

Dr. ASHUTOSH DAS, M.Tech, Ph.D (IIT Delhi)

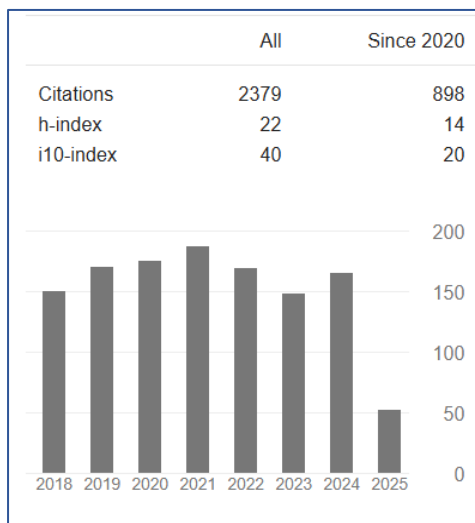


Domain Expertise

Waste management, Life cycle assessment, GIS-Modelling, Data analytics

Certifications

2024: Greenhouse Gases Carbon Footprint of Products(ISO 14067: 2018)- QCI, India
2023: **Certified patent agent** (INP-5322)- IPO India
2020: Certified Professional in climate change and Environmental Sustainability - CII, Hyderabad, India
2020: Certified Professional in Life Cycle Assessment - CII, Hyderabad, India
2017: Laboratory Quality Management Systems & Internal Audit as per IS/ISO/IEC 17025- BIS, India
2016: Certification on Faecal Sludge Management - UNESCO-IHE & CSE, India
2015: Green Auditor Certification - Strategic Sustainability Consulting (SSC), Virginia, USA



Orcid Id
0000-0002-9647-2525

Scopus Id
55450736500

Researcher Id
LKN-2234-2024

Google Scholar Id
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Vidwan-ID : 574352

Research achievements- Outline

1. No. of publication in Peer Reviewed Journals	115*
2. No. of publication in Conference Proceedings	50
3. Ph.D candidates guided (and continuing)	8 (3)
4. M. Tech. student guided	35
5. Online courses developed: Institute level and National level	22 and 1 (e-PG pathshala)
6. Online subject expert	1 (Chegg/ Statistics and Probability)
6. Awards	11
7. Symposium/training organized	23
8. Fellow and Membership in Professional bodies	18
9. Editorial positions in Peer Reviewed Journals	25
10. No. of patents/designs granted	5 patents/ 11 designs
11. No. of extramural projects granted by govt agencies	8

Research Experience

(a) Sponsored Research Projects

Year of Funding	Sponsoring Organisation	Title of Project	Amount (Rs)	Position
2025	BIMRen/BOBP-IGO (Approved)	Protection and Restoration of Blue Carbon Ecosystems in selected zones at South-East Coastal Belt of India	49 Lakh	Principal Investigator

2019	ISRO/RESPOND	Estimation and tracking of Subsurface Groundwater Discharge (SGD) along Coastal stretches of Andhra Pradesh and Tamil Nadu, based on understanding and Modeling of Coastal Aquifer Dynamics (ISRO/RES/4/684/19-20)	33 Lakh	Principal Investigator
2018	DRDO	Study project on the development of reactor for safe disposal of explosive (DRDL/21/90P/18/01174/101030)	8.99 lakh	Principal Investigator
2018	DST-WTI	Centre for Sustainable Treatment, Reuse and Management for Effluent, Affordable and Synergistic solutions for water (WATER-IC for SUTRAM of EASY WATER)(DST/TM/WTI/WIC/2K17/82(G))	8.93 crore (40.53 lakh for PRIST)	Partner Investigator (along with IIT-M, IIT-T,IIT-R, CLRI,IISERB, Anna Univ, Kumaon Univ. & VIT).
2014	DST-TSG	Characterization and Utilization of selected, Deoiled Cake as Adsorbents in Textile Wastewater Treatment (DST/TSG/AF/2011/148/28. 01.2013)	34.98 lakh	Principal Investigator
2005	DST-ESS	Water Quality Assessment in Tsunami Affected Coastal Areas of Tamil Nadu – Nagapattinam to Vedaranyam	3.33 lakh	Principal Investigator
2004	DST-SERC	Development of a low cost indigenous adsorbent using agro wastes for dephenolation of aqueous industrial wastewater	9.20 lakhs	Principal Investigator
2004	DST-SERC	Research Study at Mahamaham Tank to monitor the water quality and to derive a model on the variants of water quality	3.60 lakhs	Principal Investigator

(b) Doctoral Projects Guided

S. No.	Name of Student	Year / University	Title of Thesis
1	B. Nilavu	2025/PRIST	Development, Process Optimization and Performance Assessment of Plastic Waste Derived Graphene-Based Microbial Fuel Cell Coupled with Microbial Electrolysis Cell
2	V. Samuthirakani	2025/PRIST	Subgrade Stabilization with Copper Slag for Sustainable, Low Carbon, Cost Effective Flexible Pavement.
3	P.Thangamani	2021/PRIST	Geo & hydro-spatial modeling of solid waste management systems using coupled analytical Hierarchical process and geographic information system at Kumbakonam town of southern India
4	R. Nallusamy	2018/PRIST	Application of Fuzzy-based GIS in MSW management: A case study of Perambalur Municipality of Southern India.
5	V. Jothi	2016/PRIST	MSW Management through leachate characterization, modeling & spatial analysis
6	B.Subramanyam	2012/SASTRA	Studies on Adsorption Capacities of Indigenous Soil-Agro Residue Blends for Dephenolation of Aqueous Media
7	T. Rajaram	2010/SASTRA	EIA in India and its enhancement through integrated assessment and simulation of sustainability linkages

