

Academic Record (starting with Bachelor's Degree):

Degree	Branch	Institution/University	Year	% marks
B.Sc.	Chemistry	University of Kerala	1990	74.5
PGDCA	Computer Science	University of Kerala	1991	63.5
M.Sc.	Chemistry	University of Calicut	1993	64
ME	Materials Science	REC Trichy	1994	68.8
Ph.D.	Chemistry	University of Calicut	2008	

Qualified JRF and Lectureship UGC/CSIR NET-93

Qualified GATE-93

Teaching Experience: Position, Organization, period

Post	Institution	Period
Assistant Professor Chemistry	MES College of Engineering, Kuttipuram	1994-1995
Assistant Professor Chemistry	MES KVM College Valanchery PG. Dept. of Polymer Chemistry	1995-2001
Assistant Professor Chemistry	Govt. College Kasaragod PG. Dept. of Chemistry	2001-2007
Assistant Professor Chemistry	College of Engineering Trivandrum	2007-2010
Associate Professor Chemistry	Government Engineering College Kozhikode	2010-2014
Associate Professor Chemistry	Govt . Arts College Thiruvananthapuram , PG. Dept. of Chemistry	2014-2015
Associate Professor Chemistry	College of Engineering Trivandrum	2015-2020
Professor of Chemistry	College of Engineering Trivandrum	2020-till date

Papers published:

S. No	Name of Authors	Title of the Paper	Name of Journal and details of Vol. no, year, page	ISSN/ ISBN No	Whether peer review

					wed , impa ct facto r if any
1	Shaise K. John, Yashida Nadir, Alessio Cascardi , M. Muhammed Arif , K. Girija	Effect of addition of nanoclay and SBR latex on fly ash-slag geopolymers mortar	Journal of Building Engineering 66 (2023) 105875	https://doi.org/10.1016/j.jobe.2023.105875	7.14
2	Renjish Vijay, VN Aju Kumar, A Sadiq, Baiju Sasidharan, M Mohammed Arif and S Rani	Parameter optimization for enhancing tribological properties of sol-gel alumina and aluminum silicate-coated aluminum alloy: Grey-Taguchi method	Special Issue: Tribological Process for Sustainable Mechanical Engineering. Proc IMechE Part E: J Process Mechanical Engineering 1-10 © IMechE 2022 Date received: 26 January 2022; accepted: 13 May 2022	DOI: 10.1177/09544089211108680	1.81
3	Pranav Prasannakumar , Sneha Edla , Ananthan D. Thampi , Muhammed Arif , Rani Santhakumari	A comparative study on the lubricant properties of chemically modified Calophyllum inophyllum oils for bio-lubricant applications	Journal of Cleaner Production, Elsevier, Volume 339, 10 March 2022, 130733	https://doi.org/10.1016/j.jclepro.2022.130733	9.29
4	Sneha Edla, Ananthan D. Thampi, Abhijith B. K. Pillai, Vishnu V. Sivan, M. Muhammed Arif, Baiju Sasidharan, Rani S.	Formulation of rice bran oil-based green cutting fluid with holy basil oil and clove oil as bio-additives	Biomass Conversion and Biorefinery, Received: 14 September 2021 / Revised: 24 November 2021 / Accepted: 27 November 2021	https://doi.org/10.1007/s13399-021-02153-x	4.98

5	Sneha Edla, Abhijith Krishna,G. V. S. Karthik, M. Muhammed Arif, S. Rani.	Potential use of transesterified vegetable oil blends as base stocks for metalworking fluids and cutting forces prediction using machine learning tool	Biomass Conversion and Biorefinery Received: 18 June 2021 / Revised: 4 September 2021 / Accepted: 12 September 2021	https://doi.org/10.1007/s13399-021-01952-6	4.98
6	Ananthan D. Thampi Abhishek R. John, S. Rani, M. Muhammed Arif	Chemical Modification and Tribological Evaluation of Pure Rice Bran Oil as Base Stocks for Biodegradable Lubricants	J. Inst. Eng. India Ser. E, published online: 24 August 2020.	DOI 10.1007/s40034-020-00174-1	Yes 1.1
7	E Sneha , S Rani and Muhammed Arif	Evaluation of lubricant properties of vegetable oils as base oil for industrial lubricant	Materials Science and Engineering 624 (2019) 012022	doi:10.1088/1757-899X/624/1/012022	Yes 1
8	Ananthan D Thampi, Abhishek R John, M Muhammed Arif and S Rani	Evaluation of the tribological properties and oxidative stability of epoxidized and ring opened products of pure rice bran oil	Proc IMech E Part J: J Engineering Tribology 1–8 IMech E 2020	DOI: 10.1177/1350650120950535	Yes 1.2
9	Sintil P. Mathew , Yashida Nadir, Muhammed Arif	Experimental study of thermal properties of concrete with partial replacement of coarse aggregate by coconut shell	Materials today: proceedings November 2019	DOI: 10.1016/j.matpr.2019.11.249	Yes 1.2
10	A.M. Sajeeb C., Sajith Babu, Muhammed Arif	Evaluation of Mechanical Properties of Natural Fiber Reinforced Melamine Urea Formaldehyde (MUF) Resin Composites	2017Materials today: December 2017 proceedings 5(2):6764-6769	DOI: 10.1016/j.matpr.201	Yes 1.3

