

Subramanian Sakthinathan

List of Publications by Year in descending order

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63
papers

1,389
citations

279487

23
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377514

34
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64
all docs

64
docs citations

64
times ranked

1538
citing authors

#	ARTICLE	IF	CITATIONS
1	Environmentally friendly synthesis of CeO ₂ nanoparticles for the catalytic oxidation of benzyl alcohol to benzaldehyde and selective detection of nitrite. <i>Scientific Reports</i> , 2017, 7, 46372.	1.6	100
2	Design of novel 3D flower-like neodymium molybdate: An efficient and challenging catalyst for sensing and destroying pulmonary toxicity antibiotic drug nitrofurantoin. <i>Chemical Engineering Journal</i> , 2018, 346, 11-23.	6.6	75
3	Green reduction of reduced graphene oxide with nickel tetraphenyl porphyrin nanocomposite modified electrode for enhanced electrochemical determination of environmentally pollutant nitrobenzene. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 207-216.	5.0	65
4	Preparation of β -cyclodextrin entrapped graphite composite for sensitive detection of dopamine. <i>Carbohydrate Polymers</i> , 2016, 135, 267-273.	5.1	52
5	A cerium vanadate interconnected with a carbon nanofiber heterostructure for electrochemical determination of the prostate cancer drug nilutamide. <i>Mikrochimica Acta</i> , 2019, 186, 579.	2.5	52
6	Reduced Graphene Oxide Non-covalent Functionalized with Zinc Tetra Phenyl Porphyrin Nanocomposite for Electrochemical Detection of Dopamine in Human Serum and Rat Brain Samples. <i>Electroanalysis</i> , 2016, 28, 2126-2135.	1.5	46
7	Development of novel 3D flower-like praseodymium molybdate decorated reduced graphene oxide: An efficient and selective electrocatalyst for the detection of acetylcholinesterase inhibitor methyl parathion. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 353-361.	4.0	45
8	Hydrothermal synthesis of silver molybdate/reduced graphene oxide hybrid composite: An efficient electrode material for the electrochemical detection of tryptophan in food and biological samples. <i>Composites Part B: Engineering</i> , 2019, 169, 249-257.	5.9	45
9	Reduced Graphene Oxide Supported Cobalt Bipyridyl Complex for Sensitive Detection of Methyl Parathion in Fruits and Vegetables. <i>Electroanalysis</i> , 2017, 29, 1950-1960.	1.5	43
10	Influence of self-assembly on intercalative DNA binding interaction of double-chain surfactant Co(III) complexes containing imidazo[4,5-f][1,10]phenanthroline and dipyrrodo[3,2-d:2'-3'-f]quinoxaline ligands: experimental and theoretical study. <i>Dalton Transactions</i> , 2014, 43, 18074-18086.	1.6	41
11	Platinum incorporated mordenite zeolite modified glassy carbon electrode used for selective electrochemical detection of mercury ions. <i>Microporous and Mesoporous Materials</i> , 2020, 292, 109770.	2.2	41
12	Electrocatalytic oxidation of dopamine based on non-covalent functionalization of manganese tetraphenylporphyrin/reduced graphene oxide nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2016, 468, 120-127.	5.0	40
13	Metallated porphyrin noncovalent interaction with reduced graphene oxide-modified electrode for amperometric detection of environmental pollutant hydrazine. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3703.	1.7	36
14	Highly selective electrochemical detection of antipsychotic drug chlorpromazine in drug and human urine samples based on peas-like strontium molybdate as an electrocatalyst. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 643-655.	3.0	32
15	Hexamine cobalt(III) coordination complex grafted reduced graphene oxide composite for sensitive and selective electrochemical determination of morin in fruit samples. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1145-1155.	3.0	32
16	Novel Bifunctional Electrocatalyst for ORR Activity and Methyl Parathion Detection Based on Reduced Graphene Oxide/Palladium Tetraphenylporphyrin Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14096-14107.	1.5	30
17	Catalytic activity of ratio-dependent SBA-15 supported zirconia catalysts for highly selective oxidation of benzyl alcohol to benzaldehyde and environmental pollutant heavy metal ions detection. <i>Journal of Molecular Structure</i> , 2019, 1176, 650-661.	1.8	29
18	Catalytic transformation of non-edible oils to biofuels through hydrodeoxygenation using Mo-Ni/mesoporous alumina-silica catalysts. <i>Fuel</i> , 2020, 262, 116494.	3.4	28

