

TECHNOSCAPE¹⁸**LIST OF ABSTRACTS SELECTED**

#Second set of selected abstracts will be uploaded after evaluation

S.No	Name	First Author	College/ Affiliation	Manuscript ID
1	Treatment of wastewater containing pesticides in aerobic bioreactor	S.R.Geed	IIT (BHU) Varanasi, Uttar pradesh, INDIA	TSST-BW001
2	Performance evaluation of batch and continuous packed bed bioreactor for the biodegradation of naphthalene by Klebsiella pneumonia immobilised on Sterculia alata	R.K.Sonwani	IIT (BHU) Varanasi, Uttar pradesh, INDIA	TSST-BW002
3	Treatment of waste water using bacterial cellulose obtained from bacteria isolated in bangalore region	Lingayya Hiremath	R.V. College of Engineering, Bangalore, Karnataka, INDIA	TSST-BW003
4	Low-cost adsorbents derived from the bio-waste materials for the removal of hexavalent chromium	L. Chandana	Indian Institute of Technology Hyderabad, Telangana, INDIA	TSST-AB001
5	Revisiting closed cycle ocean thermal energy conversion (OTEC) plant: A thermodynamic prospective.	Siddharth Bhardwaj	Aligarh Muslim University, Aligarh, Uttar pradesh, INDIA	TSIW-IT001
6	Kinetic study of integrated ozone and biological treatment system for the removal of polycyclic aromatic hydrocarbons containing in wastewater	R.K.Sonwani	IIT (BHU) Varanasi, Uttar pradesh, INDIA	TSST-OW001
7	Separation methods for treatment of hazardous effluents discharged from industries	Asma Iqbal	Aligarh Muslim University, Aligarh, Uttar pradesh, INDIA	TSIW-RR001
8	Polyethersulfone / Potassium iodide blend ultrafiltration membranes with enhanced performance for dye and heavy metal removal	Rambabu K	VIT, Vellore, Tamilnadu, INDIA	TSST-MS001

9	A case study on the treatment of waste heat and sludge from kitchens and hospitals in taiwan	Shui-Shu Hsiao	National Taipei University of Technology, TAIWAN	TSIW-RR002
10	Rubidium extraction from seawater brine by an integrated membrane distillation-selective sorption system	S.Vigneswaran	University of Technology Sydney (UTS), NSW, AUSTRALIA	TSST-MS002
11	Green synthesis of zinc oxide nanoparticles using Tamarindus indica leaves and its application for dye ultrafiltration	Rambabu K	VIT, Vellore, Tamilnadu, INDIA	TSST-UN001
12	Solar-powered electroflocculation harvesting system for seawater culture of algae for high value products	Thirupathi. K	NIOT, Chennai, Tamilnadu, INDIA	TSDW-RE001
13	Bio cathode based microbial desalination cell for simultaneous desalination, waste water treatment and power generation.	Ashwaniy V.R.V	NIT, Trichy, Tamilnadu, INDIA	TSDW-HN001
14	Silica coated graphene-doped with gold nanoparticles for adsorptive removal of Eriochrome Black T (EBT) from aqueous solution using batch studies	Jayakaran P.	VIT, Vellore, Tamilnadu, INDIA	TSST-AB002
15	Improved desalination using a three-layer OTMS based superhydrophobic membrane for a membrane distillation application	Saikat Sinha Ray	National Taipei University of Technology, TAIWAN	TSDW-WP001
16	Comparison of langmuir and freundlich sorption isotherm for predicting solute transport through stratified porous media.	Abhimanyu Sharma	Indian Institute of Technology, Mandi, Himachal pradesh, INDIA	TSST-AB003
17	Fixed focus solar concentrators integrated small capacity multi effect desalination (MED) unit for rural and arid regions of oman	Parimal. S Bhambare	Caledonian College of Engineering, OMAN	TSDW-RE002
18	Decision tree based extraction of water bodies from landsat-8 satellite images	Sharad Gupta	Indian Institute of Technology, Mandi, Himachal pradesh, INDIA	TSWD-SW001
19	River water treatment by novel coagulant	Ravi Kumar Goud	RGUKT Basar, Basar, Nirmal, Telangana, INDIA	TSWE-WR001

