

Resume of Dr. N. V. Sastry



RATED AT TOP 2 % IN THE WORLD RANKING OF SCIENTISTS IN CHEMICAL ENGINEERING, RANK 791 WORLD WIDE OUT OF 55,677 BY STANFORD UNIV, USA SURVEY 2020 AND 2021; ONE AMONG 1594 SCIENTISTS RANKED IN INDIA AND ONE AMONG 21 FROM STATE OF GUJARAT

Impactful Contribution in Sardar Patel University

Academics: As a member and Chairman of Board of Studies in Chemistry in the university as well as several other universities in the state, lot of reforms and changes were made to the structure, syllabus and examination pattern etc in M. Sc chemistry programs with specialization in organic, physical, inorganic, analytical and industrial polymer chemistry. The recasting of the above in the light of semesterization and CBCS have been a challenging job and as a senior member guided the other colleagues for the transformation. Several courses in the subject of Physical Chemistry (both theory and practicals) have been designed in the light of UGC model curricula, CBCS template and also other competitive examinations. I have been invited as paper setter and examiner in the SET exams of Maharashtra and Gujarat and Advisor for UPSC, New Delhi. As a leader of the team, helped the university to establish a novel and innovative Center for Interdisciplinary Studies in Science and Technology (CISST) to start futuristic Programs of M. Sc. In Biomedical Science, Earth Science, Defense Science and Bioinformatics etc from A.Y. 2014. Motivation for this initiative was taken from then Hon. Chief Minister Sh. Narendra Modi sir who suggested for such programs during his visit to our university. These programs are developed with active collaboration from scientists from PRL, Ahmedabad, SAC, Ahmedabad, AIIMS, New Delhi and PSM College, Karamsad. DST, New Delhi appreciated this initiative. A philanthropist with the help from SPU Alumni donated handsomely for the construction of a separate building. Helped the Department of Pharmacy, SPU in getting the recognition for M. Pharm programs by the AICTE, new Delhi and PCI, Ahmedabad

As a Dean (in-Charge), Faculty of Engg. and Technology, Sardar Patel University, guided the members of adhoc boards for revising the syllabus at B. Arch, Bachelors in Interior Design and Urban Development. Regulations were also framed to initiate the research work in these areas. Assessment and evaluation process have been fine tuned in the light of UGC – CBCS system. M.Sc. in Applied Chemistry program was conceived and implemented from A.Y. 2019. New integrated bachelors – masters programs in applied chemistry, applied physics, materials science, electronics and applied mathematics are designed along with detailed syllabus as per the NEP - 2020

Research: Published research papers in journals of national and international repute with high impactful contribution as judged by citations and h-index. More than **3700 citations have been received with a h-index of 38**, one of the highest in this university and top five in the state of Gujarat. In recognition of this, invited as Reviewer for many reputed international and national journals to recommend papers for publication. As a nodal officer of DST – PURSE program **visualized and established a Central Instrumentation Facility housing sophisticated equipment for research to all the research scholars of this university.** The PMB of DST, New Delhi rated this as Excellent Implementation.

Created similarly a sophisticated central facility in the Department of Chemistry, as Coordinator or Chief Coordinator of UGC CAS program and also UGC - CPEPA programs respectively. These efforts resulted in quality research publications and in the improvement of h-index of our faculty & university and its standing among other top Indian universities.

Administration: Served as Prof. and Head, Department of Chemistry, Sardar Patel University for five a year period of Aug. 2016 to July 2021. Served as Coordinator of UGC CAS Program (Phases I and II), UGC – Center for Potential of Excellence in Applied Polymers and DST – FIST programs. Nominated as Govt. Nominee by the Govt. of Gujarat on the Syndicate (2006 – 2009 and 2015 to 2018), Senate (2007 – 2012 and 2012 to 2014). By virtue of this, several initiatives on the affiliation process, examination process and purchase of consumables etc were taken so that the whole exercise of academic process becomes student friendly, economical and effective.