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19	A non-covalent functionalization of copper tetraphenylporphyrin/chemically reduced graphene oxide nanocomposite for the selective determination of dopamine. <i>Applied Organometallic Chemistry</i> , 2016, 30, 40-46.	1.7	27
20	Simple Sonochemical Synthesis of Cupric Oxide Sphere Decorated Reduced Graphene Oxide Composite for the Electrochemical Detection of Flutamide Drug in Biological Samples. <i>Journal of the Electrochemical Society</i> , 2019, 166, B68-B75.	1.3	27
21	Production of hydrogen from steam reforming of methanol carried out by self-combusted CuCr _{1-x} Fe _x O ₂ (x = 0-1) nanopowders catalyst. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2848-2856.	3.8	27
22	Investigation of electrocatalytic and photocatalytic ability of Cu/Ni/TiO ₂ /MWCNTs Nanocomposites for detection and degradation of antibiotic drug Furaltadone. <i>Scientific Reports</i> , 2022, 12, 886.	1.6	27
23	CuFeO ₂ -CeO ₂ nanopowder catalyst prepared by self-combustion glycine nitrate process and applied for hydrogen production from methanol steam reforming. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15752-15762.	3.8	25
24	Hydrothermal Synthesis of Three Dimensional Graphene-Multiwalled Carbon Nanotube Nanocomposite for Enhanced Electro Catalytic Oxidation of Caffeic Acid. <i>Electroanalysis</i> , 2017, 29, 1103-1112.	1.5	24
25	Highly sensitive and selective electrochemical detection of dopamine based on CuCrO ₂ -TiO ₂ composite decorated screen-printed modified electrode. <i>Microchemical Journal</i> , 2021, 160, 105694.	2.3	24
26	Reduced graphene oxide/gold tetraphenyl porphyrin (RGO/Au-TPP) nanocomposite as an ultrasensitive amperometric sensor for environmentally toxic hydrazine. <i>RSC Advances</i> , 2016, 6, 56375-56383.	1.7	22
27	Functionalization of Reduced Graphene Oxide with β -cyclodextrin Modified Palladium Nanoparticles for the Detection of Hydrazine in Environmental Water Samples. <i>Electroanalysis</i> , 2017, 29, 587-594.	1.5	22
28	Electrochemically Activated Screen Printed Carbon Electrode Decorated with Nickel Nano Particles for the Detection of Glucose in Human Serum and Human Urine Sample. <i>International Journal of Electrochemical Science</i> , 2016, 11, 7934-7946.	0.5	20
29	Nucleic acid binding study of surfactant copper(II) complex containing dipyrido[3,2-a:2'-3'-c]phenazine ligand as an intercalator: in vitro antitumor activity of complex in human liver carcinoma (HepG2) cancer cells. <i>RSC Advances</i> , 2014, 4, 56084-56094.	1.7	19
30	Ecofriendly preparation of graphene sheets decorated with an ethylenediamine copper(II) complex composite modified electrode for the selective detection of hydroquinone in water. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 490-500.	3.0	19
31	Highly selective oxidation of benzyl alcohol over Pt-sulphated zirconia supported on SBA-15 catalyst by using a high-pressure fixed bed reactor. <i>Polyhedron</i> , 2018, 155, 390-397.	1.0	19
32	Synthesis, CMC Determination, Antimicrobial Activity and Nucleic Acid Binding of A Surfactant Copper(II) Complex Containing Phenanthroline and Alanine Schiff-Base. <i>Journal of Fluorescence</i> , 2014, 24, 589-598.	1.3	18
33	Synthesis, micellization behavior, antimicrobial and intercalative DNA binding of some novel surfactant copper(II) complexes containing modified phenanthroline ligands. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 151-157.	2.5	18
34	Synthesis of N-rGO-MWCNT/CuCrO ₂ Catalyst for the Bifunctional Application of Hydrogen Evolution Reaction and Electrochemical Detection of Bisphenol-A. <i>Catalysts</i> , 2021, 11, 301.	1.6	16
35	Multiwalled carbon nanotube supported Schiff base copper complex inorganic nanocomposite for enhanced electrochemical detection of dopamine. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 809-819.	3.0	15
36	Reduced Graphene Oxide/Multiwalled Carbon Nanotube Composite Decorated with Fe ₃ O ₄ Magnetic Nanoparticles for Electrochemical Determination of Hydrazine in Environmental Water. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3148-3156.	0.9	15