8	V. Sri hari	2008/SASTRA	Studies on Adsorption Capacities of Selective Indigenous Agrowaste for Dephenolation of Aqueous Media
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(d) Ph.D. Thesis Examiner: Univ. of Pet. & En. St, (Dehradun), Visva Bharati (Santiniketan)

(e) Consultancy Work Carried Out

S.No.	Project	Year	Client	Cost
1.	"Pacifica Arum" 450 KLD STP & UF Plant for Proposed Residential Building at Padoor Village, Thiruporur Taluk, Kancheepuram Dt		M/s. E - Lights Techno Park Pvt Ltd.,	Rs. 40, 000
2	150 KLD STP & UF Plant for existing IT building at Kottivakkam Village, Tambaram Taluk, Kancheepuram Dt.		M/S. Easyaccess Financial Services Ltd.,	
3	"Sobha Elan" -170 KLD Sewage Treatment Plant for construction of Residential Development at Krishnarayapuram, Coimbatore		M/s. Lakshmi Machine Works Limited, Coimbatore	Rs. 27500
4	370 KLD STP and 150 KLD UF Plant for proposed construction of Multi storied building IT Park at Porur Village, Maduravoyal Taluk, Thiruvallur Dt.		M/s. Horizon View Properties Private Limited	Rs. 40,000
5	Assessment of Sand-Exploitation in beach mining in the coast of Kanyakumari, Tirunelveli and Tuticorin Districts of Tamil Nadu		Federation of Indian Placer Minerals Industries, Chennai	Rs 2,75,000
6	Development of an expert system of EIA for sand Quarry operation		Hubert Enviro Care Systems Pvt Ltd	Rs 3,05,000
7	Development of Online Ambient Air-Quality Monitoring System		Hubert Enviro Care Systems Pvt Ltd	Rs 2,10,000

Invited Guest & Resource Person (Selected):

Sl.No.	Topic	Event	Date	Venue
1	Entrepreneurship in Environment Management'	National Symposium on Entrepreneurship Development'	30 th Oct'10	PSB, PRIST University
2	Role of Kalinga Architecture in Better Environment	UGC Sponsored Workshop on 'Indian Temple Architectural Heritage	20 th Jan'11	Dept of Architecture, Tamil University, Thanjavur
3	Health Safety and Environment Management'	Special Lectures Series on Construction & Environment	7 th Mar'11	NICMAR, Hyderabad Campus
4	FDP- School of Civil Engineering	Chief Guest & Resource person	27 th Jan'12	Annai College of Engg and Tech, Kumbakonam
5	Chief Guest lecture	National Conference ITS'13	13 th Feb'13	K.Ramakrishnan College of Tech,Trichy

6	Hands-on training on statistical software – excel, SPSS & Weka	Basic Geo-statistical Analysis for Experimental Data Sets	25th to 26th March'14	Dept of Geology, University of Madras, Chennai
7	Chief Guest lecture	Employability Skill Dev. Prog. for Adv. Banking Financial Services & Insurance Sector	19th Sept.-17th Oct. 2016	ICTACT Skill Dev. Centre & Tamil Nadu Skill Dev. Corp, Chennai
8	LCA- What, Why and How?	'World Environment Day' Special Lecture	05th June'25	Shantiniketan Vishwa Bharati, West Bengal

Administrative Experience

Period	Organisation	Designation	Nature of Responsibility
2010-2025	PRIST University	Pro-Vice Chancellor (Research)	Streamline and consolidate the research activities of the University (covering six campuses)
2010-2025	PRIST University	Director, Centre for Environmental Engg Director, Centre for Sustainable development Coordinator, Green Cell	Starting of the Department, floating courses, recruiting staff members, setting up laboratories and coordinate research and consultancy activities along with staff administration, Student activities
2007-2010	SASTRA University	Project Coordinator, Centre for Advance Research in Environment (CARE)	Coordination of Setting of laboratory-equipment & instrumentation,, coordination of ongoing projects of CARE, conduct of Certificate courses & training programs & Faculty Recruitment
2002-present	SASTRA University	Member of Academic council, Doctoral Club & Ph.D. board	Framing syllabus & courses, Ph.D.-candidate interview & Rules/Regulation framing board,
2005-2006	SASTRA University	Hostel warden	Overall maintenance and administration of Hostel & associated mess.
2004-2005	SASTRA University	Off-campus Sports & Cultural Coordinator	Co-ordination of Students' participation in cultural programs of other institutions.

