

Navneet Kaur

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,727
citations

361413

20
h-index

276875

41
g-index

50
all docs

50
docs citations

50
times ranked

2131
citing authors

#	ARTICLE	IF	CITATIONS
1	Colorimetric metal ion sensors – A comprehensive review of the years 2011–2016. <i>Coordination Chemistry Reviews</i> , 2018, 358, 13-69.	18.8	385
2	Chemodosimeters: An approach for detection and estimation of biologically and medically relevant metal ions, anions and thiols. <i>Coordination Chemistry Reviews</i> , 2012, 256, 1992-2028.	18.8	353
3	Absorption enhancement of oligothiophene dyes through the use of a cyanopyridone acceptor group in solution-processed organic solar cells. <i>Chemical Communications</i> , 2012, 48, 1889.	4.1	66
4	A four-directional non-fullerene acceptor based on tetraphenylethylene and diketopyrrolopyrrole functionalities for efficient photovoltaic devices with a high open-circuit voltage of 1.18 V. <i>Chemical Communications</i> , 2016, 52, 8522-8525.	4.1	65
5	A non-fullerene electron acceptor based on fluorene and diketopyrrolopyrrole building blocks for solution-processable organic solar cells with an impressive open-circuit voltage. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23837-23842.	2.8	63
6	ZnO-Based Imine-Linked Coupled Biocompatible Chemosensor for Nanomolar Detection of Co^{2+} . <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1600-1608.	6.7	54
7	Cyanomethylbenzoic Acid: An Acceptor for Donor–Acceptor Chromophores Used in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2013, 6, 256-260.	6.8	47
8	Benzimidazole-based fluorescent sensors for Cr^{3+} and their resultant complexes for sensing and FRET. <i>Tetrahedron</i> , 2012, 68, 8551-8556.	1.9	44
9	Enhanced photovoltaic efficiency via light-triggered self-assembly. <i>Chemical Communications</i> , 2013, 49, 6552.	4.1	42
10	A non-fullerene electron acceptor based on central carbazole and terminal diketopyrrolopyrrole functionalities for efficient, reproducible and solution-processable bulk-heterojunction devices. <i>RSC Advances</i> , 2016, 6, 28103-28109.	3.6	36
11	Surface decoration of ZnO nanoparticles: A new strategy to fine tune the recognition properties of imine linked receptor. <i>Sensors and Actuators B: Chemical</i> , 2012, 166-167, 467-472.	7.8	34
12	Spectral studies on anthracene based dual sensor for Hg^{2+} and Al^{3+} ions with two distinct output modes of detection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 181, 60-64.	3.9	33
13	Hg^{2+} -induced deprotonation of an anthracene-based chemosensor: set–reset flip-flop at the molecular level using Hg^{2+} and I^{-} ions. <i>New Journal of Chemistry</i> , 2015, 39, 6125-6129.	2.8	31
14	Simple naked-eye ratiometric and colorimetric receptor for anions based on azo dye featuring with benzimidazole unit. <i>Tetrahedron Letters</i> , 2015, 56, 1162-1165.	1.4	30
15	An H-shaped, small molecular non-fullerene acceptor for efficient organic solar cells with an impressive open-circuit voltage of 1.17 V. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1600-1606.	5.9	30
16	Cyanopyridone flanked the tetraphenylethylene to generate an efficient, three-dimensional small molecule non-fullerene electron acceptor. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2511-2518.	5.9	25
17	Probing anion and cation with novel salicylidene Schiff base receptor appended with 1, 10-phenanthroline: Mimicking INHIBIT molecular logic gate. <i>Inorganica Chimica Acta</i> , 2018, 480, 127-131.	2.4	25
18	Generating a three-dimensional non-fullerene electron acceptor by combining inexpensive spiro[fluorene-9,9'-xanthene] and cyanopyridone functionalities. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1090-1096.	5.9	22

