

Suresh Ranganathan

List of Publications by Year in descending order

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90
papers

1,867
citations

236833

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h-index

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39
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91
all docs

91
docs citations

91
times ranked

2522
citing authors

#	ARTICLE	IF	CITATIONS
1	Current advances in microbial fuel cell technology toward removal of organic contaminants – A review. <i>Chemosphere</i> , 2022, 287, 132186.	4.2	39
2	Defective Ce ³⁺ -associated CeO ₂ nanoleaves for enhanced CO oxidation. <i>Fuel</i> , 2022, 315, 122822.	3.4	8
3	Halides and oxyhalides-based photocatalysts for abatement of organic water contaminants – An overview. <i>Environmental Research</i> , 2022, 212, 113149.	3.7	12
4	Bismuth sulphide/reduced graphene oxide nanocomposites as an electrochemical sensing platform for hexanitrodiphenylamine. <i>Materials Letters</i> , 2021, 283, 128804.	1.3	9
5	Self-assembled Ni/NiO impregnated polyaniline nanoarchitectures: A robust bifunctional catalyst for nitrophenol reduction and epinephrine detection. <i>Applied Catalysis A: General</i> , 2021, 613, 118028.	2.2	15
6	Recent advancements of spinel ferrite based binary nanocomposite photocatalysts in wastewater treatment. <i>Chemosphere</i> , 2021, 274, 129734.	4.2	86
7	Recent progress in green and biopolymer based photocatalysts for the abatement of aquatic pollutants. <i>Environmental Research</i> , 2021, 199, 111324.	3.7	24
8	A review on recent advancements in photocatalytic remediation for harmful inorganic and organic gases. <i>Chemosphere</i> , 2021, 284, 131344.	4.2	35
9	Electrochemical sensing of tyrosine and removal of toxic dye using self-assembled three-dimensional CuBi ₂ O ₄ /rGO microsphere composite. <i>Colloids and Interface Science Communications</i> , 2021, 45, 100523.	2.0	15
10	One-step synthesis, characterisation, photocatalytic and bio-medical applications of ZnO nanoplates. <i>Materials Technology</i> , 2020, 35, 112-124.	1.5	23
11	One-step synthesis of CuO nanoparticles and their effects on H9c2 cardiomyoblasts cells. <i>Inorganic and Nano-Metal Chemistry</i> , 2020, 50, 644-653.	0.9	3
12	Fabrication of Ag@Co-Al Layered Double Hydroxides Reinforced poly(o-phenylenediamine) Nanohybrid for Efficient Electrochemical Detection of 4-Nitrophenol, 2,4-Dinitrophenol and Uric acid at Nano Molar Level. <i>Scientific Reports</i> , 2019, 9, 13250.	1.6	28
13	Bifunctional hexagonal Ni/NiO nanostructures: influence of the core-shell phase on magnetism, electrochemical sensing of serotonin, and catalytic reduction of 4-nitrophenol. <i>Nanoscale Advances</i> , 2019, 1, 1531-1540.	2.2	39
14	Unraveling the synergistic influences of graphene and CuO on the structural, photon and phonon properties of graphene:CuO nanocomposites. <i>Carbon</i> , 2019, 152, 766-776.	5.4	9
15	An Assortment of Synthesis Methods of Silver Nanoparticles: A Review. <i>Asian Journal of Chemistry</i> , 2019, 31, 1405-1412.	0.1	3
16	Characterization and visible light driven photocatalytic activity of (Mn=Bi, La) MVO ₄ @poly(o-phenylenediamine) nanocomposite. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 240, 41-48.	1.7	12
17	Visible light assisted photodegradation of thimerosal by high performance ZnFe ₂ O ₄ /poly(o-phenylenediamine) composite. <i>Materials Research Bulletin</i> , 2019, 116, 8-15.	2.7	22
18	Multivariate approach to hydrogenated TiO ₂ photocatalytic activity under visible light. <i>Water Environment Research</i> , 2019, 91, 157-164.	1.3	11

