

Sl. No.	Filing Date	Patent	Inventor's name	Institution	Publication no or Application No.	Current Status
1	7/7/2024	SUPPLY CHAIN OPTIMIZATION KIOSK	Dr. Shweta Upadhyaya	AIAS	422519-001	<b>Awarded on 02.09.2024</b>
2	Sep-24	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	202411072437'	
3	23.08. 2024	A POLYETHYLENE-BASED ANION EXCHANGE MEMBRANE DEVELOPED THROUGH RADIATION GRAFTING TECHNIQUE AND METHOD THEREOF	Dr. Sunita Rattan, Dr.Prachi Singhal, Mr.Bharat Govind	AIAS	202311056381'	Filed
4	28.08.2024	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"	Dr.Sunita Rattan, Ms.Saloni Mehra (AIAS)	AIAS	202011037342'	Filed
5	28.08. 2024	ULTRA-SMALL METALNANOPARTICLE DECORATEDREDUCED TIO2-POM HYBRIDNANOMATERIALS FOR HYDROGENPRODUCTION	Ms.Shweta Gomey and Dr.Manoj Raula	AIAS	202311057545'	Filed
6	3/18/2024	SYSTEM AND METHOD FOR FREIGHT MANAGEMENT	Dr.Mandeep Mittal, Dr.Divya Agarwal	AIAS	202411019796'	Published
7	10/29/2021	A method for the synthesis of visible active bismuth oxyhalides (BiOCl, BiOBr, BiOI) composites.	Dr. Seema Garg	AIAS	Appl. No. 202111049599	<b>Published on 05.05.23</b>
8	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	<b>Published on 06.09.2024</b>
9	2023	A Method For Preparing Bismuth Molybdate Stabilized Ferricyanide And Ferrocyanide Nanocomposites and Novel Composition.	Dr. Seema Garg	AIAS	Appl No. 202311035502	Filed
10	2023	"Photocatalytic CO2 reduction using Bismuth titanate doped with copper and silver and preparation method thereof" .	Dr. Seema Garg	AIAS	Appl No: 202311084415	Filed
11	2023	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	Filed
12	27.12.23	FACILE SYNTHESIS OF BISMUTH TITANATE PHOTOCATALYST FOR EFFICIENT PHOTODEGRADATION AND CO2 REDUCTION	Dr. Seema Garg	AIAS	202311088940'	Patent Filed on 27.12.23 TEMP/E1/103956/2023- DEL

13	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	AIAS	202311055650'	Published
14	5/21/2013	An improved Measuring cylinder with sensor, Patent number 480174	Dr Shashi Chawla	AIAS	1516/DEL/2013	<b>Awarded on 11.12.2023</b>
15	6/18/2013	AUTOMATIC STALGMOMETER WITH A SENSOR, Patent Number 425775	Dr Shashi Chawla	AIAS	1794/DEL/2013	<b>Awarded on 20.03.2023</b>
16	28.11.2022	'Synthesis of quercetin mediated BiOX'	Dr.Seema Garg , Dr. Amrish Chandra	AIAS	201811014713'	<b>Awarded on 28.12.23</b>
17	17-Jul-18	Ultrasensitive Robust, Flexible, Ammonia Gas sensor for Refrigeration Plants	Dr.Sunita Rattan, Ms.Payal Mazumdar	AIAS	201611024241'	<b>Awarded on 22.12.23</b>
18	July 17, 2018	A method for synthesis of green Bismuth molybdate and its composites	Dr. Seema Garg	AIAS	201811026610'	<b>Awarded on 07.12.23</b>
19	8/3/2016	Synthesis of 5',5'-dibutyl-3',3' dimethylspiro [benzo[c][1,2] oxathiole-3,2'-4,6-dioxo-5-stanna-1,3(1,4)-dibenzenacyclohexaphane] 1,1-dioxide for therapeutic applications	Dr. Anita Gupta	AIAS	201611026470'	<b>Awarded on 30.06.2023</b>
20	22.08.2013	DEVELOPMENT OF CINNAMON-CUMIN DUAL DRUG LOADED POLY (D,LLACTIDE-CO-GLYCOLIDE) COATED POLYMERIC NANOPARTICLES FOR SUSTAINED RELEASE OF ANTI-	Dr Aditi Sangal, Dr Sunita Rattan	AIAS	2474/DEL/2013	<b>Awarded 30.05.2023</b>
21	9/19/2018	Method for synthesis of nanoparticles using biodiesel	Dr. Anita Gupta		201811035292'	<b>Awarded on 16.01. 2024</b>
22	October 25,2019 / October 21, 2020	Synthesis of silver nanoparticles from the bark of Ashoka tree' October 25,2019 / October 21, 2020	Dr. Seema Garg	AIAS	1238/DEL/2012	<b>Awarded on 29.12.2022</b>
23	09.12. 2022	'MUSTARD OIL ABSORBER SOOT ENHANCED INFRARED (IR) SENSING OF PYROELECTRIC CERAMICS AND METHOD THEREOF'	Dr. Anoop Kumar Shukla,	AIAS	TEMP/E-1/82054/2022-DEL,	Provisional
24	21.10.2022	An Air filtration system for smoking zone	Dr. Shashi Chawla	1.ASET 2. PIET 3. AIAS 4 ASET 5 ASET	202211060458'	Patent Filed
25	01.09.2022	A method of tailoring the magnetic anisotropy of soft magnetic films for spintronic applications	Dr.Gagan Sharma, Dr.Kavita Sharma, Dr.Sunita Rattan	ACSM, AIAS	202211050209'	Provisional Patent Filed
26	June 06, 2022	'A METHOD FOR FABRICATING QUERCETIN ARBITRATED EFFICIENT VISIBLE LIGHT DRIVEN BISMUTH OXYBROMIDE/BISMUTH OXYIODIDE [BiOBr <sub>1</sub> -p-Q]'	Dr.Seema Garg	AIAS	TEMP/E-1/36159/2022-DE	Provisional Patent Filed
27	28.01.2022	A Mosquito Bat Assembly	Dr. Shashi Chawla	1, 2 ASET 3. AIAS4. ETU, Ethiopia 5.	202211004809'	Patent Filed
28	19.12.2019	Modification of Nanocomposites of Poly (3,4-Ethylendioxy Thiophene) Poly (4-Styrene Sulphonate) (PEDOT:PSS)/ Nano Graphite through Ion Implementation technique	Dr. Sunita Rattan, Dr. Prachi Singhal	AIAS	2239/DEL/2012	<b>Awarded</b>