20	Numerical modeling for analyzing the coupled fluid flow and solute transport in well capture zones	Nitha Ayinippully Nalarajan	Indian Institute of Technology, Madras, Tamilnadu, INDIA	TSWD-ST001
21	Water footprint of concrete: indian scenario	S. R. Srikar Srivatsav	Indian Institute of Technology, Madras, Tamilnadu, INDIA	TSWE-WA001
22	Water management system using internet of things	R Nivedha	Golden Valley Integrated Campus, Andhra pradesh, INDIA	TSWE-IT001
23	Characterization & tribological properties of heat treated Al7075/zircon metal matrix composites	Syed Zameer	Ghousia College of Engg, Ramanagaram, Karnataka, INDIA	TSMI-MI001
24	Simulation studies on acid gas cleaning	NagamalleswaraRao	VIT, Vellore, Tamilnadu, INDIA	TSMI-MI002
25	Studies on removal of Cu 2+ by Cetyl pyridinium bromide (CPB) modified red clay from maharashtra	Ravindra Gaikwad	Pravara Rural Engineering College, Loni, Ahmednagar, Maharashtra, INDIA	TSST-AB004
26	Biogas production from food waste using Consortia isolated from cow dung	R. Shrivastava	Madhav Institute of Technology & Science, Gwalior, Madhya Pradesh, INDIA	TSMI-MI003
27	Pesticide removal from water using silver nanoparticles	Jilu Varghese		TSST-OP001
28	Kinetic study of biodegradation of hexavalent chromium in the industrial effluent using Pseudomonas putida And Bacillus sp.	R.K. Sonwani, S.R.Geed	IIT (BHU) Varanasi, Uttar pradesh, INDIA	TSIW-RR003
29	Hydrogeological accounting of jagalur taluk, davanagere district, karnataka in the perspectives of artificial recharge	Praveena Kumara	Central University of Karnataka, Kadaganchi, Karnataka, INDIA	TSWD-WA001
30	Dilution and treatment of oil field produced water	T. J. Gogoi	Dibrugarh University, Dibrugarh, Assam, INDIA	TSIW-DP001

31	Groundwater monitoring and development of control mechanism based on machine learning prediction algorithm	Kavitha K.V.N	VIT, Vellore, Tamilnadu, INDIA	TSWD-ST002
32	Effect of cell carrier loading on phenol degradation and bioilm Characteristics during startup and at steadystate in a pulsed plate bioreactor	B R Veena	Dayananda Sagar College of Engineering, Bengaluru, Karnataka, INDIA	TSMI-MI004
33	Tea residue used as an adsorbent for the removal of methylene blue from textile waste water	Sachin Bansal	Amity University, Rajasthan, Jaipur, Rajasthan, INDIA	TSIW-PW001
34	Suitability of genetic programming in predicting pollutant removal from aerobic bioreactor treating industrial wastewater	Naresh K S	Kalasalingam Academy of Research and Education, Krishnankoil, Tamilnadu, INDIA	TSIW-PW002
35	Modeling and flashover study of cylindrical insulating spacers in N ₂ :SF ₆ gas mixture	Syed Ameen Murtuza	Ghousia College of Engineering, Ramanagaram, Karnataka, INDIA	TSMI-MI005
36	Removal of color and cod from coffee processing wastewater by fenton and photo fenton process in comparison with coagulation process	S. Shanthakumar	VIT, Vellore, Tamilnadu, INDIA	TSST-HP001
37	An assessment of groundwater quality in and around perungudi	Elanchezhiyan. D	R.M.K Engineering College, Tamilnadu, INDIA	TSWD-WM001
38	Red algae (<i>Gracilaria crassa</i>) as a source of phytochemical profiling, antioxidant and antibacterial potential of methanolic crude extract	Venkat Kumar S	VIT, Vellore, Tamilnadu, INDIA	TSST-BW004
39	Evaluation of corrosion and scaling potential of oil field produced water of upper assam basin	Debasish Konwar	Dibrugarh University, Assam, INDIA	TSIW-FS001

