

Sellappan Senthilkumar

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,313
citations

331538

21
h-index

360920

35
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47
all docs

47
docs citations

47
times ranked

1709
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic Liquid of a Gold Nanocluster: A Versatile Matrix for Electrochemical Biosensors. ACS Nano, 2014, 8, 671-679.	7.3	131
2	Efficient degradation of azo dyes using Ag and Au nanoparticles stabilized on graphene oxide functionalized with PAMAM dendrimers. New Journal of Chemistry, 2014, 38, 1551.	1.4	103
3	Electrochemical Sensing Using Quantum-Sized Gold Nanoparticles. Analytical Chemistry, 2011, 83, 3244-3247.	3.2	101
4	Designing versatile heterogeneous catalysts based on Ag and Au nanoparticles decorated on chitosan functionalized graphene oxide. Physical Chemistry Chemical Physics, 2015, 17, 11329-11340.	1.3	96
5	Selective determination of dopamine using quantum-sized gold nanoparticles protected with charge selective ligands. Nanoscale, 2012, 4, 4240.	2.8	55
6	Aldehyde functionalized ionic liquid on electrochemically reduced graphene oxide as a versatile platform for covalent immobilization of biomolecules and biosensing. Biosensors and Bioelectronics, 2018, 103, 104-112.	5.3	55
7	Development and efficient 1-glycyl-3-methyl imidazolium chloride-copper(II) complex catalyzed highly enantioselective synthesis of 3, 4-dihydropyrimidin-2(1H)-ones. Journal of Organometallic Chemistry, 2013, 723, 154-162.	0.8	44
8	Carboxyl-functionalized ionic liquids based on Benzimidazolium cation: Study of Hammett values and catalytic activity towards one-pot synthesis of 1-amidoalkyl naphthols. Journal of Molecular Catalysis A, 2013, 380, 112-117.	4.8	41
9	A bioinspired ionic liquid tagged cobalt-salophen complex for nonenzymatic detection of glucose. Biosensors and Bioelectronics, 2017, 91, 380-387.	5.3	41
10	Luminescent chitosan/carbon dots as an effective nano-drug carrier for neurodegenerative diseases. RSC Advances, 2020, 10, 24386-24396.	1.7	40
11	Electrochemical biosensor for the detection of hydrogen peroxide using cytochrome c covalently immobilized on carboxyl functionalized ionic liquid/multiwalled carbon nanotube hybrid. Applied Surface Science, 2019, 492, 718-725.	3.1	36
12	Amperometric Sensing Based on Glutathione Protected Au ₂₅ Nanoparticles and Their pH Dependent Electrocatalytic Activity. Electroanalysis, 2011, 23, 2116-2124.	1.5	35
13	Amperometric sensing of catechol using a glassy carbon electrode modified with ferrocene covalently immobilized on graphene oxide. Mikrochimica Acta, 2017, 184, 2925-2932.	2.5	35
14	Graphene oxide supported copper oxide nanoneedles: An efficient hybrid material for removal of toxic azo dyes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 166, 49-55.	2.0	34
15	Covalent immobilization and enhanced electrical wiring of hemoglobin using gold nanoparticles encapsulated PAMAM dendrimer for electrochemical sensing of hydrogen peroxide. Applied Surface Science, 2019, 495, 143540.	3.1	34
16	Facile synthesis of polyaniline/titanium carbide (MXene) nanosheets/palladium nanocomposite for efficient electrocatalytic oxidation of methanol for fuel cell application. Fuel, 2021, 303, 121329.	3.4	33
17	Holographic grating studies in pendant xanthene dyes containing poly(alkyloxymethacrylate)s. Journal of Materials Science: Materials in Electronics, 2011, 22, 25-34.	1.1	32
18	Design and synthesis of phenothiazine based imidazolium ionic liquid for electrochemical nonenzymatic detection of sulfite in food samples. Journal of Molecular Liquids, 2020, 301, 112412.	2.3	30