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19	Grapheneâ€“Metal Chalcogenide Modified Electrochemical Sensors. , 2019, , 139-153.		5
20	Synthesis and characterization of GaN/PEDOTâ€“PPY nanocomposites and its photocatalytic activity and electrochemical detection of mebendazole. Arabian Journal of Chemistry, 2019, 12, 3565-3575.	2.3	20
21	Effect of reduced graphene oxide on the structural, optical, adsorption and photocatalytic properties of iron oxide nanoparticles. New Journal of Chemistry, 2018, 42, 8485-8493.	1.4	32
22	Solid-state synthesis and characterization of $\text{Fe}^{1\pm}\text{-Fe}_2\text{O}_3\text{@ZnO}$ nanocomposites with enhanced visible light driven photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2018, 29, 20347-20355.	1.1	13
23	Synthesis of $\text{Ni}_0.2\text{Fe}_{1.8}\text{O}_3$ /polyaniline magnetic nanocomposite with excellent photocatalytic activity. Materials Letters, 2017, 208, 27-30.	1.3	4
24	Synthesis of Co^{2+} -doped Fe_2O_3 photocatalyst for degradation of pararosaniline dye. Solid State Sciences, 2017, 68, 39-46.	1.5	44
25	ZnO nanoparticles: hydrothermal synthesis and 4-nitrophenol sensing property. Journal of Materials Science: Materials in Electronics, 2017, 28, 9272-9278.	1.1	10
26	Glassy carbon electrode modified with poly(methyl orange) as an electrochemical platform for the determination of 4-nitrophenol at nanomolar levels. Current Applied Physics, 2017, 17, 1114-1119.	1.1	31
27	Photocatalytic degradation of roxarsone by using synthesized ZnO nanoplates. Solar Energy, 2017, 157, 335-341.	2.9	38
28	Solventless synthesis of m-LaVO ₄ photocatalyst for the degradation of methylene blue and textile effluent. Journal of Materials Science: Materials in Electronics, 2017, 28, 4014-4019.	1.1	13
29	Manganese-doped hematite nanoplates with enhanced and non-enzymatic electrochemical sensing performance. Inorganic and Nano-Metal Chemistry, 2017, 47, 450-455.	0.9	2
30	Preparation, Characterization and Antibacterial Activity of NiO Nanoparticles. Asian Journal of Chemistry, 2017, 29, 239-241.	0.1	5
31	Spectroscopic characterisation and antibacterial activity of ZnO nanosheets. Karbala International Journal of Modern Science, 2016, 2, 196-202.	0.5	16
32	Sensing of picric acid with a glassy carbon electrode modified with CuS nanoparticles deposited on nitrogen-doped reduced graphene oxide. Mikrochimica Acta, 2016, 183, 2421-2430.	2.5	35
33	Simultaneous determination of paracetamol and 4-aminophenol based on poly(chromium Schiff base) Tj ETQq1 1 0,784314 rgBT /Over	2.6	49
34	Ag@Ag ₈ W ₄ O ₁₆ nanoroasted rice beads with photocatalytic, antibacterial and anticancer activity. Materials Science and Engineering C, 2016, 60, 109-118.	3.8	29
35	Polyaniline Nanorods: Synthesis, Characterization, and Application for the Determination of <i>para</i> -Nitrophenol. Analytical Letters, 2016, 49, 269-281.	1.0	23
36	Molybdenum oxide nanocubes: Synthesis and characterizations. AIP Conference Proceedings, 2015, , .	0.3	4