40	Impact of ambattur lake on groundwater quality, chennai	Prasannamedha G	Anand Institute of Higher Technology, Chennai, Tamilnadu, INDIA	TSWE-EA001
41	Separation of sulphur dioxide using packed bed adsorption process and characterization of mass transfer zone	Albert Selvakumar	College of engineering and technology, Samara University, ETHIOPIA	TSST-AB005
42	ZnO nanoparticles fabricated on fabric cotton for the adsorption of cadmium ions	Padmalaya G	SSN College of Engineering, Chennai, Tamilnadu, INDIA	TSST-AB006
43	Surface-sub-surface water interactions in a humid tropical river basin	Anu. S Patil	NITK, Surathkal, Karnataka, INDIA	TSWD-WM002
44	Electrocatalytic oxidation for the treatment of toluene contaminated waste water on high oxygen overpotential anodes	Bokam Rajasekhar	Indian Institute of Technology Madras, Chennai, Tamilnadu, INDIA	TSIW-PW003
45	Grey water recycling with corn cob as an adsorbent	T Janani	SRMIST, Kanchipuram, Kattankulathur, Tamilnadu, INDIA	TSST-AB007
46	A BBD approach for optimization of electrocoagulation process to remove dye from waste water: isothermal and kinetics study	Kajal Gautam	Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Uttar pradesh, INDIA	TSST-AB008
47	Preparation and characterization of surfactant's doped PVDF-HFP membranes for membrane distillation	D. Sangeetha	VIT, Vellore, Tamilnadu, INDIA	TSDW-TM001

48	Coupling of ozonation and bioremediation using isolated bacterial species for degradation of acid orange dye in wastewater	Soumya Pandey	IIT (BHU) Varanasi, Uttar pradesh, INDIA	TSST-BW005
49	Sorptive removal of vanadium (V+5) using reusable Montmorillonite biocomposite: Evaluation of equilibrium and kinetic models	Ansar Anjum	Galgotias College of Engineering and Technology, Uttar Pradesh, INDIA	TSST-BW006
50	Catchment scale evaluation of model and satellite-derived estimation of evapotranspiration	Diwan Mohaideen	National Institute of Technology Karnataka, INDIA	TSWD-WA002
51	Experimental evaluation of specific heat capacity & tribological properties of AL7075/Kyanite (AL ₂ SiO ₅) composites	Mohammed Imran	Ghousia College of Enginnering Ramanagaram, Karnataka, INDIA	TSMI-MI006
52	Salting out assisted back extraction of butanol from coacervate phase	Pradip B. Dhamole	Visvesvaraya National Institute of Technology, South Ambazari Road, Nagpur, Maharashtra, INDIA	TSIW-DP002
53	Aqueous two phase separation using sugaring out	Pradip B. Dhamole	Visvesvaraya National Institute of Technology, South Ambazari Road, Nagpur, Maharashtra, INDIA	TSST-AB009
54	COD fractionation and solubility assessment of sonicated waste activated sludge	Mohd.Zafar	Sur College of Applied Sciences, Ministry of Higher Education, OMAN	TSST-OP002

