

BIO-DATA



Name	DR.C.Kannan
Qualification	M.Sc, Ph.D, F.N.E.S.A
Designation	Professor of Chemistry, Chairman, School of Physical Sciences, Professor and Head, Department of Pharmaceutical Chemistry (additional charge), Director, Integrated Program (additional charge).
Institution	Manonmaniam Sundaranar University, Tirunelveli.
Email And Contact Number	chellapandiankannan@gmail.com , Mobile: 9443507036, 0462-2333887 Ext: 308
Date Of Birth	03.05.1970
Gender	Male

Academic Qualifications

Degree	University	Year
M.Sc (Physical Chemistry)	University of Madras	1994
PhD (Chemistry)	Anna University	1999
F.N.E.SA	National Environmental Science Academy	2022

Experience

S.No.	Positions held	Name of the Institute	From	To
1.	Research trainee	Tamilnadu petro product limited, Chennai	1999	2001
2.	Lecturer	APA college, Tirunelveli, Tamilnadu	2001	2004
3.	Lecturer	Periyar University, Salem, Tamilnadu	2004	2008
4.	Reader	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	2008	2011
5.	Associate Professor	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	2011	2014
6.	Professor	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	2014	Till date
7.	Dean College Development Council	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	July 2011	March 2012

8.	Professor and Head	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	Feb. 2017	June 2022
9.	Research Director	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	May 2020	Oct. 2021
10.	Dean (CDC)	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	Oct. 2021	March 2023

Academic achievements

Ph.D thesis title	Aluminophosphate based molecular sieves synthesis, characterization and catalytic applications.
Teaching, Research and Industrial Experience	25years
Number of Ph.D completed	18
Ongoing Ph.D	5
M.Phil awarded	35
National & International Publications	100
Paper presented in National & International conferences	160
Book Publication title	Identification of soil, plant and water polluting organic dyes
Book publisher	LAP LAMBERT Academic Publisher, USA

TOTAL PUBLICATIONS: 100; h-index - 18, i10-index – 31, Citation - 1916

Some Important Publications

S.No	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Chellapandian Kannan, Kumarasamy Muthuraja, Murugan R. Devi	Hazardous dyes removal from aqueous solution overmesoporous aluminophosphate molecular sieves with textural porosity by adsorption	Journal of Hazardous Materials	244	10-20	2013
2.	Natesan Buvaneswari, Chellapandian Kannan	Plant toxic and non-toxic natureof organic dyes through adsorption mechanism on cellulose surface	Journal of Hazardous materials	189	294-300	2011
3.	C.Kannan, N.Buvaneswai	Plant poisoning organic dyes adsorption on tomato plant root and green carbon from aqueous solution	J.Desalination	249	1132-1138	2009
4.	Vidhya Lakshmi Gopal, Kannan Chellapandian	Synthesis of hybrid framework of tenorite and octahedrally coordinated aluminosilicate for the robust adsorption of cationic and anionic dyes	Environmental Research	220	115111	2022
5.	S. Sri Rajeswary, Chellapandiankannan	A novel template for the AlPO ₄ -Tridymite fabrication and its high catalytic activity on biodiesel synthesis at room temperature	Fuel	379	132946	2024
6.	Vidhya Lakshmi Gopal, Kannan Chellapandian	A novel integrated multiphase crystal system of Kavlite for the effective and instantaneous removal of cationic and anionic dyes	Surfaces and Interfaces	40	103113	2023
7.	Vidhya Lakshmi Gopal, Chellapandian Kannan	Room temperature fabrication of cobalt mullite for the snappy adsorption of cationic and anionic dyes	Environmental Science and Pollution Research	30	67788-67803	2023
8.	K. Karthika Devi , Chellapandiankannan	A Novel Framework Interweaving in Mesoporous AlPO ₄ and Its Function in CO ₂ Decomposition	Energy Technology	12	2300912	2024
9.	Krishnaveni.M and C.Kannan	Micelle effect on the conversion of micropore to mesoporous molecular sieves and biodiesel synthesis	New Journal of Chemistry	46	16530	2022
10.	Gowri. M, Kannan chellapandian	Synthesis of an Innovative Framework of Mesoporous Catalyst (Kangolite) by Simple Approach to Promote the Catalytic Activity for CO ₂ Decomposition	Silicon	16	1-14	2024