12. Selected Publications (*h-index=22.0, Cumulative Impact Factor/Thomson-Reuter: 42.546*)

Authors	Title	Year	Source title	Volume	Issue
Sathya R. ; Das A.;	Sustainability assessment of Hybrid constructed Wetlands vis-à-vis conventional activated Sludge processes for Municipal wastewater treatment	2025	Research Journal of Chemistry and Environment	29	7

Nilavu B.; Das A. ; Sathya R.; Mahalakshmi N.	Rice-mill wastewater treatment using microbial electrolytic cell (mec): quality characterization and performance assessment	2024	Rasayan Journal of Chemistry	17	2
Balraju N.; Ashutosh D. ; Parthiban P.	Design and Life Cycle Assessment (LCA)-based Sustainability Evaluation of a Novel Microbial Fuel Cell (MFC)-Integrated Sequencing Batch Reactor (SBR) System	2024	Research Journal of Chemistry and Environment	28	9
Das A. ; Parthiban P.	Environmental sustainability assessment of captive conventional sewage treatment plant designs	2023	International Journal of Environmental Science and Technology	20	10
Ponmani P.; Bahadur J.; Tewari C.; Gupta D.K.; Kalita U.; Jegadeesan P.; Ravindran T.R.; Alex A.; Das A. ; Sahoo N.; Sivanantham M.; Choudhury S.	Polyaniline modified waste-derived graphene/sulfur nanocomposite cathode for lithium-sulfur batteries	2023	Journal of Polymer Science	61	18
Padmanaban P.; Parthiban P.; Mahesh R.; Sivanantham M.; Nilavu B.; Chetna T.; Nandagopal S.; Ashutosh D.	Parametric Optimization and performance assessment of polyaniline graphene-impregnated electrode-based low-cost Microbial Fuel Cell using mixed culture obtained from Canteen wastewater	2023	Research Journal of Chemistry and Environment	27	6
Sugam V.; Parthiban P.; Ravikumar K.; Das I.C.; Ashutosh D.	Steady-state Assessment of Hydraulic Potential at Water Scarce regions of Agniyar River Basin, India using GMS-MODFLOW	2023	Disaster Advances	16	5
Mahesh R.; Neelakantan R.; Anbalagan R.; Parthiban P.; Das A.	Spatio-Temporal Assessment of Land use / Land cover using Normalized Difference Vegetation Index (NDVI) of Satellite Imageries and its relationship with Landslide-prone Zones in Kodaikanal Hill Station of Tamil Nadu, India	2022	Disaster Advances	15	10
Pandian P.; Thekkumalai M.; Das A. ; Goel M.; Asthana A.; Ramanaiah V.	Simulation of Phenol and Chlorophenol Removal Using Combined Adsorption and Biodegradation: Regression Analysis and Data-Mining Approach	2022	Journal of Hazardous, Toxic, and Radioactive Waste	26	3
Vedartham S.; Busetty S.; Das A.	Column adsorption study for the removal of phenol from aqueous medium using agro-residue adsorbent	2022	Desalination and Water Treatment	269	
Parthiban P.; Malathi S.; Manjubarkavi B.; Sivaranjani S.; Das A.	Development and performance assessment of a castor-based vertical flow constructed wetland system for utilization of landfill leachate	2022	Desalination and Water Treatment	270	
Parthiban P.; Alagar Raj K.; Das A.	Sustainable Agro Landuse Evaluation through Life Cycle	2021	Research Journal of	25	4

	Assessment for Sugarcane Cultivation in Cauvery Deltaic Regions of India		Chemistry and Environment		
Subbiah T.S.; Mahesh R.; Parthiban P.; Das A.	Spatio-temporal variability of gamma radiation profile along the southern-Indian coastline (Poompuhar to Nagapattinam stretch)	2021	Nature Environment and Pollution Technology	20	3
Jha K.K.; Kannan T.T.M.; Das A.	Fuel from Plastic Waste: A Review	2021	Lecture Notes in Mechanical Engineering	23	
Stalin Subbiah T.; Mahesh R.; Parthiban P.; Das A.	Stormwater suitability zonation in southern indian coastal city of nagapattinam using coupled FIS- GIS modeling	2021	Disaster Advances	14	2
Subbiah T.S.; Parthiban P.; Mahesh R.; Das A.	Time series analysis of decadal precipitation pattern at selected cities of southern India	2021	Nature Environment and Pollution Technology	20	3
Busetty S.; Das A.	Equilibrium and kinetic studies – adsorption of phenol using a de-oiled cake of jatropha sp.	2021	Desalination and Water Treatment	210	
Samuthirakani V.; Das A.	Life Cycle Assessment of Asphaltic Pavement: A Literature Review	2020	Indian Journal of Environmental Protection	40	3
Parthiban P.; Malarvili T.; Jayakumar V.; Goel M.; Asthana A.; Das A.	Demineralization of phenol derivatives using sequential adsorption and biological degradation process	2020	Rasayan Journal of Chemistry	13	3
Jha K.K.; Kannan T.T.M.; Chandradass J.; Wilson D.V.H.; Das A.	Analysis and simulation of mini pyrolysis reactor for conversion of plastic waste into fuel	2020	Materials Today: Proceedings	45	
Stalin Subbiah T.; Parthiban P.; Mahesh R.; Sivasamandy R.; Das A.	Fuzzy based hydro-lithological zonation of stormwater regime in Thanjavur city of Southern India	2020	Disaster Advances	13	11
Samuthirakani V.; Das A.	Life cycle inventory of greenhouse gas emission associated with bitumen production	2020	International Journal of Scientific and Technology Research	9	5
Parthiban P.; Gokulakrishnan V.; Goel M.; Asthana A.; Das A.	Simultaneous adsorption and biodegradation of reactive dyes using jatropha deoiled cakes	2019	International Journal of Innovative Technology and Exploring Engineering	8	12
Narayanan P.A.; Ishwarya V.; Goel M.; Das A.	Performance of combined adsorption and biological process in decolorization and demineralization of dye wastewater	2018	Nature Environment and Pollution Technology	17	1
Das A. ; Goel M.; Sudarsan J.S.; Kamalanandhini M.; Golda Percy V.P.	Physio-chemical characteristics of temple tank-water subject to multiple episode of mass bathing at Mahamaham-A spatio-temporal assessment	2018	Journal of Advanced Research in Dynamical and Control Systems	10	8 Special Issue

