

Sl. No.	Filing Date	Patent	Inventor's name	Institution	Publication no or Application No.	Current Status
1	25-02-2026	'BINARY HYBRID NANOSTRUCTURE FOR PHOTOCATALYTIC AND ELECTROCATALYTIC WATER SPLITTING AND PREPARATION METHOD THEREOF'	Manoj Raula Department of Chemistry AUUP, Noida Email: mraula@amity.edu Mob: 7585841180	AIAS	202611022474'	
2	11-02-2026	'A TERNARY HYBRID METAL OXIDE-POLYOXOMETAL ATE NANOSTRUCTURE FOR PHOTOCATALYTIC, ELECTROCATALYTIC AND PHOTOELECTROCATALYTIC APPLICATIONS'	Manoj Raula, Shweta Gomey, Department of Chemistry,	AIAS	202611015101'	
3	19-01-2026	'A SOLUTION-PHASE METHOD FOR DEPOSITING FUNCTIONAL COATINGS ON DIVERSE SUBSTRATES USING COBALT TELLURATE AS AN INTERFACIAL BINDING MEDIATOR'	Harishchandra Singh, Aarsi Gupta AIAS, AUUP	ACSM	202611005303'	
4	23.12.2025	Mobile Robotic Arm System with Wireless Control	Dr. Surbhi Gupta	AIAS	202511130858'	Filed

5	05-12-2025	BISMUTH TITANATE PHOTOCATALYST MODIFIED WITH NONMETALS FOR EFFICIENT WASTEWATER TREATMENT AND CO2 HYDROGENATION'	Dr. Seema Garg	AIAS	20251112273'	Filed
6	20-08-2025	'Green Synthesis of Bismuth Ferrite Nanoflowers Using Vitis vinifera Stalks for Visible-Light Photocatalysis'	Seema Garg, Shailja Mittal, Sumant Upadhyay, Hema Bhandari Amity Institute of Applied Sciences,	AIAS	202511078933'	Filed
7	30-04-2025	HYPERSPECTRAL MICROSCOPIC SYSTEM FOR 3D STRUCTURAL AND FUNCTIONAL MAPPING OF ORGANOID'S USING TUNABLE OPTICS'	Suchandra Banerjee, Pradipta Mukherjee Amity Institute of Applied Science (AIAS),	AIAS	202511041839'	Filed
8	28-03-2025	'A SYNTHESIZING METHOD AND COMPOSITION FOR SILVER (AG) NANOVESICLES USING SHEVANTI (CHRYSANTHEMUM MULTIFORM) FLOWER'	Parul Khurana, Sheenam Thatai G.N. Khalsa College of Science, Arts and Commerce, University of Mumbai (Mumbai) Maharashtra AIAS, Amity University (Noida)	AIAS	202511030085'	Filed

9	28-02-2025	"TRANSITION METAL-DOPED BISMUTH TITANATE NANOSTRUCTURES FOR ENHANCED PHOTOCATALYTIC DEGRADATION OF POLLUTANTS AND CO ₂ HYDROGENATION"	Seema Garg , ,Andra Sapi,Amrish Chandra	AIAS	202511017847'	Filed
10	10-02-2025	METHOD AND COMPOSITION FOR GREEN SYNTHESIS OF SILICA NANOPARTICLES USING MARIGOLD FLOWER EXTRACTS'	Sheenam Thatai,Yashneeti Mehta,Parul Khurana Amity Institute of Applied Sciences, Amity University (Noida),G N Khalsa College of Arts, Science and Commerce, University of Mumbai (Mumbai)	AIAS	202511011018'	Filed
11	24-12-2024	"REVERSIBLE RESISTIVE FAR-INFRARED SENSOR FOR ULTRA-FAST AND PROXIMITYBASED DETECTION"	Harishchandra Singh,Robin Kumar Amity Institute of Nanotechnology, Amity University, U.P,University of Oulu, Finland	ACSM	202411102749'	
12	19-12-2024	"METHOD FOR SYNTHESIS OF FLEXIBLE TEXTILE CATALYSTS FOR HYDROGEN PRODUCTION AND ENERGY STORAGE"	Harishchandra Singh,Ekta Rani Amity University, Noida University of Oulu, Finland	ACSM	202411100922.00	Filed

