

Ajit Kumar

List of Publications by Year in descending order

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36
papers

1,141
citations

430874

18
h-index

377865

34
g-index

38
all docs

38
docs citations

38
times ranked

1431
citing authors

#	ARTICLE	IF	CITATIONS
1	Pyrimidine based highly sensitive fluorescent receptor for Al ³⁺ showing dual signalling mechanism. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 4892.	2.8	219
2	Synthesis of novel amino and acetyl amino-4-methylcoumarins and evaluation of their antioxidant activity. <i>European Journal of Medicinal Chemistry</i> , 2005, 40, 413-420.	5.5	97
3	An Al ³⁺ and H ₂ PO ₄ ²⁻ /HSO ₄ ⁻ selective conformational arrest and bail to a pyrimidine-naphthalene anchored molecular switch. <i>Analyst</i> , 2013, 138, 1891.	3.5	78
4	Highly sensitive and selective naked-eye detection of Cu ²⁺ in aqueous medium by a ninhydrin-quinoxaline derivative. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 420-427.	7.8	74
5	Salicylideneimines as efficient dual channel emissive probes for Al ³⁺ : Harnessing ESIPT and ICT processes. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 650-657.	7.8	71
6	Synthesis, characterization, structural optimization using density functional theory and superoxide ion scavenging activity of some Schiff bases. <i>Journal of Molecular Structure</i> , 2008, 873, 5-16.	3.6	48
7	A Zn ²⁺ -responsive highly sensitive fluorescent probe and 1D coordination polymer based on a coumarin platform. <i>Dalton Transactions</i> , 2013, 42, 13078.	3.3	42
8	Brightening Quinolineimines by Al ³⁺ and Subsequent Quenching by PPI/PA in Aqueous Medium: Synthesis, Crystal Structures, Binding Behavior, Theoretical and Cell Imaging Studies. <i>Inorganic Chemistry</i> , 2017, 56, 3315-3323.	4.0	41
9	Uncovering the true mechanism of optical detection of HSO ₄ ⁻ in water by Schiff-base receptors – hydrolysis vs. hydrogen bonding. <i>Chemical Communications</i> , 2012, 48, 9540.	4.1	40
10	A remarkable effect of N,N-diethylamino functionality on the optoelectronic properties of a salicylimine-based probe for Al ³⁺ . <i>Dalton Transactions</i> , 2014, 43, 5831-5839.	3.3	38
11	Reversible colorimetric switching of thiophene hydrazone based on complementary IMP/INH logic functions. <i>New Journal of Chemistry</i> , 2010, 34, 1862.	2.8	34
12	A Convenient Synthesis of Some Coumarin Derivatives Using SnCl ₂ ·2H ₂ O as Catalyst. <i>Catalysis Letters</i> , 2008, 121, 118-120.	2.6	33
13	A ninhydrin based colorimetric molecular switch for Hg ²⁺ and CH ₃ COO ⁻ /F ⁻ . <i>Tetrahedron Letters</i> , 2011, 52, 6809-6813.	1.4	30
14	Naked-eye recognition of Cu ^I , Zn ^{II} and acetate ion by the first guanine-based difunctional chrominophore. <i>Talanta</i> , 2010, 81, 714-721.	5.5	28
15	A highly sensitive naphthoxazole-based cell-permeable ratiometric chemodosimeter for hydrazine. <i>RSC Advances</i> , 2016, 6, 94959-94966.	3.6	24
16	Self assembled pseudo double helix architecture and anion sensing behavior of a coumarin based ICT probe. <i>Journal of Molecular Structure</i> , 2010, 963, 228-233.	3.6	21
17	Turn-Off-Fluorescent Recognition of Cu ²⁺ and Cys in Aqueous Medium: Implementation of Molecular Logic Gate and Cell Imaging Studies. <i>Bulletin of the Chemical Society of Japan</i> , 2016, 89, 754-761.	3.2	21
18	Solvent viscosity tuned highly selective NIR and ratiometric fluorescent sensing of Fe ³⁺ by a symmetric chalcone analogue. <i>Dalton Transactions</i> , 2013, 42, 13889.	3.3	18

