



ALAGAPPA UNIVERSITY

A State University Accredited with A+ Grade by NAAC (CGPA: 3.64) in the Third Cycle

KARAIKUDI – 630 003, Tamil Nadu, India







CRITERION - III

RESEARCH, INNOVATIONS AND EXTENSION






3.4 RESEARCH PUBLICATIONS AND AWARDS





3.4.2 - PATENTS GRANTED / PUBLISHED

S. No.	Name of the Faculty / Student Author of the Patent	Name of the Department	Title of Invention	Patent Number	Date of Award	Patent Awarding Agency	Link to the Grant Letter/Award Letter
2018 - 2019							
1	Muthamil S, Sivasankar C, Pandian SK	Department of Biotechnology Alagappa University	A FORMULATION COMPRISING PHYTOCHEMICALS AND APPLICATIONS THEREOF	201741011854	05-10-2018	Intellectual Property India	
2	T.K. Swetha, C. Sivasankar, S. Karutha Pandian	Department of Biotechnology Alagappa University	A COMPOSITION COMPRISING PHYTOCHEMICALS AND PREPARATION PROCESS THEREOF	455506	05-10-2018	Intellectual Property India	
2019 - 2020							
3	Ravi AV, Santhakumari S, Durgadevi R, Alexpandi R and Pandian SK, et. al.	Department of Biotechnology Alagappa University	PHYTOCHEMICAL FORMULATIONS	457480	27-09-2019	Intellectual Property India	
4	S.Santhoshkumar, A.Sumathi, S.Meganathan, C.Balakrishnan, et. Al.	Department of Computer Science Alagappa University	RASPBERRY PI BASED ELDERLY FALL DETECTION SYSTEM FOR ELDERLY PEOPLE USING IOT AND BIG DATA DESCRIPTION	20204100994 4	13-03-2020	Intellectual Property India	







2020 - 2021

5	Prasanth MI, Balamurugan K, Pandian SK, Gayathri, Bhaskar JP	Department of Biotechnology Alagappa University	PERSONAL CARE COMPOSITIONS FOR ANTI-AGING	337898	03-06-2020	Intellectual Property India	
6	A. Veera Ravi, S. Santhakumari, R. Durgadevi, R. Alexpandi S. Karutha Pandian et. al.	Department of Biotechnology Alagappa University	PHYTOCHEMICAL FORMULATIONS AGAINST EARLY MORTALITY SYNDROME (EMS)	345407	28-08-2020	Intellectual Property India	
7	K. Ganesh Prasath, S. Karuthapandian	Department of Biotechnology Alagappa University	COMPOSITION EXHIBITING ANTIBIOFILM AND ANTIHYPHAL ACTIVITY	201941007130	28-08-2020	Intellectual Property India	

2021 - 2022

8	Rajeswari Rakkappan, Kavitha Alagappan, H. GurumallesPrabu, Ananda Babu Sairam	Department of Industrial Chemistry Alagappa University	HYDROTHERMAL METHOD FOR PREPARING COPPER DOPED-ZINC OXIDE/REDUCED GRAPHENE OXIDE (Cu-ZnO/RGO) NANOCOMPOSITE	483641	02-07-2021	Intellectual Property India	
9	A. Valliammai, S. Karutha Pandian	Department of Biotechnology Alagappa University	ANTI-BIOFILM COMPOSITION OF PHYTOCHEMICALS	202041002710	23-07-2021	Intellectual Property India	
10	K. Ganesh Prasath, S. Karutha Pandian	Department of Biotechnology Alagappa University	PHYTOCHEMICALS EXHIBITING ANTIBIOFILM ACTIVITY	436067	23-07-2021	Intellectual Property India	
11	K. Sankaranarayanan, V. Govindan	Department of Physics Alagappa University	A SYSTEM FOR GROWING A UNIDIRECTIONAL ORGANIC SINGLE CRYSTAL COMPOUND AND METHOD THEREOF	379274	13-10-2021	Intellectual Property India	