Thangamani T.; Das A. ; Rajamanickam M.; Sivasamandy R.	Assessment of ground water quality due to municipal solid waste near karikulam dumping site at kumbakonam municipality	2018	International Journal of Civil Engineering and Technology	9	10
Tamizh Selvan R.; Jacob J.; Wilson V.H.; Das A. ; Goel M.	Performance evaluation and comparison of diesel and biodiesel blend of diesel engine fitted with ysz piston	2017	International Journal of Mechanical Engineering and Technology	8	7
Tamizh Selvan R.; Sidhharth L.; Wilson V.H.; Das A. ; Goel M.	Studies on physical properties of Biodiesel and blends from mustard oil	2017	International Journal of Mechanical Engineering and Technology	8	7
Adhithya N.; Goel M.; Das A.	Use of bamboo fiber in oil water separation	2017	International Journal of Civil Engineering and Technology	8	6
Nallusamy R.; Goel M.; Das A. ; Rajamanickam M.	Municipal solid waste disposal site selection of perambalur town of southern India using fuzzy gis and remote sensing techniques, Tamilnadu, India	2017	International Journal of Civil Engineering and Technology	8	9
Pais S.K.; Menezes R.; Ahmed B.; Goel M.; Das A.	Buffering capacity as an indicator of the cariogenic potential	2017	International Journal of Civil Engineering and Technology	8	12
Menezes R.; Pais S.K.; Ahmed B.; Goel M.; Das A.	The role of bone resorption markers in early detection of osteoporosis in perimenopausal women of mangalore	2017	International Journal of Civil Engineering and Technology	8	12
Ramesh G.; Goel M.; Das A.	A study on comparison of horizontal and vertical flow wetland system in treating domestic wastewater	2017	International Journal of Civil Engineering and Technology	8	5
Naidu L.D.; Saravanan S.; Chidambaram M.; Goel M.; Das A. ; Babu J.S.C.	Nanofiltration in Transforming Surface Water into Healthy Water: Comparison with Reverse Osmosis	2015	Journal of Chemistry	2015	326869
Das A. ; B S.; Goel M.; Ram Kiran B.; Sudharshan K.; Ravi Kumar K.	Alternative usage of edible deoiled cake for decolonization of Reactive Red dye	2015	Desalination and Water Treatment	53	10
Sudarsan J.S.; Deeptha V.T.; Maurya D.; Goel M.; Ravi Kumar K.; Das A.	Study on treatment of electroplating wastewater using constructed wetland	2015	Nature Environment and Pollution Technology	14	1
Goel M.; Das A. ; Ravikumar K.; Asthana A.	A study on the enhancement of sonochemical degradation of eosin B using other advanced oxidation processes	2014	Desalination and Water Treatment	52	34-36
Sivaruban T.; Barathy S.; Sivakumar S.; Goel M.; Das A. ; Ravi Kumar K.; Maran S.	Microbial removal of high concentration heavy metal in tannery	2014	Research Journal of Pharmaceutical , Biological and Chemical Sciences	5	4

