Research Publications

TOTAL Citations: 680

h-Index: 16

2010 Onwards:

Published/Accepted/In-press:

11	Subrahmanya Ishwar Bhat, Uttam Kumar Das and Dr. Darshak R. Trivedi [*]	An efficient three component, one- bot synthesis of quinazolines <i>J. Heterocycl. Che</i> <i>2014, Accept</i> Manuscript, In press ree condition	
10	Madhuprasad and Dr. Darshak R. Trivedi [*]	A New receptor with Active Methylene Group as Binding Site for Extraction of Fluoride Ions from Sea Water	<i>ChemPlusChem</i> , 2014, 79, 1001-1008; Wiley-VCH Publications
09	Madhuprasad and Dr. Darshak R. Trivedi [*]	A New Colorimetric Receptor for Selective Detection of Maleate vs . Fumarate and Ratiometric Detection of F ⁻ Ions	Anal. Methods, 2014, 6 (11), 3817 - 3825 RSC Publications
08	Madhuprasad, N. Swathi, J. R. Manjunatha, Uttam Kumar Das, Prof. A. Nityananda Shetty and Dr. Darshak R. Trivedi *	Dual Colorimetric Receptor with Logic Gate Operations: Anion Induced Solvatochromism	<i>New Journal of</i> <i>Chemistry</i> , 2014, 38, 1484- 1492; RSC Publications
07	Madhuprasad and Dr. Darshak R. Trivedi [*]	Naked-eye" Detection of Inorganic Fluoride Ion in Aqueous Media Using Base Labile Proton: A Different Approach	<i>Journal of Fluorine</i> <i>Chemistry</i> , 2014, 160, 1–7; Elsevier Publications
06	Madhavi Oruganti and Dr. Darshak R. Trivedi [*]	4-Nitrobenzoic acid–sulfathiazole	Acta Cryst., 2014, E70, 085–086
05	Subrahmanya Ishwar Bhat, and Dr. Darshak R. Trivedi [*]	A highly efficient and green cascade synthesis of 3-methyl- substituted-4-hydroxy-1-methyl- quinolin-2(1H)-ones under solvent- and catalyst-free conditions	RSC Advances, 2014, 4, 11300-11304 RSC Publications
04	Subrahmanya Ishwar Bhat, and Dr. Darshak R. Trivedi [*]	Regioselective synthesis of polyfunctionalized pyrroles via solvent- and catalyst-free one pot three component protocol	<i>Tetrahedron Lett.,</i> 2013, 54, 5577-5582 <i>Elsevier Publications</i>
03	Subrahmanya Ishwar Bhat, and Dr. Darshak R. Trivedi [*]	A Facile, Solvent and Catalyst- Free Synthesis of N-Substituted - Aminobutyric Acids By Aza- Michael Addition	<i>Environ. Chem. Lett.</i> 2013, 11, 91-97
02	Subrahmanya Ishwar Bhat, Dr. Angshuman Roy Choudhury and Dr. Darshak R. Trivedi *	Condensation of malononitrile with salicylaldehydes and <i>o</i> - aminobenzaldehydes revisited: Solvent and catalyst free synthesis of 4H-chromenes and quinolines	<i>RSC Advances</i> 2012, 2, 10556–10563 RSC Publications
01	Madhuprasad, Prof. A.	'Colorimetric receptors for naked	RSC Advances, 2012, 2,

Nityananda Shetty and Dr.	eye detection of inorganic fluoride	10499–10504	RSC
Darshak R. Trivedi [*]	ion in aqueous media using ICT	Publications	
	mechanism'		

2007-2009:

04	Darshak R. Trivedi, Yuzo Fujiki, Norifumi Fujita*,	Crystal Engineering Approach to Design Colorimetric Array to Discriminate Isomers of Aromatic	254-261.
	Seiji Shinkai, and Kazuki Sada*	Organic Molecule	Wiley-VCH Publications
03	Uttam Kumar Das, Darshak R Trivedi , N. N. Adarsh and Parthasarathi Dastidar*	Supramolecular Synthons in Noncovalent Synthesis of a Class of Gelators Derived from Simple Organic Salts: Instant Gelation of Organic Fluids at Room Temperature via in Situ Synthesis of the Gelators	<i>J.Org. Chem.</i> 2009, 74, 18, 7111-7121. ACS Publications
02	Darshak R. Trivedi , Yuzo Fujiki, Yuta Goto, Norifumi Fujita*, Seiji Shinkai, and Kazuki Sada*	A Naked-Eye Colorimetric Indicator to Discriminate Aromatic Compounds by Solid-state Charge- transfer Complexation	<i>Chem. Lett.</i> 2008 37, 550- 551 CSJ Publications
01	Pathik Sahoo, D. Krishna Kumar, Darshak R. Trivedi , Parthasarathi Dastidar *	An easy access to an organometallic low molecular weight gelator: a crystal engineering approach	<i>Tetrahedron Letters</i> 2008 49, 3052–3055 Elsevier Publications

2002 - 2006:

14	Darshak R Trivedi , Parthasarathi Dastidar*	Cation Induced Supramolecular Isomerism in the Hydrogen- bonded Network of Secondary Ammonium Monocarboxylate Salts: A New Class of Organo Gelator and Their Structures	<i>Crystal Growth & Des.</i> 2006 6, 2114-2121
13	Amar Ballabh, Darshak R Trivedi , Parthasarathi Dastidar*	New Series of Organogelators Derived from a Combinatorial Library of Primaryammonium Monocarboxylate Salts	<i>Chem. Mater.</i> 2006 , 18, 3795-3800
12	Amar Ballabh, Darshak R Trivedi , Parthasarathi Dastidar*, P. K. Ghosh, Amitava Pramanik, V. G. Kumar	A practical approach to produce near spherical common salt crystals with better flow characteristics	<i>Cryst. Growth Des.</i> 2006, 6, 1591-1594.
11.	Darshak R. Trivedi and Parthasarathi Dastidar*	Supramolecular Hydrogen-bond Isomerism in Organic Salts: A Transition from 0D to 1D	<i>Cryst. Growth & Des.</i> 2006 , 6, 1022-1026
10	Amar Ballabh, Darshak R. Trivedi and Parthasarathi Dastidar*	From Nonfunctional Lamellae to Functional Nanotubes	<i>Org. Lett.</i> 2006 , 7, 1271-1274

9	Darshak R. Trivedi and Parthasarathi Dastidar*	Instant Gelation of Organic Fluids Including Petrol at Room Temperature by a New Class of Supramolecular Gelators	<i>Chem. Mater.</i> 2006, 18, 1470-1478
8	Darshak R. Trivedi and Parthasarathi Dastidar*	Non-covalent Syntheses of Supramolecular Organo Gelators	<i>Cryst. Growth & Des.</i> 2006, 6, 763-768
7	Darshak R. Trivedi , Amar Ballabh and Parthasarathi Dastidar*	Facile preparation and Structure- property Correlation of Low Molecular Mass Organic Gelators Derived from Simple Organic Salts	<i>J. Mater. Chem.</i> , 2005 , 15, 2606 - 2614
6.	Amar Ballabh, Darshak R. Trivedi , Parthasarathi. Dastidar*	Ascertaining 1D Hydrogen- bonded Network in Organic Ionic Solids	<i>Cryst. Growth & Des.</i> 2005, 5, 1545-1553
5	Darshak R. Trivedi , Amar Ballabh, Parthasarathi Dastidar* and Bishwajit Ganguly	Structure-Property Correlation of A New Family of Organogelators Based on Organic Salts and Their Selective Gelation of Oil from Oil/Water Mixtures	<i>Chem. Eur. J.</i> , 2004 , <i>10</i> , 5311-5322.
4	Darshak R. Trivedi , Amar Ballabh and Parthasarathi Dastidar*	Supramolecular Assemblies in Salts and Cocrystals of Imidazoles with Dicarboxylic Acids	<i>Cryst. Eng. Comm.</i> , 2003, 5, 358-367.
3	Darshak R. Trivedi , Amar Ballabh and Parthasarathi Dastidar*	An easy to prepare organic salt as low molecular mass organic gelator capable of selective gelation of oil from oil/water mixtures	<i>Chem. Mater.</i> , 2003 , <i>15</i> , 3971-3973 (communication).
2	Amar Ballabh, Darshak R. Trivedi and Parthasarathi Dastidar*	Structural Studies of a New Low Molecular Mass Organic Gelator for Organic Liquids Based on Simple Salt	<i>Chem. Mater.</i> 2003 , <i>15</i> , 2136-2140
1	Amar Ballabh, Darshak R. Trivedi , Parthasarathi Dastidar* and Eringathodi Suresh	Hydrogen bonded supramolecular network in organic salts: crystal structures of acid–base salts of dicarboxylic acids and amines	Cryst. Eng. Comm, 2002, 4(24), 135–142

