

# Krishnendu Aich

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1659171/publications.pdf>

Version: 2024-02-01

48  
papers

2,436  
citations

172207

29  
h-index

214527

47  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2246  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Chemodosimeter for the Ratiometric Detection of Hydrazine Based on Return of ESIPT and Its Application in Live-Cell Imaging. <i>Organic Letters</i> , 2013, 15, 5412-5415.	2.4	236
2	Resonance-assisted hydrogen bonding induced nucleophilic addition to hamper ESIPT: ratiometric detection of cyanide in aqueous media. <i>Chemical Communications</i> , 2013, 49, 2912.	2.2	185
3	A red fluorescence "off-on" molecular switch for selective detection of Al <sup>3+</sup> , Fe <sup>3+</sup> and Cr <sup>3+</sup> : experimental and theoretical studies along with living cell imaging. <i>Chemical Communications</i> , 2013, 49, 10739.	2.2	170
4	Dual channel selective fluorescence detection of Al(III) and PPI in aqueous media with an "off-on" fluorescence switch which mimics molecular logic gates (INHIBIT and EXOR gates). <i>Dalton Transactions</i> , 2013, 42, 8078.	1.6	112
5	A naphthalimide-quinoline based probe for selective, fluorescence ratiometric sensing of trivalent ions. <i>RSC Advances</i> , 2013, 3, 2412.	1.7	103
6	A reaction based colorimetric as well as fluorescence "turn on" probe for the rapid detection of hydrazine. <i>RSC Advances</i> , 2014, 4, 14210.	1.7	93
7	CHEF induced highly selective and sensitive turn-on fluorogenic and colorimetric sensor for Fe <sup>3+</sup> . <i>Dalton Transactions</i> , 2013, 42, 15113.	1.6	88
8	Cd <sup>2+</sup> Triggered the FRET "ON": A New Molecular Switch for the Ratiometric Detection of Cd <sup>2+</sup> with Live-Cell Imaging and Bound X-ray Structure. <i>Inorganic Chemistry</i> , 2015, 54, 7309-7315.	1.9	88
9	A coumarin based chemodosimetric probe for ratiometric detection of hydrazine. <i>Tetrahedron Letters</i> , 2014, 55, 2695-2699.	0.7	84
10	A highly selective and sensitive probe for colorimetric and fluorogenic detection of Cd <sup>2+</sup> in aqueous media. <i>Analyst</i> , 2013, 138, 1903.	1.7	83
11	A new visible-light-excitable ICT-CHEF-mediated fluorescence "turn-on" probe for the selective detection of Cd <sup>2+</sup> in a mixed aqueous system with live-cell imaging. <i>Dalton Transactions</i> , 2015, 44, 5763-5770.	1.6	74
12	Visual and near IR (NIR) fluorescence detection of Cr <sup>3+</sup> in aqueous media via spirobenzopyran ring opening with application in logic gate and bio-imaging. <i>Dalton Transactions</i> , 2014, 43, 231-239.	1.6	64
13	ESIPT and CHEF based highly sensitive and selective ratiometric sensor for Al <sup>3+</sup> with imaging in human blood cells. <i>New Journal of Chemistry</i> , 2015, 39, 8582-8587.	1.4	59
14	Highly reactive (<math>\lt; 1\text{min}</math>) ratiometric probe for selective "naked-eye" detection of cyanide in aqueous media. <i>Tetrahedron Letters</i> , 2013, 54, 1785-1789.	0.7	58
15	Ratiometric and absolute water-soluble fluorescent tripodal zinc sensor and its application in killing human lung cancer cells. <i>Analyst</i> , 2013, 138, 4593.	1.7	57
16	A new rhodamine-coumarin Cu <sup>2+</sup> -selective colorimetric and "off-on" fluorescence probe for effective use in chemistry and bioimaging along with its bound X-ray crystal structure. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 518-525.	4.0	56
17	An ICT based highly selective and sensitive sulfur-free sensor for naked eye as well as fluorogenic detection of Hg <sup>2+</sup> in mixed aqueous media. <i>Tetrahedron Letters</i> , 2013, 54, 4620-4623.	0.7	53
18	A simple naphthalene-based colorimetric sensor selective for acetate. <i>Tetrahedron Letters</i> , 2012, 53, 4819-4823.	0.7	48