55	Cadmium removal from water by nano manganese oxide	Lisha K.P	Amal Jyothi College of Engineering, Kerala, INDIA	TSIW-PW004
56	Application of Clo ₂ in controlling bio-growth over heat exchangers and demonstration of effectiveness of Clo ₂ over Cl ₂	Saransh Mohanty	Birla Institute of Technology and Science Pilani, Pilani, Jhunjhunu, Rajasthan, INDIA	TSIW-PW005
57	Behavior and characterization of waste polystyrene plastic blend with solvent	Murugesh shivashankar	VIT, Vellore, Tamilnadu, INDIA	TSMI-MI007
58	Application of the response surface methodology to optimize biodiesel production using mahua oil having high free fatty acids	P.A. Satyanarayana	Andhra University, Visakhapatnam, Andhra pradesh, INDIA	TSMI-MI008
59	Column studies for biosorption of lead on Sargassum tenerrimum (a brown algae) biomass: A study of break through data by using bohart-adams, BDST, thomas and yoon- nelson models.	M Tukarambai	Andhra University, Visakhapatnam, Andhra pradesh, INDIA	TSST-BW007
60	Compressed air energy storage driven by wind power plant for water desalination through reverse osmosis process	M.B.Hemanth Kumar	VIT, Vellore, Tamilnadu, INDIA	TSDW-HN002
61	Biosorption of congo red dye from aqueous solution using Antigonon leptapus	Anvesh Kumar	Andhra University, Visakhapatnam, Andhra pradesh, INDIA	TSST-BW008
62	A review on developing bio-filters and operational parameters influencing bio-filtration performance	Nivedhitha Mohan	Rashtreeya Vidhyalaya College of Engineering, Bengaluru, Karnataka, INDIA	TSST-BW009
63	Denitrification performance of kaolin and modified kaolin for the treatment of nitrate contaminated water: isotherm and kinetic studies	Rajeswari M Kulkarni	M.S.Ramaiah Institute of Technology, Bengaluru, Karnataka, INDIA	TSDW-WP002
64	Evaluation of cucumis melo and citrullus lanatus seed as potential natural coagulant for treatment of municipal wastewater	Arlene A. Joaquin	VIT, Vellore, Tamilnadu, INDIA	TSIW-PW006

65	In-situ synthesis of iron oxide nanoparticles embedded in L. Camara adsorbent for the sorption of nickel ions: adsorption, isotherm and kinetic studies	Nithya K	Amrita School of Engineering, Coimbatore, Tamilnadu, INDIA	TSST-BW010
66	Effect of different substrate on the performance of microbial fuel cell using nafion as membrane	Amrita Shahi, B.N.Rai, R.S.Singh	IIT (BHU) Varanasi. Uttar pradesh, INDIA	TSST-MS003
67	Humidification-dehumidification desalination using concentrated photovoltaic/thermal system	B.Anand, T.Srinivas	VIT, Vellore, Tamilnadu, INDIA	TSDW-TM002
68	Analysis and control of flow parameters through sluice gate in dam: a case study in india	Sudip Basack	School of Engineering and Technology, Kaziranga University, Jorhat, Assam, INDIA	TSWE-WR002
69	Analysis of flow of groundwater through wells and associated land subsidence	Sudip Basack	School of Engineering and Technology, Kaziranga University, Jorhat, Assam, INDIA	TSWD-SW002
70	Study on the dissolution of copper by Acidithiobacillus ferrooxidans from waste computer printed circuit boards	Mohan R.A	VIT, Vellore, Tamilnadu, INDIA	TSWE-EA002
71	CFD simulation of particle separation in a hydrocyclone using ribs	Kannoju Nandini	IIT Kharagpur, West Bengal, INDIA	TSMI-MI009
72	Optimization of transesterification for UCOME using RSM; performance and emissions characteristics; cost analysis	B. Venu Gopal	Andhra University, Visakhapatnam, Andhra pradesh, INDIA	TSMI-MI010
73	Assessment of recurrence of kidney stones through optimized machine learning tree classifiers using dietary water quality parameters and patient's history	J.S.Sudarsan, Niki Maharathi	SRMIST, Kattankulathur, Tamilnadu, INDIA	TSMI-MI011
74	Lemon juice mediated preparation of Agnps/Chitosan based bionanocomposites and its antimicrobial and antioxidant activity	Rajeshkumar S	VIT, Vellore, Tamilnadu, INDIA	TSMI-MI012
75	Biodegradation of malathion and investigation of mass transfer correlation using alginate beads immobilized Bacillus sp. S4 in bioreactor	S. R. Geed	IIT (BHU) Varanasi, Uttar pradesh, INDIA	TSST-AB012

