Ritu Kataky

List of Publications by Year
in descending order

91 papers	2,067 citations	218677 26 h-index	276875 41 g-index
94 all docs	94 docs citations	94 times ranked	2491 citing authors

#	Article	IF	Citations
1	Emulsion-templated porous materials (PolyHIPEs) for selective ion and molecular recognition and transport: applications in electrochemical sensing. Journal of Materials Chemistry, 2007, 17, 2446.	6.7	145
2	Structure and solution stability of indium and gallium complexes of 1,4,7-triazacyclononanetriacetate and of yttrium complexes of 1,4,7,10-tetraazacyclododecanetetraacetate and related ligands: kinetically stable complexes for use in imaging and radioimmunotherapy. X-Ray molecular structure of the indium and gallium complexes of 1,4,7-triazacyclononane-1,4,7-triacetic acid. Journal of the Chemical Society Perkin Transactions II, 1991, , 87.	0.9	135
3	Narrow-Range Optical pH Sensors Based on Luminescent Europium and Terbium Complexes Immobilized in a Sol Gel Glass. Inorganic Chemistry, 2001, 40, 5860-5867.	4.0	93
4	Tissue-specific Expression and Dimerization of the Endoplasmic Reticulum Oxidoreductase Ero1Î². Journal of Biological Chemistry, 2005, 280, 33066-33075.	3.4	78
5	Dependence of the relaxivity and luminescence of gadolinium and europium amino-acid complexes on hydrogencarbonate and pH. Chemical Communications, 1999, , 1047-1048.	4.1	71
6	Synthesis of a kinetically stable yttrium-90 labelled macrocycleâ€“antibody conjugate. Journal of the Chemical Society Chemical Communications, 1989, , 797-798.	2.0	66
7	Platinum(II) Complexes of N^{â^§}C^{â^§}N-Coordinating 1,3-Bis(2-pyridyl)benzene Ligands: Thiolate Coligands Lead to Strong Red Luminescence from Charge-Transfer States. Inorganic Chemistry, 2014, 53, 5738-5749.	4.0	64
8	Comparative performance of 14-crown-4 derivatives as lithium-selective electrodes. Analyst, The, 1991, 116, 135.	3.5	51
9	Potential of enzyme mimics in biomimetic sensors: a modified-cyclodextrin as a dehydrogenase enzyme mimic. Biosensors and Bioelectronics, 2003, 18, 1407-1417.	10.1	49
10	Synthesis of 1,10-dithia-4,7,13,16-tetra-azacyclo-octadecane, 1-aza-4,7-dithiacyclononane, and N,Nâ€²-1,2-bis(1-aza-4,7-dithia-cyclononyl)ethane. Structural and solution studies of their silver complexes. Journal of the Chemical Society Perkin Transactions II, 1990, , 1523-1531.	0.9	48
11	Solâ€“gel-immobilised terbium complexes for luminescent sensing of dissolved oxygen by analysis of emission decayElectronic supplementary information (ESI) available: examples of the analysis of the emission decay data for calibration purposes and examples of data sets and their treatment at different delay times. See http://www.rsc.org/suppdata/nj/b1/b110743g/. New Journal of Chemistry, 2002, 26, 520-525.	2.8	43
12	Monolayer and Multilayer Films of Cyclodextrins Substituted with Two and Three Alkyl Chains. Langmuir, 1995, 11, 3997-4000.	3.5	41
13	An introduction to thiol redox proteins in the endoplasmic reticulum and a review of current electrochemical methods of detection of thiols. Analyst, The, 2006, 131, 459.	3.5	39
14	Chiral Interactions of the Drug Propranolol and Î±₁-Acid-Glycoprotein at a Micro Liquidâ€“Liquid Interface. Analytical Chemistry, 2012, 84, 2299-2304.	6.5	39
15	Towards tumour targeting with copper-radiolabelled macrocycleâ€“antibody conjugates: synthesis, antibody linkage, and complexation behaviour. Journal of the Chemical Society Perkin Transactions II, 1990, , 573-585.	0.9	36
16	Functionalized cyclodextrins as potentiometric sensors for onium ions. Analyst, The, 1994, 119, 181.	3.5	36
17	Potentiometric, enantioselective sensors for alkyl and aryl ammonium ions of pharmaceutical significance, based on lipophilic cyclodextrins. Scandinavian Journal of Clinical and Laboratory Investigation, 1995, 55, 409-419.	1.2	36
18	New Blatter-type radicals from a bench-stable carbene. Nature Communications, 2017, 8, 15088.	12.8	36