#	ARTICLE	IF	CITATIONS
19	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, 963-967.	0.6	27
20	Mechanically immobilized nickel aquapentacyanoferrate modified electrode as an amperometric sensor for the determination of BHA. <i>Talanta</i> , 2008, 76, 54-59.	2.9	26
21	Designing electrochemical NADH sensor using silver nanoparticles/phenothiazine nano hybrid and investigation on the shape dependent sensing behavior. <i>Sensors and Actuators B: Chemical</i> , 2021, 347, 130649.	4.0	24
22	A novel CuCl ₂ /BIL catalyst for direct oxidation of alcohol to acid at ambient temperature. <i>Catalysis Communications</i> , 2012, 26, 189-193.	1.6	23
23	Designing a sulphonic acid functionalized benzimidazolium based poly(ionic liquid) for efficient adsorption of hexavalent chromium. <i>RSC Advances</i> , 2016, 6, 37757-37764.	1.7	20
24	Redox-active gold nanoparticle-encapsulated poly(amidoamine) dendrimer for electrochemical sensing of 4-aminophenol. <i>Journal of Molecular Liquids</i> , 2021, 325, 115131.	2.3	19
25	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> , 2022, 293, 118556.	3.7	19
26	NHC-metal complexes based on benzimidazolium moiety for chemical transformation. <i>Arabian Journal of Chemistry</i> , 2016, 9, S1765-S1778.	2.3	17
27	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.	2.6	17
28	Rationally designed naphthyl substituted amine functionalized ionic liquid platform for covalent immobilization and direct electrochemistry of hemoglobin. <i>Scientific Reports</i> , 2019, 9, 10428.	1.6	16
29	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.	2.5	15
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.	2.6	14
31	Viologen-terminated polyamidoamine (PAMAM) dendrimer encapsulated with gold nanoparticles for nonenzymatic determination of hydrogen peroxide. <i>Materials Today Chemistry</i> , 2020, 16, 100274.	1.7	11
32	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.	5.0	11
33	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.	2.3	10
34	Novel palladium-decorated molybdenum carbide/polyaniline nano hybrid material as superior electrocatalyst for fuel cell application. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 37599-37608.	3.8	10
35	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.	2.3	9
36	A novel L-asparaginyll Amido ethyl methyl imidazolium bromide catalyst for heterogeneous epoxidation of α,β -unsaturated ketones. <i>Journal of Molecular Liquids</i> , 2012, 172, 136-139.	2.3	8

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37	Identification and characterization of unknown degradation impurities in beclomethasone dipropionate cream formulation using HPLC, ESI-MS and NMR. Journal of Pharmaceutical and Biomedical Analysis, 2019, 167, 123-131.	1.4	8
38	Quaternary Ammonium Based Carboxyl Functionalized Ionic Liquid for Covalent Immobilization of Horseradish Peroxidase and Development of Electrochemical Hydrogen Peroxide Biosensor. Electroanalysis, 2020, 32, 2422-2430.	1.5	8
39	Catalysis and mechanistic studies of ruthenium and osmium on synthesis of anthranilic acids. Applied Organometallic Chemistry, 2011, 25, 34-46.	1.7	7
40	Benzimidazolium ionic liquid tagged phenazine salophen as a bifunctional "on"™ PET based fluorescent sensor for aqueous phase detection of trinitrotoluene and picric acid. Journal of Materials Chemistry C, 2022, 10, 7949-7961.	2.7	5
41	Development of a ferrocene-tethered ionic liquid modified electrode for non-enzymatic electrochemical sensing of NADH. Journal of Materials Science: Materials in Electronics, 2022, 33, 8576-8585.	1.1	4
42	Porous graphene oxide based disposable non-enzymatic electrochemical sensor for the determination of nicotinamide adenine dinucleotide. Micro and Nano Engineering, 2022, 15, 100133.	1.4	4
43	Electrochemical behaviour and electrocatalytic activity of a novel nickel aquapentacyanoferrate modified electrode. Electrochemistry Communications, 2006, 8, 815-820.	2.3	3
44	(Invited) Electrochemical Sensing Using Molecule-like Gold Nanoclusters. ECS Transactions, 2016, 75, 131-138.	0.3	1
45	Metal oxide-graphene nanocomposite modified electrochemical sensors for toxic chemicals. , 2021, , 139-171.		1
46	Design and mechanism of iron catalyzed carbon-carbon bond cleavage and N-oxidation processes of hazardous dyes for selective synthesis of nitroarenes and aminoarene-carboxylic acids. Journal of Molecular Catalysis A, 2011, , .	4.8	0
47	CHAPTER 11. Quantum Dots-based Disposable Sensors. RSC Detection Science, 2021, , 314-352.	0.0	0