Ravi Kumar K.; Das A. ; Goel M.; Nagarajan R.	Evaluation of effect of calcium on scale formation and corrosivity of groundwater using GIS	2014	Nature Environment and Pollution Technology	13	1
Subramanyam B.; Das A.	Linearised and non-linearised isotherm models optimization analysis by error functions and statistical means	2014	Journal of Environmental Health Science and Engineering	12	1
Kumar A.; Das A. ; Goel M.; Ravi Kumar K.; Subramanyam B.; Sudarsan J.S.	Recovery of nutrients from wastewater by struvite crystallization	2013	Nature Environment and Pollution Technology	12	3
Uma Maheswari S.; Goel M.; Anantha Narayanan P.; Das A. ; Ravikumar K.	A study on the ability of mixed culture in biological degradation of dyes	2013	International Journal of Pharmacy and Pharmaceutical Sciences	5	SUPPL.4
Das A. ; Vasanthi R.; Goel M.; Ravi Kumar K.	Auditing Waste Management Practices in an Indian City	2013	Research Journal of Pharmaceutical , Biological and Chemical Sciences	4	4
Sudarsan J.S.; Thattai D.; Das A.	Phyto-remediation of dairy-waste water using constructed wetland	2012	International Journal of Pharma and Bio Sciences	3	3
Mukesh G.; Das A. ; Ravikumar K.; Nagarajan R.	Sonochemical degradation of volatile and non-volatile compounds	2012	Research Journal of Chemistry and Environment	16	4
Vinothkumar R.B.; Sudarshan J.; Das A. ; Ravikumar K.; Goel M.	Evaluation of environ-climatic variability in Arignar Anna zoological park, Chennai	2012	International Journal of Earth Sciences and Engineering	5	6 SPECIAL ISSUE 1
Goel M.; Ravi Kumar K.; Das A. ; Sreeharsha M.	Degradation of high concentrations of 2-chlorophenol and 2,6-dichlorophenol by mixed anaerobic culture	2012	International Journal of Pharma and Bio Sciences	3	1
Ravikumar K.; Rao P.; Shiwani; Sarita; Thambi S.; Das A. ; Goel M.	Study of relationship of potential kidney stone with water (consumption and quality) and dietary habits of people in urban Thanjavur using GIS	2012	International Journal of Earth Sciences and Engineering	5	6 SPECIAL ISSUE 1
Rajaram T.; Das A.	Screening for EIA in India: Enhancing effectiveness through ecological carrying capacity approach	2011	Journal of Environmental Management	92	1
Rajaram T.; Das A.	Modeling of interactions among sustainability components of an agro-ecosystem using local knowledge through cognitive mapping and fuzzy inference system	2010	Expert Systems with Applications	37	2
Srihari V.; Das A.	Techno-feasibility evaluation of biogas as a source of energy	2010	Asian Journal of Microbiology, Biotechnology	12	1

			and Environmental Sciences		
Subramanyam B.; Das A.	Linearized and non-linearized isotherm models comparative study on adsorption of aqueous phenol solution in soil	2009	International Journal of Environmental Science and Technology	6	4
Subramanyam B.; Das A.	Study of the adsorption of phenol by two soils based on kinetic and isotherm modeling analyses	2009	Desalination	249	3
Srihari V.; Das A.	Adsorption of phenol from aqueous media by an agro-waste (Hemidesmus indicus) based activated carbon	2009	Applied Ecology and Environmental Research	7	1
Srihari V.; Das A.	The kinetic and thermodynamic studies of phenol-sorption onto three agro-based carbons	2008	Desalination	225	01-Mar
Rajaram T.; Das A.	Water pollution by industrial effluents in India: Discharge scenarios and case for participatory ecosystem specific local regulation	2008	Futures	40	1
Srihari V.; Das A.	Comparative studies on adsorptive removal of phenol by three agro-based carbons: Equilibrium and isotherm studies	2008	Ecotoxicology and Environmental Safety	71	1
Rajaram T.; Das A.	A methodology for integrated assessment of rural linkages in a developing nation	2008	Impact Assessment and Project Appraisal	26	2
Rajaram T.; Das A.	Sustainable frugality through EIA: Role of socio-ecological linkages in poverty alleviation	2007	Management of Environmental Quality: An International Journal	18	5
Rajaram T.; Das A.	Need for participatory and sustainable principles in India's EIA system: Lessons from the Sethusamudram Ship Channel Project	2006	Impact Assessment and Project Appraisal	24	2
Rajaram T.; Das A.	Study on suitability of water quality for mass bathing in southern Kumbha mela festival (Mahamaham) using fuzzy inference system	2006	Pollution Research	25	2
Das A. ; Srihari V.; Uma S.R.	Cyclonic wind energy - Dissipation and extraction techniques for coastal villages of India	2006	Ecology, Environment and Conservation	12	2
Srihari V.; Das A.	A thermodynamic evaluation of COD-reduction-characteristics of sugar-industry effluents using natural clays	2006	Asian Journal of Microbiology, Biotechnology and Environmental Sciences	8	1

Srihari V.; Babu S.M.; Das A.	Kinetics of phenol-sorption by raw agro-wastes	2006	Journal of Applied Sciences	6	1
Srihari V.; Das A. ; Prasath C.R.; Meera A.; Devi G.V.	Study on adsorption of phenol from aqueous media using extracted residue of Hemidescus indicus	2005	Asian Journal of Microbiology, Biotechnology and Environmental Sciences	7	3
Srihari V.; Das A.	Study on phenol-sorption of two homogenized industrial-wastewater-blend using activated carbon	2004	Ecology, Environment and Conservation	10	4
Thilagavathi S.; Das A. ; Manoharan K.	Studies on chloride fixing in concrete with lead oxide admixture	2004	Advances in Cement Research	16	4
Das A. ; Sharma D.K.	Organic desulfurization of Assam coal and its sulfur-rich lithotypes by sequential solvent extraction to obtain cleaner fuel	2001	Energy Sources	23	8
Jayateertha Rao M.R.; Brahadeeswaran S.; Das A.	Environmental technology strategy - Problems and prospects	2000	Indian Journal of Environmental Protection	20	6
Das A. ; Sharma D.K.	Adsorption of phenol from aqueous solutions by oxidized and solvent-extracted residual coal	1998	Energy Sources	20	9

(e) Books

S.No.	Name of Book	Year of Publication	Name of Publisher	Co-authors (if any)
1	Sustainability Assessment of Coupled Human-Natural Systems-Case study of an agrarian village from southern India	2012 (ISBN: 9783848490998)	LAP Lambert Academic Publishing	Rajaram, T.