76	Biogenic synthesis of selenium nanoparticles by zingiber officinale and evaluation of their anti-microbial activity	Venkat Kumar S	VIT, Vellore, Tamilnadu, INDIA	TSMI-MI013
77	Domestic wastewater treatment using constructed wetlands – mass balance analysis	S. Nithiyantham	SRMIST, Kattankulathur, Tamilnadu, INDIA	TSDW-WP003
78	Innovative sponge-based moving bed – anaerobic osmotic membrane bioreactor (SMB-Anosmbr) hybrid system for wastewater treatment	Le Quang Huy	DaLat University, VIETNAM	TSST-MS004
79	Synthesis of polyaniline/activated carbon/copper oxide based ternary hybrid material for the removal of dye in wastewater	Tapas Das	IIT (BHU) Varanasi, Uttar pradesh, INDIA	TSDW-WP004
80	A study on the effect of Mg ²⁺ on the adhesion force of Pseudomonas aeruginosa biofilm using atomic force microscopy	K. Ashwin	VNIT, Nagpur, Maharashtra, INDIA	TSST-BW011
81	A study to evaluate the effect of calcium stearate and magnesium stearate on the formation of Pseudomonas aeruginosa biofilm using atomic force microscopy	K. Ashwin	VNIT, Nagpur, Maharashtra, INDIA	TSMI-MI014
82	Effective removal of Methylene blue And Eriochrome Black T dyes using induction furnace steel slag	B.S. Naveen Prasad	Sathyabama Institute of Science and Technology, Chennai, Tamilnadu, INDIA	TSMI-MI015
83	Performance of solar photocatalytic reactors using immobilized TiO ₂ film for reverse osmosis pretreatment process.	Susmita Dutta, Varghese	Caledonian College of Engineering, OMAN	TSST-MS005
84	Thermal desalination: fundamentals and challenges faced by thermal desalination	Shraddha Dixit	National Institute of Technology, Raipur, Chhattisgarh, INDIA	TSDW-TM003
85	Biosorption of cadmium from aqueous solution using Antigonon leptopus leaf powder as a low cost adsorbent – optimization using RSM	Sripada Udaya Krishna	Andhra University, Visakhapatnam, Andhra pradesh, INDIA	TSST-AB010
86	A biosorption study of methylene blue dye by Raphanus raphanistrum (Rr) biosorbent using isothermal, kinetics and thermodynamic parameters, RSM	P.Pallavi	JNTUK, Andhra pradesh, INDIA	TSST-AB011

