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10	A novel method of design of low power vlsi based viterbi decoder using gate diffusion input	TRL-2
11	Distribution system rendition with single distributed generation sources by network concert improvement inventory.	TRL-2
12	Method for plant disease detection using machine learning and methods thereof	TRL-2
13	A smart device for monitoring, and identifying driving route pollution using internet of things	TRL-3
14	In silico screening of novel sulfonamides as potential antimicrobial drugs docked with protein targets: PDB: 2VF5, 1KZN and 1JIJ and their synthesis using green approach	TRL-2
15	A method for the production of l-asparaginase using yarrowia lipolytica, from a substrate pongamia oil cake (pongama pinnata)	TRL-4
16	A method for the production of bioethanol in solid state fermentation (ssf) using saccharomyces cerevisiae, from the novel substrate of cantaloupe pulp	TRL-4

17	Modified microstrip feed hybrid rectangular dielectric resonator antenna for tri-band application	TRL-4
18	Click chemistry synthesis of novel 1,2,3-triazole-thieno-[2,3-d]-pyrimidine analogues: in silico evaluation docked against antioxidant targets: pdb: 1hd2, 2hck and 3nm8	TRL-3
19	In silico evaluation and synthesis of novel sulfonamides as promising anti-viral lead molecules docked against anti-covid-19 protein targets: sars-cov-2 main protease	TRL-3
20	Sulfobutyl ether beta-cyclodextrin encapsulated phytosomal composition of phyto- constituents	TRL-4
21	Crowd detection advanced camera to maintain distance and identify the suspect using ai- based programming.	TRL-4
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37	A method for green power produced in mfc various microorganisms	TRL-2
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346	Automatic detection system for Focal EEG signals with adaptive wavelet Transform	TRL-2
347	Design of Split Ring Resonator Superstrate for Sidelobe Suppression of Microstrip Array Antenna	TRL-2
348	Automatic Brain tissue segmentation by supervoxel clustering	TRL-4
349	High Speed Train Speed Predictive Control Using ANFIS modeling and machine learning.	TRL-5
350	Rapid plastic detection in sea shore using Convolutional Neural Networks in Autonomous cleaning vehicle	TRL-4
351	A system for detecting and identifying the number plate of an at least a vehicle	TRL-4
352	Auto-powered Assistive Device for Visually Impaired People	TRL-2
353	An apparatus for authenticating and assessing the driving skills of an at least a person	TRL-2
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355	A system and method for recognizing the emotions based on electrical bio-signals and speech signals	TRL-2
356	An efficient artificial fish swarm optimization based method for disease detection in oryza sativa	TRL-4
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365	Solar Powered smart waste management dustbin	TRL-2
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370	A Contrived Aggregate Composition for Concrete and Equipment for Its Preparation	TRL-5
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375	A Novel Pervious Concrete Composition & Preparation Method And Its Application In Process of Artificial Recharge of Groundwater by Simulating Rainfall, Runoff and Soil Characteristics in the Box Model	TRL-2
376	Enhancing mechanical properties of BEADWIRE RUBBER CEMENT CONCRETE OVER REINFORCED CEMENT CONCRETE	TRL-2
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378	An algebra balancing device having an imbalance correction mechanism	TRL-5
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474	Iot based biometric attendance system on automatic body temperature screening using machine learning algorithm	TRL-5
475	Machine learning based prediction of recommended song selections based on the people mindset using the dataset of age and emotional words using deep learning algorithm	TRL-5
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477	Ml and iot based smart helmet system to detect and prevent early accidents in heavy traffic places in metropolitan cities	TRL-4
478	Smart robotic application integrated with internet of things techniques to automate the process of physiotherapy exercises	TRL-4
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486	Designing an electric circuit by using a neural network with bayesian inference to select sub-routes for connecting elements	TRL-2
487	Hybrid energy system with optimization to draw more energy	TRL-2
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489	A machine learning based approach for creating a case study of adaptability aspects of employees	TRL-2
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491	A machine learning based approach to study the parameters of stock trading	TRL-2
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493	A learning system abetted by deep learning	TRL-3

