

Ritu Katakya

List of Publications by Year in descending order

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91
papers

2,067
citations

218677

26
h-index

276875

41
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94
all docs

94
docs citations

94
times ranked

2491
citing authors

#	ARTICLE	IF	CITATIONS
1	Real time monitoring of interactions of gold nanoparticles with supported phospholipid lipid layers. <i>Journal of Electroanalytical Chemistry</i> , 2020, 872, 114302.	3.8	5
2	Silver nanoparticle impacts on gold electrode surfaces in flow-injection configuration. <i>Sensors and Actuators B: Chemical</i> , 2019, 290, 140-146.	7.8	7
3	Biofilm formation on abiotic surfaces and their redox activity. <i>Current Opinion in Electrochemistry</i> , 2018, 12, 121-128.	4.8	20
4	“Soft” electroactive particles and their interaction with lipid membranes. <i>Electrochemistry Communications</i> , 2017, 77, 65-70.	4.7	0
5	New Blatter-type radicals from a bench-stable carbene. <i>Nature Communications</i> , 2017, 8, 15088.	12.8	36
6	Emulsification at the Liquid/Liquid Interface: Effects of Potential, Electrolytes and Surfactants. <i>ChemPhysChem</i> , 2016, 17, 105-111.	2.1	6
7	Graphene oxide nanocapsules within silanized hydrogels suitable for electrochemical pseudocapacitors. <i>Chemical Communications</i> , 2015, 51, 10345-10348.	4.1	2
8	A microgripper sensor device capable of detecting ion efflux from whole cells. <i>RSC Advances</i> , 2014, 4, 50536-50541.	3.6	2
9	Platinum(II) Complexes of N ⁺ C ⁺ N-Coordinating 1,3-Bis(2-pyridyl)benzene Ligands: Thiolate Coligands Lead to Strong Red Luminescence from Charge-Transfer States. <i>Inorganic Chemistry</i> , 2014, 53, 5738-5749.	4.0	64
10	Modification of Electrode Surfaces by Self-Assembled Monolayers of Thiol-Terminated Oligo(Phenyleneethynylene)s. <i>ChemPhysChem</i> , 2013, 14, 431-440.	2.1	21
11	A Multifunctional Microgripper Capable of Simultaneous Single Cell Manipulation and Associated Ion Sensing. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1463, 7.	0.1	0
12	Chiral Interactions of the Drug Propranolol and β -1-Acid-Glycoprotein at a Micro Liquid-Liquid Interface. <i>Analytical Chemistry</i> , 2012, 84, 2299-2304.	6.5	39
13	Non-invasive monitoring of temperature stress in <i>Arabidopsis thaliana</i> roots, using ion amperometry. <i>Analytical Methods</i> , 2012, 4, 1656.	2.7	6
14	Chiral acid selectivity displayed by PEDOT electropolymerised in the presence of chiral molecules. <i>Analyst</i> , 2012, 137, 2386.	3.5	19
15	Electron Transport in Supported and Tethered Lipid Bilayers Modified with Bioelectroactive Molecules. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3909-3917.	2.6	17
16	Application of Iron Bathophenanthroline Complex as a Redox Mediating Agent for Imaging Surface Immobilized DNA Using Scanning Electrochemical Microscopy. <i>Sensor Letters</i> , 2012, 10, 856-865.	0.4	1
17	Liposome-doped hydrogel for implantable tissue. <i>Soft Matter</i> , 2011, 7, 7071.	2.7	23
18	A thermally actuated microgripper as an electrochemical sensor with the ability to manipulate single cells. <i>Chemical Communications</i> , 2011, 47, 6446.	4.1	17