87	Current technologies for zero water discharge using physico-chemical and biological treatments in textile industries-A review	Y V Anudeep	Andhra University, Visakhapatnam, Andhra pradesh, INDIA	TSWD-ZW001
88	A novel anaerobic granular osmotic membrane bioreactor for aromatic amines wastewater treatment	Le Quang Huy	DaLat University, VIETNAM	TSST-MS006
89	Experimental scrutinization and optimization of domestic wastewater treatment using Cladophora sp. in microalgae reactor	Saravanan A M	Caledonian College of Engineering, OMAN	TSST-BW012
90	Domestic wastewater treatment using algae by hybrid up flow anaerobic sludge blanket reactor	Saleh Mohammed Saleh	Caledonian College of Engineering, OMAN	TSST-BW013
91	Potential green alternatives to conventional lubricants and fuels	Gaurav Dwivedi	VIT, Vellore, Tamilnadu, INDIA	TSMI-MI016
92	Recovery of iodide in the form of triiodide by forward osmosis	Hau-Ming Chang	National Taipei University of Technology, TAIWAN	TSST-MS007
93	Development of upflow anaerobic sludge bioreactor combined with forward osmosis system for nutrients and water recovery	Hau-Ming Chang	National Taipei University of Technology, TAIWAN	TSST-HP002
94	Application of progressive freeze concentration for draw solution recovery of forward osmosis process	Le Quang Huy	DaLat University, VIETNAM	TSST-MS008
95	Investigation of radiolytic stability of polybenzimidazole based polymers for the recovery of lanthanides, actinides and palladium from nitric acid medium	Vijaya Kumar	Vel Tech Rangarajan Dr. Sagunthala R & D Institute of Science and Technology, Avadi, Chennai, Tamilnadu, INDIA	TSST-AB014
96	Statistical optimization of gallic acid extraction from aqueous waste stream using Tri-N-Octylamine (TOA) in biocompatible diluents	Sushil Kumar	Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Uttar pradesh, INDIA	TSST-BW014
97	Recycling of cellulose acetate from cigarette filters to produce micro and ultra filtration membranes	Abhinav K Nair	Amal Jyothi College of Engineering, Kerala, INDIA	TSST-UN002

98	Potential applications of chitin/chitosan based nanomaterials for wastewater treatment: A state of art review	Dipesh S. Patle	Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Uttar pradesh, INDIA	TSST-AB013
99	Sub-surface damage evolution in austenitic stainless steel: the role of machining speed	N.Srinivasan	VIT, Vellore, Tamilnadu, INDIA	TSMI-MI017
100	Eliminating salt leakage by coupling surfactant with polyelectrolyte based draw solution in forward osmosis	Cao Ngoc Dan Thanh	National Taipei University of Technology, TAIWAN	TSST-MS009
101	Evaluating the influences of draw solutions as catholyte for enhancing bioenergy conversion and water treatment efficiencies in osmotic microbial fuel cells	Cao Ngoc Dan Thanh	National Taipei University of Technology, TAIWAN	TSST-MS010
102	Use of bentonite blended with ground granulated blast furnace slag and cement/soil mixtures to retain diesel oil contaminants	Devarangadi Manikanta	VIT, Vellore, Tamilnadu, INDIA	TSMI-MI018
103	Application of silver nanoparticles for mitigating membrane bio fouling in a novel microfiltration membrane bioreactor system.	Le Quang Huy	DaLat University, VIETNAM	TSST-HP003
104	Use of bentonite blended with sawdust and cement/soil mixtures to retain diesel oil contaminants	Devarangadi Manikanta	VIT, Vellore, Tamilnadu, INDIA	TSMI-MI019
105	Synthesis and characterization of ionic liquid tangled polymer supported metallo-phthalocyanine: A heterogeneous catalyst for efficient visible-light-driven degradation of organic dyes from aqueous solutions	Dipesh S Patle	Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Uttar pradesh, INDIA	TSST-OP003
106	Design and synthesis of highly efficient ionic liquid knotted polymer supported metal-porphyrinic framework: a novel photocatalyst for environmental remediation under simulated visible light irradiation	Dipesh S Patle	Motilal Nehru National Institute of Technology (MNNIT), Allahabad, Uttar pradesh, INDIA	TSST-OP004
107	Optimization studies on sustainable urea release in water	G M Madhu	MS Ramaiah Institute of Technology, MSR Nagar, Bangalore, Karnataka, INDIA	TSWE-EA003

108	Studies on effective waste water purification using advanced sic coated ceramic membranes in the submerged membrane bioreactor	G M Madhu	MS Ramaiah Institute of Technology, MSR Nagar, Bangalore, Karnataka, INDIA	TSST-HP004
109	Cloud point extraction of Remazol Turquoise Blue G-133 dye using Tergitol Np-7 as non-ionic surfactant	M.D. Duraimurugan	National Institute of Technology, Tiruchirappalli, Tamilnadu, INDIA	TSMI-MI020