



Sinhgad Technical Education Society's
Sinhgad College of Engineering
Sr. No. 44/1,
Vadgaon (Budruk) Off. Sinhgad Road, Pune

Dr. J. G. Gujar
M. Tech, Ph. D. CHEMICAL ENGINEERING
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Significant Achievement

GATE 2003 Score of 86.47 Percentile, Organized by IIT Madras

Research fellowship under TEQIP- Networking: - Awarded research fellowship under TEQIP- Networking (a World Bank assisted project) collaborated with ICT Mumbai during Ph. D work (Nov. 2005 to March.2009) at Dr.BATU, Lonere, Raigad

Best Oral Paper Presentation Prize: - Awarded with Best Oral Paper Presentation Prize in the International conference held at Dr. D.Y Patil College of Engineering and Technology Kolhapur (21-23 Oct. 2008)

Appreciation for getting a research project sanctioned under BCUD and IICHe Kolkata.

First Prize for SRUJAN 14:-Received First Prize for SRUJAN 14 an annual college magazine at Pune University (Urban Category), worked as Faculty Incharge

Second Prize for SRUJAN 18: Received Second Prize for SRUJAN 18 an annual college magazine at Pune University (Urban Category), worked as Faculty Incharge

Worked as a reviewer for Peer-reviewed Journals like Natural Product Research (Taylor & Francis Journal), Canadian Journal of Chemical Engineering (Wiley Online Library), and Journal of Experimental Pharmacology (indexed with Scopus and PubMed).

Academic Qualification

Degree	Institute Name	UniversityName	Year of Passing	Percentage	Grade	Qualification Status
PhD	Dr. Babasaheb Ambedkar Technological University Lonere	Dr. Babasaheb Ambedkar Technological University Lonere	2011	-	A	Completed
BE Chemical	Dr. D Y PatilCollege of Engineering Kolhapur	Shivaji university	2003	74.47%	First-Class with distinction	Completed
M.TECH.	Dr. Babasaheb Ambedkar Technological University Lonere	Dr. Babasaheb Ambedkar Technological University Lonere	2005	74.13%	First Class with distinction	Completed

Conference Details

Name	Venue	Date	Level	Category	Sponsored By
National level paper presentation	Lonere	29 Mar 2007 to 31 Mar 2007	National	Intra-Institutional Seminars	TEQIP

National level paper presentation	Lonere	29 Mar 2007 to 31 Mar 2007	National	Intra-Institutional Conference	TEQIP
CHEMCON-2007	Kolkatta	27 Dec 2007 to 30 Dec 2007	International	Research	TEQIP
Young Researcher's Conference	ICT Mumbai	22 Jan 2008 to 23 Jan 2008	National	Research	TEQIP
ICBENT 2008	D.Y Patil college of Engineering and Tech Kolhapur	21 Oct 2008 to 23 Oct 2008	International	Research	TEQIP
Pravara International Conference	Pravara Rural Engineering College, Loni	20 Dec 2008 to 22 Dec 2008	International	Research	TEQIP
CHEMCON-2008	Chandigrah, Punjab	27 Dec 2008 to 30 Dec 2008	International	Research	TEQIP
Chemference-2010	PVPIT Budhagon, Sangli	06 Mar 2010 to 06 Mar 2010	National	Research	Nil
CHEMCON2013	ICT Mumbai	27 Dec 2013 to 30 Dec 2013	International	Research	Nil
INNOVATION15	MES- College of Engineering, Pune	01 Jul 2015 to 01 Jul 2015	University of Pune	Research	BCUD Pune
Green Technologies for Sustainable Development (NCGTSD-2016)	SCOE Pune	11 Mar 2016 to 12 Mar 2016	University of Pune	Research	Savitribai Phule Pune University
International E-Conference RTCTT-2020	UICT, KBC NMU Jalgaon and Uttar Pradesh TTI Kanpur	24-26 Aug. 2020.	International	Research	Nil
International E-Conference RTCTT-2020	UICT, KBC NMU Jalgaon and Uttar Pradesh TTI Kanpur	24-26 Aug. 2020.	International	Research	Nil
Virtual International Conference, ASREEM 2021	Sardar Vallabhbhai National Institute of Technology, Surat	August 06 – 08, 2021.	Virtual International Conference	Research	Nil
National Level E-Conference, NECITME - 2021	SIT Lonawala	06th July 2021	National Level E-Conference	Research	Nil