13	17-12-2024	"SCALABLE GREEN NANOCATALYST FOR ON-DEMAND HYDROGEN PRODUCTION WITHOUT LIGHT, HEAT, OR ELECTRICITY AND METHOD THEREOF"	Mujahid Ameen Khan, Harishchandra Singh, Ramanujan Faculty Fellow, Mob: 9266417345, Email: hsingh4@amity.edu	ACSM	202411100018'	Filed
14	29-11-2024	GREEN RE@AG NANOCOMPOSITE FOR INDUSTRIAL WATER QUALITY CONTROL AND PREPARATION THEREOF"	Mujahid Ameen Khan, Harishchandra Singh, Ramanujan Faculty Fellow, Mob: 9266417345, Email: hsingh4@amity.edu	ACSM	202411093849'	Filed
15	21-11-2024	ECO-CONSCIOUS SYNTHESIS OF SILVER NANOPARTICLES FOR SUPERIOR DEGRADATION OF INDUSTRIAL DYES AND TOXIC COMPOUND'	Mujahid Ameen Khan, Harishchandra Singh, Ramanujan Faculty Fellow, Mob: 9266417345, Email: hsingh4@amity.edu	ACSM	202411090578	Filed
16	13-11-2024	GREEN SYNTHESIS METHOD OF ULTRA SMALL RHENIUM NANOPARTICLES FOR DEGRADATION OF ENVIRONMENTAL AND INDUSTRIAL POLLUTANTS	Mujahid Ameen Khan, Harishchandra Singh, Ramanujan Faculty Fellow, Mob: 9266417345, Email: hsingh4@amity.edu	ACSM	202411087682	Filed

17	25.09.2024	Rapid and Eco-Friendly Method of Fabrication of Dendritic BiVO ₄ Mesocrystals using Curcumin for Enhanced Photocatalytic Degradation of 2,4-D (2,4-dichlorophenoxyacetic acid)"	Dr. Seema Garg	AIAS	202411072437'	
18	August 23, 2024	A POLYETHYLENE-BASED ANION EXCHANGE MEMBRANE DEVELOPED THROUGH RADIATION GRAFTING TECHNIQUE AND METHOD THEREOF	Sunita Rattan, Prachi Singhal, Bharat Govind	AIAS	202311056381'	Filed
19	August 28, 2024	SUPERABSORBENT WITH NOVEL 2-(4-((ACRYLAMIDO)METHYL)-1H1,2,3-TRIAZOL-1-YL)-4-VINYLBENZOIC ACID MONOMER GRAFTING ON SOY PROTEIN ISOLATE SPI AND METHOD THEREOF"	Sunita Rattan, Saloni Mehra (AIAS)	AIAS	202011037342'	Filed
20	August 28, 2024	ULTRA-SMALL METALNANOPARTICLE DECORATEDREDUCED TiO ₂ -POM HYBRIDNANOMATERIALS FOR HYDROGENPRODUCTION	Shweta Gomey and Manoj Raula	AIAS	202311057545'	Filed
21	18-03-2024	SYSTEM AND METHOD FOR FREIGHT MANAGEMENT	Mandeep Mittal, Divya Agarwal, Varsha Yadav, Abhay Bansal	32/2024, 202411019796	202411019796'	Published

