

Darshak R Trivedi

List of Publications by Year in descending order

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76
papers

1,938
citations

257357

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276775

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81
docs citations

81
times ranked

1936
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-Property Correlation of a New Family of Organogelators Based on Organic Salts and Their Selective Gelation of Oil from Oil/Water Mixtures. <i>Chemistry - A European Journal</i> , 2004, 10, 5311-5322.	1.7	129
2	Instant Gelation of Various Organic Fluids Including Petrol at Room Temperature by a New Class of Supramolecular Gelators. <i>Chemistry of Materials</i> , 2006, 18, 1470-1478.	3.2	114
3	Hydrogen bonded supramolecular network in organic salts: crystal structures of acid-base salts of dicarboxylic acids and amines. <i>CrystEngComm</i> , 2002, 4, 135-142.	1.3	99
4	An Easy To Prepare Organic Salt as a Low Molecular Mass Organic Gelator Capable of Selective Gelation of Oil from Oil/Water Mixtures. <i>Chemistry of Materials</i> , 2003, 15, 3971-3973.	3.2	91
5	Supramolecular assemblies in salts and co-crystals of imidazoles with dicarboxylic acids. <i>CrystEngComm</i> , 2003, 5, 358.	1.3	74
6	Bovine serum albumin catalyzed one-pot, three-component synthesis of dihydropyrano[2,3-c]pyrazole derivatives in aqueous ethanol. <i>RSC Advances</i> , 2016, 6, 14868-14879.	1.7	69
7	New Series of Organogelators Derived from a Combinatorial Library of Primary Ammonium Monocarboxylate Salts. <i>Chemistry of Materials</i> , 2006, 18, 3795-3800.	3.2	68
8	Structural Studies of a New Low Molecular Mass Organic Gelator for Organic Liquids Based on Simple Salt. <i>Chemistry of Materials</i> , 2003, 15, 2136-2140.	3.2	67
9	Ascertaining the 1D Hydrogen-Bonded Network in Organic Ionic Solids. <i>Crystal Growth and Design</i> , 2005, 5, 1545-1553.	1.4	64
10	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>Journal of Organic Chemistry</i> , 2009, 74, 7111-7121.	1.7	53
11	A new colorimetric chemosensors for Cu ²⁺ and Cd ²⁺ ions detection: Application in environmental water samples and analytical method validation. <i>Analytica Chimica Acta</i> , 2017, 972, 81-93.	2.6	50
12	Facile preparation and structure-property correlation of low molecular mass organic gelators derived from simple organic salts. <i>Journal of Materials Chemistry</i> , 2005, 15, 2606.	6.7	43
13	Hg ²⁺ induced hydrolysis of thiazole amine based Schiff base: Colorimetric and fluorogenic chemodosimeter for Hg ²⁺ ions in an aqueous medium. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 218, 19-26.	2.0	43
14	Selective colorimetric chemosensor for the detection of Hg ²⁺ and arsenite ions using Isatin based Schiff's bases; DFT Studies and Applications in test strips. <i>Sensors and Actuators B: Chemical</i> , 2019, 284, 271-280.	4.0	43
15	Aminophenol based colorimetric chemosensor for naked-eye detection of biologically important fluoride and acetate ions in organo-aqueous medium: Effective and simple anion sensors. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 507-520.	2.0	42
16	An easy access to an organometallic low molecular weight gelator: a crystal engineering approach. <i>Tetrahedron Letters</i> , 2008, 49, 3052-3055.	0.7	41
17	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 and Design</i> , 2006, 6, 2114-2121.	1.4	38
18	Supramolecular Hydrogen Bond Isomerism in Organic Salts: A Transition from 0D to 1D. <i>Crystal Growth and Design</i> , 2006, 6, 1022-1026.	1.4	37