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19	Microelectrode arrays for electroanalytical sensing: Comparison of electroplating and electron-beam metallisation. <i>Electrochemistry Communications</i> , 2011, 13, 414-417.	4.7	7
20	Effect of Monomer Modifications on the Physical Properties of Electropolymerised PEDOT Films. <i>Journal of the Electrochemical Society</i> , 2011, 159, F1-F9.	2.9	17
21	Microelectrode Array Supported by Microfluidic Channel for High-Throughput Sensing: Fabrication and Characterization. <i>ECS Transactions</i> , 2010, 33, 221-227.	0.5	0
22	Characterization of the porous nature of a phthalocyanine derivative with axial ligation designed to prevent aggregation. <i>Journal of Porphyrins and Phthalocyanines</i> , 2010, 14, 389-396.	0.8	1
23	Transport Properties of Aqueous Solutions of (1 <i>R</i> ,2 <i>S</i>)-(âˆ“) and (1 <i>S</i> ,2 <i>R</i>)-(+)-Ephedrine Hydrochloride at Different Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 1145-1152.	1.9	10
24	Comparative electrochemical and impedance studies of self-assembled rigid-rod molecular wires and alkanethiols on gold substrates. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14804.	2.8	15
25	Modification of the chiral selectivity of d-glucose oxidase and l-lactate oxidase in a collagen matrix. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 9183.	2.8	6
26	Chiral resolution of R and S 1-phenylethanol on glassy carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2009, 633, 57-62.	3.8	3
27	Complexation Studies of Pyridyl Sulfonamide Ligands for Sensing Zinc and Copper Ions. <i>Journal of Solution Chemistry</i> , 2009, 38, 1483-1492.	1.2	1
28	Chiral detection at a liquid-liquid interface. <i>Chemical Communications</i> , 2009, , 1490.	4.1	11
29	Synthesis of Biodegradable Materials and Chemical Sensors Via Romp. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2009, , 263-277.	0.5	1
30	A gramicidin analogue that exhibits redox potential-dependent cation influx. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 630-637.	7.8	1
31	Enantioselectivity of potentiometric sensors with application of different mechanisms of chiral discrimination. <i>Journal of Proteomics</i> , 2008, 70, 1261-1267.	2.4	17
32	Towards multifunctional microelectrode arrays. <i>Analyst</i> , 2008, 133, 1060.	3.5	4
33	Spectroscopic and electrochemical properties of 4-[(4-hydroxy-3,5-dimethylphenyl)(aryl)methylene]-2,6-dimethylcyclohexa-2,5-dienones. <i>Dyes and Pigments</i> , 2007, 74, 88-94.	3.7	8
34	Emulsion-templated porous materials (PolyHIPEs) for selective ion and molecular recognition and transport: applications in electrochemical sensing. <i>Journal of Materials Chemistry</i> , 2007, 17, 2446.	6.7	145
35	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). <i>Journal of Solution Chemistry</i> , 2007, 36, 517-529.	1.2	5
36	An introduction to thiol redox proteins in the endoplasmic reticulum and a review of current electrochemical methods of detection of thiols. <i>Analyst</i> , 2006, 131, 459.	3.5	39