494	Methods and systems for agricultural work by smart agriculture field boundary with ai & ict	TRL-2
495	Iot, blockchain enabled verifiable searchable encryption with aggregating authorization using machine learning techniques	TRL-2
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500	Iot based detection and prevention of malicious attacks on pahse-shifter-control in power systems using machine learning techniques	TRL-4
501	Shopping cart is enabled with iot and abetted by ai	TRL-5
502	A data mining tool for monitoring and reporting for a change in a real-time data	TRL-4
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504	Internet of things based electrical appliances control and security system	TRL-2
505	Apparatus for sanitizing articles with rotatable inner chamber to evenly distribute uv radiation	TRL-5
506	Intelligent wearable brain-computer interface system to assist paralyzed people to perform human-computer interaction	TRL-2
507	Breath analyzer to detect consumption of alcohol using digital nose	TRL-5
508	Ensure enterprise economic security by innovative activities using strategic marketing management	TRL-2
509	Navigation technique for industrial cleaning robot with multi height and width adaptability	TRL-3

510	Vision based multi object tracking and localization from autonomous aerial vehicle	TRL-4
511	A model driven engineering platform for designing multi paradigm cyber physical systems	TRL-2
512	Artificial neural network based enhancement of production system in smart industies	TRL-2
513	Smart system for providing roadside assistance service to users in real -time	TRL-4
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516	Monitoring and altering device for lpg cylinder	TRL-4
517	Active helmet to monitor safety	TRL-5
518	Pc face mask: face mask (rgb-non-woven fabric, melt blown fabric(red), plastic noise wire(black) to protect covid-2019. Other virus.	TRL-4
519	Aom- waste treatment systems: ai- based programming for advanced operation and maintenance of waste treatment systems.	TRL-4
520	Heat transfer analysis on grooved tubes through a friction analysis on diesel engine cyclinder	TRL-5
521	An noval method for empowering edge computing for source allocation based learning for industrial iot	TRL-2
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524	Ivb-email: intelligent-voice-based e-mail	TRL-4
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526	Indoor channel statistic properties prediction using radial basis function neural network (rbf-nn) for 5g and beyond (b5g) networks	TRL-2

527	An novel method for empowering edge computing for source allocation based learning for industrial iot	TRL-3
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529	Low cost metal 3d printer manufacturing method thereof	TRL-2
530	Vehicle window to control usage of air conditioner	TRL-2
531	An ai abetted green energy generating systems	TRL-2
532	Ipq-tourism management intelligent process for tourism management and quality control system	TRL-4
533	Progressive mechanized air conditioner	TRL-4
534	I-switch: intelligent switch using ir receiver and ir transmitter.	TRL-5
535	"I-key: intelligent key pattern active through biometric input"	TRL-4
536	Device, system and method for an efficient approach to improve interactions	TRL-4
537	Aqua sensor kit for checking dissolved oxygen in fish pond	TRL-5
538	I-spray: intelligent thief identifier through uv-gal spray.	TRL-5
539	Electric floor mopping machine	TRL-5
540	Iot enabled intelligent stick with cloud integration	TRL-4
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547	Partial replacement of coarse aggregated by using E - Waste in high strength concrete	TRL -7
548	A method for defluoridation of groundwater using corn cob and leca balls	TRL -7
549	Pedal Powered washing machine	TRL -7
550	Non -conventional Energy for Railway Application	TRL -7
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554	Introduction of Hydrogen Oxygen Mixture at Different Injection Pressure of Diesel Engines	TRL -7
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556	Automatic flowrate measurement and control of water flow using telemetry	TRL -7
557	A modern electronic based fire extinguisher	TRL -7
558	Video Mosaic image creation for secure secret image transmission	TRL -7
559	A composition of geopolymer clinker aggregate and a process thereof	TRL -7