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19	Pharmaceutical Co-Crystal of Flufenamic Acid: Synthesis and Characterization of Two Novel Drug-Drug Co-Crystal. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 1384-1390.	1.6	37
20	A catalyst- and solvent-free three-component reaction for the regioselective one-pot access to polyfunctionalized pyrroles. <i>Tetrahedron Letters</i> , 2013, 54, 5577-5582.	0.7	29
21	Selective detection of mercury ions using benzothiazole based colorimetric chemosensor. <i>Inorganic Chemistry Communication</i> , 2016, 74, 1-5.	1.8	29
22	Salt/Cocrystal of Anti-Fibrinolytic Hemostatic Drug Tranexamic acid: Structural, DFT, and Stability Study of Salt/Cocrystal with GRAS Molecules. <i>Crystal Growth and Design</i> , 2019, 19, 347-361.	1.4	27
23	Condensation of malononitrile with salicylaldehydes and o-aminobenzaldehydes revisited: solvent and catalyst free synthesis of 4H-chromenes and quinolines. <i>RSC Advances</i> , 2012, 2, 10556.	1.7	26
24	From Nonfunctional Lamellae to Functional Nanotubes. <i>Organic Letters</i> , 2006, 8, 1271-1274.	2.4	25
25	Colorimetric receptors for naked eye detection of inorganic fluoride ion in aqueous media using ICT mechanism. <i>RSC Advances</i> , 2012, 2, 10499.	1.7	24
26	“Naked-eye” detection of inorganic fluoride ion in aqueous media using base labile proton: A different approach. <i>Journal of Fluorine Chemistry</i> , 2014, 160, 1-7.	0.9	24
27	A Practical Approach To Produce Near-Spherical Common Salt Crystals with Better Flow Characteristics. <i>Crystal Growth and Design</i> , 2006, 6, 1591-1594.	1.4	23
28	Crystal Engineering Approach To Design Colorimetric Indicator Array To Discriminate Positional Isomers of Aromatic Organic Molecules. <i>Chemistry - an Asian Journal</i> , 2009, 4, 254-261.	1.7	23
29	Multi-signaling thiocarbonylhydrazide based colorimetric sensors for the selective recognition of heavy metal ions in an aqueous medium. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 180, 175-182.	2.0	23
30	Noncovalent Syntheses of Supramolecular Organo Gelators. <i>Crystal Growth and Design</i> , 2006, 6, 763-768.	1.4	22
31	A Naked-eye Colorimetric Indicator to Discriminate Aromatic Compounds by Solid-state Charge-transfer Complexation. <i>Chemistry Letters</i> , 2008, 37, 550-551.	0.7	22
32	Cocrystals of Ethenzamide: Study of Structural and Physicochemical Properties. <i>Crystal Growth and Design</i> , 2016, 16, 4473-4481.	1.4	21
33	Colorimetric anion sensors based on positional effect of nitro group for recognition of biologically relevant anions in organic and aqueous medium, insight real-life application and DFT studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 188, 596-610.	2.0	21
34	Synthesis of cocrystals/salts of flucytosine: Structure and stability. <i>New Journal of Chemistry</i> , 2018, 42, 5433-5446.	1.4	20
35	An Efficient Three-component, One-pot Synthesis of Quinazolines under Solvent-free and Catalyst-free Condition. <i>Journal of Heterocyclic Chemistry</i> , 2015, 52, 1253-1259.	1.4	19
36	Solid-State Versatility of the Molecular Salts/Cocrystals of 2-Chloro-4-nitrobenzoic Acid: A Case Study on Halogen Bonds. <i>ACS Omega</i> , 2017, 2, 7146-7162.	1.6	19

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37	Cocrystal of nutraceutical sinapic acid with Active Pharmaceutical Ingredients ethenzamide and 2-chloro-4-Nitrobenzoic acid: Equilibrium solubility and stability study. <i>Journal of Molecular Structure</i> , 2018, 1171, 898-905.	1.8	19
38	Structural and physicochemical characterization of pyridine derivative salts of anti-inflammatory drugs. <i>Journal of Molecular Structure</i> , 2017, 1141, 64-74.	1.8	18
39	Pharmaceutical salts of ethionamide with GRAS counter ion donors to enhance the solubility. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 96, 578-589.	1.9	18
40	Hydrazinylpyridine based highly selective optical sensor for aqueous source of carbonate ions: Electrochemical and DFT studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 193, 330-337.	2.0	18
41	Dual colorimetric receptor with logic gate operations: anion induced solvatochromism. <i>New Journal of Chemistry</i> , 2014, 38, 1484.	1.4	17
42	Highly Efficient Regioselective Synthesis of 2-Imino-4-oxothiazolidin-5-ylidene Acetates via a Substitution-Dependent Cyclization Sequence under Catalyst-Free Conditions at Ambient Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9675-9682.	1.8	16
43	The hierarchies of hydrogen bonds in salts/cocrystals of isoniazid and its Schiff base – a case study. <i>RSC Advances</i> , 2016, 6, 15868-15876.	1.7	16
44	Photophysics of proton transfer in hydrazides: a combined theoretical and experimental analysis towards OLED device application. <i>New Journal of Chemistry</i> , 2019, 43, 10413-10428.	1.4	16
45	Photophysical and electrochemical properties of organic molecules: Solvatochromic effect and DFT studies. <i>Optical Materials</i> , 2018, 77, 211-220.	1.7	15
46	Design and synthesis new colorimetric receptors for naked-eye detection of biologically important fluoride and acetate anions in organic and arsenite in aqueous medium based on ICT mechanism: DFT study and test strip application. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 225, 117522.	2.0	14
47	“Naked-eye” detection of biologically important anions in aqueous media by colorimetric receptor and its real life applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 179, 95-103.	2.0	12
48	Fast and efficient synthesis of N-substituted β -aminobutyric acids by grinding at room temperature. <i>Environmental Chemistry Letters</i> , 2013, 11, 91-97.	8.3	11
49	Spectroscopic studies of colorimetric receptors for detection of biologically important inorganic F^- , AcO^- and $H_2PO_4^-$ anions in organo-aqueous medium: Real-life application. <i>Inorganic Chemistry Communication</i> , 2020, 115, 107874.	1.8	11
50	Electrooptical characteristics and anion binding behaviour of organic receptors: Effect of substitution on colorimetric response. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 673-680.	4.0	9
51	Substituent effect on colorimetric detection of biologically and environmentally relevant anions: Insight in real-life applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 219, 517-529.	2.0	9
52	Chemosensor Based on Hydrazinyl Pyridine for Selective Detection of F^- , Ion in Organic Media and CO_3^{2-} Ions in Aqueous Media: Design, Synthesis, Characterization and Practical Application. <i>ChemistrySelect</i> , 2019, 4, 14120-14131.	0.7	9
53	Identification of robust synthon in the molecular salts of 2-aminothiazole with substituted benzoic acids: A case study. <i>Journal of Chemical Sciences</i> , 2014, 126, 1291-1302.	0.7	8
54	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. <i>RSC Advances</i> , 2014, 4, 11300.	1.7	8