PATENTS

S.No	Patent Title	Patent No.	Award Date	Agency/Country	Status
1.	Switch Operator	216644	19.03.2008	Indian Patent	Granted
2.	Process for the conversion of dye molecules into Dye gas to eradicate the dye effluent pollution	299409	30.07.2018	Indian Patent	Granted

INNOVATIONS

Novel Shaving Lubricant

A new natural shaving Lubricant (water & oil) was discovered and published in all newspapers (March, 2011) for the public usage. **It prevents the grey hair formation in young age.**

Material Innovations

Material Chemical formula	Name crowned	Published in journals	Year
NiO@AS	kavlite	Surfaces and Interfaces 40 (2023) 103113	2023
CoO–AlPO ₄ -4	Kankarlite	Energy technology 2024, 2300912	2024
AlO ₆ FeSiO ₄	Kangolite	Silicon 16, 2689 – 2702 (2024)	2024

A. New Formula Invented

$$P n = RmT/(Wt)$$

It is for multi molecular catalysis for CO₂ decomposition. It is a preprint in Cambridge University Press (ChemRxiv) 16 July 2024, version 1.

B. New Mechanism

Preventing Covid -19 Spread

A Nanosized COVID – 19: Human death and asymptomatic mechanism. It is a preprint in Cambridge University Press (ChemRxiv) 16 July 2024, version 1.

C. New Hypothesis

Chemistry of Chandrayan - ii

The article “**Chemistry of Chandrayan – ii**”, is informed to ISRO that electron cloud is present in the moon’s surface which is proved by **CHANDRAYAN – III**. Journal of environmental nanotechnology, 8(3), 41- 42, 2019.

Projects completed

- i. **DRDO project**, Title: Green chemistry approach for the Synthesis of high molecular weight energetic polymer synthesis over solid acid catalyst
- ii. **UGC project**, Title: Green Chemistry approach to produce a Novel Dye gas for fuel from Organic Dye
- iii. **DBT project**, Title: Decolorization of synthetic and real textile/ paper Wastewater by the use of laccase from Pleurotus Florida (white-rot fungi): production & decolorization optimization using Response Surface Methodology
- iv. **DST Inspire project**, Title: Synthesis and Characterization of Nanoporous Solid Acid Catalysts and its Green Catalytic Applications of Carbon dioxide Decomposition

Administrative Experience: 16 years

Dean College Development Council	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	2011	2012
Professor and Head Department of chemistry	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	2017	2022
Research Director	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	2020	2021
Dean College Development Council	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	2021	2023
Professor and Head Department of pharmaceutical chemistry	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	2022	Till date
Chairman school of physical sciences	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	2023	Till date
Faculty in charge for Distance & continuing education	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	2008	2017
Director, Integrated Programme	Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu	2024	Till date

Countries Visited:

1. Malaysia,
2. China,
3. Japan,
4. Maldives.

Foreign Travel Award:

- a) Foreign Travel award was awarded by **Centre for International Co-operation in Science (CICS)** to participate the conference of International Congress of Chemistry and Environment (ICCE-2011) in Malaysia held on May-2011.
- b) Foreign Travel award was awarded by **Centre for International Co-operation in Science (CICS)** to participate the conference of ICGTCS-2014 in Hong Kong held on Oct-2014.

Professional Recognition/Award/Prize/Certificate.

Name of Award/Recognition	Awarding Agency
NESA fellowship of the year award-2021	National Environmental Science Academy, New Delhi.
Bharat Vikas Award- 2022	Institute of Self Reliance, Bhubaneswar, Odisha.
Recognition-Paper listed in Top 20 articles. The paper entitled “Environmentally stable adsorbent of tetrahedral silica and non-tetrahedral alumina for the recovery of malachite green dye from aqueous solution”, <i>Journal of Hazard Mater</i> ; 2008 Aug 30; 157(1):137-145	BioMedLib LLC, Virginia, USA
Recognition-Paper listed in Top 20 articles. The paper entitled “Adsorption of cationic and anionic organic dyes from aqueous solution using silica”, <i>Journal of Environmental science and Engineering</i> , 2010, Oct., 52(4), 361-6.	BioMedLib LLC, Virginia, USA

