

ABS ID	Abstract.Title	Full Name	Institution/Affiliation	City
315	Thermodynamic Phase Behavior studies and Molecular Dynamics simulations on Poly(sodium 4-styrenesulphonate)- Water- 1, 4-Butanediol system.	Rinsha Padmarajan P. V	Indian Institute of Technology, Madras	Chennai
320	Studies on Encapsulation of ionic liquids and antioxidant in metal organic frameworks to achieve high proton conductivity and chemical durability of proton exchange membranes	Madhuparna Ray	Indian Institute of Technology Roorkee	Saharanpur
324	Relation between immersion precipitation bath conditions and crystalline content of porous poly(vinylidene fluoride) films	Nitish Yadav	Indian Institute of Technology Delhi	New Delhi
325	Reduced Phosphorene Incorporated Biopolymer Composite Based Electronic Biosensors for the Detection of Uric Acid	Nasrin Sultana	IASST	Guwahati
329	High drug loading nanoparticles stabilized with autologous serum proteins passively inhibits tumor growth	Mimansa	Institute of Nano Science and technology	Mohali
341	Biopolymer Immobilization on Hydrophilic and Hydrophobic Surfaces	Sanu Sarkar	Institute of Advanced Study in Science and Technology	Guwahati
345	Development of Chitosan /PEO Membranes for Biomedical applications.	Rohini Verma	Indian Institute of Technology Delhi	New Delhi
347	Surface Functionalization of Polypropylene via RF Plasma	Vipula	Indian Institute of Technology Delhi	New Delhi
349	ZnO/chitosan Sacrificial Composite Template for Synthesis of High Surface Area Porous ZnO	Rahul Chaudhari	Defence Institute of Advanced Technology, Pune	PUNE
355	Biaxial Characterization of Auxetic Skin Graft Simulants	Vivek Gupta	Indian Institute of Technology Delhi	Delhi
357	Gold Nanorod Decorated Graphitic Carbon Nitride with improved Electrochemical properties for NS1 Dengue Biomarker Sensing	Priya Singh	Indian Institute of Technology (BHU)	Varanasi
358	Designing of Biopolymer Based Functional Nanomaterial For Biomedical Applications	Chetna Verma	Indian Institute of Technology Delhi	New Delhi
360	Chemically tailored liquid crystalline nanocellulose composites featuring elliptical birefringence for photonic applications	Shiva Singh	Indian Institute of Technology Roorkee	Saharanpur
362	Designing of Infection Resistance Polyurethane Biomedical Implant	Manali Somani	Indian Institute of Technology Delhi	New Delhi
363	Cellulose Nanocrystal Embedded Liquid Crystal Elastomers for Soft Actuation	N Santhiya	Alagappa University	Karaikudi
368	Synthesis of PAN/Fe-MOF electrospun nanofibre and application as fluoroprobe for detection of carbonyl group	Gagandeep Kaur	Sant Longowal Institute of Engineering and Technology, Longowal	Sangrur
372	Synthesis, Characterization, and visible-light-driven photocatalysis of organic pollutant using heterostructure oxides	Aarti Sharma	SLIET, Longowal	Sangrur
376	Oil-Water Separation Using Eco-friendly Membranes; Synergistic Application of Superhydrophobicity and Photocatalysis	Santhra Krishnan P	Indian Institute of Technology Madras	Chennai

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377	Investigation of Electrical and Mechanical Properties of DMF Doped PEDOT:PSS/PVA Stretchable Polymeric Films	Sanjib Sau	Institute of Advanced Study in Science and Technology, Vigyan Path, Paschim Boragaon, Garchuk	Guwahati
388	Concomitant Delivery of Pirarubicin and Anti-MUC 1 in Biodegradable Polymeric Nanoparticles: A Novel Targeted Drug Delivery approach for Breast Cancer Therapy	Ankushi Bansal	Indian Institute of Technology, Delhi	New Delhi
389	An Overview on Design and Biomechanical Analysis of Uncemented 3D printed Structurally Porous Auxetic Femur Meta-implants	Lakshyajit Behera	CIPET:SARP-LARPM, Bhubaneswar	
393	Flexible Polymer Substrate for Mechanical Energy Harvesting Using a Coating of BCT-based Piezoelectric Ink	Bibhudutta Das	CIPET:SARP-LARPM	Bhubaneswar
