

Sellappan Senthilkumar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

937
citations

18
h-index

30
g-index

47
ext. papers

1,101
ext. citations

5.5
avg, IF

4.81
L-index

#	Paper	IF	Citations
43	Porous graphene oxide based disposable non-enzymatic electrochemical sensor for the determination of nicotinamide adenine dinucleotide. <i>Micro and Nano Engineering</i> , 2022 , 15, 100133	3.4	1
42	Novel delipidated chicken feather waste-derived carbon-based molybdenum oxide nanocomposite as efficient electrocatalyst for rapid detection of hydroquinone and catechol in environmental waters. <i>Environmental Pollution</i> , 2021 , 293, 118556	9.3	3
41	Redox-active gold nanoparticle-encapsulated poly(amidoamine) dendrimer for electrochemical sensing of 4-aminophenol. <i>Journal of Molecular Liquids</i> , 2021 , 325, 115131	6	9
40	Direct electrochemistry of covalently immobilized hemoglobin on a naphthylimidazolium butyric acid ionic liquid/MWCNT matrix. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 199, 111540	6	7
39	Switching the solubility of electroactive ionic liquids for designing high energy supercapacitor and low potential biosensor. <i>Journal of Colloid and Interface Science</i> , 2021 , 588, 221-231	9.3	4
38	Metal oxide-graphene nanocomposite modified electrochemical sensors for toxic chemicals 2021 , 139-171		
37	Facile synthesis of polyaniline/titanium carbide (MXene) nanosheets/palladium nanocomposite for efficient electrocatalytic oxidation of methanol for fuel cell application. <i>Fuel</i> , 2021 , 303, 121329	7.1	3
36	Designing electrochemical NADH sensor using silver nanoparticles/phenothiazine nanohybrid and investigation on the shape dependent sensing behavior. <i>Sensors and Actuators B: Chemical</i> , 2021 , 347, 130649	8.5	2
35	Novel palladium-decorated molybdenum carbide/polyaniline nanohybrid material as superior electrocatalyst for fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	1
34	Luminescent chitosan/carbon dots as an effective nano-drug carrier for neurodegenerative diseases.. <i>RSC Advances</i> , 2020 , 10, 24386-24396	3.7	14
33	Viologen-terminated polyamidoamine (PAMAM) dendrimer encapsulated with gold nanoparticles for nonenzymatic determination of hydrogen peroxide. <i>Materials Today Chemistry</i> , 2020 , 16, 100274	6.2	9
32	Design and synthesis of phenothiazine based imidazolium ionic liquid for electrochemical nonenzymatic detection of sulfite in food samples. <i>Journal of Molecular Liquids</i> , 2020 , 301, 112412	6	10
31	Quaternary Ammonium Based Carboxyl Functionalized Ionic Liquid for Covalent Immobilization of Horseradish Peroxidase and Development of Electrochemical Hydrogen Peroxide Biosensor. <i>Electroanalysis</i> , 2020 , 32, 2422-2430	3	2
30	Water insoluble, self-binding viologen functionalized ionic liquid for simultaneous electrochemical detection of nitrophenol isomers. <i>Analytica Chimica Acta</i> , 2020 , 1138, 89-98	6.6	5
29	Gold Nanoparticle-Redox Ionic Liquid based Nanoconjugated Matrix as a Novel Multifunctional Biosensing Interface. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 6076-6085	5.5	9
28	Identification and characterization of unknown degradation impurities in beclomethasone dipropionate cream formulation using HPLC, ESI-MS and NMR. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 167, 123-131	3.5	1
27	Covalent immobilization and enhanced electrical wiring of hemoglobin using gold nanoparticles encapsulated PAMAM dendrimer for electrochemical sensing of hydrogen peroxide. <i>Applied Surface Science</i> , 2019 , 495, 143540	6.7	23

