



Dr Rohinikumar Palavalasa

E-mail: pnikshith18@gmail.com

Profile URL :

<https://vidwan.inflibnet.ac.in/profile/183853>

Orcid Id: 0000-0001-6741-8143

Phone: , 9666689235

Address: Guntur ,Andhra Pradesh,India - 522019

Expertise

Chemical Engineering

Fluidization and Adsorption

Work experience

1. RVR and JC College of Engineering 2006 — Present

Associate Professor
Guntur

Education

1. Ph.D - 2017

Andhra University

Honours and Awards

1. BEST PAPER AWARD - 2020

Elsevier - Materials Today Proceedings : ICMMSSE-2020

Research Project

Studies on the Removal of Trace Organics, Chlorides and Fluorides from Ground Water in Coastal Regions of Andhra Pradesh using Continuous Fixed Bed Adsorption Column

Role: PRINCIPLE INVESTIGATOR

Year 2017, Amount 2,05,000/-

Membership In Professional Bodies

1. MISTE , 2013

life member

2. IICHE, 2010

life member

Membership In Committees

1. BOS CHEMICAL ENGG DEPARTMENT, 2021

MEMBER

2. RESEARCH AND DEVELOPMENT , 2020

MEMBER

3. BOYS HOSTEL , 2020

CO-CONVENER

4. COLLEGE NEWS LETTER , 2019

MEMBER

5. EXAMINATIONS , 2014

EX-MEMBER

Patent

1. **SMART-DRE-M; BIOPOLYMER COMPOSITE BASED NANO-FIBROUS WOUND DRESSING MATERIAL.**

Inventor(s): Dr. K.Sobha, Mr. D.Pradeep, Dr. C.V.Subrahmanyam, Dr. K.Ramesh Chanra, Dr. DNVSatyanarayana, Dr. P.Rohinikumar, Smt. JIJayanthi. Sri K.Siva Prasad Rao, Smt. M.Sudheera, Dr. G.Kavitha, Assignee: RVR & JC College of Engineering Guntur 522 019, Andhra Pradesh
Published: 2020-12-11

2. **Formulation and Methods for the preparation of Herbal Medicated Transparent Soap**

Inventor(s): Dr. C.V.Subrahmanyam, Dr. K.Ramesh Chandra, Dr. D.N.V Satyanarayana, Dr.P.Rohinikumar, Smt. J.L.Jayanthi, Sri K.Siva Prasada Rao and Dr. G.Kavitha, Assignee: RVR & JC; COLLEGE OF ENGINEERING,GUNTUR, A.P. INDIA
Published: 2022-02-04

3. **Novel membrane technology for selective separation of Azeotropic mixtures in pharmaceutical manufacturing**

Inventor(s): Dr. Ch. V. Subrahmanyam, Dr. P. Rohinikumar, Mrs. J L Jayanthi, Dr. G. Kavitha, Assignee: R.V.R.& J.C. COLLEGE OF ENGINEERING, GUNTUR
Published: 2023-12-01

4. **Formulation of natural product based, economic, effective and ecofriendly low foaming cleansing liquid for soft textiles and metal surfaces**

Inventor(s): Dr. K. Sobha, Dr. M. Sudheera, Dr. Ch. V. Subrahmanyam, Dr. K. Ramesh Chandra, Dr. DNV Satyanarayana, Dr. P. Rohinikumar, Mrs. J L Jayanthi, Mr. K. SivaPrasada Rao, Dr. G. Kavitha, Assignee: Dr. K. Sobha, Dr. M. Sudheera, Dr. Ch. V. Subrahmanyam, Dr. K. Ramesh Chandra, Dr. DNV Satyanarayana, Dr. P. Rohinikumar, Mrs. J L Jayanthi, Mr. K. SivaPrasada Rao, Dr. G. Kavitha
Published: 2022-04-03

Publication

1. **Efficient Removal of Fluoride Using Sol-Gel Processed Nano Magnesium Oxide**

Lakshmi Jayanthi Juturi , Rohinikumar Palavalasa , Sneha H. Dhoria , Subbarao Jampani , Vijay Miditana , Gouthami Jalem
Chemical Methodologies, Volume 7, Year 2023, Pages 569