Research Projects

Project name	Description	Status	Budget	Project type
Kinetic, Mass transfer & Optimization studies on extraction of Eugenol from Eugenia aromaticum (Clove) were studied. Novel extraction techniques such as MAE, EAE & UAE was studied in the present work	Kinetic, Mass transfer & Optimization studies on extraction of Eugenol from Eugenia aromaticum (Clove) were studied. Novel extraction techniques such as MAE, EAE & UAE was studied in the present work.	100	230000	Sponsored Projects

Modeling and experimental studies on Microwave and Ultrasound-assisted extraction of shikimic acid from Arjuna seed	The experiments with Ultrasound-assisted extraction and microwave assisted extraction was carried out to know the effects of the different operating parameters on percentage extraction of shikimic acid from arjuna tree. In the second part a suitable mathematical model describing the above process parameters will be and hence characterization of the design parameters will be undertaken. In the last part the optimization of the extraction process parameters will be studied.	100	50000	Sponsored Projects
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Research Papers and Journals

ISSN/ISBN No	Paper Title	Publish Date	Journal/Confe	Level	Paper Status	Authors
1383-5866	Microwave Assisted Extraction of thymol from seeds of Trachyspermum ammi (TA): Experimental and Modeling approach	2009	Separation and Purification Technology	Refereed and Indexed Journal	Accepted and Published	Jotiram Gujar, Dr. S J Wagh, Dr V G Gaikar
0008-4034	Experimental and Modeling studies on Extraction of Catechin hydrate and Epicatechin from green tea leaves	2010	Canadian Journal of Chemical Engineering	Refereed and Indexed Journal	Accepted and Published	Jotiram Gujar, Dr S Chattopadhyay, Dr S J Wagh, Dr V G Gaikar
0976-7513	Study of Engineering Principles of Extraction of Thymol from seeds of Trachyspermum ammi	2011	International Journal of advances in Chemical Engineering	Non-refereed but recognized and reputable journals and periodicals having ISBN / ISSN	Accepted and Published	Jotiram Gujar, Dr S J Wagh, Dr V G Gaikar
0975-0991	Experimental and Modeling studies on Extraction of amyris from latex of Mandar (Calotropis gigantea)	2012	Indian Journal of Chemical Technology	Refereed and Indexed Journal	Accepted and Published	Jotiram Gujar, Dr S J Wagh, Dr V G Gaikar
ISSN (online) 2349-784X	Experimental and Modeling Studies on Extraction of Eugenol from Cinnamomum Zeylanicum (Dalchini)	2016	International Journal of Science Technology & Engineering, Volume 2 Issue 11, 831-835	Refereed and Indexed Journal	Accepted and Published	Akshay Katole
ISSN No (online) 2321 0613	Study of Extraction of Tannic Acid from Emblica Officinalis Amala	2016	International Journal for Scientific Research & Development	Refereed and Indexed Journal	Accepted	Jotiram Gujar, Sanjay Chavan, Deepali Kamble

2454-1362	Recent advances in the extraction of bioactive ingredients from medicinal plants	2016	Imperial Journal of Interdisciplinary Research	Refereed and Indexed Journal	Accepted and Published	Chaudhari Utkarsh - ,Padsumbiya Divyesh -,Gujar Jotiram G.
2349 - 784X	Application of Nano filtration for the Rejection of Chromium Ions from Synthetic Wastewater	2018	International Journal of Science Technology & Engineering	Refereed and Indexed Journal	Accepted and Published	Gujar Jotiram Ganpat,Butale Rupali ,Chavan Sanjay M,Patil Deepti S
2349-784X	Study of Purification & Separation of Natural Polyphenols (Gallic Acid) from Pomegranate Peel	2018	International Journal of Science Technology & Engineering	Refereed and Indexed Journal	Accepted and Published	Dronkar Mayuresh ,Gujar J. G.
2348-4470	Heat Transfer Characteristics of Rotating Cylinder with Water Impinging Jet	2019	International Journal of Advance Engineering and Research Development	Refereed and Indexed Journal	Accepted and Published	Basaragi Mithali ,Gujar J. G.,Pise Shivling
2581-5792	Feasibility Study of Solar Thermal Integration to Community Cooking Systems	2019	International Journal of Research in Engineering, Science and Management	Refereed and Indexed Journal	Accepted and Published	Sawant Vaibhvkumar ,Gujar J. G.
2581-5792	A Study of Extraction of Ferulic Acid from Bamboo Plant	2019	International Journal of Research in Engineering, Science and Management	Refereed and Indexed Journal	Accepted and Published	Sawant Aniket ,Gujar J. G.
2320-2882	Rejection Behavior of Manganese Ions From Synthetic Wastewater By Nanofiltration and Estimation of Membrane Transport Parameters	2020	International Journal of Creative Research Thoughts	Refereed and Indexed Journal	Accepted and Published	Pratiksha Patil, J G Gujar, S M Chavan
2395-0056	Upgrading Of Heavy Oil Using Nanotechnology	2020	International Research Journal of Engineering and Technology	Refereed and Indexed Journal	Accepted and Published	Pratyush Wanjari, Kashish Shah, J. G. Gujar
2229-5518	Review on Selection of Optimum Working Fluid for Organic Rankine Cycle	2021	International Journal of Scientific & Engineering Research	Refereed and Indexed Journal	Accepted and Published	Nikhil Pakhale , Sunayana Nerkar , Dr.J.G. Gujar

