

Krishnendu Aich

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48
papers

2,114
citations

27
h-index

45
g-index

48
ext. papers

2,275
ext. citations

3.8
avg, IF

4.9
L-index

| # | Paper | IF | Citations |
|----|---|-----|-----------|
| 48 | 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, 5412-5 | 6.2 | 209 |
| 47 | Resonance-assisted hydrogen bonding induced nucleophilic addition to hamper ESIPT: ratiometric detection of cyanide in aqueous media. <i>Chemical Communications</i> , 2013 , 49, 2912-4 | 5.8 | 167 |
| 46 | A red fluorescence 'off-on' molecular switch for selective detection of Al ³⁺ , Fe ³⁺ and Cr ³⁺ : experimental and theoretical studies along with living cell imaging. <i>Chemical Communications</i> , 2013 , 49, 10739-41 | 5.8 | 157 |
| 45 | Dual channel selective fluorescence detection of Al(III) and PPI in aqueous media with an 'off-on-off' switch which mimics molecular logic gates (INHIBIT and EXOR gates). <i>Dalton Transactions</i> , 2013 , 42, 8078-85 | 4.3 | 108 |
| 44 | A naphthalimide-quinoline based probe for selective, fluorescence ratiometric sensing of trivalent ions. <i>RSC Advances</i> , 2013 , 3, 2412 | 3.7 | 90 |
| 43 | A reaction based colorimetric as well as fluorescence 'turn on' probe for the rapid detection of hydrazine. <i>RSC Advances</i> , 2014 , 4, 14210 | 3.7 | 89 |
| 42 | A highly selective and sensitive probe for colorimetric and fluorogenic detection of Cd ²⁺ in aqueous media. <i>Analyst, The</i> , 2013 , 138, 1903-7 | 5 | 77 |
| 41 | CHEF induced highly selective and sensitive turn-on fluorogenic and colorimetric sensor for Fe ³⁺ . <i>Dalton Transactions</i> , 2013 , 42, 15113-9 | 4.3 | 76 |
| 40 | Cd(2+) Triggered the FRET "ON": A New Molecular Switch for the Ratiometric Detection of Cd(2+) with Live-Cell Imaging and Bound X-ray Structure. <i>Inorganic Chemistry</i> , 2015 , 54, 7309-15 | 5.1 | 75 |
| 39 | A coumarin based chemodosimetric probe for ratiometric detection of hydrazine. <i>Tetrahedron Letters</i> , 2014 , 55, 2695-2699 | 2 | 75 |
| 38 | A new visible-light-excitable ICT-CHEF-mediated fluorescence 'turn-on' probe for the selective detection of Cd(2+) in a mixed aqueous system with live-cell imaging. <i>Dalton Transactions</i> , 2015 , 44, 5763-70 | 4.3 | 68 |
| 37 | Highly reactive (. <i>Tetrahedron Letters</i> , 2013 , 54, 1785-1789 | 2 | 57 |
| 36 | Ratiometric and absolute water-soluble fluorescent tripodal zinc sensor and its application in killing human lung cancer cells. <i>Analyst, The</i> , 2013 , 138, 4593-8 | 5 | 56 |
| 35 | Visual and near IR (NIR) fluorescence detection of Cr ³⁺ in aqueous media via spirobenzopyran ring opening with application in logic gate and bio-imaging. <i>Dalton Transactions</i> , 2014 , 43, 231-9 | 4.3 | 55 |
| 34 | A new rhodamine-coumarin Cu ²⁺ -selective colorimetric and 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 | 8.5 | 50 |
| 33 | An ICT based highly selective and sensitive sulfur-free sensor for naked eye as well as fluorogenic detection of Hg ₂ ⁺ in mixed aqueous media. <i>Tetrahedron Letters</i> , 2013 , 54, 4620-4623 | 2 | 48 |
| 32 | ESIPT and CHEF based highly sensitive and selective ratiometric sensor for Al ³⁺ with imaging in human blood cells. <i>New Journal of Chemistry</i> , 2015 , 39, 8582-8587 | 3.6 | 47 |