394	Studies of Synergetic Effect of Zirconium and Magnesium on Structural and Biological Properties of Mesoporous Bioactive Glass	Pragyan Aparajita Dash	CIPET:SARP-LARPM	Bhubaneswar
395	In Vivo Toxicological Analysis of MnFe <sub>2</sub> O <sub>4</sub> @poly(tBGE-alt-PA) Composite as A Novel Hybrid Nanomaterial for Possible Biomedical Use	Rohit Kumar	Sharda University	Greater Noida
402	Harvesting of energy from real waste water using micron scale Microbial fuel Cell	Aparajita Roy	Indian Institute of Technology Guwahati	
407	Polyoxometalates based inorganic-organic hybrid polymeric materials for underwater adhesion	Ganga Singh	Indian Institute of Technology Ropar	Ropar
409	Agriculture waste derived cellulose nanocrystals: Isolation and Characterization	Shakshi Bhardwaj	Indian Institute of Technology Roorkee	Saharanpur
410	Synergistic effect of hybrid hydroxylated boron nitride and cellulose nanocrystals for enhancing the thermal, mechanical, and hydrophobic properties of composite film	Manoj Sathwane	Indian Institute of Technology Roorkee	Saharanpur
411	Greening Biobased Polybenzoxazine Network: Phytic Acid as an Initiator, Flame Retardant, & Adhesive Modulator	Vaishaly Duhan	Shiv Nadar University	New Delhi
412	Thermal, Structural, Spectroscopic, and Optical Properties of Calcium Doped ZnO Nanoparticles Synthesized by Co-Precipitation Method	Ganesha K N	Yuvaraja'S College, University of Mysore	
416	Li-Al based Nanostructured Inorganic Layered Double Hydroxide for efficient drug delivery for cancer treatment	Swapan Maity	Indian Institute of Technology (BHU) Varanasi	
417	Study of applications of Chitosan/Gelatin based Hydrogels in sustained release of Nitrogenous fertilisers into soil	Sreedev P	Government College Kasaragod	
423	Polypeptide-based electrically conductive hydrogel scaffolds for neural tissue engineering	Supriya Jain	Yenepoya (Deemed to be University)	Mangaluru
427	Modulation of topochemical polymerisation with changing functional groups in chiral diacetylenes towards thermo-, acido- and halochromism	Antarlina Maulik	INST Mohali / IISER Mohali	Mohali
432	Synthesis and Characterization of Hydrophilic/Hydrophobic Nanogels for its Application in Acrylic Denture Softliners	Anusree V S	Sree Chitra Tirunal Institute for Medical Sciences and Technology	Calicut
445	Solid-state linear supercapacitor based on CNT yarn with multi-featured properties for wearable devices	Mayank Pal	CSIR-National physical laboratory	Delhi

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448	UHMWPE Impregnated CNT Macrostructures with Improved Packing Density for Superior Mechanical Performances	Mamta Rani	National Physical Laboratory New Delhi	New Delhi
452	Excellent Ferroelectric and Retention Response of $\beta$ -PVDF thin film Prepared by Heat-Controlled Spin Coating	Pinki Malik	INST, Mohali	Mohali
459	Development of fenugreek gum-based hydrogels as an adsorbent for wastewater treatment	Jyotendra Nath	National Institute of Technology Srinagar	
468	Plant derived graphite synthesis and characterized for detoxification of Industrial toxic chemicals.	Siddhartha Dan	Dr B R Ambedkar National Institute of Technology	Jalandhar
469	Combining cellulose nanofibres with microporous organic polymer for mercury detection and removal	Sumit Sharma	Panjab University	Chandigarh
472	Cu (II) Encapsulated Thiazole-Based Porous Organic Polymers: As Efficient Catalysts for the Synthesis of Quinolines and Benzothiazoles.	Ajay Kumar Sahoo	Indian Institute of Technology Kanpur	
475	Imidazole integrated porous organic polymer: a highly efficient organocatalyst for one-pot synthesis of 2-amino3-cyano-4H-pyrans and spirochromenes	Alka Karn	Indian Institute of Technology Kanpur	Kanpur