Various UG/PG Research Project Undertaken

Sr. No.	Title of the Project	In collaboration with	Academic Year
1	Extraction of anti-inflammatory Shikimic acid from seeds of arjuna seed	Dr. Suresh Jagtap IRSHA, Pune	2011-12
2	Experimental and Modeling studies on Ultrasound and Microwave assisted Extraction of anti-inflammatory Shikimic acid from seeds of arjuna seed	Dr. Suresh Jagtap IRSHA, Pune	2011-12
3	Extraction of anticancer polyphenols from awala fruits	Dr. Suresh Jagtap IRSHA, Pune	2012-13
4	Deep Hydrodesulphurization of turpentine	Dr. V. M. Bhandari, Scientist, NCL, Pune	2012-13
5	Manufacture of o-B-Nitopheno	Dr. Amol Kulkarni, Scientist, NCL, Pune	2012-13
6	Extraction of anti-inflammatory Vasicine from adulsa leaves	Dr. Suresh Jagtap IRSHA, Pune	2012-13
7	Biomass to biogas process up-gradation	Thermax Ltd., Pune.	2014-15
8	Simulation Of Heat Based Refrigeration System	Dr. Nilesh mali, Scientist NCL Pune	2017-18
9	Study of Process Modification & Design of Polyurethane Foam	Mr. Nilesh Belsane, Adient India Pvt. Ltd. Pune	2017-18
10	Process for Formation of Uniform Size Particles of Styrene	Shirish Naik Thermax Limited. Pune	2017-18
11	Simulation of Double Effect Heat Based Refrigeration System"	Dr. Nilesh Mali, Scientist NCL Pune	2018-19
12	Developing a Self-Sustainable Sewage Treatment System	Mr. Piyush Patil, Methanica Pvt. Ltd. Jalgaon	2018-19
13	Reaction Scheme Design for Production of Hydrogen by Cat g catalytic Steam Reformer	Dr. Nilesh Mali, Scientist NCL Pune	2019-20
14	Recovery of Water From Waste Stream by Membrane Technology	YCS Technologies PVT LTD.	2019-20
15	Study of Organic Rankine Cycles	Dr. Nilesh Mali, Scientist NCL Pune	2020-21
16	Study of Simulation of Batch Distillation System	Equinox Software And Services Pvt. Ltd.	2021-22

FDP/SDP/STTP/Workshop/Seminars/Summer School Organized

Sr. No.	Title of Program	Date and Duration
1	Sophisticated Analytical Instruments	Nov 8-9, 2008, 2 Days
2	Sophisticated Analytical Instruments	Feb 22-23, 2008, 2 Days
3	Sophisticated Analytical Instruments	Aug 23-24, 2007, 2 Days
4	Sophisticated Analytical Instruments	April 22-23, 2006, 2 Days

5	Recent advances in natural product extraction	Mar, 21-22, 2013, 2 Days
6	One week online FDP on Principles and applications to Sophisticated Analytical Instruments for chemical and material Sciences	July 21-25, 2020, 5 Days