12	A. Valliammai, S. Karutha Pandian	Department of Biotechnology Alagappa University	ANTI-BIOFILM COMPOSITION OF PHYTOCHEMICALS AND IMPLEMENTATIONS THEREOF	202041017519	29-10-2021	Intellectual Property India	
13	Sivasankar C, Pandian SK and Balamurugan K	Department of Biotechnology Alagappa University	AN ANTI-ACNE SYNERGISTIC COMPOSITION AND PROCESS THEREOF	381269	03-11-2021	Intellectual Property India	
14	A. Valliammai, S. Karutha Pandian	Department of Biotechnology Alagappa University	ANTI-BIOFILM FORMULATION AND METHOD OF ITS PREPARATION AND APPLICATION THEREOF	20204102947 9	14-01-2022	Intellectual Property India	
15	Sivasankar C, Pandian SK, Gayathri S and Bhaskar JP	Department of Biotechnology Alagappa University	A COMPOSITION COMPRISING OF EMBELIN, AND AT LEAST ONE ANTI-FUNGAL AGENT AND USES THEREOF	387232	24-01-2022	Intellectual Property India	
16	R. Yuvakkumar, G. Ravi, M. Isacfranklin, S.I. Hong et al.	Department of Physics Alagappa University	AN IMPROVED QUATERNARY CHALCOGENIDE Cu ₂ NiSnS ₄ MATERIAL AND A METHOD OF MANUFACTURE THEREOF	389221	14-02-2022	Intellectual Property India	
17	R. Yuvakkumar, G. Ravi, V. Thirumal, SP. Keerthana et. al.	Department of Physics Alagappa University	A METHOD OF PREPARING 3D Si@MXENE/GRAPHENE CRUMBLD SPHERICAL NANOCOMPOSITES	447802	04-03-2022	Intellectual Property India	

18	Lakshmi G. Tejo, Chandana Udayini, Mosiganti Joseph Prakash, Palaniappan Karthikeyan, Prabhu P et. al.	Directorate of Distance Education Alagappa University	AN AUTOMATIC OPTIMIZED FEATURES SELECTION SYSTEM IN RETINOPATHY DETECTION USING ACTIVE EXTREME LEARNING MACHINE	2021102935	20-04-2022	Australian patent	
19	A. Priya, S. Karutha Pandian	Department of Biotechnology Alagappa University	ANTIBIOFILM AND ANTIHYPHAL COMPOSITION COMPRISING PHYTOCHEMICALS	20204104596 3	22-04-2022	Intellectual Property India	
20	C. SEKAR, NEHRU Lavanya, SOLOMON Anitta	Department of Bioelectronics and Biosensors Alagappa University	ELECTROCHEMICAL DETECTION OF PARA-AMINOHIPPURIC ACID AND URIC ACID BIOMARKERS	453570	22-04-2022	Intellectual Property India	
21	A. Selvaraj, S. Karutha Pandian	Department of Biotechnology Alagappa University	ANTI-BIOFILM COMPOSITION AND IMPLEMENTATIONS THEREOF	472781	13-05-2022	Intellectual Property India	
22	C. Sekar, G. Veerapandi, N. Lavanya	Department of Bioelectronics and Biosensors Alagappa University	ELECTROCHEMICAL SENSOR FOR DETECTION OF BIOMOLECULES	456482	20-05-2022	Intellectual Property India	
23	E. Ramraj, Kumar K Kranthi, P. Geetha, S. Santhosh Kumar, A. Senthil Rajan et. al.	Department of Computer Science Alagappa University	IOT BASED SMART DUSTBIN	2021103608	25-05-2022	Australian patent	