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561	Water lubricated conical type teflon bearing	TRL –7
562	Re-configurable Antenna with Adaptive Function	TRL –7
563	Helical Blade Swirler for Automobile engine Application	TRL –7
564	Avoidance of Fire accident in train using RF wireless Sensor Network	TRL –7
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566	Automated Fire Identifying and Extinguishing Robot (AFIER)	TRL –7
567	Implantable CPW Fed Folded Type Antenna at Mics Band for Biomedical Applications	TRL –7
568	Wireless power transmission - a next generation power transmission system	TRL –7
569	Biodegradable Paper Substrate Based Amorphous Bowtie Antenna Structures for Wireless Applications	TRL –7
570	Smart Bottle of Alternate Energy Source for Militry Application	TRL –7
571	Amphibious Solar antenna module (ANTSOL) for next generation communication	TRL –7
572	Adaptive Traffic Control and Mapping using Unmanned Aerial Vehicle	TRL –7
573	"16-QAM assisted full duplex bluetooth" for increased transmission range in multimedia applications	TRL –7
574	Small Metamaterial Inspired Antenna for Wimax and WLAN Applications	TRL –7
575	Customization of cow-bull horn based biomimicry antenna designs for near and far field applications	TRL –7
576	A Fabricated detachable emission filter for exhaust outlets	TRL –7

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582	Multi-directional wind energy converter	TRL -7
583	A Passive energy dissipation device to improve gloabal stiffness of RC Framed building	TRL -7
584	Design of continuous rechargeable seawater battery system (crsbs)	TRL -7
585	Virtual vision using arduino with STM32 microcontroller and Raspberry PI	TRL -7
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587	Use of heat treatment salt wastes as potential abrasives in water jet machining process	TRL -7
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699	Smart glasses for assisting individuals with visual and hearing impairments and Method Thereof	TRL-4
700	A Power Operated Fastener Extracting Hand tool and Method of Operating the Same	TRL-4
701	A Smart Accessory for Allowing Partitions to a Shopping Trolley and Method Thereof	TRL-5
702	A Roof Ventilation System for Vehicles	TRL-4
703	A Multi-functional Oil Extractor for Extracting Peanut Oil and Butter and Method Thereof	TRL-4
704	An Airbag Inflation Control system and Method for Operating the Same	TRL-5
705	A Pillow with a Sleep Intrusion Evaluating Device and Method of Operating the Same	TRL-4
706	An Automatic Priming Accessory for Centrifugal Pumps and Method of Operating the Same	TRL-3
707	A System with Automatic Ultraviolet Disinfection Sheets for Disinfecting Objects and Method Thereof	TRL-4
708	Rollover Prevention and Battery Pre-heating System for Electrical Vehicles and Method of Operating the Same	TRL-4
709	A variable buoyancy floating fender	TRL-4
710	An Adaptive Relaxing Medical Chair and Method of Operating the Same	TRL-5
711	A Smart Hydroponic Farming Automation Apparatus and Method of Operating the Same	TRL-5
712	A Spring Loaded Accessory for a Cooker s Pressure Regulator and Method of Operating the Same	TRL-4

713	Smart Accessory with Size Variant Partitions for Shopping Trolleys and Method of Operating the Same	TRL-4
714	An Interactive System with a Haptic Racket and Method for Providing Reality Gaming Experience	TRL-4
715	A Twisting Accessory for a Mop Stick to Squeeze a Mop Head and Method Thereof	TRL-4
716	An Anti-Splashing System for vehicles to Prevent Water Splashing and Method Thereof	TRL-4
717	A Mono-Segmented Anti-Splashing Device for Vehicles to Prevent Water Splashing Due to Hydroplaning	TRL-4
718	A Universal Water Tank Cleaning Accessory and Method of Operating the Same	TRL-5
719	An Adaptive Glaucoma Detection Device and Method of Operating the Same	TRL-4
720	A Smart Spoon with an Automatic Crushing Unit and Method Thereof	TRL-4
721	A Conveyor System for Effective Sorting and Holding Objects and Method Thereof	TRL-3
722	A Suggestive and Defogging Eyeglasses Frame and Method of Operating the Same	TRL-4
723	Wireless Earphones with a Volume Control System and Method of operating the Same	TRL-4
724	A Smart Anti Slipping Accessory for Eyewear Glasses and Method of operating the Same	TRL-4
725	A Multi Functional Intelligent Chisel Machine with Chisel Blades and Method of Operating the Same	TRL-4
726	An Herbal Composition for Treating Breast Cancer	TRL-2
727	A Portable Device for Identifying White Spot Syndrome (WSS) Virus Disease and Method Thereof	TRL-2
728	A Multimode Ploughing Frame Unit and Method of Operating the Same	TRL-3
729	A Chainsaw Sharpening Accessory for Grinding Blade Profile of a Chainsaw and Method Thereof	TRL-4