Accreditation: As a Co-coordinator and coordinator of Internal Quality Assurance Cell (IQAC), prepared the SSR in the third cycle, led the univ. team to defend before the peer team members of NAAC, Bengaluru to win A Grade with 3.25 CGPA, the highest among state universities in Gujarat in January 2017 for the period of five years. At present I am rendering my services as Advisor (Honorary), IQAC, SPU since Decemeber 2021 and guiding the university for its fourth cycle of NAAC accreditation. SSR is accepted and peer team will be visiting during 3-5 Jan 2023.



1. General Information

Name (In Capital Letters)	Dr. NANDHIBATLA VISHWANADASAstry
Date of Birth	17/10/1959
Correspondence Address	Flat 403, Sri Krishna Paradise Apartment, Chaitanyapuri, Hyderabad – 500060, Talangana
Phone No.	Mobile no. 9824956978. Landline no. 02692-236689
Email	nvsastory_17@rediffmail.com

2. Recently Held Position

a.	Designation	Professor (Retd. 31 st October 2021) and Head of the Department (Upto 31st July 2021)
b.	Organization	Sardar Patel University (Department of Chemistry) Vallabh Vidyanagar, Gujarat
c.	Pay Level	2,05,600 in the Level 144200-218200 PML 14
d.	Period	1 st August 2016 to 31 st July 2021 (Head)
e.	Total Experience (in Years and Months)	(35 Years & 10 Months)

3. Present position

Sr. No.	Post Held	Organization	Nature of Duties
1.	Advisor (Honorary)	Internal Quality Assurance Cell (IQAC), Sardar Patel University, Vallabh Vidyanagar, Gujarat	To guide and coordinate the collection of data, its analysis for the preparation of SSR for NAAC accreditation process (fourth cycle). AISHE survey and NIRF ranking etc (Since 4 th January 2022 and upto 15 th January 2023))

4. Educational Qualifications (In Chronological order from latest to Graduation level)

Sr. No.	Qualification	University	Year	Subjects / Topic	% Achieved	Distinction etc
1.	Ph. D.	South Gujarat University, Surat, Gujarat	1986	Colloidal Behavior of Block Copolymer Solutions		
2.	M. Sc.	South Gujarat University, Surat, Gujarat	1982	Physical Chemistry	72	First class with distinction
3.	B. Sc.	Osmania University, Hyderabad	1979	Chemistry, Botony and Zoology	74	First Class



5. Administrative Experience / Posts and Responsibilities held

Sr. No.	Post	Organization / University	Duration		Experience (In Years and Months)
			From (Date)	To (Date)	
1. (a)	Head of the Department	Department of Chemistry, Sardar Patel University	1 st Aug. 2016	31 st July to 2021	5 Years
(b)	Head (In-charge and Founding)	Center for Interdisciplinary Studies in Science and Technology (CISST), Sardar Patel University	26 th August 2013	30 th June 2018	4 Years and 10 Months
2.	Director (I/C)	UGC – Human Resource Development Center, SPU	1 st January 2016	31 st March 2017	1 Year and 2 Months
3.	Coordinator	Internal Quality Assurance Cell (IQAC), Sardar Patel University	July 2015	June 2018	Three Years
4.	Co-Coordinator	Internal Quality Assurance Cell (IQAC), Sardar Patel University	July 2012	June 2015	Three Years
4.	Chairman (I/C), Board of Studies in Chemistry	Sardar Patel University	30 th July 2016	31 st July 2020	Four Years and One Month
Positions Held in Other Academic, Executive Bodies and Professional Societies					
5.	Member, Board of Studies in Chemistry	Sardar Patel University	June 2002	Oct. 2021	Nineteen Years and Four Months
	Member, Board of Studies in Chemistry (Faculty of Science)	M S University, Baroda	Sept. 2014	August 2017	Three Years
	Member, Board of Studies in Chemical Sciences	Central University of Gujarat, Gandhinagar	July 2014	June 2017	Three Years
	Member, Board of Studies in	VN South Gujarat University, Surat	May 2009	April 2012	Three Years