22	29-10-2021	A method for the synthesis of visible active bismuth oxyhalides (BiOCl, BiOBr, BiOI) composites.	Dr. Seema Garg	AIAS	Appl. No. 202111049599	Published on 05.05.23
23	02.03.23	A Method For Preparing Bismuth Molybdate Nanoplates For Photocatalytic Degradation Of Amoxicillin and Ampicillin Degradation'. .	Dr. Seema Garg	AIAS	Appl No. 202311014159	Published on 06.09.2024
24		A Method For Preparing Bismuth Molybdate Stabilized Ferricyanide And Ferrocyanide Nanocomposites and Novel Composition.	Dr. Seema Garg	AIAS	Appl No. 202311035502	
25		"Photocatalytic CO2 reduction using Bismuth titanate doped with copper and silver and preparation method thereof"	Dr. Seema Garg	AIAS	Appl No: 202311084415	
26		Rapid and Eco-Friendly Method of Fabrication of Dendritic BiVO4 Mesocrystals using Curcumin for Enhanced Photocatalytic Degradation of 2,4-D (2,4-dichlorophenoxyacetic acid)"	Dr. Seema Garg	AIAS	Appl No 202411072437	
27	27.12.23	FACILE SYNTHESIS OF BISMUTH TITANATE PHOTOCATALYST FOR EFFICIENT PHOTODEGRADATION AND CO2 REDUCTION	Dr. Seema Garg	AIAS	202311088940'	

28	19.08.23	A Network Control Method for Traffic Engineering Using Graph Theory with high Efficiency	1 . Dr. Richa Agarwal 2 . Dr. Amit Kumar Attri 3 . Dr. Anshu kumar 4 . Mr. Sandeep Kumar Mittal 5 . Dr. Dushyant Kumar 6 . Dr. Padam Singh 7 . Dr. Arun Kumar 8 . Dr. Rashmi Singh 9 . Dr. Neha Bhardwaj 10 . Dr. Milan Srivastava 11 . Dr. Nidhi Sahni 12 . Dr. Sudhir Kumar Yadav	AIAS	202311055650'	Published on 15.09.23
29	December 09, 2022	'MUSTARD OIL ABSORBER SOOT ENHANCED INFRARED (IR) SENSING OF PYROELECTRIC CERAMICS AND METHOD THEREOF'	Anoop Kumar Shukla,	AIAS, AUUP, Noida.	TEMP/E-1/82054/2022-DEL,	Provisional
30	21.10.2022	An Air filtration system for smoking zone	1.Rohit Sharma, 2.Vishal Dabra 3. Shashi Chawla, 4. Vijay Chaudhary, 5. Dhruv Bansal,	1.ASET 2. PIET 3. AIAS 4 ASET 5 ASET	202211060458'	Published on 26.04.2024

31	June 06, 2022	'A METHOD FOR FABRICATING QUERCETIN ARBITRATED EFFICIENT VISIBLE LIGHT DRIVEN BISMUTH OXYBROMIDE/BISMUTH OXYIODIDE [BiOBrp1-p-Q]'	Seema Garg, Harshita Chawla, Amrish Chandra, Sumant Upadhyay,	AIAS	TEMP/E-1/36159/2022-DE	Provisional Patent Filed
32	28.01.2022	A Mosquito Bat Assembly	1. Rohit Sharma 2. Shashi Chawla 3. Kunal Mehta 4. Vikas Kumar 5. Jasprit Hira	1, 2 ASET 3. AIAS4. ETU, Ethiopia 5. Raffles University	202211004809'	Published on 12.01.24
33	20.04.2021	Curcuma longa sensitized BiVO4 nanostructures for removal of recalcitrant pollutants and method thereof' .	Dr. Seema Garg	AIAS	Appl. No. 202111018136	Published on 26.05.2023
34	15.11.2021	CARBON-BASED HETEROSTRUCTURED NANOMATERIALS COMPRISING PROPENE BRIDGED CYANURATE TETRAMER CRYSTALS NESTED ON TWO-DIMENSIONAL NANOSHEETS AND METHOD THEREOF'	Aakanksha Agarwal, Sampath kumar, Jeevanandham, Chirantan Kar, Mousumi Sen, Monalisa Mukherjee,	AIAS	202111052276'	Published on 19/05/2023