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37	Synthesis of New Acyclic Schiff Base Oxovanadium(IV) Complexes and Their Electrochemical, Catecholase, and Antimicrobial Studies of Minimum Inhibitory Concentration. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2015, 45, 1647-1654.	0.6	4
38	Manganese sesquioxide to trimanganese tetroxide hierarchical hollow nanostructures: effect of gadolinium on structural, thermal, optical and magnetic properties. <i>CrystEngComm</i> , 2015, 17, 2886-2895.	1.3	33
39	Synthesis, growth and photoluminescence behaviour of Gd ₂ O ₂ SO ₄ :Eu ³⁺ nanophosphors: the effect of temperature on the structural, morphological and optical properties. <i>RSC Advances</i> , 2015, 5, 7515-7521.	1.7	22
40	Synthesis and characterization of chromium(III) Schiff base complexes: Antimicrobial activity and its electrocatalytic sensing ability of catechol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 139, 431-441.	2.0	32
41	AgVO ₃ nanorods: Synthesis, characterization and visible light photocatalytic activity. <i>Solid State Sciences</i> , 2015, 39, 34-39.	1.5	48
42	MnWO ₄ nanocapsules: Synthesis, characterization and its electrochemical sensing property. <i>Journal of Alloys and Compounds</i> , 2015, 619, 601-609.	2.8	77
43	Facile Synthesis and Characterization of Zn ₂ V ₂ O ₇ Nanoparticles. <i>Asian Journal of Chemistry</i> , 2014, 26, 6503-6506.	0.1	4
44	Solid state synthesis of copper tungstate nanoparticles and its electrochemical detection of 4-chlorophenol. <i>AIP Conference Proceedings</i> , 2014, , .	0.3	9
45	Fe ₂ O ₃ @polyaniline nanocomposite: Characterization and unusual sensing property. <i>Materials Letters</i> , 2014, 128, 369-372.	1.3	15
46	Î±-Fe ₂ O ₃ nanoflowers: synthesis, characterization, electrochemical sensing and photocatalytic property. <i>Journal of the Iranian Chemical Society</i> , 2014, 11, 645-652.	1.2	18
47	Doping of Co into V ₂ O ₅ nanoparticles enhances photodegradation of methylene blue. <i>Journal of Alloys and Compounds</i> , 2014, 598, 151-160.	2.8	95
48	Copper vanadate nanoparticles: synthesis, characterization and its electrochemical sensing property. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1485-1491.	1.1	34
49	Spectroscopic investigations, antimicrobial, and cytotoxic activity of green synthesized gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 129, 484-490.	2.0	50
50	Preparation of nitrogen-doped reduced graphene oxide and its use in a glassy carbon electrode for sensing 4-nitrophenol at nanomolar levels. <i>Mikrochimica Acta</i> , 2014, 181, 1863-1870.	2.5	23
51	Characterization and dopamine sensing property of V ₂ O ₅ @polyaniline nano hybrid. <i>Synthetic Metals</i> , 2014, 196, 151-157.	2.1	26
52	Characterization of Mo-MCM-41 and its Electrochemical Sensing Property. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2014, 44, 1194-1198.	0.6	3
53	Synthesis, characterization, catalytic, antimicrobial, DNA binding and cleavage studies of N-functionalized tetraazamacrocyclic binuclear copper(II) complexes. <i>Journal of the Iranian Chemical Society</i> , 2014, 11, 825-837.	1.2	3
54	Fabrication of Ni@Fe ₂ O ₃ magnetic nanorods and application to the detection of uric acid. <i>RSC Advances</i> , 2014, 4, 17146.	1.7	103

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55	New electrochemical sensor based on Ni-doped V ₂ O ₅ nanoplates modified glassy carbon electrode for selective determination of dopamine at nanomolar level. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 440-447.	4.0	69
56	Electrochemical sensing behaviour of Ni doped Fe ₃ O ₄ nanoparticles. , 2014, , .		5
57	Synthesis, characterization, optical and sensing property of manganese oxide nanoparticles. , 2014, , .		7
58	Synthesis of zinc sulphide nanoparticles and its photodegradation ability towards organic pollutants. , 2014, , .		0
59	Nanomolar determination of 4-nitrophenol based on a poly(methylene blue)-modified glassy carbon electrode. <i>Analyst</i> , 2013, 138, 5811.	1.7	75
60	Cadmium oxide nanoplatelets: synthesis, characterization and their electrochemical sensing property of catechol. <i>Journal of the Iranian Chemical Society</i> , 2013, 10, 771-776.	1.2	18
61	Aqueous based synthesis of Cu ₅ Se ₄ nanosheets and characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1888-1894.	1.1	15
62	Fabrication of iron oxide nanoparticles: magnetic and electrochemical sensing property. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1256-1263.	1.1	21
63	Structural, optical and magnetic properties of gadolinium sesquioxide nanobars synthesized via thermal decomposition of gadolinium oxalate. <i>Materials Research Bulletin</i> , 2013, 48, 4210-4215.	2.7	20
64	Synthesis and characterization of bimetallic nanocatalysts and their application in selective hydrogenation of citral to unsaturated alcohols. <i>Journal of Chemical Sciences</i> , 2013, 125, 1365-1374.	0.7	9
65	Synthesis, crystal structure, magnetic, DSS cell, lifetime measurement, electrochemical, catecholase activity, and antimicrobial studies of mono and hetero binuclear cryptates. <i>Journal of the Iranian Chemical Society</i> , 2013, 10, 63-76.	1.2	3
66	Synthesis, characterization, catalytic, and biological studies of macrobicyclic binuclear nickel(II) complexes of 1,8-difunctionalized cyclam derivatives. <i>Journal of Coordination Chemistry</i> , 2013, 66, 206-217.	0.8	15
67	Spectral, electrochemical, luminescence and dye sensitized solar cell studies of mono and d-f hetero binuclear cryptates. <i>Turkish Journal of Chemistry</i> , 2013, , .	0.5	4
68	Fe ₂ O ₃ and V ₂ O ₅ Nanoparticles: A New Voltammetric Sensor. <i>Advanced Materials Research</i> , 2013, 678, 331-334.	0.3	0
69	Synthesis of reduced graphene oxide and its electrochemical sensing of 4-nitrophenol. , 2013, , .		0
70	Electrochemical sensing property of Mn doped Fe ₃ O ₄ nanoparticles. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	8
71	Electrocatalytic Property of Nano-Fe ₃ O ₄ Modified Glassy Carbon Electrode. <i>Advanced Materials Research</i> , 2012, 584, 272-275.	0.3	0
72	Visible light photocatalytic property of Zn doped V ₂ O ₅ nanoparticles. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	12