	Chemistry				
	Member, Board of Studies in Applied Chemistry	M S University, Baroda (Faculty of Engg. & Techn.	Sept. 2008	Aug. 2011	Three Years
	Member, Ad-Hoc Board of Studies in Interdisciplinary Sciences	Sardar Patel University	October 2012	October 2021	Nine Years
6.	Dean (In-Charge), Faculty of Engg. Technology	Sardar Patel University	15 th June 2014	31 st July 2020	Six Years and One Month
7.	Member of Academic Council	Sardar Patel University	July 2016	July 2021	Five Years
8	Member of Executive Council (Syndicate) Govt. Nominee	Sardar Patel University	August 2006 April 2015	March 2009 March 2018	Two Years and Eight Months Three years
9,	Senate member (Govt. Nominee)	Sardar Patel University	April 2013	March 2015	Two years
			April 2007	March 2012	Five Years
			Aug 2016	31 st July 2021	Five Years
10.	Fellow (Elected)	Gujarat Science Academy	2011 onwards	Till date	
11.	Vice President	The Indian Thermodynamics Society, Amritsar	2011 onwards	Till date	
12.	Executive Committee Member	Indian Council of Chemists, Agra	2012	2015	Three Years
13	Life Fellow	Indian Neutron Scattering Society , Mumbai Indian Chemical Society, Kolkata Indian Council of Chemists, Agra Indian Society for	2009 onwards 2005 onwards 2002 onwards	Till date	



	Analytical Scientists, Vadodra Chapter	2001 onwards		
	Indian Society for Surface Science and Technology, Kolkata	2003 Onwards		

6. (a) Academic / Teaching Experience & Responsibilities

Sr. No.	Post	University	Duration		Experience (In Years and Months)
			From	To	
1.	Professor in Chemistry	Sardar Patel University	Feb. 2005 to 31 st October 2021		Sixteen Years and 08 Months
2.	Reader in Polymer Chemistry	DO	Feb. 1997 to Jan. 2005		Eight Years
3.	Lecturer (SS)	DO	March 1991 to Feb. 1997		Six Years
4.	Lecturer	DO	March 1986 to Feb 1991		Five Years

(b) Participation and contribution in relevant areas in higher education

	Organization	Areas of Specialization
Resource Person	UGC HRDC, SPU UGC HRDC, Gujarat Univ. Ahmedabad	Chemistry, Quality Assurance etc.

(c) Involvement with formulation of New academic Programs

Sr. No.	Nomenclature of Innovative Academic Program	Date of Approval by Academic Council	Year of Introduction
1.	M. Sc. Applied Science	Dec. 2013	2013
2.	M. Sc. Earth science / Biomedical science / Defense science	Dec 2014	2014
3.	M. Sc Applied Chemistry	July 2019	2019
4.	Integrated Bachelors and Masters (IBM) Programs in Applied Chemistry, Applied Physics, Applied Mathematics, Statistics, Foods and Nutrition, Materials Science (As per NEP 2020 policy)	July 2021	2021



(d) Important MoUs formulated for academic collaborations:

Sr. No.	MoUs formulated	Name of agencies and departments involved	Year of MoU
1.	Center of Excellence in Biotechnology for Affordable Health	University of Turku, Finland, Tool Tech Global Engineering, Pune and S. P. University	2014
2.	Studies Relating to Medical Devices and Regulatory Issues and R and D	R&D Support Services, Inc Pennsylvania, USA and S. P. University	2015

(e) Position of Chairs:

Sr. No.	Name of Chair	Name of Agency Involved	Period of holding chair
1.	James Chair of Pure and Applied Sciences	St Francis Xavier's University, Antigonish, Canada	Three Months Jan – March 2015

7. International Academic Exposure, If any

Sr. No.	Post / Assignment	Organization / University	Area of Assignment	Duration		
				From	To	In Years and Months
1.	DAAD Fellowship (Re-invitation)	Institute for Physical and Theoretical Chemistry, Regensburg University, Regensburg, Germany	Physical Chemistry (Advanced Research)	15 th June 2010	29 th July 2010)	One month and ten days
2.	INSA – DFG Fellowship	Institute for Physical Chemistry, University of Bayreuth, Bayreuth, Germany	Physical and Colloid Chemistry (Advanced Research)	July 2003	Sept 2003	Three months
3.	DAAD Fellowship	Institute for Applied Physical Chemistry, Research Centre, Julich, Germany	Physical and Polymer Chemistry (Advanced Research)	June 1991	Sept. 1993	Two Years and Four Months