Best paper award in National conference on new vistas and challenges in chemistry Paper title: Kinetic and thermodynamic studies for removal of conformed on mesoporous aluminophosphate molecular sieves	Awarded by Sathyabama University, Chennai in association with Department of Science and Technology (SERB), New Delhi
Best paper award, National seminar on newer innovation in chemistry, India. Paper title: A study on distribution of natural radionuclides ^{226}Ra , ^{238}U , ^{228}Th and ^{40}K in rock samples of western ghats, Tamilnadu, India	Annai Velankanni College, Tholayavattam, Tamilnadu
Best paper award, International conference on Advanced Materials Chemistry at the Interfaces of energy, environment and medicine (AMCI-2019), Paper title: Synthesis and characterization of AlPO_4 and ZnAlPO_4 and its catalytic application on carbon dioxide decomposition.	M.S. University, Tirunelveli, Tamilnadu.
Best paper award, International conference on Advanced Materials Chemistry at the Interfaces of energy, environment and medicine (AMCI-2019), Paper title: Green approach for the synthesis of biodiesel by using solid acid catalyst.	M.S. University, Tirunelveli, Tamilnadu.
Best paper award, International conference on Advanced Materials Chemistry at the Interfaces of energy, environment and medicine (AMCI-2019), Paper title: The catalytic conversion of CO_2 on nanoporous AlSiO_4 -14 and AlSiO_4 -16 for diminishing the effect of global warming.	M.S. University, Tirunelveli, Tamilnadu.
Best paper award, International conference on Advanced Materials Chemistry at the Interfaces of energy, environment and medicine (AMCI-2020), Paper title: AlPO_4 based nanoporous solid acid synthesis, characterization and its catalytic applications for CO_2 decomposition.	M.S. University, Tirunelveli, Tamilnadu.
Junior Scientist Award, in the International Conference on “Innovation in Science and Technology for Sustainable Development, ISTSD-2023”, Paper Title: Synthesis of Hybrid H1 Type Mesoporous molecular Sieves of metal Aluminium Phosphate and its application as catalytic cracking of waste polypropylene to fuel that resembles diesel	Maharishi School of Science and Humanities, Maharishi University of Information Technology, Lucknow

Membership in scientific bodies

1. Life Member in Chemical Research Society of India
2. Life Member in National Environmental Science Academy
3. Life Member in Institute of Self Reliance

Contribution in Education and development activities

- a. Board of study member: Madurai kamaraj University, Thiruvalluvar University, Manonmaniam Sundaranar University, St. Xavier's College, Sarah Tucker college & Sadakathullah Appa College, Tirunelveli.
- b. Board of study Chairman for M.Sc chemistry, M.Sc organic chemistry, integrated M.Sc Chemistry & UG & PG chemistry in distance education of Manonmaniam Sundaranar University.
- c. Ph.D., open defense committee observer, member and chairman for M.S University, Annamalai University, Anna University, Bharathiyar University and University of Kerala.
- d. Research committee member in VIT, SRM & Kalasalingam University
- e. Organizing committee member & convener for many national and international conferences.
- f. Assistant Professor, CAS promotion & principal selection committee member of M.S University and affiliated colleges, Madurai Kamaraj University, Avinashilingam University, Coimbatore.
- g. Many Inspection commission committee member and convener for affiliated colleges
- h. Invited talk in conferences had been delivered in st.xaviers college, pope's college, pioneer kumarasamy college, st.ignatius education college, SRM University, Mahatma Gandhi University etc.,
- i. Convener of the physical verification committee for the UGC sponsored women's hostel in Sree Ayyappa College for women, Nagercoil, & Pope's college, sawyarpuram, Tuticorin district.
- j. Chief guest for the National workshop at G. Venkataswamy naidu college, Kovilpatti, A.P.A College, Nanguneri, Tirunelveli, Sadakathullah Appa College, Tirunelveli Muslim arts college, Nagercoil.
- k. Chief guest for the convocation function of vyasa college, Vasudevanallur & Infant Jesus college, nagercoil.
- l. College committee member of affiliated college such as Lakshmipuram Arts & Science College, Nagercoil, St.mary's college, tuticorin & Holy cross college Tuticorin.

Extension work / Community Service

New shaving lubricant was discovered and published in press meeting at Tirunelveli & Coimbatore for the public benefit. Many people in our country are using the technique. It will improve the country economy and protect the environment.



Signature

(DR.C.KANNAN)