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| 31 | A simple naphthalene-based colorimetric sensor selective for acetate. <i>Tetrahedron Letters</i> , 2012 , 53, 4819-4823 | 2 | 47 |
| 30 | A triphenyl amine-based solvatofluorochromic dye for the selective and ratiometric sensing of OCl ⁻ in human blood cells. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 694-700 | 4.5 | 46 |
| 29 | A new ICT and CHEF based visible light excitable fluorescent probe easily detects in vivo Zn ²⁺ . <i>RSC Advances</i> , 2015 , 5, 31189-31194 | 3.7 | 40 |
| 28 | A rhodaminequinoline based chemodosimeter capable of recognising endogenous OCl ⁻ in human blood cells. <i>RSC Advances</i> , 2014 , 4, 24881-24886 | 3.7 | 38 |
| 27 | FRET-based fluorescence ratiometric and colorimetric sensor to discriminate Fe ³⁺ from Fe ²⁺ . <i>New Journal of Chemistry</i> , 2016 , 40, 6414-6420 | 3.6 | 34 |
| 26 | Fluorescent chemodosimeter based on spirobenzopyran for organophosphorus nerve agent mimics (DCP). <i>RSC Advances</i> , 2015 , 5, 28996-29001 | 3.7 | 33 |
| 25 | Colorimetric as well as dual switching fluorescence "turn on" chemosensors for exclusive recognition of Zn ²⁺ and . <i>Tetrahedron Letters</i> , 2013 , 54, 6892-6896 | 2 | 33 |
| 24 | Competitive intra- and inter-molecular proton transfer in hydroxynaphthyl benzothiazole: selective ratiometric sensing of acetate. <i>Tetrahedron Letters</i> , 2013 , 54, 4215-4220 | 2 | 33 |
| 23 | Exploring contribution of intermolecular interactions in supramolecular layered assembly of naphthyridine co-crystals: Insights from Hirshfeld surface analysis of their crystalline states. <i>Journal of Molecular Structure</i> , 2013 , 1048, 157-165 | 3.4 | 32 |
| 22 | Single sensor for multiple analytes: fluorogenic detection of Al ³⁺ in aqueous media and AcO ⁻ in organic media. <i>Supramolecular Chemistry</i> , 2014 , 26, 94-104 | 1.8 | 29 |
| 21 | A coumarin based azo-phenol ligand as efficient fluorescent "OFF-ON-OFF" chemosensor for sequential detection of Mg ²⁺ and F ⁻ Application in live cell imaging and as molecular logic gate. <i>Sensors and Actuators B: Chemical</i> , 2017 , 253, 317-325 | 8.5 | 21 |
| 20 | Acridine-based Switching on Fluorescence Sensor for Cd ²⁺ Functioning in Absolute Aqueous Media. <i>Chemistry Letters</i> , 2012 , 41, 863-865 | 1.7 | 21 |
| 19 | A new multi-analyte fluorogenic sensor for efficient detection of Al ³⁺ and Zn ²⁺ ions based on ESIPT and CHEF features. <i>New Journal of Chemistry</i> , 2018 , 42, 19076-19082 | 3.6 | 21 |
| 18 | Carbazolebenzimidazole based dyes for acid responsive ratiometric emissive switches. <i>New Journal of Chemistry</i> , 2016 , 40, 6907-6915 | 3.6 | 18 |
| 17 | Development of a new fluorescence ratiometric switch for endogenous hypochlorite detection in monocytes of diabetic subjects by dye release method. <i>Tetrahedron Letters</i> , 2018 , 59, 1130-1135 | 2 | 17 |
| 16 | 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 | 1.7 | 17 |
| 15 | A new carbazole-benzothiazole based chemodosimeter for chromogenic and fluorogenic detection of CN ⁻ <i>Journal of Luminescence</i> , 2018 , 201, 419-426 | 3.8 | 16 |
| 14 | Detection and discrimination of Zn ²⁺ and Hg ²⁺ using a single molecular fluorescent probe. <i>New Journal of Chemistry</i> , 2018 , 42, 8646-8652 | 3.6 | 15 |

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| 13 | TriphenylamineBenzimidazole based switch offers reliable detection of organophosphorus nerve agent (DCP) both in solution and gaseous state. <i>New Journal of Chemistry</i> , 2017 , 41, 12562-12568 | 3.6 | 12 |
| 12 | A fluorescent "ON-OFF-ON" switch for the selective and sequential detection of Hg and I with applications in imaging using human AGS gastric cancer cells. <i>Dalton Transactions</i> , 2020 , 49, 187-195 | 4.3 | 12 |
| 11 | An ESIPT based chromogenic and fluorescent ratiometric probe for Zn ²⁺ with imaging in live cells and tissues. <i>New Journal of Chemistry</i> , 2019 , 43, 1857-1863 | 3.6 | 11 |
| 10 | Solvent-Dependent Nanostructures Based on Active π -Aggregation Induced Emission Enhancement of New Carbazole Derivatives of Triphenylacrylonitrile. <i>Chemistry - A European Journal</i> , 2019 , 25, 4856-4863 | 4.8 | 10 |
| 9 | 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 | 3.6 | 10 |
| 8 | 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, 144-53 | 6.2 | 10 |
| 7 | Fabrication of a new fluorogenic probe for detection of phosgene in solution and vapor phase. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 128837 | 8.5 | 10 |
| 6 | A naphthyridine based macrocyclic π -switching on π -fluorescent receptor for cadmium. <i>Journal of Luminescence</i> , 2011 , 131, 2185-2188 | 3.8 | 8 |
| 5 | Two New Quinoline-Benzothiazole Blended Off-On Type Fluorescent Probes Exclusively Detect Cd ²⁺ . <i>ChemistrySelect</i> , 2019 , 4, 8068-8073 | 1.8 | 7 |
| 4 | A simple coumarin based fluorescent On probe for the selective detection of Al ³⁺ along with its application in live cell imaging via AGS cell line. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 390, 112294 | 4.7 | 4 |
| 3 | Simple fabrication of a carbaldehyde based fluorescent Burn-on probe for the selective and sole detection of Pd ²⁺ : application as test strips. <i>New Journal of Chemistry</i> , 2019 , 43, 16915-16920 | 3.6 | 4 |
| 2 | Ethyl 2-[(2-oxo-2H-chromen-7-yl)-oxy]acetate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013 , 69, o502 | | 1 |
| 1 | 7-Hydroxy-methyl-2-pivaloyl-amino-1,8-naphthyridine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013 , 69, o503 | | |