(f) Books Chapters

S.No.	Name of Book	Year of Publication	Name of Publisher	Co-authors (if any)
1	Urban water infrastructure: Current status and challenges in India	2023	Technological Solutions for Water Sustainability: Challenges & Prospects - towards a water secure India	Narasimhan S.K.; Narasimhan S.; Bhallamudi S.M.; Mohankumar M.S.
2	Handbook of Environmental Materials Management (Ch. Constructed Wetland – A Green Approach to Handle Wastewater)	2017	Springer	Mukesh Goel

3	Handbook of Environmental Materials Management (A Review on Treatment of Pharmaceuticals and Personal Care Products (PPCPS) In Water and Wastewater)	2017	Springer	Mukesh Goel
4	Environment Studies Book (Ch.17 : Environmental Field Work)	2017	Centre for Education Growth and Research	---
5	Emerging Issues in Environmental Science: Concerns and Management (Ch. 12 : Water Purification Technologies in India - A Road Map)	2017	NEW DELHI PUBLISHERS, New Delhi	---
6	Fractal Solutions for Understanding Complex Systems in Earth Sciences (Ch.6 : Estimation and Application of Fractal Differential Adjacency Segregation (F-DAS) Scores in Analysis of Scanning Electron Micrograph (SEM) Imageries Towards Understanding the Adsorption unto Porous Solids .)	2015	Springer	K. Ravikumar, B. Subramanyam, Mukesh Goel, V. Sri Hari, G. V. Rajamanickam
7	26 th September 2004 TSUNAMI-causes, effects, remedial measures; Pre & Post Tsunami Disaster Management- A Geoscientific Perspective (Chapter-4: Water Quality in the Coastal Areas of Tamil Nadu after Tsunami)	2006	Earth System science, DST, Govt. of India	L. Elango, S. Chidambaram, S. Kaliappan, JF Lawrence, K.Palanivel & R. Ravichandran
8	Environmental Studies (Edited and contributed 5 chapters)	2005	SASTRA @ PGK Arts, Kumbakonam	Prof. Anantha Padmanabhan
9	'Ecological Crisis & Management' by Arvind Kumar; [Chapter 34: Estimating The Oxygen Requirement In A Mass Bathing Tank: A Case Study: Mahamaham 2004 (Southern Kumbhamela)	2005	Daya Publisher	V Srihari, S Madhan Babu And S Ananthapadmanaban
10	All India Sem. Pap. Book, 2005. (Ch. Design and Economic Evaluation of Activated Sludge Process Units for Domestic and Wastewater Treatment – An Indian Perspective)	2005	Institution of Indian Valuers	Sivaramakrishna, GCCNP, Srihari,V.,
11	Laboratory Manual for Fuel Technology (Ch: Coal Characterization)	1993	IIT Delhi	Sharma, D.K., Giri, C. C., Wadhwa, G., Chahar, S

Granted Patents and Designs:

Sl. No.	Inventors	Title	File No. , Date & country
Utility Patents			
1	A. Das, R. Sathya, B. Nilavu, K. Alagarraj,	Method for preparing herbal dishwashing soap with natural ingredients	202441016674, 08/03/2024, India
2	A. Das, M. Goel, K. Ravikumar. B. Nilavu, R. Mahesh., P. Parthiban	A Method of Treatment of Aqueous Dye-Solutions using Bio Waste Products Such as Raw Deoiled Cake of Karanja and Jatropa	201741041615, 21.11.2017, India
3	A. Das, D.R. Rama Krishnan, M. Goel, K. Alagarraj	A Process for the Preparation of Low-Cost Mosquito-Repellent Coils - Using Indigenous Herbal Ingredients	201741041616, 21.11.2017, India
4	A. Das, M. Goel, K. Ravikumar. B. Nilavu, R. Mahesh., P. Parthiban	A process of preparing activated de-oiled cakes of karanja for treatment of textile wastewater	201741009030A, 16.03.2017, India
Industrial Designs			
5	Ashutosh Das, TTM.Kannan	RO reject pressurized Water jet Nano Grinding Machine	321472-001, 10/09/2019, India
6	Ashutosh Das	Sensor Agnostic Measurement device for bacterial logical loading In Aqueous solution.	303233, 06/03/2018, India
7	Ashutosh Das, Kannan TTM, Parthiban P	Mini atmospheric water generator/23-01,	Design Registry – 339122-001)
8	Ashutosh Das, Kannan TTM, Parthiban P	Solar desalinators/23-01	(Design Registry-339122-001)
9	Ashutosh Das, Kannan TTM, Arun S, Midhun Shakaravarthi	Green Mobile phone charger/ 13-02	(Design Registry-339125-001)
10	Ashutosh Das, Kannan TTM, Parthiban P	Turbidometer	(Design Registry-340684-001)
11	Ashutosh Das, Kannan TTM, Parthiban P	Solar and wind augmented composter	(Design Registry-341584-001)