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37	Structural investigations on Quinone Methides for understanding their properties in confined media. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2006, 55, 1-9.	1.6	4
38	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. <i>Clinical Chemistry and Laboratory Medicine</i> , 2006, 44, 346-52.	2.3	21
39	Mutations in the FAD Binding Domain Cause Stress-induced Misoxidation of the Endoplasmic Reticulum Oxidoreductase Ero1 ¹² . <i>Journal of Biological Chemistry</i> , 2006, 281, 25018-25025.	3.4	6
40	Modular assembly of a preorganised, ditopic receptor for dicarboxylates. <i>Chemical Communications</i> , 2006, , 156-158.	4.1	35
41	Porous Polymers by Emulsion Templating. <i>Macromolecular Symposia</i> , 2005, 226, 203-212.	0.7	28
42	Tissue-specific Expression and Dimerization of the Endoplasmic Reticulum Oxidoreductase Ero1 ¹² . <i>Journal of Biological Chemistry</i> , 2005, 280, 33066-33075.	3.4	78
43	Individually addressable recessed gold microelectrode arrays with monolayers of thio-cyclodextrin nanocavities. <i>Analyst, The</i> , 2005, 130, 1351.	3.5	10
44	Capillary electrophoresis speciation of chromium in leather tanning liquor. <i>Electrophoresis</i> , 2003, 24, 2259-2263.	2.4	13
45	Potential of enzyme mimics in biomimetic sensors: a modified-cyclodextrin as a dehydrogenase enzyme mimic. <i>Biosensors and Bioelectronics</i> , 2003, 18, 1407-1417.	10.1	49
46	Examination of cobalt, nickel, copper and zinc(ii) complex geometry and binding affinity in aqueous media using simple pyridylsulfonamide ligands Electronic supplementary information (ESI) available: experimental details for [M(L2)2], [M(L3)2] and [M(L4)2] (M = Zn, Cu, Ni, Co); species distribution plots. See http://www.rsc.org/suppdata/nj/b2/b206279h/ . <i>New Journal of Chemistry</i> , 2003, 27, 98-106.	2.8	24
47	Synthesis, characterisation and application of lanthanide cyclen complexes in organic synthesis. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2002, , 932-937.	1.3	15
48	Sol-gel-immobilised terbium complexes for luminescent sensing of dissolved oxygen by analysis of emission decay Electronic 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/ . <i>New Journal of Chemistry</i> , 2002, 26, 530-535.	2.8	43
49	Narrow-Range Optical pH Sensors Based on Luminescent Europium and Terbium Complexes Immobilized in a Sol Gel Glass. <i>Inorganic Chemistry</i> , 2001, 40, 5860-5867.	4.0	93
50	Cyclodextrin-modified biosensors: comparison of cyclodextrin-linked ferrocenes as mediators in sol-gel and screen-printed formats for sensing acetylcholine. <i>Analyst, The</i> , 2001, 126, 2015-2019.	3.5	12
51	Investigation of mechanisms for the reductive dechlorination of chlorinated ethylenes using electroanalytical techniques. <i>Analyst, The</i> , 2001, 126, 1901-1906.	3.5	3
52	pH Standardization of 0.05 mol kg ⁻¹ Tetraoxalate Buffer: Application of the Pitzer Formalism. <i>Journal of Chemical & Engineering Data</i> , 2001, 46, 1292-1296.	1.9	4
53	Ionophores based on 1,3-dithiole-2-thione-4,5-dithiolate (DMIT) as potentiometric silver sensors. <i>Analyst, The</i> , 2000, 125, 861-866.	3.5	26
54	Solution complexation behaviour of 1,3,5-trioxycyclohexane based ligands and their evaluation as ionophores for Group IA/IIA metal cations. <i>Perkin Transactions II RSC</i> , 2000, , 623-630.	1.1	3

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55	Determination of silver in photographic emulsion: comparison of traditional solid-state electrodes and a new ion-selective membrane electrode. <i>Analyst, The</i> , 2000, 125, 1447-1451.	3.5	7
56	A tetrathiafulvalene derivative with an acyclic S4 domain as a voltammetric silver sensor. <i>Perkin Transactions II RSC</i> , 2000, , 189-190.	1.1	22
57	A rotaxane of a 1,1- β -disubstituted ferrocene and β -cyclodextrin. <i>New Journal of Chemistry</i> , 2000, 24, 265-268.	2.8	26
58	A study of the effect of proteins and endogenous cations on a lipophilic β -cyclodextrin-based potentiometric lidocaine sensor using discrete solution and flow-injection analysis. <i>Talanta</i> , 1999, 50, 939-946.	5.5	7
59	Dependence of the relaxivity and luminescence of gadolinium and europium amino-acid complexes on hydrogencarbonate and pH. <i>Chemical Communications</i> , 1999, , 1047-1048.	4.1	71
60	Enantiomer discrimination using lipophilic cyclodextrins studied by electrode response, pulsed-gradient spin-echo (PGSE) NMR and relaxation rate measurements. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998, , 19-24.	0.9	19
61	Selective complexation and sensitive analysis of charge diffuse cationic species using lipophilic cyclodextrins. <i>Chemical Communications</i> , 1997, , 141-146.	4.1	11
62	Alkylated cyclodextrin-based potentiometric and amperometric electrodes applied to the measurement of tricyclic antidepressants. <i>Electroanalysis</i> , 1997, 9, 1267-1272.	2.9	29
63	Sensitive and specific electrochemical sensors for charge-diffuse cations: use of lipophilic cyclodextrins and an enzyme relay for the determination of acetylcholine. <i>Analyst, The</i> , 1996, 121, 1829.	3.5	22
64	Synthesis and solution complexation behaviour of tetradentate diamines with hard phosphinate donors. <i>Journal of the Chemical Society Dalton Transactions</i> , 1996, , 2693.	1.1	7
65	Selectivity in the binding and detection of charge diffuse ions. <i>Pure and Applied Chemistry</i> , 1996, 68, 1219-1223.	1.9	18
66	Local anesthetics measured by lipophilic β -cyclodextrin-based ion-selective electrodes. <i>Electroanalysis</i> , 1996, 8, 585-590.	2.9	13
67	Potentiometric, enantioselective sensors for alkyl and aryl ammonium ions of pharmaceutical significance, based on lipophilic cyclodextrins. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 1995, 55, 409-419.	1.2	36
68	Monolayer and Multilayer Films of Cyclodextrins Substituted with Two and Three Alkyl Chains. <i>Langmuir</i> , 1995, 11, 3997-4000.	3.5	41
69	Lithium selective ionophores based on pendant arm substituted crown ethers. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995, , 1761.	0.9	17
70	Selective sensing of guanidinium and tetraalkylammonium ions using lipophilic cyclodextrins. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1995, , 1955.	0.9	13
71	Chiral sensors based on lipophilic cyclodextrins: interrogation of enantioselectivity by combined NMR, structural correlation and electrode response studies. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1994, , 669.	0.9	18
72	Selective binding and sensing of guanidinium ions by lipophilic cyclodextrins. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1994, , 2381.	0.9	10