476	Continuous flow synthesis of disordered covalent organic framework for ultra-high removal of industrial pollutants in flow	Astha Singh	Indian Institute of Technology, Mandi	
477	Polyurethane based adhesive functionalized with UV-additives for inflatable laminated textiles	Shuchita Tomar	Indian Institute of Technology Delhi	New Delhi
480	Multifunctional Thermoplastic Polyurethane Nanocomposites for Inflatables	Bharti Rana	Indian Institute of Technology Delhi	New Delhi
481	Effective biocatalyst developed via genipin mediated acetylcholinesterase immobilization on rice straw derived cellulose nanofibers for detection and bioremediation of organophosphorus pesticide	Kavita Sharma	Panjab University	Chandigarh
488	A study on synthesis of carbon fibers from mixture of coal tar pitch and petroleum pitch using chemical stabilization process.	Sonu Rani	CSIR-NPL	New Delhi
492	A case study on circular bioeconomy through valorization of Pomegranate Peels ( <i>Punica granatum</i> )	Shivali Singh Gaharwar	Visvesverya National Institute of Technology	Nagpur
499	Fluorescence probe synthesised from biomass that is bifunctional, highly selective, and sensitive for detecting and eliminating arsenic (III) in water	Preeti Tewatia	Panjab University, Chandigarh	
500	Synthetic Peptide-Polymer Conjugates to Mimic Actinomyosin Network for Muscle Contraction	Debasish Nath	Institute of Nanoscience and Technology, Mohali	Mohali, Punjab
503	Enhancement of Barrier and antimicrobial properties of Sodium-metasilicate Modified Guar-gum/PVA film for packaging application	Pooja Priyadarsini	CIPET:SARP-LARPM	Bhubaneswar
507	Fabrication of AgNP/Pectin Composite For Biomedical Applications	Aashi Singh	Bhaskaracharya College of Applied Science	New Delhi
517	Separation and optimization of proteins from eggshell membrane for biomedical applications	Preeti Sharma	IITRoorkee	Saharanpur

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518	Synthesis of an Advanced Self-Healing Polymer Electrolyte for Li-ion batteries (LIBs)	Asish Kumar Sahu	Ravenshaw University	Cuttack
520	Infrared reflective and hydrophobic polymer encapsulation to render organic perovskite photovoltaics moisture repellent and durable	Aneela Perumalla	Indian Institute of Technology Madras	
523	Mechanically Deformed Covalent Organic Framework as Efficient Photocatalyst for Reduction of Hexavalent Chromium and Fenton reaction under visible light	Swadhin Kumar Jena	Indian Institute of Technology Mandi	
524	pH responsive drug delivery of PLA-based nanoparticles for breast cancer therapy	Priya Gupta	Indian Institute of Technology Delhi	New Delhi
525	Redox responsive Biodegradable Polymeric Nanoformulation for Cancer therapy	Harshdeep Kaur	Indian Institute of Technology Delhi	New Delhi
526	Revealing the unexplored effect of residual iron oxide on the photoreforming activities of polypyrrole nanostructures on plastic waste and photocatalytic pollutant degradation	Rituporn Gogoi	Indian Institute of Technology Mandi	
533	Thermoelectric Properties of MWCNTs: Effect of Gaseous Environment and Doping	Manoj Sehwat	CSIR- National Physical Laboratory	Delhi
535	Synthesis and characterization of bipolar membrane for self-humidifying hydrogen fed fuel cell	Amit Suhag	Indian institute of technology, Roorkee	Saharanpur
536	Alginate microspheres containing polymer-induced liquid exfoliated tungsten disulfide for bone tissue engineering	Pandurang Dalavi	Yenepoya Research Centre	Mangalore
541	Ipriflavone as an emerging solution for Osteoporosis: In vitro, In vivo Screening and Formulation of a Nano Emulsion	Anish John	NGSM Institute of Pharmaceutical Sciences	Mangalore
542	Development and analysis of polylactic acid/Polybutylene succinate based blown films towards mulching application.	Anupam Kumar Gupta	CIPET:SARP-LARPM,BBSR	Bhubaneswar