8. Scholarly Achievements

A. Contribution to Journals and Books

	Details
Books authored	Principles of Polymer Science (93), Coauthored (with Dr. P. Bahadur), 2002 and 2005, Indian Edition: Narosa Publishing House, New Delhi, India, USA Edition: CRC Press, Boca Raton, U. K. Edition: Alpha Science Publishers, Padbourne, England
Editorial Board	International Journal of Industrial Chemistry and Biotechnology International Journal of Current Physical Sciences
Peer Reviewer for	J. Chem. Eng. Data, J. Phys. Chem, J. Mol. Liquids, J. Chem. Thermodynamics, Colloids and Surfaces, J. Colloid and Interface Sci., Ind. J. Chemistry, Int. J. Biomacromolecules, Canadian J Chemistry, Chemical Thermodynamics and Thermal Analysis

B. Publications

B.1 Kindly provide list of scholarly publications in recognized professional and academic journals: Total Publications: **HUNDRED** National: **FIVE**, International: **NINTY FIVE**:
h-index 38, Total Citations: 37983, i10index: 69 (Google scholar)

Please see [Annexure I](#) for details.

C. Participation and scholarly presentations in conferences:

C1. National

Sr. No.	Duration	Title of Conference	Title of Presentation
1.	25 th – 26 th November 2013	8 th National Conference on Thermodynamics of Chemical, Biological and Environmental Systems, Bhimrao Babasaheb Ambedkar University, Lucknow	Imprints of Molecular Interactions.....Studies
2.	20 – 24 th November 2013	5 th Asian Conference on Colloid and Interface Science, North Bengal University, Darjeeling	Micro-structural and Viscoelastic Behaviour..... Solutions
3.	27 th September 2013	Wyatt User Group Meeting, Spinco Towers, Hyderabad	Amphiphilic Ionic Liquids (ALLs) – Aggregation Behavior in Aqueous Media
4.	10-12 th December 2012	7 th National Conference on Thermodynamics of Chemical, Biological and Environmental Systems Sri Venketeshwara University, Tirupati	Interactions in Ionic liquid / water mixtures, thermodynamic properties ...measurement
5.	22 nd	International Year of Chemistry,	Amphiphilic Ionic Liquids in



	December 2011	V. N. S. G. University, Surat	Aqueous Solutions: Surfactant Behavior
6.	2 nd – 4 th November 2011	6 th National Conference on Thermodynamics of Chemical and Biological Systems M. D. University, Rohtak	Amphiphilic Ionic Liquids in Aqueous Solutions: Interfacial, Thermophysical, Thermodynamic and Aggregation Behavior
7.	7-8 th January 2011	National Symposium on Recent Advances in Chemical Sciences, University of Kota, Kota	Amphiphilic Ionic Liquids as Potential Green Surfactants
8.	28-30 th September 2010	National Seminar on Membranes, Microemulsions, and Self Assembled Systems, Sikkim Manipal Institute of Technology, Manipal, Sikkim	Surfactant like ionic liquids – Synthesis, surface activity, aggregation behavior and structural features
9.	27 th March 2010	National Conferences on Chemical Sciences, School of Chemical Sciences, SRTM University, Nanded	Ionic Liquids Aqueous Systems – A Promising Class of Novel Soft Matter
10.	22- 23 rd January 2010	National Seminar on Confluence of Supramolecular Chemistry and Nanoscience, Department of Chemistry, Gujarat University, Ahmedabad	Nanoscale Micellar Structures as Potential Nanoreactors for the Synthesis of Metal Nanoparticles