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73	Functionalized cyclodextrins as potentiometric sensors for onium ions. <i>Analyst, The</i> , 1994, 119, 181.	3.5	36
74	Comparative study of tripodal oxa-amides and oxa-esters as ionophores in potentiometric ion-selective electrodes for alkali and alkaline earth cations. <i>Analytica Chimica Acta</i> , 1993, 276, 353-360.	5.4	11
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. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 369.	1.7	4
76	Selective binding and detection of onium ions by lipophilic neutral cyclodextrins. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 691.	2.0	14
77	Functionalized β -cyclodextrins as potentiometric chiral sensors. <i>Analyst, The</i> , 1992, 117, 1313-1317.	3.5	34
78	Binding properties of amide and amide-ester N-functionalised polyaza macrocycles. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1992, , 1347-1351.	0.9	10
79	A chiral sensor based on a perocetylated β -cyclodextrin. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 153-155.	2.0	14
80	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. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1991, , 87.	0.9	135
81	Comparative performance of 14-crown-4 derivatives as lithium-selective electrodes. <i>Analyst, The</i> , 1991, 116, 135.	3.5	51
82	Towards tumour targeting with copper-radiolabelled macrocycle-antibody conjugates: synthesis, antibody linkage, and complexation behaviour. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1990, , 573-585.	0.9	36
83	Synthesis of 1,10-dithia-4,7,13,16-tetra-azacyclo-octadecane, 1-aza-4,7-dithiacyclononane, and N,N'-1,2-bis(1-aza-4,7-dithia-cyclononyl)ethane. Structural and solution studies of their silver complexes. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1990, , 1523-1531.	0.9	48
84	Synthesis and binding properties of amide-functionalised polyaza macrocycles. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1990, , 1425.	0.9	31
85	Synthesis and complexation behaviour of an effective octadentate complexone 1,4,7,10-tetraazacyclododecane-1,4,7,10-tetrakis[methylene(methylphosphinic acid)]. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 1739.	2.0	18
86	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. <i>Journal of the Chemical Society Chemical Communications</i> , 1990, , 1738.	2.0	26
87	Comparative study of mono- and di-substituted 14-crown-4 derivatives as lithium ionophores. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1990, , 321.	0.9	28
88	Synthesis and binding properties of lithium-selective [14]-O4 macrocycles and their use in a lithium ion-selective electrode. <i>Tetrahedron Letters</i> , 1989, 30, 4559-4562.	1.4	12
89	Synthesis of a kinetically stable yttrium-90 labelled macrocycle-antibody conjugate. <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 797-798.	2.0	66
90	Synthesis, solution stability, and crystal structure of aza-thia macrocyclic complexes of silver(I). <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 1870.	2.0	30

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91	Towards tumour targeting with copper-radiolabelled macrocycle-antibody conjugates. Journal of the Chemical Society Chemical Communications, 1989, , 792-794.	2.0	26