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19	Modular assembly of a preorganised, ditopic receptor for dicarboxylates. Chemical Communications, 2006, , 156-158.	4.1	35
20	Functionalized Î±-cyclodextrins as potentiometric chiral sensors. Analyst, The, 1992, 117, 1313-1317.	3.5	34
21	Synthesis and binding properties of amide-functionalised polyaza macrocycles. Journal of the Chemical Society Perkin Transactions II, 1990, , 1425.	0.9	31
22	Synthesis, solution stability, and crystal structure of aza-thia macrocyclic complexes of silver(I). Journal of the Chemical Society Chemical Communications, 1989, , 1870.	2.0	30
23	Alkylated cyclodextrin-based potentiometric and amperometric electrodes applied to the measurement of tricyclic antidepressants. Electroanalysis, 1997, 9, 1267-1272.	2.9	29
24	Comparative study of mono- and di-substituted 14-crown-4 derivatives as lithium ionophores. Journal of the Chemical Society Perkin Transactions II, 1990, , 321.	0.9	28
25	Porous Polymers by Emulsion Templating. Macromolecular Symposia, 2005, 226, 203-212.	0.7	28
26	Towards tumour targeting with copper-radiolabelled macrocycleâ€“antibody conjugates. Journal of the Chemical Society Chemical Communications, 1989, , 792-794.	2.0	26
27	Synthesis and complex stability of parent and C-functionalised derivatives of 1,4,7-triazacyclononane-1,4,7-tris[methylene(methylphosphinic acid)]: an effective new complexing agent. Journal of the Chemical Society Chemical Communications, 1990, , 1738.	2.0	26
28	Ionophores based on 1,3-dithiole-2-thione-4,5-dithiolate (DMIT) as potentiometric silver sensors. Analyst, The, 2000, 125, 861-866.	3.5	26
29	A rotaxane of a 1,1â€²-disubstituted ferrocene and Î²-cyclodextrin. New Journal of Chemistry, 2000, 24, 265-268.	2.8	26
30	Examination of cobalt, nickel, copper and zinc(ii) complex geometry and binding affinity in aqueous media using simple pyridylsulfonamide ligandsElectronic supplementary information (ESI) available: experimental details for [M(L2)2], [M(L3)2] and [M(L4)2] (Mâ€‰=â€‰Zn, Cu, Ni, Co); species distribution plots. See http://www.rsc.org/suppdata/nj/b2/b206279h/. New Journal of Chemistry, 2003, 27, 98-106.	2.8	24
31	Liposome-doped hydrogel for implantable tissue. Soft Matter, 2011, 7, 7071.	2.7	23
32	Sensitive and specific electrochemical sensors for charge-diffuse cations: use of lipophilic cyclodextrins and an enzyme relay for the determination of acetylcholine. Analyst, The, 1996, 121, 1829.	3.5	22
33	A tetrathiafulvalene derivative with an acyclic S4 domain as a voltammetric silver sensor. Perkin Transactions II RSC, 2000, , 189-190.	1.1	22
34	Recommendation for measuring and reporting chloride by ISEs in undiluted serum, plasma or blood: International Federation of Clinical Chemistry and Laboratory Medicine (IFCC): IFCC Scientific Division, Committee on Point of Care Testing and Working Group on Selective Electrodes. Clinical Chemistry and Laboratory Medicine, 2006, 44, 346-52.	2.3	21
35	Modification of Electrode Surfaces by Selfâ€Assembled Monolayers of Thiolâ€Terminated Oligo(Phenyleneethynylene)s. ChemPhysChem, 2013, 14, 431-440.	2.1	21
36	Biofilm formation on abiotic surfaces and their redox activity. Current Opinion in Electrochemistry, 2018, 12, 121-128.	4.8	20