CII. International

Sr. No.	Duration	Title of Conference	Title of Presentation
1.	20 th – 22 nd March 2014	Indo - German Bilateral Work Shop on Surfactants and Amphiphilic Polymers in Nanotechnology - On the way to Smarter Formulations, Panjab University, Chandigarh	Ionic Liquid Aqueous Solutions – Aggregates to Gels
2.	21 – 22 Feb. 2014	The Indo – Spanish Workshop on Solar Absorbing Refrigeration Systems Operating with Ionic Liquids, Indian Institute of Technology, Madras	Imprints of molecular interactions in room temperature ionic liquid – water mixtures – computational calculations and ATR – FTIR measurements
3.	6 - 8 th November 2011	1 st Asia - Oceania Conference on Neutron Scattering, Tsukuba, Ibaraki, Japan, Tsukuba University, Tsukuba, Tsukuba University, Tsukuba,	Aggregation Behavior of Pyridinium Based Ionic Liquids in Water – Surface Tension and Small Angle Neutron Scattering (SANS) Measurements, 1 st Asia - Oceania Conference on Neutron Scattering

D. Participation and contribution in National / International Fora in the area of your academic and professional expertise.

		Number(s)
Plenary Lectures / Invited Talks	International	03
	National	10
Papers presentations	National	28
Examiner ship / paper setting etc	National	More than 150

9. Major Research Projects

Sr. No.	Organization name	Title of the Project (Major Project)	Duration	Amount of grant in Lakhs
University Level				
1.	DST, New Delhi	DST – PURSE Program, Nodal Officer	2011-2015	700
Departmental Level				
2.	UGC, New Delhi	UGC Centre of Potential for Excellence in Applied Polymers (CPEPA),	2016-2021	700
3.	UGC, New Delhi	Centre of Advance Study (Phase – I)	2011-2016	120
4.	UGC, New Delhi	Centre of Advance Study (Phase – II)	2018-2021	160
As Principal Investigator				
5.	UGC New Delhi	Nanoaggregates in Mixed Micellar Systems of Amphiphilic Copolymer and Conventional Ionic or Nonionic Surfactants	2011 - 2014	8.92
6.	UGC – DAE, Mumbai	Studies on Aggregation Behavior of Pyridinium based Amphiphilic Ionic Liquids in Water and in Presence of Aggregate Growth Promoters	2011-2014	5.62
7.	BRNS, BARC Mumbai	Microstructures of Micelles in Mixed Systems of Amphiphilic Copolymer and Hydrocarbon Surfactants	2006 -2010	15.90
8.	CSIR, New Delhi	Exploration of Mixed Hybrid Micelles of Amphiphilic Copolymer and Hydrocarbon Surfactants as Nanoreactors for Synthesis of Nanostructured Materials and Their Property Evaluation	2005 - 2008	7.96
9.	UGC – DAE, Mumbai	Surfactant Like Ionic Liquids – Surface and Micellar Structural	2007 -2010	4.17



		Properties in Aqueous Solutions		
10.	DST, New Delhi	Novel side armed polymers as wetting and dispersing agents for resin minimal pigment concentrates	2003 - 2006	11.90
11.	IUC, Mumbai	Probing of Structural Characteristics of Silicone Surfactants in Aqueous and Non-aqueous Solutions	2003 - 2005	3.06
12.	UGC, New Delhi	Studies on solute – solvent, - cosolvent interactions in dilute solutions of di- and tri-peptides with side amino acid chains that model proteins	2001 - 2004	3.46
13.	IUC, Mumbai	Studies on Colloidal Chemical Aspects and Phase Changes of Polymeric Surfactants by Spectral Change, Ultrasonic and Small Angle Neutron Scattering Methods	1998 - 2001	2.87
14.	DST, New Delhi	Studies on volumetric, transport, ultrasonic and permittivity properties of acrylic esters with polar and nonpolar solvents	1994 - 1997	7.60
15.	UGC, New Delhi	Physico – chemical interactions of cationic polyelectrolytes at aqueous / solid interface	1994 - 1997	2.40

10. Consulting Experience: Analysis of thermal data on industrial samples

More than 1000 Samples from the industry were measured and analyzed for their thermal properties using TGA and DSC techniques