544	Influence of Surfactant on Electrospinnability of Polycaprolactone Solution and its Properties	Vandana Kumari	IIT Delhi	New Delhi
546	Development of Poly (lactic Acid) (PLA) based Blend Films as a Substitute for the Petroleum based Plastic Films in the Field of Plasticulture	Manmath Parida	CIPET: SARP- LARPM, Bhubaneswar	Bhubaneswar
547	Development of polymeric biocomposite scaffolds via 3D printing technology for bone tissue engineering application	Ipsita Pattanayak	CIPET: SARP- LARPM, Bhubaneswar	Bhubaneswar
550	Characterisation and Distribution of inflow of microplastics from Damanganga and Tapi river and Dumas beach, Gujarat, India	Girija Prasad	CIPET:SARP-LARPM	Bhubaneswar
551	Development of Bio-based Multilayer Packaging film for Food packaging Application	Baba Linkanmani Sahoo	CIPET: SARP-LARPM	Bhubaneswar
553	Plasma treated bio derived sisal reinforced flame retardant Thermoplastic Polypropylene composites: A study on mechanical, thermal, morphological, Acoustic and flammability characteristics	Malaya Ranjan Parida	CIPET: SARP-LARPM	Bhubaneswar
555	Efficiency enhancement of solid-state dye sensitized solar cell by incorporation of SWCNT into electrolyte system	Manoj Kumar Mallick	CIPET:SARP-LARPM	Bhubaneswar

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556	Diketopyrrolopyrrole based D-A Copolymers: Synthesis, Characterization and their Photophysical Properties	Pranshula Panigrahi	CIPET:SARP-LARPM	Bhubaneswar
558	The utilization of Low-cost natural mucilage as a binder for dry compaction of quartz waste	Jyoti Kumari	Indian Institute of Technology (BHU) Varanasi	
560	ZnO doped alginate membrane fabrication for Congo red dye removal from wastewater	Sachin	CSIR-NPL, India and RMIT University	New Delhi
563	Structural changes in toluene insoluble fraction of pitch polymer with different processing conditions	Khushboo Kumari	CSIR- National Physical Laboratory	New Delhi
565	Development of Surface Conjugated Block Co Polymeric Micelles as Targeted Therapeutics: Characterization And In-Vitro Cell Viability	Shrutiben Patel	Parul Institute of Pharmacy	Vadodara
566	Avidin-Biotin functionalized Self-Assembled Protein Nanoparticles as Egrf Targeted Therapeutics for The Treatment of Lung Cancer: Characterization and Cell Viability.	Drishti Sunil Panjwani	Parul Institute of Pharmacy	Vadodara
570	Preparations of carrageenan-PEG-Lecithin hydrogel membranes enriched with Moringa oleifera as a wound dressing material	Pratibha Singh	Indian Institute of Technology Delhi	New Delhi
573	An Equivalent GNF Model as an Efficient Approximation for Flow Analysis Of Polymer Solutions	Indranil Saha Dalal	Indian Institute of Technology Kanpur	
593	A new bio-based plasticizer for poly(vinyl chloride) based on epoxidized Cassia fistula Seed oil	Chetan Vijaysing Rajput	Department of Chemistry, Sardar Patel University, VV Nagar	Anand
594	Dehydration of Tetrahydrofuran using ABPBI based Hollow Fiber Membranes	Lavanya Alladi	CSIR-National Chemical Laboratory, Pune	Pune
596	Bio-Based Hyperbranched Polymer Nanocomposites for Coating Application	Amardip Murlidhar Patil	School of Chemical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University	Jalgaon
602	Carboxymethylated chitosan/cellulose acetate nanocomposite for biomedical applications	Sumi Vincent	LARPM	Bhubaneswar
607	Polyoxometalates immobilized carbon nanotube constructs triggered through host-guest assembly results in excellent electromagnetic interference shielding	Kunal Manna	Indian Institute of Science, Bangalore	
612	Comparative study on surface functionalization of PTFE by plasma treatment with different gases for biomedical applications.	Shimna M	CIPET: SARP-LARPM, Bhubneswar	
614	Design of a Cost-Effective water Heating System by using Nonwoven Textile Material as A Substrate	Sudhanshu Singh	Dr. B. R. Ambedkar National Institute of technology, Jalandhar	