Awards, Honours and Recognitions:

AS EDITORIAL BOARD MEMBER

Sl No	Journal Name	Role
1	Environment & Sustainable Development (Bioinfo) (2011- 2016)	Editor-in-Chief
2	Environmental Biosafety Research (Bioinfo) (2011- 2016)	Editor-in-Chief

3	Journal of Current Sciences (2005- till date)	Co-editor
4	Journal of Hematology & Ecotoxicology (2006- till date)	Co-editor
5	International Journal of Earth Sciences & Engineering (2011- till date)	Editorial Advisory Board
6	International Journal of Humanities, Science And Technology (2015- till date)	Editorial Board Member

AS REVIEWER

Sl No	Journal Name	Publication
1	Technological Forecasting and social change	Elsevier
2	Science of Total Environment	Elsevier
3	Environmental Modeling and Software	Elsevier
4	The TQM Journal	Emerald
5	Neural Computing and Applications	Springer
6	Int. J. of Environment and Waste Management	Inderscience
7	Journal of Energy	Hindawi
8	Geoscience Research	Bioinfo
9	Microbial Research	Sky Journals
10	International Journal of Earth Sc. and Engg.	Cafet-Innova
11	Science Journal of Mathematics & Statistics	Science Publications
12	Research Journal of Chemistry and Environment	Int. Congress of Chem & Env't.
13	J. of Civil, Env'tl. & Architectural Engineering	Scientific Journals International
14	Hydrological Processes	Wiley InterScience
15	Indian Journal of Geomorphology	Indian Inst. Of Geomorphology

AWARDS

Sl No	Name of the Award	Organization
1	MTC Global Outstanding Researcher Award, 2018	Management Teachers Consortium (MTC) Global, Bangalore.
2	Indira Gandhi Gold Medal Award, 2018	Global Economic Progress and research Association, New Delhi.
3	Honorary Doctorate in Letters (D. Litt,) 2017	International Economics Universities for SAARC Countries, Madurai.
4	Faculty Awards for highest research publications, 2017	Arunai International Research Foundation, Chennai.
5	Environmentalist of the year, 2008	National Environmental Science Academy, New Delhi.
6	Leading Engineers of the World, 2006	International Biographical Centre, Cambridge.
7	Who's Who in Sc. & Engg., 2006-2007	The Marquis Who's Who Pub. Board, NJ,USA.

OTHER RECOGNITIONS

Sl No	Name of the Recognition	Organization
1	Honorary Faculty in Environmental Economics	Centre of Excellence in Environmental Economics, Madras School of Economics
2	e-content writer for Earth Sciences (e-PG Pathsala)	MHRD, Govt. of India
3	Member of Global Faecal Sludge Management e-Learning Alliance	(Funded by Bill & Melinda Gates Foundation and UNESCO-IHE Institute for Water Education)
4	Honorary Executive Council Members	Technology World & Engineering Today, India
5	Reviewer Board Member	: INAE Young Engineer Award 2006
6	SPOC (Single Point of Contact) and Coordinator	NPTEL Chapter for PR-group of Institutions
7	Nodal Centre Coordinator	IITB-Remote Centre (NMEICT sponsored)
8	Honorary Member	Academic Council, PRIST University

Training Programs & Courses Attended

OFFLINE

Sl No	Topic	Organisers	Duration
1	Temple Architecture	UGC at Deptt. Of ASrchitecture, Tamil University	16 th Nov. 2004-6 th Dec, 2004
2	Geospatial Analysis	Indian Geoinformatics Centre, Chennai	3 rd -11 th May, 2005
3	Monte Carlo Simulation on Biological Systems	IIT Bombay	13-17 th June, 2016

ONLINE

Sl No	Topic	Organisers (duration)	Date of award (grade)
1	How Green Is That Product? An Introduction to Life Cycle Environmental Assessment	by North Western University (9 weeks)	March 29, 2014 (100.0%)
2	Energy, the Environment, and Our Future	The Pennsylvania State University (8 weeks)	MARCH 17, 2014 (91.5%)
3	Introduction to Environmental Law and Policy	The University of North Carolina at Chapel Hill (6 weeks)	MARCH 06, 2014 (87.4%)
4	Model Thinking	University of Michigan (12 weeks)	MAY 12, 2014 (95.8%)
5	Everything is the Same: Modeling Engineered Systems	Northwestern University (8 weeks)	JUNE 18, 2014 (85.8%)
6	R Programming	Johns Hopkins University (4 weeks)	JUNE 18, 2014 (100.0%)
7	The Data Scientist's Toolbox	Johns Hopkins University (4 weeks)	JUNE 18, 2014 (86.8%)
8	Getting and Cleaning Data	Johns Hopkins University (4 weeks)	JULY 08, 2014 (99.0%)
9	Exploratory Data Analysis	Johns Hopkins University (4 weeks)	JULY 08, 2014 (76.7%)
10	Regression Models	Johns Hopkins University (4 weeks)	JULY 08, 2014 (97.8%)
11	Statistical Inference	Johns Hopkins University (4 weeks)	JULY 08, 2014 (70.0%)
12	Sustainable Mobility	IFP School, Philippines (4 weeks)	DEC 23, 2014
13	Introduction to Python Programming	The University of Michigan (7 weeks)	JULY 16, 2015 (95.8%)
14	Applied Logistic Regression	The Ohio State University (8 weeks)	JULY 16, 2015 (96.9%)
15	Python Data Structure	The University of Michigan (7 weeks)	June 12, 2016
16	Faecal Sludge Management	UNESCO and CSE, Delhi	4 th April to 15 th Sept., 2016