35	10.08.2021	'AHERBAL FORMULATION CONTAINING POLYMERIC NANOPARTICLES LOADED WITH TERMINALIA ARJUNA WITH ANTIMICROBIAL ACTIVITY TO TREAT SKIN DISORDERS AND METHOD THEREOF'	Aditi Sangal, Sunita Rattan, Vinod Kumari, AIAS, AUUP, Noida.	AIAS	202111036022'	03.03.2023
36	28.02.2020	Ag doped-BiOXs (BiOBr/BiOI/BiOCl) nanocomposite impregnated 2-D cylindrical activated carbon block for photocatalytic applications.	Dr. Seema Garg	AIAS	Appl. No. 202011008530	waiting for Examination on 28.02.24
37	08.04.2019	A novel herbal formulation loaded with polymeric nanoparticles of Anacyclus pyrethrum for mouth ulcers	Dr. Sunita Rattan, Dr. Aditi sangal, Ms. Safiya Nisar	AIAS	Application No.: 201911014032	Request for Examination Date 10.04.2023
38	2019	Dual Stimuli-responsive Hydrogels with a Novel cross-linker for Drug Delivery	Safiya Nisar, Sunita Rattan, Li-Fang Wang	AIAS	CRN3269	Patent Filed
39	2017	Method for Preparation of Highly fluorescent GQDs	Vinod Kumar; Monalisha Mukherjee +4	AIAS	Application No. 201711016	Completed
40	2017	A System And Method For Bank Vault Threshold Authentication	Dr. Sonam D. Kaul	AIAS	201711016936'	Provisional Patent Filed
41	2016	Sustainable, low-cost and efficient adsorbent for water purification and a process thereof	Dr Bijayalaxmi Panda	AIAS	201611019382'	Patent Filed

42	2016	Soy protein grafted N-Vinyl Caprolactam thermoresponsive hydrogels for drug delivery applications	Prof. Sunita Rattan	AIAS	DEL/2016	Patent Filed
43	2016	Ultrasensitive, Robust, Flexible, Ammonia Gas Sensor for Refrigeration Plants from Polymer Nanocomposites with Extended Temperature Range	Prof. Sunita Rattan	AIAS	DEL/2016	Patent Filed
44	2016	A Novel Method to Exfoliate Expanded Graphite to Graphene within the Polymer Matrix Using Swift Heavy Ions	Prof. Sunita Rattan	AIAS	DEL/2016	Patent Filed
45	2015	Novel process for synthesis of composite core shell structures for simultaneous removal of inorganic and organic pollutants	Dr Sangeeta Tiwari and Ruchi Shaw	AIAS	Appl. No 3972/DEL/2014	Patent Filed
46	2015	A novel system to reduce exhaust emission of diesel engine using carbon black, 3-way convertor and an alkali solution	Dr Christine Jeyaseelan	AIAS	4030/DEL/2015	Patent Filed
47	2015	A novel system to reduce emission gases and particulate matter from diesel engine exhaust	Dr Christine Jeyaseelan	AIAS	3779/DEL/2015	Patent Filed
48	2015	A novel exhaust system for reducing the gases and particulate matter emitted from vehicles.	Dr Christine Jeyaseelan	AIAS	3010/DEL/2015	Patent Filed