2022 - 2023

24	A. Priya, S. Karutha Pandian	Department of Biotechnology Alagappa University	PHYTOCHEMICAL COMPOSITION EXHIBITING ANTI-BIOFILM AND ANTI-HYPHAL ACTIVITY	453930	24-06-2022	Intellectual Property India	
25	R. Yuvakumar, G. Ravi, M. Isacfranklin S.I. Hong, Dhayalan Velauthapillai	Department of Physics Alagappa University	A HETEROSTRUCTURED (SmCoO ₃ /RGO) MATERIAL AND A METHOD OF MANUFACTURE THEREOF	202141008342	02-09-2022	Intellectual Property India	
26	Yuvakkumar, R., Ravi, G., V. Thirumal, SP Keerthana, Dhayalan Velauthapillai	Department of Physics Alagappa University	A METHOD OF PREPARING MXENE NANOSHEETS	406697	15-09-2022	Intellectual Property India	
27	T. Kasthuri, T.K. Swetha, S. Karutha Pandian	Department of Biotechnology Alagappa University	PHYTOCHEMICAL-BASED CLEANING COMPOSITION AND APPLICATIONS THEREOF	464747	30-09-2022	Intellectual Property India	
28	R. Yuvakkumar, G. Ravi, M. Isacfranklin, Dhayalan Velauthapillai	Department of Physics Alagappa University	AN IMPROVED ELECTRODE WITH SUPERIOR SUPERCAPACITIVE PERFORMANCES AND A METHOD OF MANUFACTURE THEREOF	465869	30-09-2022	Intellectual Property India	
29	Swetha TK, Pandian SK, Sivasankar C, Balamurugan K, Veera Ravi A, Bhaskar JP, Venkateswaran K, Deepa M, Das SS	Department of Biotechnology Alagappa University	AN ANTIBACTERIAL COMPOSITION AND IMPLEMENTATIONS THEREOF	410864	03-11-2022	Intellectual Property India	
30	Swetha TK, Pandian SK, Sivasankar C, Balamurugan K, Veera Ravi A, Bhaskar JP, Venkateswaran K, Deepa M, Das SS	Department of Biotechnology Alagappa University	A COMPOSITION COMPRISING PHYTOCHEMICALS AND APPLICATIONS THEREOF	411150	10-11-2022	Intellectual Property India	

31	A. Priya, S. Karutha Pandian	Department of Biotechnology Alagappa University	PHYTOCHEMICAL-ORAL COMPOSITION, METHOD OF PREPARING THE SAME AND APPLICATIONS THEREOF	202141019569	02-12-2022	Intellectual Property India	
32	A. Priya, N. Malligarjunan S. Muthamil, S. Karutha Pandian	Department of Biotechnology Alagappa University	SYNERGISTIC ANTIBIOFILM COMBINATION OF PHYTOCHEMICALS AND IMPLEMENTATION THEREOF	202141023944	16-12-2022	Intellectual Property India	
33	R. Jothi, S. Gowrishankar, Krishnan Ganesh Prasath, S. Karutha Pandian	Department of Biotechnology Alagappa University	ANTI-BIOFILM COMPOSITION AND METHOD OF PREPARATION THEREOF	202141026689	03-02-2023	Intellectual Property India	
34	P. Shakkthivel, A. Srinivasan	Department of Nanoscience and technology Alagappa University	AN ELECTROCHEMICALY ACTIVE MATERIAL AND IMPLEMENTATIONS THEREOF	202141033581	03-02-2023	Intellectual Property India	
35	Yuvakkumar, R., Ravi, G. et. al.	Department of Physics Alagappa University	A METHOD OF PREPARING 3D BIO-ACTIVATED PORES CARBON NANOSHEETS FROM TAMARIND FRUIT SHELLS	424526	09-03-2023	Intellectual Property India	
36	R. Yuvakkumar, G. Ravi, M. Isacfranklin, et al.	Department of Physics Alagappa University	HYDROGEN FREE METHOD OF GROWING CARBON NANOROD	429753	24-04-2023	Intellectual Property India	
37	C. Kiruthiga, K. Pandima Devi	Department of Biotechnology Alagappa University	COMPOSITION EXHIBITING ANTI-CANCER ACTIVITY, AND IMPLEMENTATIONS THEREOF	202141052384	19-05-2023	Intellectual Property India	