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37	Preparation of Samarium Oxide Nanoparticles Decorated Functionalized Multiwall Carbon Nanotubes Modified Electrode for the Electrochemical Determination of Catechol. <i>International Journal of Electrochemical Science</i> , 2018, 13, 6996-7007.	0.5	14
38	A non-covalent interaction of Schiff base copper alanine complex with green synthesized reduced graphene oxide for highly selective electrochemical detection of nitrite. <i>RSC Advances</i> , 2016, 6, 107416-107425.	1.7	13
39	Hydrothermal synthesis of high surface area CuCrO_2 for H_2 production by methanol steam reforming. <i>RSC Advances</i> , 2021, 11, 12607-12613.	1.7	13
40	A Highly Selective and Sensitive Detection of Ellagic Acid by Using Ethylenediamine Ligand Based Cobalt (II) Complex Modified Glassy Carbon Electrode. <i>International Journal of Electrochemical Science</i> , 2017, 12, 6829-6841.	0.5	12
41	An approach to develop high performance supercapacitor using Bi_2O_3 based binary and ternary nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 22417-22426.	1.1	12
42	Hydrogen generation by methanol steam reforming process by delafossite-type CuYO_2 nanopowder catalyst. <i>Microporous and Mesoporous Materials</i> , 2021, 324, 111305.	2.2	11
43	Preparation of CuCrO_2 Hollow Nanotubes from an Electrospun Al_2O_3 Template. <i>Nanomaterials</i> , 2019, 9, 1252.	1.9	10
44	Novel construction of carbon nanofiber/ CuCrO_2 composite for selective determination of 4-nitrophenol in environmental samples and for supercapacitor application. <i>RSC Advances</i> , 2021, 11, 15856-15870.	1.7	9
45	Synthesis, Micellization Behaviour, DNA/RNA Binding and Biological Studies of a Surfactant Cobalt(III) Complex With Dipyrido[3,2-a:2',4'-c](6,7,8,9-tetrahydro)phenazine. <i>Journal of Fluorescence</i> , 2014, 24, 1701-1714.	1.3	8
46	Anisotropic delafossite-type CuFeO_2 thin films deposited by electrospinning with rotating collector. <i>Journal of the Ceramic Society of Japan</i> , 2019, 127, 498-503.	0.5	8
47	Enhanced Electrocatalytic Activity of Non-metal-Doped Transition Metal Oxides for an Electrochemical Detection of Furazolidone. <i>Electrocatalysis</i> , 2022, 13, 348-360.	1.5	8
48	Preparation of CuAl_2O_4 submicron tubes from electrospun Al_2O_3 fibers. <i>Ceramics International</i> , 2019, 45, 1439-1442.	2.3	7
49	Highly sensitive detection of environmental pollutant cadmium with ultrasonic irradiated Pt-supported ZSM-5 modified electrode. <i>Microporous and Mesoporous Materials</i> , 2020, 307, 110449.	2.2	7
50	Biophysical insights into the intercalative interaction of surfactant cobalt(III) complexes of certain diimine ligands bound to yeast tRNA: Effects of hydrophobicity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 147, 93-98.	2.0	6
51	Synthesis, CMC determination and nucleic acid-binding interaction of a surfactant copper(II) complex containing amino acid-Schiff base ligand: $[\text{Cu}(\text{sal-ala})(\text{bpy})(\text{DA})]$. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 267-275.	1.2	6
52	Efficient Electrocatalyst for Hydrogen Evolution Reaction based on N-rGO-MWCNT/ CuAlO_2 Nanocomposite in Acidic Media. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 045011.	0.9	6
53	Activated Graphite Supported Tunable Au-Pd Bimetallic Nanoparticle Composite Electrode for Methanol Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 6376-6384.	0.9	4
54	Preparation of CuCrO_2 Anisotropic Dela-fossite-Type Thin Film by Electrospinning on Glass Substrates. <i>Ceramics</i> , 2021, 4, 364-377.	1.0	4

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55	Thermodynamics and kinetic investigation of electron transfer reactions of surfactant cobalt(III) complexes containing diimine ligands with iron(II) in the presence of liposome vesicles and amphiphilic salt media. RSC Advances, 2014, 4, 56068-56073.	1.7	3
56	Effect of hydrophobicity on intercalative binding of some surfactant copper(II) complexes with tRNA. Monatshefte für Chemie, 2014, 145, 1897-1902.	0.9	3
57	Preparation and characterization of CuCrO ₂ @CeO ₂ nanofibers by electrospinning method. Journal of Materials Science: Materials in Electronics, 2022, 33, 1091-1100.	1.1	3
58	Preparation of IT-SOFC with Pr ₂ NiO ₄ cathode and hybrid Ce _{0.8} Sm _{0.2} O _{1.9} electrolyte. Journal of the Ceramic Society of Japan, 2019, 127, 249-253.	0.5	2
59	A comparative study on the electron transfer reaction (ETR) of surfactant cobalt(III) complexes of aliphatic/aromatic ligands in micro heterogeneous media: a thermodynamic approach. RSC Advances, 2015, 5, 48079-48085.	1.7	1
60	Electron-transfer reactions of cobalt(III) complexes. 1. The kinetic investigation of the reduction of various surfactant cobalt(III) complexes by iron(II) in surface active ionic liquids. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 143, 101-106.	2.0	1
61	Electrospinning of Pr ₂ CuO ₄ Fiber and its Cathode Application in Solid Oxide Fuel Cell. Transactions of the Materials Research Society of Japan, 2018, 43, 43-47.	0.2	1
62	Environmental Remediation of Toxic Organic Pollutants Using Visible-Light-Activated Cu/La/CeO ₂ /GO Nanocomposites. Materials, 2021, 14, 6143.	1.3	1
63	Kinetics and Thermodynamics of Formation and Electron-Transfer Reactions of Surfactant Cobalt(III) Complexes Containing Polypyridyl Ligands with Fe(CN) ₆ ⁴⁻ in Microheterogeneous Environment. International Journal of Chemical Kinetics, 2015, 47, 174-182.	1.0	0