#	ARTICLE	IF	CITATIONS
19	A dichloro-substituted salicylimine as a bright yellow emissive probe for Al ³⁺ . Journal of Photochemistry and Photobiology A: Chemistry, 2016, 329, 69-76.	3.9	18
20	A water compatible turn-on™ optical probe for Cu ²⁺ based on a fluorescein-sugar conjugate. Sensors and Actuators B: Chemical, 2014, 196, 345-351.	7.8	17
21	A multi writable thiophene-based selective and reversible chromogenic fluoride probe with dual NH functionality. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 170, 191-197.	3.9	17
22	A reaction based chromofluorogenic turn-on probe for specific detection of fluoride over sulfide/thiols. Tetrahedron Letters, 2014, 55, 5988-5992.	1.4	16
23	A radical approach for fluorescent turn-on™ detection, differentiation and bioimaging of methanol. Organic and Biomolecular Chemistry, 2015, 13, 8822-8826.	2.8	15
24	A smart ratiometric red fluorescent chemodosimeter for fluoride based on anthraquinone nosylate. New Journal of Chemistry, 2017, 41, 5098-5104.	2.8	15
25	Al ³⁺ selective an efficient colorimetric receptor derived from 5-aminouracil. Talanta, 2010, 82, 845-849.	5.5	14
26	Efficient visualization of H ₂ S via a fluorescent probe with three electrophilic centres. Organic and Biomolecular Chemistry, 2016, 14, 3690-3694.	2.8	13
27	<i>p</i> -Nitrophenyl Triazenyl Purine: First Adenine-based Colorimetric Anion Sensor. Chemistry Letters, 2008, 37, 186-187.	1.3	11
28	Inculcating total selectivity for fluoride in pyrene based chromogenic receptors: An experimental and theoretical study. Journal of Molecular Structure, 2013, 1035, 174-182.	3.6	10
29	Colorimetric Recognition of d10 Metal Ions through an Adenine-Based ICT Probe. Bulletin of the Chemical Society of Japan, 2009, 82, 813-815.	3.2	9
30	A highly specific turn-on™ fluorescent detection of Mg ²⁺ through a xanthene based fluorescent molecular probe. RSC Advances, 2016, 6, 6724-6729.	3.6	8
31	An incisive optical recognition of monohydrogen phosphate by a fluorescein-based chemodosimeter. New Journal of Chemistry, 2020, 44, 2201-2205.	2.8	8
32	Synthesis, crystal structures and studies on Hg ²⁺ sensing by the diazo derivatives of sulfathiazole and sulfamethoxazole. Journal of Sulfur Chemistry, 2012, 33, 573-582.	2.0	7
33	Solvent-Assisted Naked Eye Sensing of Hg ²⁺ by a Chemoreceptor Derived from Diazocoupling of Sulfathiazole with Diethyl Malonate. Phosphorus, Sulfur and Silicon and the Related Elements, 2011, 186, 1820-1834.	1.6	3
34	An Optical Chemodosimeter Coumarin Nosylate for Probing Fluoride Ion: Synthesis, Crystal Structures, Photophysical and Theoretical Studies. ChemistrySelect, 2018, 3, 3444-3450.	1.5	2
35	Synthetic and spectroscopic studies of some new 2-((4-methoxyphenyl)thioxo-1,6-dihydro-1,3,5-triazinyl)amino/hydrazone-thiazolidinones. Journal of Heterocyclic Chemistry, 2008, 45, 741-744.	1.6	1
36	Cysteine driven decomposition and quenching of a fluorescent metallo-receptor: Optical detection and mechanistic insight. Inorganica Chimica Acta, 2022, 532, 120739.	2.4	0