

Darshak R Trivedi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

1,591
citations

22
h-index

37
g-index

81
ext. papers

1,765
ext. citations

3.9
avg, IF

5.11
L-index

#	Paper	IF	Citations
73	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	1.8	1
72	Spectroscopic studies of colorimetric receptors for detection of biologically important inorganic F ⁻ and H ₂ PO ₄ ⁻ anions in organo-aqueous medium: Real-life application. <i>Inorganic Chemistry Communication</i> , 2020 , 115, 107874	3.1	8
71	Design, Synthesis and Characterization of N-Substituted Heteroaromatics: DFT-Studies and Organic Light Emitting Device Application. <i>ChemistrySelect</i> , 2020 , 5, 5903-5915	1.8	2
70	Design and synthesis of malonohydrazide based colorimetric receptors for discrimination of maleate over fumarate and detection of F ⁻ , AcO ⁻ and AsO ⁻ ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 229, 117883	4.4	1
69	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	4.4	8
68	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	3.6	6
67	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	4.4	8
66	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	7.9	3
65	Hg induced hydrolysis of thiazole amine based Schiff base: Colorimetric and fluorogenic chemodosimeter for Hg ions in an aqueous medium. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 218, 19-26	4.4	20
64	Exploring the possibilities of double proton transfer in hydrazides: A theoretical approach. <i>Journal of Physical Organic Chemistry</i> , 2019 , 32, e4003	2.1	3
63	Bithiophene based red light emitting material - Photophysical and DFT studies 2019 ,		2
62	Functionalized pyrene-based AIEgens: synthesis, photophysical characterization and density functional theory studies. <i>Luminescence</i> , 2019 , 34, 715-723	2.5	2
61	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	1.8	6
60	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	8.5	21
59	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	3.5	14
58	Synthesis of cocrystals/salts of flucytosine: Structure and stability. <i>New Journal of Chemistry</i> , 2018 , 42, 5433-5446	3.6	12
57	Multicoloured Thiophene Based AIEgens: Single Crystal Structure Elucidation, Spectral Behaviour and DFT Studies. <i>ChemistrySelect</i> , 2018 , 3, 3803-3813	1.8	4

56	Photophysical and electrochemical properties of organic molecules: Solvatochromic effect and DFT studies. <i>Optical Materials</i> , 2018 , 77, 211-220	3.3	13
55	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	4.4	13
54	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	3.4	13
53	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	3.6	4
52	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	4.7	32
51	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	4.4	12
50	Electroanalytical and spectral investigation of organic receptors as colorimetric and absorption ratiometric anion chemosensor. <i>Supramolecular Chemistry</i> , 2018 , 30, 103-114	1.8	2
49	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	4.4	6
48	'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	4.4	12
47	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	3.9	25
46	Multi-signaling thiocarbohydrazide 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	4.4	19
45	A new colorimetric chemosensors for Cu and Cd ions detection: Application in environmental water samples and analytical method validation. <i>Analytica Chimica Acta</i> , 2017 , 972, 81-93	6.6	39
44	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	1.8	3
43	Structural and physicochemical characterization of pyridine derivative salts of anti-inflammatory drugs. <i>Journal of Molecular Structure</i> , 2017 , 1141, 64-74	3.4	10
42	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	8.5	5
41	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	3.9	15
40	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	2.5	5
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	5.1	13

38	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	3.7	48
37	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	3.7	15
36	Cocrystals of Ethenzamide: Study of Structural and Physicochemical Properties. <i>Crystal Growth and Design</i> , 2016 , 16, 4473-4481	3.5	15
35	Selective detection of mercury ions using benzothiazole based colorimetric chemosensor. <i>Inorganic Chemistry Communication</i> , 2016 , 74, 1-5	3.1	20
34	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	3.7	7
33	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	3.9	13
32	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	1.9	9
31	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	2.1	22
30	A new colorimetric receptor for selective detection of maleate vs. fumarate and ratiometric detection of F ⁻ ions. <i>Analytical Methods</i> , 2014 , 6, 3817	3.2	4
29	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	3.7	6
28	Dual colorimetric receptor with logic gate operations: anion induced solvatochromism. <i>New Journal of Chemistry</i> , 2014 , 38, 1484	3.6	15
27	Receptor with an Active Methylene Group as Binding Site for Extraction of Inorganic Fluoride Ions from Seawater. <i>ChemPlusChem</i> , 2014 , 79, 1001-1008	2.8	4
26	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	1.8	8
25	4-Nitro-benzoic acid-sulfa-thia-zole (1/1). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014 , 70, o85-6		2
24	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	2	25
23	Fast and efficient synthesis of N-substituted β -aminobutyric acids by grinding at room temperature. <i>Environmental Chemistry Letters</i> , 2013 , 11, 91-97	13.3	9
22	Colorimetric receptors for naked eye detection of inorganic fluoride ion in aqueous media using ICT mechanism. <i>RSC Advances</i> , 2012 , 2, 10499	3.7	20
21	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	3.7	20

20	Crystal engineering approach to design colorimetric indicator array to discriminate positional isomers of aromatic organic molecules. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 254-61	4.5	22
19	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, 7111-21	4.2	47
18	A Naked-eye Colorimetric Indicator to Discriminate Aromatic Compounds by Solid-state Charge-transfer Complexation. <i>Chemistry Letters</i> , 2008 , 37, 550-551	1.7	18
17	An easy access to an organometallic low molecular weight gelator: a crystal engineering approach. <i>Tetrahedron Letters</i> , 2008 , 49, 3052-3055	2	38
16	Noncovalent Syntheses of Supramolecular Organo Gelators. <i>Crystal Growth and Design</i> , 2006 , 6, 763-768	3.5	22
15	A Practical Approach To Produce Near-Spherical Common Salt Crystals with Better Flow Characteristics. <i>Crystal Growth and Design</i> , 2006 , 6, 1591-1594	3.5	20
14	From nonfunctional lamellae to functional nanotubes. <i>Organic Letters</i> , 2006 , 8, 1271-4	6.2	23
13	Supramolecular Hydrogen Bond Isomerism in Organic Salts: A Transition from 0D to 1D. <i>Crystal Growth and Design</i> , 2006 , 6, 1022-1026	3.5	37
12	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	3.5	36
11	New Series of Organogelators Derived from a Combinatorial Library of Primary Ammonium Monocarboxylate Salts. <i>Chemistry of Materials</i> , 2006 , 18, 3795-3800	9.6	64
10	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	9.6	102
9	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		43
8	Ascertaining the 1D Hydrogen-Bonded Network in Organic Ionic Solids. <i>Crystal Growth and Design</i> , 2005 , 5, 1545-1553	3.5	63
7	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, 5311-22	4.8	122
6	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	9.6	64
5	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	9.6	84
4	Supramolecular assemblies in salts and co-crystals of imidazoles with dicarboxylic acids. <i>CrystEngComm</i> , 2003 , 5, 358	3.3	69
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	3.3	92

2	Aggregation-induced emission in thiophene derivatives. <i>ISSS Journal of Micro and Smart Systems</i> ,1	0.9	1
1	Recent advances in the fluorescent and colorimetric detection of dihydrogen phosphate. <i>Supramolecular Chemistry</i> ,1-34	1.8	