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11	Yashida Nadir , Praveen Nagarajan , Mohammed Ameen , Muhammed Arif M	Flexural stiffness and strength enhancement of horizontally glued laminated wood beams with GFRP and CFRP composite sheets	Construction and Building Materials 112 (2016) 547–555		Yes IF 6.14
12	P R Kavitha Rani, Annette Fernandez , Annie George , Muhammed Arif ·	Synthesis, spectral characterization, molecular structure and pharmacological studies of N'-(1, 4-naphtho-quinone-2yl)sonicotinohyWdrazide	Spectrochimica Acta Part A Molecular and Biomolecular Spectroscopy Aug 2014		Yes 1.8
13	Muhammed Arif M	The Polygon Model of Rolling Friction	International Journal of Emerging Engineering Research and Technology; Volume 2, Issue 6, September 2014, PP 158-162.		Yes
14	Muhammed Arif M, Mohamed Shafi P, Subbu Raj M and Leopold Jirovetz	Composition and Antimicrobial Analysis of the essential oil Litsea laevigata Nees. (Lauracea)	Natural Products communication Vol 3 1069 -1072(2008).		Yes IF 1.2
15	Molykutty M. Kaniampady, M. Muhammed Arif. M, L. Jirovetz and P. Muhammed shafi	Essential oil composition of Gliricida sepium leaves	Indian Journal of Chemistry, Vol 46B, 1359-1360 (2006)		Yes IF 1.3
16	M.M. Arif, P.M.Shafi and Robin A. Clery	Piper betle – Composition of leaf oil in three varieties from Kerala,	Indian Perfumer 47(3):255-257(2003)		Yes 0.8
17	Leopold Jirovetz, Christane Puscmamm, Gerhard Buchbhauer, Wilhem Fleischhacker, P.Mohammed shafi and M. Muhammed Arif M	Analysis of the Essential Oil of Piper betle L. Leaves from South-India Using GC/FID, GC/MS and Oifactometry ,	Scientia Pharmazeutica (Sci Pharm.) 67,305-312(1999)		Yes IF 1.8
18	Muhammed Arif M, P. Mohammed Shafi	Investigation on Macaranga Peltata Seed oil	Proceedings on Regional seminar on Computational chemistry –Trends and strategies , TKM college of Arts and Science Oct 8 & 9 2009		Yes

19	Abhishek R John, Dr. Rani S, Dr. Mohammad Arif, E. Sneha, Renjish Vijay	A STUDY ON THE TRIBOLOGICAL PROPERTIES OF EPOXIDIZED RICE BRAN OIL	Proceedings of the 4th Kerala Technological Congress – KETCON 2019 Vol 2 Page 80		Yes
20	Renjish Vijay, Dr.Rani S, Dr.Baiju Sasidharan , Dr.Muhammed Arif , Subin S T	A REVIEW ON SOL-GEL COATING METHODS EMPLOYED TO ENHANCE TRIBOLOGICAL PROPERTIES	Proceedings of the 4th Kerala Technological Congress – KETCON 2019 Volume 6 Page 327		Yes
21	Subin S T, Dr.Rani S, Dr.Muhammed Arif Renjish Vijay1	A REVIEW ON IMPREGNATION OF POLYTETRAFLUOROETHYLENE USING ELECTROPHORETIC DEPOSITION ON CHROME COATED ALUMINIUM ALLOY	Proceedings of the 4th Kerala Technological Congress – KETCON 2019 Volume 6 Page 333		Yes
22	Lalu Uppumthara, Jyothish Abraham, Muhammed Arif M , G Venugopal and Rajkumar M.R.	Experimental investigation on effect of wettability pattern in the condensation heat transfer performance of vertical square aluminium tube	Proceedings of the 26th National and 4th International ISHMT-ASTFE Heat and Mass Transfer Conference December 17-20, 2021, IIT Madras, Chennai-600036, Tamil Nadu, India IHMTC2021-011		Yes

Patent : “A green cutting fluid emulsion composition“ Patent No 396458 date 03/08/2019 , The Patent office, Government of India .

Text books

1. “Engineering Chemistry” Dr. Muhammed Arif M, Kvitha P. Nair,and Dr Annet Farnadez, Owl Publishers. (2019) ,ISBN 978-93-85666-98-8
2. “Practical Engineering Chemistry” Muhammed Arif M., Owl Publishers(2019) ISBN No. 9789385666933