617	Comfort and radiative heat protective performance of multi-layer extreme heat protective clothing of firefighters	Sudhanshu Maurya	Indian Institute of Technology Delhi	New Delhi
623	Hydrogen production by water electrolysis using nickel hydroxide as a redox mediator	Riddhi Devendra Agrawal	Bharatii Vidyapith College of Engineering, affiliated to Mumbai University	Mumbai
624	Development of Zn-Hydroxyapatite/Carbon Nanofiber/Alginate composite for the potential orthopedic application	Sivaraj D	Institute of Nano Science and Technology	Punjab

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625	Graphene silica conjugate reinforced epoxy coatings for the corrosion protection of aluminum alloy	Jesiya Susan George	Mahatma Gandhi University, Kottayam	
626	Electroactive Shape memory Polyurethanes (eSMPUs) based on optimized Graphene nanoplatelets (GNP) composites	Yadagiri Naik Banothu	DYSL-SM (DRDO)	Hyderabad
627	Enhanced mechanical stability and sustained release performance of nanoclay reinforced microcapsules	Yogeshwar Aher	National Chemical Laboratory Pune	PUNE
628	Enhancement of ammonia gas sensitivity and selectivity at room temperature by PBTTT-C14/MoS <sub>2</sub> -QDs hybrid film based OFET fabricated via Floating Film Transfer method	Shipra Gupta	Indian Institute of Technology (BHU)	
634	Carbon Black Distribution Driven by Its Concentration And Its Effect on Physico-Mechanical Properties of Styrene Butadiene Rubber and Butadiene Rubber Miscible Rubber Blends	Abitha V K	Mahatma Gandhi University	Kottayam
635	Effect of graphene oxide-silica hybrid fillers on the static and dynamic mechanical properties of natural rubber nanocomposites.	Prajitha V	Mahatma Gandhi University	Kottayam
638	Mesoporous SnO <sub>2</sub> fibers derived from gradient electrospinning of two Immiscible polymers (PVP/PAN) for Energy storage applications	Vaishali Tanwar	Indian Institute of Technology, Delhi	New Delhi
641	Up-scalable synthesis of ZnO nanostructures using Microwave and CVD for applications in functional textiles	Pranay Ahuja	Indian Institute of Technology, Delhi	New Delhi
643	Preparation and characterization of PDMS coated PVDF based durable hydrophobic membrane for water desalination	Mahendiravarman Elangovan	Department of Chemical Engineering, Annamalai University	Cuddalore
649	3D printing of modified nanocellulose/PLA nanocomposites	Animesh Gopal	CSIR National chemical laboratory Pune	Pune
650	Piezoelectric and calcium ion synergistic approach for UCMSC differentiation into cardiomyocytes for Cardiac Tissue Engineering	Navita Salaria	INST, Mohali	Mohali
654	Green Synthesis and characterization of a novel bio-based membrane for female hygiene application	Roshni Pattanayak	SARP-LARPM: CIPET, Bhubaneswar	
657	Development of a novel modified Polyurethane based composite for vascular graft tissue engineering application	Tusharkanta Nayak	CIPET:SARP-LARPM,Bhubaneswar	
658	Controlling Material & Process Defects in Extrusion Film Casting Using Polymer Composites	Dhammaraj S. Rokade	CSIR - National Chemical Laboratory, Pune	
663	Obtaining micro and nanocrystalline cellulose from agricultural waste by the soft organo-solvent method	Paul Jacob	Mahatma Gandhi University, Kottayam	
665	Indigenous Bipolar Plate Development for Hydrogen Fuel Cell Application	Prashant Arvind Patil	CSIR-National Chemical Laboratory, Pune	
675	PET like Plastic: New Generation of Bioplastics from Corn-starch	Ketaki Samanta	Indian Institute of Science	Bangalore
677	Polysaccharide-based injectable Hydrogel for Bone Tissue Engineering	Malika	Institute of Nanoscience and Technology	Fatehabad

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691	Development of antimicrobial dressing coated with alginate/glycerol/tannic acid blend	Ankita Sharma	Indian Institute of Technology Delhi	New Delhi