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73	Fabrication of Fe_2O_3 Nanoparticles for the Electrochemical Detection of Uric Acid. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2012, 42, 303-307.	0.6	22
74	Facile synthesis of cobalt doped hematite nanospheres: Magnetic and their electrochemical sensing properties. <i>Materials Chemistry and Physics</i> , 2012, 134, 590-596.	2.0	62
75	Spectral, Electrochemical, Fluorescence, Kinetic and Anti-microbial Studies of Acyclic Schiff-base Gadolinium(III) Complexes. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 3581-3588.	1.0	5
76	Poly(anthranilic acid) Microspheres: Synthesis, Characterization and their Electrocatalytic Properties. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 1919-1924.	1.0	14
77	Cadmium Sulphide Nanorods: Synthesis, Characterization and their Photocatalytic Activity. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 2910-2916.	1.0	33
78	Synthesis, characterization and electrochemical sensing properties of Fe doped V_2O_5 nanoparticles. , 2011, , .		1
79	Cadmium oxide as electrochemical probe for nitrophenols. , 2011, , .		0
80	Synthesis, Charaterization and Electrochemical Sensing Properties of PANI-Cobalt doped Fe_2O_3 Nanocomposites. , 2011, , .		0
81	Electrochemical, catalytic and antimicrobial activity of N-functionalized tetraazamacrocyclic binuclear nickel(II) complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 601-606.	2.0	9
82	New acyclic Schiff-base copper(II) complexes and their electrochemical, catalytic, and antimicrobial studies. <i>Journal of Coordination Chemistry</i> , 2011, 64, 637-650.	0.8	19
83	New Acyclic Schiff-Base Nickel(II) Complexes and their Electrochemical, Kinetic, and Antimicrobial Studies. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2011, 41, 963-972.	0.6	7
84	New Unsymmetric Dinuclear Copper(II) Complexes of Trans-disubstituted Cyclam Derivatives: Spectral, Electrochemical, Magnetic, Catalytic, Antimicrobial, DNA Binding and Cleavage Studies. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 1669-1678.	1.0	12
85	Hydrothermal Synthesis and Characterization of Cobalt Doped Fe_2O_3 . , 2010, , .		4
86	Electrochemical, catalytic and antimicrobial activities of N-functionalized cyclam based unsymmetrical dicompartmental binuclear nickel(II) complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 849-854.	2.0	10
87	Carbon Nanotubes Supported Pt and Pt-Ru Catalysts for Selective Hydrogenation of Citral: Effect of Promoters and Thermal Activation of Catalysts. <i>Advanced Materials Research</i> , 0, 584, 229-233.	0.3	5
88	Hydrothermal Synthesis of Lead Sulphide Nanoparticles and their Electrochemical Sensing Property. <i>Advanced Materials Research</i> , 0, 584, 276-279.	0.3	6
89	Synthesis, Characterization and Electrochemical Sensing Property of Fe_2O_3 Nanocomposite. <i>Advanced Materials Research</i> , 0, 584, 263-266.	0.3	6
90	Synthesis of Cadmium Oxide and its Electrochemical Detection of Pollutants. <i>Advanced Materials Research</i> , 0, 678, 369-372.	0.3	6