29	20.04.2021	Curcuma longa sensitized BiVO <sub>4</sub> nanostructures for removal of recalcitrant pollutants and method thereof .	Dr. Seema Garg	AIAS	Appl. No. 202111018136	Published on 26.05.2023
30	15.11.2021	CARBON-BASED HETEROSTRUCTURED NANOMATERIALS COMPRISING PROPENE BRIDGED CYANURATE TETRAMER CRYSTALS NESTED ON TWO-DIMENSIONAL NANOSHEETS AND METHOD THEREOF'	Dr. Mousumi Sen	AIAS	202111052276'	Provisional Patent Filed
31	10.08.2021	'AHERBAL FORMULATION CONTAINING POLYMERIC NANOPARTICLES LOADED WITH TERMINALIA ARJUNA WITH ANTIMICROBIAL ACTIVITY TO TREAT SKIN DISORDERS AND	Dr. Aditi Sangal, Dr.Sunita Rattan	AIAS	202111036022'	Provisional Patent Filed
32	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
33	2020	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.: 201911014	Patent Filed
34	26.03. 2019	"Synthesis and Biological Activity of ({5-[(3aR,4R,6aS)-2-oxo-hexahydro-1H-thieno[3,4-d]imidazol-4-yl]pentanoyl}oxy) dibutylstannyl 5-[(3aS,4S,6aR)-2-oxo-hexahydro-1H-thieno[3,4-	Dr. Anita Gupta	AIAS	201911011661'	<b>Awarded on 19.07. 2024</b>
35	2019	Dual Stimuli-responsive Hydrogels with a Novel cross-linker for Drug Delivery	Ms. Safiya Nisar, Dr. Sunita Rattan, Li-Fang Wang	AIAS	CRN3269	Patent Filed
36	2017	Method for Preparation of Highly fluorescent GQDs	Dr.Vinod Kumar	AIAS	Application No. 201711016	Completed
37	2017	A System And Method For Bank Vault Threshold Authentication	Dr. Sonam D. Kaul	AIAS	201711016936'	Provisional Patent Filed
38	2016	Enhanced photocatalytic applications of novel green composites of semiconductor Bismuth Oxyhalides (BiOXs) Dr. Seema Garg AIAS Appl. No. 201611025631 Awarded2021	Dr. Seema Garg	AIAS	Appl. No. 201611025631	<b>Awarded in 2021</b>
39	2016	Sustainable, low-cost and efficient adsorbent for water purification and a process thereof	Dr Bijayalaxmi Panda	AIAS	201611019382'	Patent Filed
40	2016	Soy protein grafted N-Vinyl Caprolactam thermoresponsive hydrogels for drug delivery applications	Prof. Sunita Rattan	AIAS	DEL/2016	Patent Filed
41	8/3/2016	Synthesis of novel complex stannane derived from benzene-1,3-diol'	Dr. Anita Gupta	AIAS	201611026471'	<b>Awarded on 30.12.2021</b>
42	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
43	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