FDP/SDP/STTP/Workshop/Seminars/Summer School Attended

Sr. No.	Title of Program	Date and Duration	Organization
1	Emergency trends in Industry	18-22 May 2021	KBT college of Engg. Nashik
2	Career Exploration in Pharmacy	15 May 2021	Spectrum Hi College of Pharmacy UP.
3	Citius Altius and Fortius in achieving excellence in higher educations	11 May 2021	D Y Patil College of Engineering Kolhapur
4	Intellectual Property and Entrepreneurship	7 May 2021	Poona College of Pharmacy in association with PHDCCI New Delhi
5	Stress Management in Covid Era	24 April 2021	Spectrum Hi College of Pharmacy UP.
6	IPR and Patent Process	19 March 2021	Poona College of Pharmacy in association with RGNIPM
7	Two week AICTE funded FDP on Catalysis and Reaction Engg.	18-31 Jan 2021	LIT Nagpur
8	Outcome based education and accreditation	27 Nov 2020	COEP Pune
9	Applications to fluid Dynamics and Advanced Materials	24-28 Aug. 2020	BKIT, Bhalki Karnataka
10	Nanotechnology AICTE training and learning ATAL academy	24-28 Aug. 2020	NIT Nagpur
11	Recent trends in research	19-20 Aug. 2020	Tontadarya College of Engg. Karnataka during
12	Recent advances in Nanoparticles, films and membranes	10-14 Aug. 2020	SIT Tumakuru
13	Role of teacher education in adjustment during Covid-19	30 July 2020.	AMSP college, Mumbai
14	Principle and applications to Sophisticated Analytical Instruments for chemical and material Sciences	21-25 July 2020	SCOE Pune
15	Latex training	27/04/2020 to 2/05/2020	Sinhgad College of Engg. (IIT Bombay)
16	Use of Excel skill in research	12/05/2020	University College of Engg. Kaman
17	Transform your idea into reality using 3D printing technology	15/05/2020	SCOE, Pune
18	NAAC-Systematic data organization and presentation	16/05/2020	VIT, Mumbai
19	Sustainable development in chemical processes	21/05/2020 to 23/05/2020	K KWagh College of Engg. Nashik
20	Water Proofing techniques	25/05/2020	PCCOE, Pune
21	Intellectual property rights	24/05/2020	AISSMS Pune
22	Promoting Quality Culture in Technical Institutions (FDP)	25/05/2020 to 29/05/2020	AISSMS Pune
23	Municipal solid waste management during Covid-19 Pandemic	28/05/2020 to 30/05/2020	Anurag Group of Institutes, Telangana
24	Research in Environmental Engg. (FDP)	15 /06/2020-20/06/2020	PCCOE
25	Development and impact of recent technology and innovation in Chem Engg (FDP)	21 /06/2020-25/06/2020	MGM Mumbai

26	Nano-structured Materials in Catalysis	25 th - 29 th March 2019	Department of Chemical Engineering and Engg. Sciences SCOE Pune
27	NPTEL online certification course (Transport Phenomena)	July- Oct 2017	IIT Kharagpur
28	Utilities and Automation in Chemical Process Industries	5 th to 7 th July 2017	Department of Chemical Engineering, SCOE Pune
29	Recent Trends in Chemical Sciences for Engineering	May 23-27, 2016 1 Week	Government College of Engg. Karad
30	Application of Mathematical Methods in Engineering	Feb. 5 th & 6 st 2016	Maharashtra Academy of Engineering, Alandi, Pune
31	Soft Skill Development	23 rd Feb. 2015	Department of Chemical Engineering, SCOE Pune
32	NSS workshop	Dec. 04 2015	Arts Commerce and science college Narayangaon (Pune)
33	Recent developments in Bioprocess technology and opportunities	8 June 15 to 13 June 15, 2 Weeks	KIT College of Engineering Kolhapur
34	Credit system & Semester	July 24, 2013, 1 Day	University of Pune
35	Role of Bio-Energy in Sustainable Growth	Aug. 30-31, 2 Days	Maharashtra Academy of Engineering, Alandi, Pune
36	Solutions for Current Analytical Challenges	Oct. 12, 2012, 1 Day	Waters India Pvt. Ltd, Mumbai
37	National Level Paper Competition (“PRAKALP-2012”)	Sept. 14-15, 2012, 2 Days	Department of Chemical Engineering, MAE Alandi (as a Judge)
38	Petro vision 2k12 – A national conference	Mar. 19, 2012, 1 Day	Department of Petrochemical Engineering, MIT Kothrud, Pune (as a Judge)
39	How to convert research into patent	Nov. 5 2011, 1 Day	Govt. College of Engineering Pune
40	National Level Paper Competition (“PRAKALP-2010”)	3 Sept. 2010, 1 Day	Department of Chemical Engineering, MAE Alandi (as a Judge)
41	Industry academia workshop on Simulation and modeling in process industry	June 28- 1 July 2010, 4 Days	HPCL, Petrofed & Lovraj Kumar Memorial Trust Pune
42	Application of Novel artificial intelligence and machine learning techniques for Chemical & Petrochemical Industries (DST sponsored SERC school)	28 Dec 2009- 2 Jan 2010, 1 Week	CDAC & MIT Pune
43	Mission 10X High Impact Teaching Skill and Cambridge Certification	Dec 7-11, 2009, 1 Week	Wipro India Ltd. at TKIET Warananagar
44	Chemical Plant Utilities	Dec 21-22, 2007, 2 Day	Dr. BATU Lonere & MUICT, Mumbai
45	Computer validation Seminar	Aug. 21 2007, 1 Day	Waters India Pvt. Ltd, Mumbai
46	Analytical Method Validation	Aug. 5 2007, 1 Day	Waters India Pvt. Ltd, Mumbai
47	Solutions for Pharmaceutical applications	June 4 2007, 1 Day	Waters India Pvt. Ltd, Mumbai
48	Trouble shooting and handling problems of HPLC	May 25, 2007, 1 Day	Waters India Pvt. Ltd, Mumbai
49	Energy Conservation and Audit in Chemical Process Industries	Dec 15-16, 2006, 2 Days	Dr. BATU Lonere & MUICT, Mumbai
50	Renewable Resources for Sustainable Development	May 11-12, 2006, 2 Days	Dr. BATU Lonere & MUICT, Mumbai
51	Recent advances in Environment Management	Jan 27 -28, 2006, 2 Days	Dr. BATU Lonere & MUICT, Mumbai