697	ZnO nanoparticles/ethyl cellulose-based nanocomposite coating solution for the extended storage life of tomatoes: a study of phytochemicals and proximate analysis	Susheel Kalia	Army Cadet College Wing of Indian Military Academy, Dehradun	
706	Phytochemical Screening; Green Synthesis, characterization and Biological significance of Cadmium Nanoparticles from using Nyctanthes arbor-tristis (Leaves)	Chetna	M.L.S. University Udaipur	
710	Branched Flourinated Polymer Gold Nanoclusters for cancer theranostics	Priyanka Sharma	Institute of Nano Science and Technology, Mohali, Punjab	
719	Investigation of Biomolecule-Modified PVDF Electrospun Nanofibers for E-Textiles	Akhilesh Kumar Sharma	Indian Institute of Technology Delhi	New Delhi
721	Crystallinity Studies of PP-TiO <sub>2</sub> Nanocomposites under Supercritical CO <sub>2</sub> treatment	Mayank Prakash	Indian Institute of Technology Delhi	New Delhi
722	Effect of UHMWPE blending on its foam processability using supercritical carbon dioxide (sc-CO <sub>2</sub> ) technology	Prashant Mani Shandilya	Indian Institute of Technology Delhi	New Delhi
729	Biomechanical Modeling and Characterization of Kidney Tissue Surrogates	Gurpreet Singh	Indian Institute of Technology Delhi	New Delhi
730	Development of Polyvinyl Alcohol/Alginate membranes for Biomedical Applications	Shiv Kumar Upadhyay	Indian Institute of Technology Delhi	New Delhi
732	Synthesis and Characterization of Bimetallic-Semi-Aromatic Polyester Nanocomposite for Biomedical and Environmental Applications	Shaily Chauhan	Sharda University	
742	Humidity Sensing Studies of Polyaniline-Transition Metal Dichalcogenide Composites	S. Manjunatha	V.V. Sangha's Independent PU College	Ballari
743	Humidity sensing performance of nanorods of polyaniline-Yttrium oxide composite prepared by mechanical mixing method	Y.T. Ravikiran	V.V. Sangha's Independent PU College	Ballari
755	Improving osteogenic and antibacterial bone regeneration by encapsulating Sr and Ag nanoparticles in TiO <sub>2</sub> nanotubes	Konduru Ashok Kumar Raju	National Institute of Technology Rourkela	Odisha
757	Development of Herbal Scaffold for Bone Tissue Regeneration	Samapti Padhiary	National Institute of Technology Rourkela	Odisha
762	Antimicrobial Silicone Catheter by In-situ grafting of Nanosilver Nanohydrogel	Bhuvanesh Gupta	Department of Textile Technology, Indian Institute of Textile Technology	New Delhi
773	Evaluating Zn ferrite (Zn <sub>x</sub> Fe <sub>3-x</sub> O <sub>4</sub> ; 0 ≤ x ≤ 1) for alkaline water oxidation: An electrochemical and Operando spectroelectrochemical study	Amisha Soni	Indian Institute of Technology (BHU)	Varanasi
775	Evaluating NiS film electrode for efficient photo-electrochemical dye degradation of Methylene Blue: A photo-electrochemical and Operando spectroelectrochemical study	Sarvatej Kumar Maurya	Indian Institute of Technology (BHU)	Varanasi
785	Thermoacoustic textiles and its applications	Siddhi Vardhan Singh Rao	Indian Institute of Technology Delhi	New Delhi

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787	Biogenic Synthesis of Iron Nanoparticles using Ficus benjamina leaf extract for validating their in-vitro Antibacterial and Antifungal susceptibility	Chesta Mehta	M.L.S.University	Udaipur
788	Phytochemical screening and Antimicrobial evaluation of Nickel Nanoparticles derived from Ixora Coccinea (Leaves) via facile and sustainable synthesis approach	Megha Yadav	M.L.S.University	Udaipur
789	Synthesis and study of mechanical strength in phenol-naphtholic derived epoxy and vinyl ester resins	Nirmal Rathore	M.L.S.University	Udaipur
790	Polyacrylamide based hybrid hydrogel derivatives for their various sustainable environmental applications	Pooja Badsara	M.L.S.University	Udaipur