11. Honors / Awards and Fellowships for outstanding work

Sr. No.	Name of the award / Fellowship	Elected / Honorary Fellow	Awarded by	Year of Award
<ul style="list-style-type: none"> Rated at Top 2 % in the WORLD RANKING OF SCIENTISTS IN CHEMICAL ENGINEERING, RANK 791 WORLD WIDE OUT OF 55,677 BY STANFORD UNIV SURVEY 2020 AND 2021 ONE AMONG 1594 SCIENTISTS RANKED IN INDIA and ONE AMONG 21 FROM STATE OF GUJARAT 				
1.	FELLOW (Elected)	GUJARAT SCIENCE ACADEMY, AHMEDABAD		2011
2.	SUMMERFELLOWSHIP	INDIAN ACADEMY OF SCIENCES,		2001



	(MAY – JUNE 2001)	BANGALORE	
3.	INSA – DFG Fellowship	INSA, New Delhi for advance Research in Germany	2003
4.	DAAD, Germany Fellowship	DAAD, Germany	1991-1993
5.	DAAD, Germany Re-invitation Fellowship	DAAD, Germany	
5.	SHIKSHA RATTAN PURSAKAR	INDIA INTERNATIONAL FREIENDSHIP SOCIETY, NEW DELHI	2008
6.	Award of Excellence in Higher Education	The International Associations of Lions Club, District 323F1, ANAND, Region - V	September 2018

12. No. of Research Scholars Successfully guided:

Name of the Program	Awarded Nos.
Ph. D.	17

Details of Ph. D. Awarded

Sr. No.	Name of the student	Title of Thesis	Year of Award	Full / Part Time
1.	P. N. Dave	Studies on Physicochemical Interactions of Water Soluble Polymers at Solid / Liquid Interface	November 1998	Full Time
2.	M. K. Valand	Studies on Volumetric, Transport, Acoustic and Dielectric Properties of Industrially Important Acrylic esters, 1-Alcohols and Hydrocarbons	March 2000	Full Time
3.	M. C Patel	Thermophysical Properties of Some Binary and Ternary Nonelectrolyte Mixtures: Measurements and Analysis of Bulk Molecular Interactions	September 2002	Full Time
4.	J. George	Exploration of Bulk Interactions in Nonelectrolyte (Nonaqueous and Aqueous) Binary and Ternary Systems	May 2003	Full Time
5.	S. S. Soni	Surface Activity and Association Behaviour of Amphiphilic Copolymers in Aqueous Solutions	June 2003	Full Time
6..	S. H. Punjabi	Studies on Tunability of Microstructures in Mixed Systems of Amphiphilic Copolymers and Surfactants in Aqueous Solutions	Dec. 2007	Full Time

7.	R. R. Thakor	Novel Functional Polymeric Additives for High Performing Pigment Concentrates and Paints - Design, Tailoring and Evaluation	Dec. 2007	Full Time
8.	P. H. Valand	Thermophysical Studies on Aqueous Solutions Containing Amino Acids and SHORT CHAIN Peptides	Dec 2007	Full Time
9.	S. R. Patel	Experimental and theoretical investigations on complex fluid systems consisting of esters, alcohols, hydrocarbons and ethers	Jan. 2008	Full Time
10	Nilesh R Vaghela	Surfactant like ionic liquids - synthesis and studies on surfacechemical and aggregation behavior in aqueous media	March 2012	Full Time
11	AmitkumarTh ummar	Investigations on micropstructural features of amphiphilic copolymer - hydrocarbon surfactants and their applications as drug release and metal extraction systems	April 2012	Full Time
12.	Pradip Macwan	Surface active , aggregation and rheological investigations on nanoaggregates of amphiphilic ionic liquids (AIL) and AIL + sodium dodecylbenzene sulfonate mixtures in aqueous media	July 2014	Full Time
13.	Hardik M Jagatiya	Amphiphilic ionic liquids - micellar aggregates to gels	2015	Full Time
14.	IndravijayRav alji	Thermodynamic, thermophyscial, spectroscopic and computational investigations on ionic liquid mixtures with polar and nonpolar components of technological interest	2015	Full Time
15	Mukesh J Barot	Functional dispersing agents: synthesis and evaluation for resin minimal pigment concentrates and paint formulations	2015	Part Time
16	Dipak K Singh	Drug solubilizing and carrier systems based on soft matter	2017	Part Time
17	Pooja A Trivedi	Imprints of Molecular Interactions ,Thermoanalytical , Colloidal and gelation Characteristic of Salicylate Based and Precursor Ionic Liquids: A Comparative Study	2021	Full Time