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55	Insights into the electrooptical anion sensing properties of a new organic receptor: solvent dependent chromogenic response and DFT studies. <i>RSC Advances</i> , 2016, 6, 74649-74653.	1.7	8
56	Design and synthesis of a new organic receptor and evaluation of colorimetric anion sensing ability in organo-aqueous medium. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 170, 29-38.	2.0	8
57	Colorimetric and fluorometric turn-on sensor for selective detection of fluoride ions: sol-gel transition studies and theoretical insights. <i>New Journal of Chemistry</i> , 2018, 42, 10406-10413.	1.4	7
58	Spectral and DFT studies of anion bound organic receptors: Time dependent studies and logic gate applications. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 222-238.	1.3	6
59	Multicoloured Thiophene Based AlEgens: Single Crystal Structure Elucidation, Spectral Behaviour and DFT Studies. <i>ChemistrySelect</i> , 2018, 3, 3803-3813.	0.7	6
60	Smart Colorimetric Chemosensors for Multi-Analyte Signaling: Recognition of Heavy Metal Ions in an Aqueous Medium and DFT Studies. <i>ChemistrySelect</i> , 2020, 5, 5289-5299.	0.7	6
61	A new colorimetric receptor for selective detection of maleate vs. fumarate and ratiometric detection of F ⁻ ions. <i>Analytical Methods</i> , 2014, 6, 3817.	1.3	5
62	Exploring the possibilities of double proton transfer in hydrazides: A theoretical approach. <i>Journal of Physical Organic Chemistry</i> , 2019, 32, e4003.	0.9	5
63	Functionalized pyrene-based AlEgens: synthesis, photophysical characterization and density functional theory studies. <i>Luminescence</i> , 2019, 34, 715-723.	1.5	5
64	Screening of chitin deacetylase producing microbes from marine source using a novel receptor on agar plate. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 716-720.	3.6	5
65	Design and synthesis of malonohydrazide based colorimetric receptors for discrimination of maleate over fumarate and detection of F ⁻ , AcO ⁻ and AsO ₂ ⁻ ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 117883.	2.0	5
66	Receptor with an Active Methylene Group as Binding Site for Extraction of Inorganic Fluoride Ions from Seawater. <i>ChemPlusChem</i> , 2014, 79, 1001-1008.	1.3	4
67	Synthesis and spectral investigation of colorimetric receptors for the dual detection of copper and acetate ions: application in molecular logic gates. <i>Supramolecular Chemistry</i> , 2017, 29, 561-574.	1.5	4
68	Electroanalytical and spectral investigation of organic receptors as colorimetric and absorption ratiometric anion chemosensor. <i>Supramolecular Chemistry</i> , 2018, 30, 103-114.	1.5	4
69	Design, Synthesis and Characterization of N-Substituted Heteroaromatics: DFT Studies and Organic Light Emitting Device Application. <i>ChemistrySelect</i> , 2020, 5, 5903-5915.	0.7	4
70	4-Nitrobenzoic acid-sulfathiazole (1/1). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, o85-o86.	0.2	3
71	Aggregation-induced emission in thiophene derivatives. <i>ISSS Journal of Micro and Smart Systems</i> , 2022, 11, 217-233.	1.0	3
72	Bithiophene based red light emitting material - Photophysical and DFT studies. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2

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73	Recent advances in the fluorescent and colorimetric detection of dihydrogen phosphate. <i>Supramolecular Chemistry</i> , 2021, 33, 408-441.	1.5	2
74	Design and Synthesis of New Bithiophene Based Planar AIE Red Light Emitters: A Detailed Theoretical and Experimental Analysis**. <i>ChemistrySelect</i> , 2022, 7, .	0.7	2
75	Chromogenic detection of fluoride, dihydrogen phosphate, and arsenite anions based on 2,4-dinitrophenyl hydrazine receptors: spectral and electrochemical study. <i>Supramolecular Chemistry</i> , 2021, 33, 534-549.	1.5	1
76	Naked-eye detection of inorganic fluoride and acetate ion in an aqueous medium using organic receptor: Real life application. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0