Total number of paper presented in conferences:

Last 5 years:

Sr. No	Name of Authors	Title of Paper Presented	Name of the conference, Place &Date
08	Madhavi O. and Dr. Darshak R. Trivedi *	The Hydrogen bonding preferences of 2-Aminothiazole.	National Symposium on Recent Trends in Chemistry organized by Department of Chemistry, Pondicherry

			University, Puducherry (March 22-23, 2013)
07	Madhuprasad and Dr. Darshak R. Trivedi *	ICT based Colorimetric Receptor for F ⁻ ion and Cu ²⁺ ion with Molecular Logic Operations and Solvatochromism	International conference on Frontiers in Energy, Environment, Health & Materials Research" EEMR- 2013 held at CSIR-Institute of Minerals & Materials Technology, Bhubaneswar, Odisha (August 12-13, 2013)
06	Madhuprasad and Dr. Darshak R. Trivedi *	Colorimetric receptors for naked eye detection of inorganic fluoride ion in aqueous media	International conference on emerging trends in Chemical Sciences-13" organised by School of Chemical Sciences, Central University of Gujarat, Gandhinagar, Gujarat (March 14-15, 2013)
05	Madhuprasad and Dr. Darshak R. Trivedi *	Colorimetric receptors for the detection of F ⁻ ions and its solvatochromic effect	International conference on New Age Science and Technology for Sustainable Development & 3 rd Annual Conference of Indian JSPS Alumni Association at NEERI, Nagpur. (August 06&07, 2012)
04	Subrahmanya I. Bhat and Dr. Darshak R. Trivedi *	Microwave Assisted Knoevenagel Condensation Under Solvent and Catalyst Free Conditions.	<i>International Conference</i> on <i>Futuristic Science and</i> <i>Technology in Frontier areas</i> & 2 nd Annual Conference of <i>Indian JSPS Alumni</i> <i>Association</i> at SCTIMST, Trivandrum, Kerala (August 5 & 6 2011)
03	Madhavi O. and Dr. Darshak R. Trivedi *	Sulfanilamide Cocrystals with Carboxylic Acids	International Conference on Futuristic Science and Technology in Frontier areas & 2 nd Annual Conference of Indian JSPS Alumni Association at SCTIMST, Trivandrum, Kerala (August 5 &6 2011)
02	Madhuprasad and Dr. Darshak R. Trivedi *	Simple Amides as a Colorimetric Sensors for Rapid Detection of Fluoride Ion	International Conference on Futuristic Science and Technology in Frontier areas & 2 nd Annual Conference of

			Indian JSPS Alumni
			Association at SCTIMST,
			Trivandrum, Kerala (August
			5 &6 2011)
	Darshak R. Trivedi*	Occurrence of Unusual	XX International conference
		Supramolecular Synthon in the	on chemistry of Organic solid
01		Pharmaceutical Cocrystals of	state 26-30 June 2011 IISc,
UI		Polymorphic Active	Bangalore India
		Pharmaceutical Ingredient	
		Pyrazinamide	

From Postdoctoral & Doctoral Work:

	Darshak R. Trivedi, Yuzo	A Two-dimensional Array of	88 th Annual meeting (spring
	Fujiki, Seiji Shinkai, and	Colorimetric Probes to	Meeting) of Chemical Society
6	Kazuki Sada	Discriminate Isomers of	of JAPAN, (26-30 th March,
		Aromatic Organic Molecule	2008) Rikkyo University,
	Oral Presentation	_	Tokyo. JAPAN
	Darshak R. Trivedi, Seiji	Colorimetric Sensing Device	The post ISNA-12 (12 th
	Shinkai, and Kazuki Sada	via Formation of Solid-state	International symposium on
		Charge Transfer Complexation	novel Aromatic compounds)
5		For Polyaromatic Hydrocarbons	on Physical Organic
•			Chemistry (30-31 st July,
			2007) at KYUSHU
			University, Maidashi
			Campus, Fukuoka JAPAN
	Darshak R. Trivedi, Seiji	Design of Supramolecular	JAPAN Crystal Engineering
	Shinkai, and Kazuki Sada	colorimetric Sensing Device via	Annual Meeting 2007
4		Formation of Solid-state Charge	(6-7 th September, 2007) at
		Transfer Complexation For Toxic, environment Pollutant	CHIBA University, Tokyo JAPAN
		Organic molecules	JAFAN
	Darshak R. Trivedi, Amar	Non-covalent Syntheses Of	International Symposium on
	Ballabh, Parthasarathi	supramolecular Organo	"Organic Chemistry – Today
-	Dastidar	Gelators	and Tomorrow"(4-7 th
3			January, 2006) Indian
			Institute of Science,
			Bangalore INDIA
	Darshak R. Trivedi, Amar	Structure-Property Correlation	National Seminar on
	Ballabh <u>,</u> Parthasarathi	of New Low Molecular Mass	Polymer, Surfactants and
2	Dastidar	Organic Gelators Based on	<i>Gels</i> , (11-13 th Feb., 2005) at
		Organic Salts	M. S. University of Baroda,
			Vadodara, Gujarat (INDIA)
	Darshak R. Trivedi, Amar	Studies of New Low Molecular	XXXIII NSC (8-10, January,
1	Ballabh, Parthasarathi	Mass Organic Gelator Based	2004); N.C.L. Pune, India.
-	Dastidar	On Organic Salts And Their	
		Related Crystal Structure	

Special Publication

1	"No-stick Salt" 33 Great Ideas From Around The World	<i>Reader's Digest</i> December 2007 issue Indian Addition.
2	Nearly spherical common salt crystals	<u>Newscripts</u> Steve Ritter Chemical & Engineering News, 84(29), July 17, 2006
3	Salt That Doesn't Stick	<i>The New York Times</i> By CLIVE THOMPSON Published: December 10, 2006

Patents

List of US Patent

Sr. No	Name of Authors	Title of Patent	Patent No
1	P. Dastidar, P. K. Ghosh, Amar Ballabh, Darshak R. Trivedi , Amitava Pramanik and V. G. Kumar	Process for Production of Glycine Micronutrient- enriched NaCl Crystals with Near Spherical Shape and Improved Flow Characteristics	US Patent No: 7,220,435. Grant date 22 May 2007 PCT Int. Appl. (2005), 18 pp. CODEN: PIXXD2, WO 2005066075 A1 20050721

Sponsored Projects

Ongoing

Sr.No	Name of Project	Funding Agency	Name of Investigator(s)	Period	Funding Amount (Rs)
	Design & synthesis	DST, SERB,	Dr. Darshak R.	Jan-2014-	25.00 Lakhs
	of colorimetric	New Delhi	Trivedi	Dec-2016	
01	Chemosensors for				
	Environment				
	Pollutant Cations				
	For procurement of	FIST	Dr. Darshak R.	December	128.00 Lakhs
02	Single Crystal X-	Programme	Trivedi (co-	2010-	
02	ray Diffractometer	DST, New Delhi	coordinator) with	December	
			Prof. A.V. Adhikari	2015	

Completed

Sr.No	Name of Project	Funding Agency	Name of Investigator(s)	Period	Funding Amount (Rs)
01	NanoPorousPolymerMembraneForControlledReleaseofFertilizer	DRDO , New Delhi	Dr. Darshak R. Trivedi as Co- Investigator with Dr. Arun Isloor	July-2010 to July-2014	16.90 Lakhs
02	DesignofPharmaceutical Co-crystalsofpolymorphicdrugmoleculesbycrystalengineeringapproach to alter itsPhysical Properties	NITK Surathkal Seed money grant	Dr. Darshak R. Trivedi	August 2009- August 2011	05.00 Lakhs