Ph. D. Course Work Lecture/ Expert:

- 1) Delivered expert session in one-week AICTE funded (ATAL) online FDP on “Recent Trends in Allied and Chemical Industry” organized by Govt. Polytechnic Daman, Gujarat during 21-25 June 2021.

- 2) Delivered expert lecture on “Recent advances in Natural product extraction” International E-Conference RTCTT-2020 organized jointly by the University Institute of Chemical Technology, Kavayitri Bahinabai Chaudhari NMU Jalgaon 24-26 Aug. 2020.
- 3) Delivered expert lecture on “Sophisticated Analytical Instruments (HPLC and HPTLC)” at Department of Chemical Engineering, MAE Alandi on 9th Feb 2013.
- 4) Delivered course work lectures as an expert in integrated Ph.D. course in Biotech & Chem Engg for Advanced Modeling Techniques the at the University of Pune for Sem- I (2011-12), (2012-13), (2013-14) and for Advanced transport Phenomena for Sem- II (2014-15), (2015-16), (2016-17), (2017-18) & (2018-19).
- 5) Worked as Judge for Prkalp – A national conference held at the Department of Chemical Engineering, MAE Alandi (2010-11), (2016-17), (2017-18).
- 6) Worked as Judge for Petro vision 2k12 – A national conference held at Department of Petrochemical Engineering, MIT Kothrud, Pune in (2012-13)
- 7) Worked as Judge for the National level paper presentation conference held at Department of Chemical Engg. Bharati Vidyapeeth College of Engg. Pune (Bhartiyam 2019) on 26 and 27th March 2019.
- 8) Worked as a reviewer for Peer-reviewed journals like Natural Product Research (Taylor & Francis Journal), Canadian Journal of Chemical Engineering (Wiley Online Library) and Journal of Experimental Pharmacology (indexed with Scopus and PubMed)

Membership Detail

Membership Body	Details	Duration	Level
IICHE	Life Member	24 Sep 2012 to	National

Post Held

Organization Name	Post	Organization	Appointment Status	Duration
		Category		
Dr. Babasaheb Ambedkar Technological University Lonere	Research Scholar	Government	Temporary	July 01,2006 to Dec 30,2009
Dr. Babasaheb Ambedkar Technological University Lonere	Lecturer	Government	Temporary	Apr 01,2009 to Jun 30,2009
TKIET Warananagar Kolhapur	Lecturer	Private Educational Institute	Adhoc	Jul 01,2005 to Oct 15,2005
TKIET Warananagar Kolhapur	Lecturer	EDUCATIONAL INSTITUTE	Adhoc	Aug 01,2009 to Dec 31,2009
Dr. Babasaheb Ambedkar Technological University Lonere	Teaching Assistant	Government	Temporary	Jan 01,2006 to Mar 31,2009
Sinhgad College of Engineering Pune	Sr. Lecturer	SINHGAD INSTITUTE CAMPUS	Temporary	Jan 11,2010 to Mar 31 10
Sinhgad College of Engineering Pune	Asst. Professor	SINHGAD INSTITUTE CAMPUS	Permanent	April 1, 2010 to Mar 31, 2016
Sinhgad College of Engineering Pune	Asso. Professor	SINHGAD INSTITUTE CAMPUS	Permanent	April 1, 2016 to till date

Books Published

ISBN	Title	Publisher	Publish Year
ISBN 978-81-89904-80-7	Transport Phenomena	Denett & co. Nagpur	Mar 2011

I hereby declare that all the above information furnished by me is true to the best of my knowledge.

Date : 22 Feb.-2022

Dr. J. G.Gujar