730	A Compact Milk Processing and Packaging System and Method of operating the Same	TRL-4
731	Portable Cleaning Accessory with a Protective Cover for Vehicles and Method of Operating the Same	TRL-5
732	A Smart Accessory for Detecting Leaks in Domestic Gas Supply Hoses and Method Thereof	TRL-4
733	Electric Pedestal Fan with Self-adjustable Flaps for Air-flow Regulation and Method of Operating the Same	TRL-5
734	A Cone Penetration Testing Apparatus for Measuring Soil Properties and Method of Operating the Same	TRL-5
735	A Wearable Device for Automatically Detecting and Preventing User's Motion Sickness Condition and Method Thereof	TRL-4
736	An Apparatus for Conducting CBR Test and CPT Test and Method of Operating the Same	TRL-5
737	A Portable Accessory for Chairs to Lift an Individual from a Seated Position and Method Thereof	TRL-4
738	An Electric Toothbrush with an Automatic Tongue Scraper and Method of Operating the Same	TRL-4
739	An Anti-Leakage Detection and Self Sealing Accessory for Gas Supply Hoses and Method Thereof	TRL-4
740	A Light Post with an Air Purification Unit for Purifying Ambient Air and Method Thereof	TRL-5
741	A Flexible Stub Axle Assembly for Racing Vehicles	TRL-2
742	A Smart Protective Case Accessory for an Electronic Device and Method of Operating the Same	TRL-5
743	A Poly-herbal Anti-Diabetic Composition and Method of Preparing the same	TRL-2
744	Smart Aquatic Propulsion Vehicle for Surfing on Water Bodies and Method of Operating the Same	TRL-5
745	An Adjustable Pedal Device with a Foot Rest Platform for a Vehicle and Method Thereof	TRL-5
746	Automatic Hyperbaric Chamber with Standoff Sleeves for Welding Pipelines and Method of Operating the Same	TRL-5

747	A Paddle Wheel Aerator with a Swirl Generating Unit for Aerating Water	TRL-2
748	A Rainwater Purification Device and Method for Operating the Same	TRL-2
749	An Apparatus for Measuring Free Space in Core Cutter to Find Soil Volume and Dry Density	TRL-4
750	A Method for Controlled Expansion of a Floating Fender to Adapt for Different Water Levels	TRL-5
751	Control Valve with a Cost-effective Design to Control a Flow of Fluids and Method Thereof	TRL-5
752	A Concealed Suspension Lean Stand for Two wheelers to Provide Support in a Leaning Position	TRL-5
753	A Self-Controlled Water Floating Oil Skimmer and Method of Operating the Same	TRL-2
754	A Lever-type Accelerator Apparatus for a Gearless Two-wheeler Vehicle and Method of Operating the Same	TRL-4
755	Multi-Functional Helmet with a Rain and Neck Protection Unit and Method of Operating the Same	TRL-5
756	A Portable Stair Climbing Accessory and Method for Operating the Same	TRL-3
757	Optimized Spray Dryer with an Inbuilt Pulverize System for Producing Fine Particles and Method Thereof	TRL-5
758	A Unitary Cashew Fruit and Nut Processing Machine and Method of Operating the Same	TRL-4
759	A Pedestal Fan with an Integrated Air Purification System and Method for Operating the Same	TRL-5
760	A Cost-Effective Aquaponics System for Recycling Nutrition Liquid and Aeration Processes and Method Thereof	TRL-5
761	An Effective Pottery Making Machine and Method of Operating the Same	TRL-5
762	An Optimized Universal Coir Rope Making Machine and Method of Operating the Same	TRL-4
763	A Nutraceutical Topical Dermal Composition and Method of Preparing the Same	TRL-3