26	Rationally designed naphthyl substituted amine functionalized ionic liquid platform for covalent immobilization and direct electrochemistry of hemoglobin. <i>Scientific Reports</i> , 2019 , 9, 10428	4.9	10
25	Electrochemical biosensor for the detection of hydrogen peroxide using cytochrome c covalently immobilized on carboxyl functionalized ionic liquid/multiwalled carbon nanotube hybrid. <i>Applied Surface Science</i> , 2019 , 492, 718-725	6.7	24
24	Aldehyde functionalized ionic liquid on electrochemically reduced graphene oxide as a versatile platform for covalent immobilization of biomolecules and biosensing. <i>Biosensors and Bioelectronics</i> , 2018 , 103, 104-112	11.8	45
23	Amperometric sensing of catechol using a glassy carbon electrode modified with ferrocene covalently immobilized on graphene oxide. <i>Mikrochimica Acta</i> , 2017 , 184, 2925-2932	5.8	24
22	A bioinspired ionic liquid tagged cobalt-salophen complex for nonenzymatic detection of glucose. <i>Biosensors and Bioelectronics</i> , 2017 , 91, 380-387	11.8	35
21	NHCmetal complexes based on benzimidazolium moiety for chemical transformation: 1st Cancer Update. <i>Arabian Journal of Chemistry</i> , 2016 , 9, S1765-S1778	5.9	13
20	Designing a sulphonic acid functionalized benzimidazolium based poly(ionic liquid) for efficient adsorption of hexavalent chromium. <i>RSC Advances</i> , 2016 , 6, 37757-37764	3.7	17
19	Graphene oxide supported copper oxide nanoneedles: An efficient hybrid material for removal of toxic azo dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016 , 166, 49-55	4.4	26
18	Designing versatile heterogeneous catalysts based on Ag and Au nanoparticles decorated on chitosan functionalized graphene oxide. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11329-40	3.6	76
17	Efficient degradation of azo dyes using Ag and Au nanoparticles stabilized on graphene oxide functionalized with PAMAM dendrimers. <i>New Journal of Chemistry</i> , 2014 , 38, 1551	3.6	85
16	Ionic liquid of a gold nanocluster: a versatile matrix for electrochemical biosensors. <i>ACS Nano</i> , 2014 , 8, 671-9	16.7	112
15	Carboxyl-functionalized ionic liquids based on Benzimidazolium cation: Study of Hammett values and catalytic activity towards one-pot synthesis of 1-amidoalkyl naphthols. <i>Journal of Molecular Catalysis A</i> , 2013 , 380, 112-117		35
14	Development and efficient 1-glycyl-3-methyl imidazolium chlorideCopper(II) complex catalyzed highly enantioselective synthesis of 3, 4-dihydropyrimidin-2(1H)-ones. <i>Journal of Organometallic Chemistry</i> , 2013 , 723, 154-162	2.3	37
13	Facile modification of ITO electrodes with functional materials through catalytic grafting of N-hydroxysuccinimidyl-ester-functionalized methallylsilane. <i>Electrochemistry Communications</i> , 2012 , 19, 123-126	5.1	8
12	Selective determination of dopamine using quantum-sized gold nanoparticles protected with charge selective ligands. <i>Nanoscale</i> , 2012 , 4, 4240-6	7.7	53
11	A novel L-asparaginyll Amido ethyl methyl imidazolium bromide catalyst for heterogeneous epoxidation of α -unsaturated ketones. <i>Journal of Molecular Liquids</i> , 2012 , 172, 136-139	6	6
10	Selective oxidation of alcohol to carbonyl compound catalyzed by l-aspartic acid coupled imidazolium based ionic liquid. <i>Journal of Molecular Liquids</i> , 2012 , 173, 180-183	6	9
9	A novel CuCl ₂ /BIL catalyst for direct oxidation of alcohol to acid at ambient temperature. <i>Catalysis Communications</i> , 2012 , 26, 189-193	3.2	19

8	Electrochemical sensing using quantum-sized gold nanoparticles. <i>Analytical Chemistry</i> , 2011 , 83, 3244-7	7.8	91
7	Holographic grating studies in pendant xanthene dyes containing poly(alkyloxymethacrylate)s. <i>Journal of Materials Science: Materials in Electronics</i> , 2011 , 22, 25-34	2.1	22
6	Amperometric Sensing Based on Glutathione Protected Au ₂₅ Nanoparticles and Their pH Dependent Electrocatalytic Activity. <i>Electroanalysis</i> , 2011 , 23, 2116-2124	3	32
5	Catalysis and mechanistic studies of ruthenium and osmium on synthesis of anthranilic acids. <i>Applied Organometallic Chemistry</i> , 2011 , 25, 34-46	3.1	6
4	Mechanically immobilized nickel aquapentacyanoferrate modified electrode as an amperometric sensor for the determination of BHA. <i>Talanta</i> , 2008 , 76, 54-9	6.2	21
3	Amperometric sensor for the determination of ascorbic acid based on Cobalt hexacyanoferrate modified electrode fabricated through a new route. <i>Chemical and Pharmaceutical Bulletin</i> , 2006 , 54, 963-7 ⁹		23
2	Electrochemical behaviour and electrocatalytic activity of a novel nickel aquapentacyanoferrate modified electrode. <i>Electrochemistry Communications</i> , 2006 , 8, 815-820	5.1	3
1	Development of a ferrocene-tethered ionic liquid modified electrode for non-enzymatic electrochemical sensing of NADH. <i>Journal of Materials Science: Materials in Electronics</i> , 1	2.1	0