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37	Enantiomer discrimination using lipophilic cyclodextrins studied by electrode response, pulsed-gradient spin-echo (PGSE) NMR and relaxation rate measurements. Journal of the Chemical Society Perkin Transactions II, 1998, , 19-24.	0.9	19
38	Chiral acid selectivity displayed by PEDOT electropolymerised in the presence of chiral molecules. Analyst, The, 2012, 137, 2386.	3.5	19
39	Synthesis and complexation behaviour of an effective octadentate complexone 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetrakis[methylene(methylphosphinic acid)]. Journal of the Chemical Society Chemical Communications, 1990, , 1739.	2.0	18
40	Chiral sensors based on lipophilic cyclodextrins: interrogation of enantioselectivity by combined NMR, structural correlation and electrode response studies. Journal of the Chemical Society Perkin Transactions II, 1994, , 669.	0.9	18
41	Selectivity in the binding and detection of charge diffuse ions. Pure and Applied Chemistry, 1996, 68, 1219-1223.	1.9	18
42	Lithium selective ionophores based on pendant arm substituted crown ethers. Journal of the Chemical Society Perkin Transactions II, 1995, , 1761.	0.9	17
43	Enantioselectivity of potentiometric sensors with application of different mechanisms of chiral discrimination. Journal of Proteomics, 2008, 70, 1261-1267.	2.4	17
44	A thermally actuated microgripper as an electrochemical sensor with the ability to manipulate single cells. Chemical Communications, 2011, 47, 6446.	4.1	17
45	Effect of Monomer Modifications on the Physical Properties of Electropolymerised PEDOT Films. Journal of the Electrochemical Society, 2011, 159, F1-F9.	2.9	17
46	Electron Transport in Supported and Tethered Lipid Bilayers Modified with Bioelectroactive Molecules. Journal of Physical Chemistry B, 2012, 116, 3909-3917.	2.6	17
47	Synthesis, characterisation and application of lanthanide cyclen complexes in organic synthesis. Journal of the Chemical Society, Perkin Transactions 1, 2002, , 932-937.	1.3	15
48	Comparative electrochemical and impedance studies of self-assembled rigid-rod molecular wires and alkanethiols on gold substrates. Physical Chemistry Chemical Physics, 2010, 12, 14804.	2.8	15
49	A chiral sensor based on a peroctylated Î±-cyclodextrin. Journal of the Chemical Society Chemical Communications, 1992, , 153-155.	2.0	14
50	Selective binding and detection of onium ions by lipophilic neutral cyclodextrins. Journal of the Chemical Society Chemical Communications, 1993, , 691.	2.0	14
51	Selective sensing of guanidinium and tetraalkylammonium ions using lipophilic cyclodextrins. Journal of the Chemical Society Perkin Transactions II, 1995, , 1955.	0.9	13
52	Local anesthetics measured by lipophilic Î²-cyclodextrin-based ion-selective electrodes. Electroanalysis, 1996, 8, 585-590.	2.9	13
53	Capillary electrophoresis speciation of chromium in leather tanning liquor. Electrophoresis, 2003, 24, 2259-2263.	2.4	13
54	Synthesis and binding properties of lithium-selective [14]-O4 macrocycles and their use in a lithium ion-selective electrode. Tetrahedron Letters, 1989, 30, 4559-4562.	1.4	12

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55	Cyclodextrin-modified biosensors: comparision of cyclodextrin-linked ferrocenes as mediators in solÃ¢â‚¬œgel and screen-printed formats for sensing acetylcholine. Analyst, The, 2001, 126, 2015-2019.	3.5	12
56	Comparative study of tripodal oxa-amides and oxa-esters as ionophores in potentiometric ion-selective electrodes for alkali and alkaline earth cations. Analytica Chimica Acta, 1993, 276, 353-360.	5.4	11
57	Selective complexation and sensitive analysis of charge diffuse cationic species using lipophilic cyclodextrins. Chemical Communications, 1997, , 141-146.	4.1	11
58	Chiral detection at a liquidâ€“liquid interface. Chemical Communications, 2009, , 1490.	4.1	11
59	Binding properties of amide and amideâ€“ester N-functionalised polyaza macrocycles. Journal of the Chemical Society Perkin Transactions II, 1992, , 1347-1351.	0.9	10
60	Selective binding and sensing of guanidinium ions by lipophilic cyclodextrins. Journal of the Chemical Society Perkin Transactions II, 1994, , 2381.	0.9	10
61	Individually addressable recessed gold microelectrode arrays with monolayers of thio-cyclodextrin nanocavities. Analyst, The, 2005, 130, 1351.	3.5	10
62	Transport Properties of Aqueous Solutions of (1R,2S)-(â^')- and (1S,2R)-(+)-Ephedrine Hydrochloride at Different Temperatures. Journal of Chemical & Engineering Data, 2010, 55, 1145-1152.	1.9	10
63	Spectroscopic and electrochemical properties of 4-[(4â€²-hydroxy-3â€²,5â€²-dimethylphenyl)(aryl)-methylene]-2,6-dimethylcyclohexa-2,5-dienones. Dyes and Pigments, 2007, 74, 88-94.	3.7	8
64	Synthesis and solution complexation behaviour of tetradentate diamines with hard phosphinate donors. Journal of the Chemical Society Dalton Transactions, 1996, , 2693.	1.1	7
65	A study of the effect of proteins and endogenous cations on a lipophilic ÃŽÂ²-cyclodextrin-based potentiometric lidocaine sensor using discrete solution and flow-injection analysis. Talanta, 1999, 50, 939-946.	5.5	7
66	Determination of silver in photographic emulsion: comparison of traditional solid-state electrodes and a new ion-selective membrane electrode. Analyst, The, 2000, 125, 1447-1451.	3.5	7
67	Microelectrode arrays for electroanalytical sensing: Comparison of electroplating and electron-beam metallisation. Electrochemistry Communications, 2011, 13, 414-417.	4.7	7
68	Silver nanoparticle impacts on gold electrode surfaces in flow-injection configuration. Sensors and Actuators B: Chemical, 2019, 290, 140-146.	7.8	7
69	Mutations in the FAD Binding Domain Cause Stress-induced Misoxidation of the Endoplasmic Reticulum Oxidoreductase Ero1Î². Journal of Biological Chemistry, 2006, 281, 25018-25025.	3.4	6
70	Modification of the chiral selectivity of d-glucose oxidase and l-lactate oxidase in a collagen matrix. Physical Chemistry Chemical Physics, 2010, 12, 9183.	2.8	6
71	Non-invasive monitoring of temperature stress in Arabidopsis thaliana roots, using ion amperometry. Analytical Methods, 2012, 4, 1656.	2.7	6
72	Emulsification at the Liquid/Liquid Interface: Effects of Potential, Electrolytes and Surfactants. ChemPhysChem, 2016, 17, 105-111.	2.1	6