44	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
45	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
46	2015	A novel system to reduce emission gases and particulate matter from diesel engine exhaust	Dr Christine Jeyaseelan	AIAS	3779/DEL/2015	Patent Filed
47	2015	A novel exhaust system for reducing the gases and particulate matter emitted from vehicles.	Dr Christine Jeyaseelan	AIAS	3010/DEL/2015	Patent Filed
48	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
49	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
50	2015	Novel Composites Prepared Using derivatized Diterpene from Clerodendrum kaichianum and PVC Polymer	Prof. Sunita Rattan	AIAS	1102/DEL/2015	Patent Filed
51	2015	Novel composites Compositions Prepared from Coagulum Extracted from plant Source Platycladus Orientallis	Prof. Sunita Rattan	AIAS	1218/DEL/2015	Patent Filed
52	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
53	2014	Reduced Grapheme oxide (RGO)-Metal oxide based visible light active photocatalyst for pollutant abatement and a process thereof	Dr Bijyalaxmi Panda	AIAS	2894/DEL/2014	Patent Filed
54	2014	Method of fabricating superhydrophobic surfaces using environmentally safe materials	Dr Sangeeta Tiwari and Tanu Mittal	AIAS	Appl. No. 3972/DEL/2014	Patent Filed
55	2013	Synthesis of iron based low cost binary mixed metal oxide semiconductor	Dr Bijyalaxmi Panda	AIAS	3748/DEL/2013	Patent Filed
56	2013	Microwave assisted green synthesis of silver nanoparticles using Nyctanthes arbor-trisitis plant extract	Dr Seema Garg	AIAS	2771/DEL/2013	Patent Filed
57	2013	'A Novel Fly ash based Zeolitic Extender Pigment for use as Anticorrosive Additive in Paints'	Prof Sangeeta Tiwari	AIAS	Appl. No. 2475/Del/2013	<b>Awarded on 22 Nov. 2019</b>
58	2013	Development of cinnamon-cumin dual drug loaded poly (D,L-lactide-co-glycolide) coated polymeric nanoparticles for sustained release of anti-diabetic drugs	Dr Aditi Sangal, Dr Sunita Rattan	AIAS	2474/DEL/2013	<b>Awarded on 30 Dec. 2019</b>
59	2013	Microwave mediated synthesis of an oxidizing agent for dye degradation	Dr Bijyalaxmi Panda	AIAS	2310/DEL/2013	Patent Filed

60	2013	A method for preparation of Nanosized Zeolite particles	Dr Sangeeta Tiwari and Rashmi Rani Padhy	AIAS	Appl. No. 1628/Del/2013	Patent Filed
61	2013	Metalloporphyrins-functionalized CNT Composite as Chemiresistive Sensor for Nitrobenzene and Chlorobenzene Vapors	Prof. Sunita Rattan, Prof. A.L. Verma and Ms. Swasti Saxena	AIAS	1316/DEL/2013	<b>Awarded</b>
62	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
63	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
64	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
65	2013	Homogenization of nanoparticles in Poly (3, 4-ethylenedioxythiophene) / poly (4-styrene sulphonate) (PEDOT:PSS) / nanographite nanocomposites using swift heavy	Prof. Sunita Rattan	AIAS	2016/DEL/2013	<b>Awarded 23 dec. 2020</b>
66	2012	Development of Novel Nanocomposites using Functionalised graphite and grafted Polymers Through chemical Ligation	Prof. Sunita Rattan	AIAS	806/DEL/2012	<b>Awarded on 15 Oct 2019</b>
67	2012	Modification of nanocomposite of poly (3, 4-ethylenedioxythiophene) /poly (4-styrene sulphonate) (PEDOT: PSS) / nano graphite through ion implantation technique	Prof. Sunita Rattan, Dr. Prachi Singhal	AIAS	2239/DEL/2012	<b>Awarded on 17 Mar 2021</b>
68	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
69	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
70	2012	Chemiresistive sensors comprising PEDOT: PSS/NGPs Nanocomposites for detection of nitro aromatics	Prof. Sunita Rattan	AIAS	2799/DEL/2012	Patent Filed
71	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
72	2012	E-glass-epoxy material yoke harness	Dr R.S. Pandey, Dr. R.K. Tyagi	AIAS	1844/del/2012	<b>Awarded on 23 July 2021</b>
73	2012	Herbal silver nano particles	Dr Seema Garg	AIAS	1556/DEL/2012	Patent Filed
74	2012	Development of low cost, convenient and electroactive polyaniline-ceramic chalcogenide composites	Dr Bijayalaxmi Panda	AIAS	1373/DEL/2012	Patent Filed
75	2012	Herbal nano silver using ratanjot for wound and burn treatment	Dr Seema Garg	AIAS	1320/DEL/2012	Patent Filed

76	2012	Synthesis of silver nano particles from the bark of Ashoka Tree	Dr Seema Garg	AIAS	1238/DEL/2012	Patent Filed
77	2012	Targeted Drug Delivery System using Ferrite Nano Particles	Dr Seema Garg	AIAS	1193/DEL/2012	<b>Awarded on 31.03.2023</b>
78	2012	Herbal nano silver using black pepper for acne treatment	Dr Seema Garg	AIAS	943/DEL/2012	<b>Awarded on 10.02.2023</b>
79	2012	Development of novel nanocomposites as chemical sensors using functionalized graphite nanoparticles and grafted polymers through chemical ligation	Prof. Sunita Rattan	AIAS	806/DEL/2012	<b>Awarded on 15 Oct. 2019</b>
80	2009	A process for surface modification of fly ash for use as reflective agent	Prof. Sangeeta Tiwari	AIAS	1425/DEL/2009	<b>Awarded on 14 Nov. 2019</b>