#	ARTICLE	IF	CITATIONS
19	A Triphenyl Amine-Based Solvatochromic Dye for the Selective and Ratiometric Sensing of OCl <sup>-</sup> in Human Blood Cells. Chemistry - an Asian Journal, 2015, 10, 694-700.	1.7	48
20	A new ICT and CHEF based visible light excitable fluorescent probe easily detects in vivo Zn <sup>2+</sup> . RSC Advances, 2015, 5, 31189-31194.	1.7	46
21	FRET-based fluorescence ratiometric and colorimetric sensor to discriminate Fe <sup>3+</sup> from Fe <sup>2+</sup> . New Journal of Chemistry, 2016, 40, 6414-6420.	1.4	44
22	Fluorescent chemodosimeter based on spirobenzopyran for organophosphorus nerve agent mimics (DCP). RSC Advances, 2015, 5, 28996-29001.	1.7	43
23	A rhodamine-quinoline based chemodosimeter capable of recognising endogenous OCl <sup>-</sup> in human blood cells. RSC Advances, 2014, 4, 24881-24886.	1.7	40
24	Competitive intra- and inter-molecular proton transfer in hydroxynaphthyl benzothiazole: selective ratiometric sensing of acetate. Tetrahedron Letters, 2013, 54, 4215-4220.	0.7	38
25	Colorimetric as well as dual switching fluorescence-activated chemosensors for exclusive recognition of Zn <sup>2+</sup> and HSO <sub>4</sub> <sup>-</sup> . Sensors and Actuators B: Chemical, 2017, 253, 317-325.	0.7	37
26	Exploring contribution of intermolecular interactions in supramolecular layered assembly of naphthyridine co-crystals: Insights from Hirshfeld surface analysis of their crystalline states. Journal of Molecular Structure, 2013, 1048, 157-165.	1.8	34
27	A new multi-analyte fluorogenic sensor for efficient detection of Al <sup>3+</sup> and Zn <sup>2+</sup> ions based on ESIPT and CHEF features. New Journal of Chemistry, 2018, 42, 19076-19082.	1.4	34
28	Single sensor for multiple analytes: fluorogenic detection of Al <sup>3+</sup> in aqueous media and AcO <sup>-</sup> in organic media. Supramolecular Chemistry, 2014, 26, 94-104.	1.5	33
29	A coumarin based azo-phenol ligand as efficient fluorescent OFF-ON-OFF chemosensor for sequential detection of Mg <sup>2+</sup> and F <sup>-</sup> : Application in live cell imaging and as molecular logic gate. Sensors and Actuators B: Chemical, 2017, 253, 317-325.	4.0	31
30	Carbazole-benzimidazole based dyes for acid responsive ratiometric emissive switches. New Journal of Chemistry, 2016, 40, 6907-6915.	1.4	26
31	Fabrication of a new fluorogenic probe for detection of phosgene in solution and vapor phase. Sensors and Actuators B: Chemical, 2021, 326, 128837.	4.0	25
32	Development of a new fluorescence ratiometric switch for endogenous hypochlorite detection in monocytes of diabetic subjects by dye release method. Tetrahedron Letters, 2018, 59, 1130-1135.	0.7	24
33	A new carbazole-benzothiazole based chemodosimeter for chromogenic and fluorogenic detection of CN <sup>-</sup> . Journal of Luminescence, 2018, 201, 419-426.	1.5	24
34	A fluorescent ON-OFF-ON switch for the selective and sequential detection of Hg <sup>2+</sup> and I <sup>-</sup> with applications in imaging using human AGS gastric cancer cells. Dalton Transactions, 2020, 49, 187-195.	1.6	22
35	Acridine-based Switching on Fluorescence Sensor for Cd <sup>2+</sup> Functioning in Absolute Aqueous Media. Chemistry Letters, 2012, 41, 863-865.	0.7	21
36	Triphenylamine-benzimidazole based switch offers reliable detection of organophosphorus nerve agent (DCP) both in solution and gaseous state. New Journal of Chemistry, 2017, 41, 12562-12568.	1.4	20

#	ARTICLE	IF	CITATIONS
37	A Simple Rhodamine-based Naked-eye and Fluorescence "Off-On" Sensor for Cu(II) in Aqueous Solution. <i>Chemistry Letters</i> , 2012, 41, 1600-1602.	0.7	19
38	Detection and discrimination of Zn <sup>2+</sup> and Hg <sup>2+</sup> using a single molecular fluorescent probe. <i>New Journal of Chemistry</i> , 2018, 42, 8646-8652.	1.4	18
39	Facile detection of organophosphorus nerve agent mimic (DCP) through a new quinoline-based ratiometric switch. <i>New Journal of Chemistry</i> , 2019, 43, 8627-8633.	1.4	18
40	An ESIPT based chromogenic and fluorescent ratiometric probe for Zn <sup>2+</sup> with imaging in live cells and tissues. <i>New Journal of Chemistry</i> , 2019, 43, 1857-1863.	1.4	17
41	A novel sensor to estimate the prevalence of hypochlorous (HOCl) toxicity in individuals with type 2 diabetes and dyslipidemia. <i>Clinica Chimica Acta</i> , 2016, 458, 144-153.	0.5	16
42	Solvent-Dependent Nanostructures Based on Active "Aggregation Induced Emission Enhancement of New Carbazole Derivatives of Triphenylacrylonitrile. <i>Chemistry - A European Journal</i> , 2019, 25, 4856-4863.	1.7	15
43	Two New Quinoline-Benzothiazole Blended "Off-On" Type Fluorescent Probes Exclusively Detect Cd <sup>2+</sup> . <i>ChemistrySelect</i> , 2019, 4, 8068-8073.	0.7	9
44	A simple coumarin based "fluorescent On" probe for the selective detection of Al <sup>3+</sup> along with its application in live cell imaging via AGS cell line. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 390, 112294.	2.0	9
45	A naphthyridine based macrocyclic "switching on" fluorescent receptor for cadmium. <i>Journal of Luminescence</i> , 2011, 131, 2185-2188.	1.5	8
46	Simple fabrication of a carbaldehyde based fluorescent "turn-on" probe for the selective and sole detection of Pd <sup>2+</sup> : application as test strips. <i>New Journal of Chemistry</i> , 2019, 43, 16915-16920.	1.4	5
47	Ethyl 2-[(2-oxo-2H-chromen-7-yl)oxy]acetate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o502-o502.	0.2	1
48	7-Hydroxymethyl-2-pivaloylamino-1,8-naphthyridine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013, 69, o503-o503.	0.2	0