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19	Small molecules containing rigidified thiophenes and a cyanopyridone acceptor unit for solution-processable bulk-heterojunction solar cells. <i>Dyes and Pigments</i> , 2015, 119, 122-132.	3.7	21
20	Cascade recognition of Hg ²⁺ and cysteine using a naphthalene based ESIPT sensor and its application in a set/reset memorized device. <i>New Journal of Chemistry</i> , 2019, 43, 436-443.	2.8	21
21	Recent development in anthracene possessing chemosensors for cations and anions. <i>Microchemical Journal</i> , 2020, 158, 105131.	4.5	21
22	A benzimidazole-based Co ³⁺ complex for electrochemical and spectroscopic recognition of I ⁻ and in semi-aqueous media. <i>Tetrahedron Letters</i> , 2013, 54, 5967-5970.	1.4	20
23	Spectral studies on benzimidazole-based "bare-eye" probe for the detection of Ni ²⁺ : Application as a solid state sensor. <i>Inorganica Chimica Acta</i> , 2017, 464, 18-22.	2.4	19
24	A Biomimetic Supramolecular Approach for Charge Transfer between Donor and Acceptor Chromophores with Aggregation-Induced Emission. <i>Chemistry - A European Journal</i> , 2018, 24, 14668-14678.	3.3	17
25	A novel, anthracene-based naked eye probe for detecting Hg ²⁺ ions in aqueous as well as solid state media. <i>Microchemical Journal</i> , 2020, 153, 104508.	4.5	17
26	Supramolecular Switches-Advanced Molecular Logic and Computation Molecular Logic Gates. <i>Current Organic Chemistry</i> , 2014, 18, 2892-2909.	1.6	17
27	Naphthalene diimide-based electron transport materials for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27170-27192.	10.3	17
28	An efficient, three-dimensional non-fullerene electron acceptor: functionalizing tetraphenylethylene with naphthalene diimides. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1231-1237.	5.9	16
29	A new multifunctional 1, 10-phenanthroline based fluorophore for anion and cation sensing. <i>Journal of Luminescence</i> , 2015, 168, 186-191.	3.1	14
30	Exploiting the INHIBIT-ESIPT mechanism for the design of fluorescent chemosensor with a large blue-shift in emission. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 335, 174-181.	3.9	14
31	1, 10-Phenanthroline based ESIPT sensor for cascade recognition of Cu ²⁺ and CN ⁻ ions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 138-142.	3.9	14
32	Multianalyte azo dye as an on-site assay kit for colorimetric detection of Hg ²⁺ ions and electrochemical sensing of Zn ²⁺ ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 229, 117869.	3.9	14
33	Colorimetric and fluorescent multi-ion recognition by Anthracene appended di-Schiff base chemosensor. <i>Inorganic Chemistry Communication</i> , 2020, 121, 108239.	3.9	12
34	"Test kit" of chromogenic and ratiometric 1,10-phenanthroline based chemosensor for the recognition of F ⁻ and CN ⁻ ions. <i>Inorganic Chemistry Communication</i> , 2019, 110, 107600.	3.9	11
35	Enhancing the efficiency of solution-processable bulk-heterojunction devices via a three-dimensional molecular architecture comprising triphenylamine and cyanopyridone. <i>Dyes and Pigments</i> , 2017, 137, 126-134.	3.7	10
36	"Switch on" fluorescent sensor for the detection of fluoride ions in solution and commercial tooth paste. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 223, 117361.	3.9	10

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37	Enhanced Capacitive Humidity Sensing Performance at Room Temperature via Hydrogen Bonding of Cyanopyridone-Based Oligothiophene Donor. <i>Chemosensors</i> , 2021, 9, 320.	3.6	10
38	Impact of self-assembly on the photovoltaic properties of a small molecule oligothiophene donor. <i>Solar Energy</i> , 2020, 195, 223-229.	6.1	7
39	Biologically significant pyrimidine appended optical sensors: An inclusive anthology of literature from 2005 to 2020. <i>Coordination Chemistry Reviews</i> , 2021, 435, 213798.	18.8	7
40	An Imidazole based probe for relay recognition of Cu ²⁺ and OH ⁻ ions leading to AND logic gate. <i>Journal of Chemical Sciences</i> , 2015, 127, 1253-1259.	1.5	6
41	Functionalization of spiro[fluorene-9,9'-xanthene] with diketopyrrolopyrrole to generate a promising, three-dimensional non-fullerene acceptor. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3209-3215.	5.9	5
42	Enhanced Photovoltaic Efficiency via Control of Self-Assembly in Cyanopyridone-Based Oligothiophene Donors. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 919-924.	4.6	5
43	Modulation in Photophysical Properties of Fluorescent Imidazole Possessing 1,10-Phenanthroline on Introduction of Ru(bipy) ₂ ²⁺ towards Cation Sensing. <i>ChemistrySelect</i> , 2017, 2, 8638-8642.	1.5	4
44	Optical and electrochemical recognition studies of anions via novel benzothiazole azo-derivative. <i>Arabian Journal of Chemistry</i> , 2020, 13, 6931-6941.	4.9	4
45	Synthesis of novel benzothiazole based fluorescent and redox-active organic nanoparticles for their application as selective and sensitive recognition of Fe ³⁺ ions. <i>Inorganic Chemistry Communication</i> , 2021, 129, 108648.	3.9	4
46	Improvement of the optoelectronic and photovoltaic properties of a cyanopyrid-2,6-dione-based donor via molecular engineering. <i>Dyes and Pigments</i> , 2019, 170, 107661.	3.7	3
47	Fluorescent water-stable quantum dots possessing benzimidazole for the recognition of bisulfate in edible materials, soap, and medicine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 424, 113652.	3.9	1
48	Uracil-Appended Fluorescent Sensor for Cu ²⁺ and Hg ²⁺ Ions: Real-Life Utilities Including Recognition of Vitamin B2 (Riboflavin) in Milk Products and Invisible Ink Applications. <i>Journal of Fluorescence</i> , 2022, 32, 1913-1919.	2.5	1
49	A Novel Di(6-aminouracil-5-yl)-arylmethane Derivative as Fluorescence Ratiometric Chemodosimeter for Mercury Detection in Aqueous Solution. <i>ChemistrySelect</i> , 2016, 1, 4229-4234.	1.5	0