49	2015	Novel low cost Zinc oxide nanocomposite for enhancing shelf life of cut flowers	Dr Deepshikha Gupta and Dr. A.L. Verma	AIAS	2209/DEL/2015	Patent Filed
50	2015	Amorphous Alumino Silicates derived from Fly ash as Functional Pigment for Cool Coatings	Dr Sangeeta Tiwari and Richa Sharma	AIAS	Appl. No. ---136/DEL/2014	Patent Filed
51	2015	Novel Composites Prepared Using derivatized Diterpene from Clerodendrum kaichianum and PVC Polymer	Prof. Sunita Rattan	AIAS	1102/DEL/2015	Patent Filed
52	2015	Novel composites Compositions Prepared from Coagulum Extracted from plant Source Platycladus Orientallis	Prof. Sunita Rattan	AIAS	1218/DEL/2015	Patent Filed
53	2014	Synthesis and photocatalytic applications of novel green BiOBr nanoparticles for waste water treatment-	Dr. Seema Garg	AIAS	Appl. No. 2546/DEL/2014.	Published on 11.03.2016
54	2014	Reduced Grapheme oxide (RGO)-Metal oxide based visible light active photocatalyst for pollutant abatement and a process thereof	Dr Bijayalaxmi Panda	AIAS	2894/DEL/2014	Patent Filed
55	2014	Method of fabricating superhydrophobic surfaces using environmentally safe materials	Dr Sangeeta Tiwari and Tanu Mittal	AIAS	Appl. No. 3972/DEL/2014	Patent Filed

56	2013	Synthesis of iron based low cost binary mixed metal oxide semiconductor	Dr Bijayalaxmi Panda	AIAS	3748/DEL/2013	Patent Filed
57	2013	Microwave assisted green synthesis of silver nanoparticles using Nyctanthes arbor-trisitis plant extract	Dr Seema Garg	AIAS	2771/DEL/2013	Patent Filed
58	2013	Microwave mediated synthesis of an oxidizing agent for dye degradation	Dr Bijayalaxmi Panda	AIAS	2310/DEL/2013	Patent Filed
59	2013	A method for preparation of Nanosized Zeolite particles	Dr Sangeeta Tiwari and Rashmi Rani Padhy	AIAS	Appl. No. 1628/Del/2013	Patent Filed
60	2013	Low cost and eco-friendly production of an electro-active hybrid composite of polyaniline and binary metal dichalcogenide	Dr Bijayalaxmi Panda	AIAS	778/DEL/2013	Patent Filed
61	2013	Detection of BTX vapors based on Metal-Tetraphenylporphyrin Functionalized Carbon Nanotube Composite Sensors	Prof. A.L. Verma and Ms. Swasti Saxena	AIAS	493/DEL/2013	Patent Filed
62	2013	A Novel System to reduce Ignition Delay in Diesel Engine by Introducing Electromagnetic Waves Generated in Plasma	Dr R.S. Pandey	AIAS	1792/DEL/2013	Patent Filed
63	2012	A novel composition of cinnamon- loaded polymeric nanoparticles in gum base for oral controlled release of cinnamon	Prof. Sunita Rattan, Dr Aditi Sangal	AIAS	2860/DEL/2012	Patent Filed

64	2012	Synthesis of PEDOT:PSS/NGPs Nanocomposites as Chemiresistive Sensors for detection of Nitroaromatics	Ms Prachi Singhal, Prof. S. Rattan and Dr. A.L. Verma,	AIAS	2799/DEL/2012	Patent Filed
65	2012	Chemiresistive sensors comprising PEDOT: PSS/NGPs Nanocomposites for detection of nitro aromatics	Prof. Sunita Rattan	AIAS	2799/DEL/2012	Patent Filed
66	2012	Modification of nanocomposite of poly (3, 4-ethylenedioxythiophene)/poly (4-styrene sulphonate) (PEDOT: PSS) / nano graphite through ion implantation technique	Prof. Sunita Rattan	AIAS	2239/DEL/2012	Patent Filed
67	2012	Herbal silver nano particles synthesized & stabilized by the extract of saraca indica leaves	Dr Seema Garg	AIAS	1556/DEL/2012	Patent Filed
68	2012	Development of low cost, convenient and electroactive polyaniline-ceramic chalcogenide composites	Dr Bijayalaxmi Panda	AIAS	1373/DEL/2012	Patent Filed
69	2012	Herbal nano silver using ratanjot for wound and burn treatment	Dr Seema Garg	AIAS	1320/DEL/2012	Patent Filed
70	2012	Synthesis of silver nano particles from the bark of Ashoka Tree	Dr Seema Garg	AIAS	1238/DEL/2012	Patent Filed