Conference Organised (Selected):

- a. Co-cordinator - Two- day National Seminar on "Effective Conservation of Water and Sustainable Management techniques " at Shanmugha College of Engineering, SASTRA, Tirumalaisamudram from 2-3 Jan2004.
- b. Coordinator- STOP ABUSE-2010 (Short Term Orientation Program towards Awareness and Basic Understanding of Science of Environment. At PRIST University, Thanjavur from 12-14 June 2010
- c. Coordinator- COLD-2010 (National Seminar on Combating Ozone Layer Depletion) at PRIST University, Thanjavur on 16 September 2010.
- d. Coordinator, 5-day Workshop on 'A Practical Approach to GIS Data Creation and Spatial Analysis', 5th to 9th September 2011, 25th to 29th September 2012, 4th to 8th February 2014 at PRIST University.
- e. Conducted as Resource Person, '2- days work shop on 'Basic Geo-statistical Analysis for Experimental Data Sets' at Department of Geology and Geophysics', University of Madras, Chennai during 25th to 26th March 2014.
- f. Coordinator, 3-day Workshop on 'A Practical Approach to GIS Data Creation and Spatial Analysis using Q-GIS', : 31st Aug to 2nd September 2015 at PRIST University.

Fellowship & Membership of Academic bodies and Professional Societies

Membership/Fellowship at Professional Bodies

HONORARY FELLOWSHIP

- 1 Geological Society of India
- 2 Indian Society for Hematology and Ecotoxicology
- 3 International Congress Of Chemistry And Environment
- 4 International society of Ecological Communications
- 5 Society of Environmental Sciences
- 6 Society for Sciences

LIFE MEMBERSHIP

- 7 National Environmental Science Academy (LM-1193)
- 8 Indian Institute of Geomorphologists (LM-331)
- 9 Indian Geotechnical Society (LM-1768)
- 10 Indian Geological Congress (LM-543)
- 11 Indian Water Resources Society (LM-2000-5055)
- 12 The Indian Society For Technical Education (LM-29158)
- 13 Indian Society Of Remote Sensing (LM-2061)
- 14 Intergraph Geospatial Users Community (UC264496)

Invited/Guest Speakers

<u>Topic</u>	<u>Event</u>	<u>Date</u>	<u>Venue</u>
Entrepreneurship in Environment Management'	National Symposium on Entrepreneurship Development'	30 th Oct'10	PSB, PRIST University
Role of Kalinga Architecture in Better Environment	UGC Sponsored Workshop on 'Indian Temple Architectural Heritage	20 th Jan'11	Dept of Architecture, Tamil University, Thanjavur

Health, safety and Environment Management	Special Lectures Series	7th Mar'11	NICMAR, Hyderabad Campus
FDP-Guest Lecture	FDP Program	27th Jan'12	Annai College of Engg and Tech, Kumbakonam
Chief Guest lecture	National Conference ITS' 13	13th Feb'13	K.Ramakrishnan College of Tech, Trichy
Basic Concepts, Estimation Theory, Hypothesis Testing and Time Series & practice with Excel	Basic Geo-statistical Analysis for Experimental Data Sets	25 th to 26 th March' 14	Dept of Geology, University of Madras, Chennai
Research Advisory Committee Member	Deliberation & Guest Lecture	9 th April 2015	TIST (Toc H Institute of Sc. & Tech), Ernakulam
Adsorption as an effective Industrial wastewater Treatment	All India Seminar on Cost Effective Effluent Treatment Systems	20-21, Nov., 2015	The Institution of Engineers Chapter, Trichy Local Centre, NIT, Trichy
Life Cycle Analysis/Assessment	Guest Lecture	28 Dec, 2016	Civil Engineering Association, VNR Vignana Jyothi Institute of Engg. & Tech., Hyderabad.
Low Cost Water Treatment Technologies	One Day National Workshop on "Innovative Techniques in Water Management (ITWM-2017)" (Celebrating World Water Day)	22nd March 2017	SRM University, Chennai
Life Cycle Analysis- Theory and Practice	Guest Lecture, Civil Engg. Deptt.	12 th Sept, 2017	Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar

Prominent activities:

1. Setting up entire environmental engineering laboratories at SASTRA & at PRIST
2. Framed the syllabus and prepared entire course materials for M.Tech- Environmental Engineering at PRIST