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73	The Effect of a Hydrogen Bonding Environment (Dimethyl Sulfoxide) on the Ionisation and Redox Properties of the Thiol Group in Cysteine and a Protein Disulfide Isomerase Mimic (Vectrase). Journal of Solution Chemistry, 2007, 36, 517-529.	1.2	5
74	Real time monitoring of interactions of gold nanoparticles with supported phospholipid lipid layers. Journal of Electroanalytical Chemistry, 2020, 872, 114302.	3.8	5
75	Calibration solutions for the simultaneous potentiometric measurement of sodium, potassium and calcium in blood plasma: examination of the electrochemical factors affecting precision and accuracy in direct potentiometric clinical analysers. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 369.	1.7	4
76	pH Standardization of 0.05 molÂ·kg-1Tetraoxalate Buffer:â€‰ Application of the Pitzer Formalism. Journal of Chemical & Engineering Data, 2001, 46, 1292-1296.	1.9	4
77	Structural investigations on Quinone Methides for understanding their properties in confined media. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2006, 55, 1-9.	1.6	4
78	Towards multifunctional microelectrode arrays. Analyst, The, 2008, 133, 1060.	3.5	4
79	Solution complexation behaviour of 1,3,5-trioxycyclohexane based ligands and their evaluation as ionophores for Group IA/IIA metal cations. Perkin Transactions II RSC, 2000, , 623-630.	1.1	3
80	Investigation of mechanisms for the reductive dechlorination of chlorinated ethylenes using electroanalytical techniques. Analyst, The, 2001, 126, 1901-1906.	3.5	3
81	Chiral resolution of R and S 1-phenylethanol on glassy carbon electrodes. Journal of Electroanalytical Chemistry, 2009, 633, 57-62.	3.8	3
82	A microgripper sensor device capable of detecting ion efflux from whole cells. RSC Advances, 2014, 4, 50536-50541.	3.6	2
83	Graphene oxide nanocapsules within silanized hydrogels suitable for electrochemical pseudocapacitors. Chemical Communications, 2015, 51, 10345-10348.	4.1	2
84	A gramicidin analogue that exhibits redox potential-dependent cation influx. Sensors and Actuators B: Chemical, 2008, 130, 630-637.	7.8	1
85	Complexation Studies of Pyridyl Sulfonamide Ligands forÂSensing Zinc and Copper Ions. Journal of Solution Chemistry, 2009, 38, 1483-1492.	1.2	1
86	Characterization of the porous nature of a phthalocyanine derivative with axial ligation designed to prevent aggregation. Journal of Porphyrins and Phthalocyanines, 2010, 14, 389-396.	0.8	1
87	Synthesis of Biodegradable Materials and Chemical Sensors Via Romp. NATO Science for Peace and Security Series A: Chemistry and Biology, 2009, , 263-277.	0.5	1
88	Application of Iron Bathophenanthroline Complex as a Redox Mediating Agent for Imaging Surface Immobilized DNA Using Scanning Electrochemical Microscopy. Sensor Letters, 2012, 10, 856-865.	0.4	1
89	Microelectrode Array Supported by Microfluidic Channel for High-Throughput Sensing: Fabrication and Characterization. ECS Transactions, 2010, 33, 221-227.	0.5	0
90	A Multifunctional Microgripper Capable of Simultaneous Single Cell Manipulation and Associated Ion Sensing. Materials Research Society Symposia Proceedings, 2012, 1463, 7.	0.1	0

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91	â€˜Softâ€™ electroactive particles and their interaction with lipid membranes. Electrochemistry Communications, 2017, 77, 65-70.	4.7	0