13. Strength (in 100 words)

Rich experience of teaching, research and administration in the university system especially for designing the syllabus, teaching methodology, coordinating research at dept and univ level and set up sophisticated equipment facilities for Interdisciplinary research and teaching. Worked in various policy and decision making statutory bodies & committees of the university and hence is well versed with the functioning and operation of university system. Well versed in writing, presenting the proposals for grant. Expertise in preparing the university profile and report for NAAC and NIRF ranking etc.



Annexure – I

**List of Published Research Papers in Refereed Journals (Dr. N. V. Sastry) With Impact Factors
(Scopus Indexed)**

Title, authors, Journal, Vol, pp, (Year) (Impact Factor) (No. of Citations)

	All	Since 2017
Citations	3798	1067
h-index	38	17
i10-index	69	34

100. Epoxidized Cassia Fistula Seed Oil as Bio-based Plasticizer for Poly(vinyl chloride) Soft Films, Rajput, Chetan, Mukherjee, Rupa, Sastry, Nandhibatla and Chikhaliya, Navin, **ACS Applied Polymer Materials**, **4** (12), 8926-8941 (2022). (I. F. 4.855)
99. Extraction, characterization and epoxidation of Cassia fistula (Indian laburnum) seed oil: A Bio-based material, **Journal of Industrial Crops and Products**, **187:115496**, (2022) (I. F. 6.449)
98. Halogen-free COOH functionalized surface-active ionic liquids: surface activity, aggregation behavior, and antimicrobial activity, Nidhi N. Patel, Kiran Patel, Nandhibatla V. Sastry, Vaibhav K Patel, Pradip M. Macwan and Deep S. Sharma, **Journal of Dispersion Sci. and Technol.**, Accepted 21 Nov 2021, Published online: 10 Dec 2021 (I. F. 2.262)
97. Drug anion based surface active ionic liquids: Molecular interactions, surface activity and micellization behaviour in aqueous solutions, Nandhibatla V. Sastry and Pooja A. Trivedi **J. Mol. Liquids**, **336**, (2021) (I. F. 6.165).
96. Micellar catalysed hydroxylation of 1,2,3-trichloro-4,6 dinitrobenzene: Role of cationic Head group- π interaction, A. Ravani, A. Shukla, N. V. Sastry, D. O. Shah, M. K. Mishra, **J. Mol. Liquids**, **301**, 1-11 (2020) (I. F. 3.648).
95. Hybrid hydrogels systems of micelles of drug anion containing ionic liquid and biopolymers: Rheological behaviour and drug release, N. V. Sastry, D. K. Singh, P. A. Trivedi, **Colloids and Surfaces, A**, **555**, 668 – 678 (2018) (I. F. 2.829) (07)
94. Studies on micellar behaviour of PEO-PPO, or PEO-PBO-PPO copolymers or surface active ionic liquids in aqueous media and exploration of their micellar solutions for solubilization of dexamethasone and its delayed release, Nandhibatla V Sastry, Dipak K Singh, Pooja A Trivedi, **Journal of Surfactants and Detergents**, **21**, 65-79 (2018) (I. F. 1.45) (04)
93. Self organization of mixtures of sodium oleate and imidazolium based surface active ionic liquids studied by tensiometry, rheology and neutron scattering, S. Padsala, N. Dhariya, D. Ray, V. K. Aswal, N. V. Sastry and P. Bahadur, **Journal of Molecular Liquids**, **249**, 573 – 582 (2018) (I. F. 3.648) (08)
92. Different pH triggered aggregate morphologies in sodium oleate – cationic surfactants mixed systems, N. Dhariya, U. Patel, D. Ray, V. K. Aswal, N. V. Sastry and P. Bahadur, **New J Chem.**, **41**, 9142 – 9151 (2017) (I. F. 3.269) (04)
91. Amphiphilic copolymers and surface active ionic liquid systems in aqueous media – surface active and aggregation characteristics, D. K. Singh, N. V. Sastry, P. A. Trivedi, **Colloids and Surf. A**, **524**, 111 – 126 (2017) (I. F. 2.714) (09)
90. Effect of hydrocarbon surfactants on dexamethasone solubilization into silicone surfactant micelles in aqueous media and its release from agar films as carriers, N. V. Sastry, D. K. Singh, A. D. Thummar, G. Verma, P. A. Hassan, **Journal of Molecular Liquids**, **225**, 11 – 19 (2017) (I. F. 3.648). (03)



