Biology, Biotechnology and Conservation of Indian Horseshoe crab, 29- 30th, Nov-2015, Amarda college, Balasore, Odisha.

19. A. P. Das, Chromogenic biosensors for detection of food pathogens and toxins, National conference on nutritional, functional and safety challenges of food, 26- 27, March, 2015 SRM University, Chennai.

20. A. P. Das, Non-invasive biosensing methodology for rapid detection of endotoxin in biological fluids, International Conference on Frontiers in Biological Sciences, 22nd-24th January, 2015, NIT Rourkela.

21. A. P. Das, Sensing the unseen through advanced biosensors. ISTE-SRM University sponsored Short Term Training Programme on "Recent Advances in Smart Materials" during 7th -12th July 2014, TACT, Bhubaneswar.