2. **Optimal Integration of Multiple D-SVCs for Voltage Stability Enhancement in Radial Electrical Distribution System Using Adaptive Firefly Algorithm**

P.Rohinikumar et al
International Journal of Intelligent Engineering and Systems, Volume 16, Year 2023, Pages 378-387

3. **Lead Adsorption by Fly Ash Geopolymer: Isotherm, Kinetic and Thermodynamics Studies**

Dr. Murali Pujari, Dr. Rohinikumar P, Sudharshan Reddy Manyam, Dr. Adarsh Kumar Arya
International Journal of Chemical Engineering Technology, Volume 46, Year 2023, Pages 1-7

4. **Impact of boron carbide particles and weight percentage on the mechanical and wear characterization of Al2011 alloy metal composites**

P.Rohinikumar et al.,
International Journal of ACS Omega, Volume 8, Year 2023, Pages 763-771

5. **Removal of fluorides from ground waters of coastal Andhra Pradesh in a fixed bed column by using alumina loaded nanoporous Mn-Ce oxide powder adsorbent**

Rohinikumar P.;Chandra K.S.;Prasad C.D.;Ramesh K.V.
Materials Today: Proceedings, Volume 46, Year 2021, Pages 198-201

6. **Removal of fluorides from ground waters of coastal Andhra Pradesh in a fixed bed column by using alumina loaded nanoporous Mn-Ce oxide powder adsorbent**

P Rohinikumar, K Sarath Chandra, C Durga Prasad, KV Ramesh
Materials Today: Proceedings ELSEVIER, Volume 46, Year 2020, Pages 198-201

7. **REMOVAL OF HALIDES FROM GROUND WATERS OF COASTAL ANDHRA PRADESH BY BATCH ADSORPTION**

K.V. Ramesh P. Rohinikumar ,D.U.S.L. Deepthi , M. Kusuma
INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT), Volume 8, Year 2020,
Pages 239-241

8. **Wall-to-bed mass transfer in a three-phase fluidized bed with coaxially placed string of spheres internal**

Rohini Kumar P.;Niranjana Rao B.;Venkateswarlu P.;Ramesh K.
Materials Today: Proceedings, Volume 5, Year 2018, Pages 470-476

9. **Studies on Sea Water Contamination at Visakhapatnam Sea Coast in India Due to Ganesh Idol Dissolution**

PR Kumar, B Gowthami, B Sireesha, KG Naidu, KV Ramesh
Environ Toxicol Stud J, Volume 2, Year 2018, Pages 1-3

10. **Phase Holdups in A Three-Phase Fluidized Bed in the Presence of Coaxially Placed String of Spheres Internal**

P Rohini Kumar, KV Ramesh, P Venkateswarlu
Materials Science and Engineering: IOP Conference Series, Volume 225, Year 2017, Pages 1-8

11. **Wall-to-bed mass transfer in three phase fluidized beds in the presence of angled disc promoter**

P. Rohini Kumar ., K. Ashok Kumar ., M. S. N. Murty ., K. V. Ramesh .,
Heat and Mass Transfer- SPRINGER, Volume 53, Year 2017, Pages 3129-3140

12. **Wall-to-bed mass transfer in three phase fluidized beds in the presence of**

angled disc promoter

Rohini Kumar P.;Ashok Kumar K.;Murty M.S.N.;Ramesh K.V.

Heat and Mass Transfer/Waerme- und Stoffuebertragung, Volume 53, Year 2017, Pages 3129-3140

13. An efficient method to design a series cascade controller using multi-objective optimization

Srinivas B.;Kumar P.R.;Sreenivasulu B.;Ramesh K.V.

Proceedings of the International Conference on Electronics, Communication and Aerospace Technology, ICECA 2017, Volume 2017-January, Year 2017, Pages 218-224

14. Gas holdup in a bubble column in the presence of coaxially placed string of spheres promoter as internal

Rohinikumar P.;Reddy M.G.M.;Venkateswarlu P.;Ramesh K.V.