89. Surface activity, micellization, and solubilization of cationic Gemini surfactant – conventional surfactants mixed systems, U. Patel, P. Parekh, N. V. Sastry, V. K. Aswal, P. Bahadur, **Journal of Molecular Liquids**, **225**, 888 – 896 (2017). (I.F. 3.648). (14)
88. Microstructural morphologies of CTAB Micelles Modulated by Aromatic Acids, S. Padsalia, N. Dhariya, N. V. Sastry, V. K. Aswal, P. Bahadur, **RSC Adv.**, **6**, 105035 – 105045 (2016) (I. F. 3.108). (14)
87. Densities, Speeds of Sound, and Excess and Partial Excess Properties of Room Temperature Ionic Liquids of Type $[C_nPy][X]$ or $[C_n4mpy][X]$ (where $n = 6$ or 9 , $[X] = Cl^-$ or Br^-) + Water Binary Mixtures at $T = (308.15 \text{ and } 318.15) \text{ K}$, N. V. Sastry and I. R. Ravalji, **J. Chem. Eng. Data**, **61**, 3834 – 3848 (2016) (I. F. 2.323). (03)
86. Surfactant and Gelation Properties of Acetylsalicylate Based Room Temperature Ionic Liquid in Aqueous Media, Nandhibatla V. Sastry and Dipak K. Singh, **Langmuir**, **32**, 10000 – 10016 (2016) (I. F. 3.833). (16)
85. Formulation of pyridinium based RTIL –in – cyclohexane microemulsions: Investigations on size, conductivity and molecular interactions, B. Bharatiya, P. A. Hassan, N. V. Sastry, **Journal of Molecular Liquids**, **218**, 586-594 (2016). (I.F. 1.649) (13)
84. Nonelectrolyte Induced Micellar Shape Changes in Aqueous Solutions of Silicone Surfactants, S. S. Soni, R. L. Vekhariya, N. V. Sastry, H. P. Soni, S. R. Patil, S. H. Panjabi, **J. Dispersion Science and Technology**, **35**, 1419 – 1426 (2014). (I. F. 0.720) (04)
83. Mixed Micelles of Trisiloxane Based Silicone and Hydrocarbon Surfactants Systems in Aqueous Media : Dilute Aqueous Solution Phase Diagrams, Surface Tension Isotherms, Dilute Solution Viscosities, Critical Micelle Concentrations and Application of Regular Solution Theory, N. V. Sastry, Amit Thummar, Sanjay H Punjabi, **Journal of Surfactants and Detergents**, **16**, 829 – 840 (2013). (I. F. 1.545) (06)
82. Densities and partial molar volumes for water + 1-butyl- or, 1-hexyl- or, 1-octyl-3-methylimidazolium halide ionic liquids at $T = (298.15 \text{ and } 308.15) \text{ K}$, Nandhibatla V. Sastry*, Nilesh M. Vaghela and Pradip M. Macwan, **J. Mol. Liquids**, **180**, 12 – 18 (2013). (I. F. 1.649). (46)
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