AIP Conference Proceedings, Volume 1859, Year 2017, Pages

15. Kinetic and Thermodynamic Studies of Adsorption of Pb (II) by Using Ferrous Sulphide as an Adsorbent

Kamalakar, Dr.C.V. Subrahmanyam, P. Rohinikumar, Dr.L.Nageswara Rao

International Journal of Chemical Engineering and Processing, Volume 2, Year 2016, Pages 34-41

16. Comparative Studies of Micro Wave Oven and Tray Drying on Beetroot

D. Kamalakar, P. Rohinikumar, L. Nageswara Rao

International Journal for Innovative Research in Science & Technology (IJIRST), Volume 2, Year 2016, Pages 343-347

17. Wall-to-bulk mass transfer in cocurrentupflow bubble column with coaxially placed string of spheres

P Rohini Kumar, K Ashok Kumar, P Venkateswarlu, KV Ramesh

Am. J. Heat Mass Transfer, Volume 3, Year 2016, Pages 225-237

18. A study on electroless deposition of nickel on nano alumina powder under different sensitization conditions

D. Sameer Kumar ., K. N. S. Suman ., P. Rohini Kumar .,

International Journal of Advanced Science and Technology, Volume 97, Year 2016, Pages 59-68

19. Wall-to-Bulk mass transfer in cocurrent upflow bubble column with coaxially placed string of spheres

Kumar P.R.;Kumar K.A.;Venkateswarlu P.;Ramesh K.V.

American Journal of Heat and Mass Transfer, Volume 3, Year 2016, Pages 225-237

20. Design and Experimental Analysis of Solar Powered Distillation Unit for Purification of Sea Water

P. Rohini Kumar, Dr. L.Nageswara Rao, Mr.D. Kamalakar, Dr. M.Venkateswara Rao,

International Journal of Green and Herbal Chemistry, Volume 4, Year 2015, Pages 228-236

21. Removal of Reactive Yellow 145 Dyes from Aqueous Solution using Adsorption Technique

Dr. L.Nageswara Rao, P. Rohinikumar, Dr. M.Venkateswara Rao

World Journal of Pharmaceutical Research, Volume 4, Year 2015, Pages 387-401

22. **Drying Characteristics of Red Chillies: Mathematical Modeling and Drying Experiments**
D Kamalakar, P. Rohini Kumar, Dr. L. Nageswara Rao, Dr. M. Venkateswara Rao
International Journal of Engineering Sciences & Research Technology (IJESRT), Volume 3, Year 2014, Pages 425-437
23. **Development Of Zinc Sulphate Controlled Release Fertilizer Sand As Inert Matrix With Naphthalene Coating**
D. Kamalakar, L.Nageswara Rao, P.Rohini Kumar, Dr.M.Venkateswara Rao
Caledonian Journal of Engineering, Volume 6, Year 2010, Pages 12-26
24. **Equilibrium and kinetic studies on biosorption of zinc onto Terminalia catappa leaf powder**
N.Rakesh ,P.Kalpana ,P.Rohini Kumar ,L.N.Rao ,T.V.R.Naidu ,M.Venkateswara Rao
Environmental Science: an Indian journal, Volume 5, Year 2010, Pages 22-30
25. **Utilization of Erythrina variegata orientalis leaf powder for the removal of cadmium**
P.Rohini Kumar, M. Venkateswara Rao, N. ChittiBabu, Dr. P. V. Ravi Kumar, Dr. P. Venkateswarlu
Indian Journal of Chemical Technology, Volume 16, Year 2009, Pages 308-316
26. **Utilization of Erythrina variegata orientalis leaf powder for the removal of cadmium**
Kumar R.P.;Rao V.M.;Babu C.N.;Kumar R.P.V.;Venkateswarlu P.
Indian Journal of Chemical Technology, Volume 16, Year 2009, Pages 308-316
27. **Determination of equilibrium, kinetic and thermodynamic parameters of the batch biosorption of cadmium by erythrina variegata orientalis leaf powder**
P.Rohini Kumar, Dr. M.Venkateswara Rao, P.V.Ravi Kumar, P. Venkateswarlu
Mineral Bio-Technology MB-2007, Volume , Year 2007, Pages 156-174