

Prakash Periakaruppan

List of Publications by Year in descending order

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95
papers

4,038
citations

87888

38
h-index

123424

61
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97
all docs

97
docs citations

97
times ranked

4902
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of silver nanoparticles from leaf extract of <i>Mimusops elengi</i> , Linn. for enhanced antibacterial activity against multi drug resistant clinical isolates. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 108, 255-259.	5.0	465
2	Synthesis of silver nanoparticles from <i>Bacillus brevis</i> (NCIM 2533) and their antibacterial activity against pathogenic bacteria. <i>Microbial Pathogenesis</i> , 2018, 116, 221-226.	2.9	301
3	Green synthesis of gold nanoparticles for trace level detection of a hazardous pollutant (nitrobenzene) causing Methemoglobinaemia. <i>Journal of Hazardous Materials</i> , 2014, 279, 117-124.	12.4	142
4	A novel enzymatic glucose biosensor and sensitive non-enzymatic hydrogen peroxide sensor based on graphene and cobalt oxide nanoparticles composite modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 450-456.	7.8	123
5	Adsorption and corrosion inhibiting behavior of <i>Lannea coromandelica</i> leaf extract on mild steel corrosion. <i>Arabian Journal of Chemistry</i> , 2017, 10, S2343-S2354.	4.9	116
6	Antimicrobial efficacy of green synthesized drug blended silver nanoparticles against dental caries and periodontal disease causing microorganisms. <i>Materials Science and Engineering C</i> , 2015, 56, 374-379.	7.3	108
7	Reduction of Cr ⁶⁺ from Wastewater Using a Novel <i>in Situ</i> -Synthesized PANI/MnO ₂ /TiO ₂ Nanocomposite: Renewable, Selective, Stable, and Synergistic Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9313-9324.	6.7	107
8	Green synthesis of silver nanoparticles using <i>Alysicarpus monilifer</i> leaf extract and its antibacterial activity against MRSA and CoNS isolates in HIV patients. <i>Journal of Interdisciplinary Nanomedicine</i> , 2017, 2, 131-141.	3.6	104
9	A novel and sensitive amperometric hydrazine sensor based on gold nanoparticles decorated graphite nanosheets modified screen printed carbon electrode. <i>Electrochimica Acta</i> , 2014, 139, 157-164.	5.2	100
10	Stigmasterol extracted from <i>Ficus hispida</i> leaves as a green inhibitor for the mild steel corrosion in 1 M HCl solution. <i>Arabian Journal of Chemistry</i> , 2019, 12, 3345-3356.	4.9	93
11	Antimicrobial efficacy of drug blended biosynthesized colloidal gold nanoparticles from <i>Justicia glauca</i> against oral pathogens: A nanoantibiotic approach. <i>Microbial Pathogenesis</i> , 2017, 113, 295-302.	2.9	92
12	New Electrochemical Sensor Based on a Silver-Doped Iron Oxide Nanocomposite Coupled with Polyaniline and Its Sensing Application for Picomolar-Level Detection of Uric Acid in Human Blood and Urine Samples. <i>Journal of Physical Chemistry B</i> , 2018, 122, 3037-3046.	2.6	92
13	Green synthesized silver nanoparticles decorated on reduced graphene oxide for enhanced electrochemical sensing of nitrobenzene in waste water samples. <i>RSC Advances</i> , 2015, 5, 31139-31146.	3.6	73
14	Green biosynthesis of silver nanoparticles and nanomolar detection of p-nitrophenol. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 1847-1854.	2.5	70
15	A new in-situ synthesized ternary CuNPs-PANI-GO nano composite for selective detection of carcinogenic hydrazine. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 156-165.	7.8	69
16	Antibacterial efficacy of silver nanoparticles against multi-drug resistant clinical isolates from post-surgical wound infections. <i>Microbial Pathogenesis</i> , 2017, 107, 327-334.	2.9	67
17	Mild steel corrosion inhibition by aqueous extract of <i>Hyptis suaveolens</i> leaves. <i>International Journal of Industrial Chemistry</i> , 2014, 5, 1.	3.1	66
18	Ag nanoshell catalyzed dedying of industrial effluents. <i>RSC Advances</i> , 2016, 6, 31653-31660.	3.6	61

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19	A facile, one-pot and eco-friendly synthesis of gold/silver nanobimetallics smartened rGO for enhanced catalytic reduction of hexavalent chromium. <i>RSC Advances</i> , 2016, 6, 57380-57388.	3.6	55
20	A new analytical device incorporating a nitrogen doped lanthanum metal oxide with reduced graphene oxide sheets for paracetamol sensing. <i>Ultrasonics Sonochemistry</i> , 2018, 44, 196-203.	8.2	55
21	Picomolar-level electrochemical detection of thiocyanate in the saliva samples of smokers and non-smokers of tobacco using carbon dots doped Fe ₃ O ₄ nanocomposite embedded on g-C ₃ N ₄ nanosheets. <i>Electrochimica Acta</i> , 2018, 283, 914-921.	5.2	53
22	Synthesis of AuNPs@RGO nanosheets for sustainable catalysis toward nitrophenols reduction. <i>Ultrasonics Sonochemistry</i> , 2018, 48, 362-369.	8.2	53
23	Direct electrochemistry of glucose oxidase and sensing of glucose at a glassy carbon electrode modified with a reduced graphene oxide/fullerene-C ₆₀ composite. <i>RSC Advances</i> , 2015, 5, 77651-77657.	3.6	50
24	An in-situ synthesis of novel Au@NG-PPy nanocomposite for enhanced electrocatalytic activity toward selective and sensitive sensing of catechol in natural samples. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 392-399.	7.8	50
25	Direct electrochemistry of myoglobin at silver nanoparticles/myoglobin biocomposite: Application for hydrogen peroxide sensing. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 177-184.	7.8	49
26	Catalytic hydrogenation performance of an in situ assembled Au@g-C ₃ N ₄ @PANI nanoblend: synergistic inter-constituent interactions boost the catalysis. <i>New Journal of Chemistry</i> , 2017, 41, 7123-7132.	2.8	49
27	Direct electrochemistry of glucose oxidase and sensing glucose using a screen-printed carbon electrode modified with graphite nanosheets and zinc oxide nanoparticles. <i>Mikrochimica Acta</i> , 2014, 181, 1843-1850.	5.0	48
28	A facile in situ synthesis of highly active and reusable ternary Ag-PPy-GO nanocomposite for catalytic oxidation of hydroquinone in aqueous solution. <i>Journal of Catalysis</i> , 2016, 344, 795-805.	6.2	48
29	Silver nanoparticle-embedded RGO-nanosponge for superior catalytic activity towards 4-nitrophenol reduction. <i>RSC Advances</i> , 2016, 6, 88837-88845.	3.6	48
30	Evaluation of a New Biosensor Based on <i>in Situ</i> Synthesized PPy-Ag-PVP Nanohybrid for Selective Detection of Dopamine. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1118-1127.	2.6	48
31	Carbon dots doped tungstic anhydride on graphene oxide nanopanels: A new picomolar-range creatinine selective enzymeless electrochemical sensor. <i>Materials Science and Engineering C</i> , 2020, 113, 111010.	7.3	48
32	Synergistic Combination of a Novel Metal-Free Mesoporous Band-Gap-Modified Carbon Nitride Grafted Polyaniline Nanocomposite for Decontamination of Refractory Pollutant. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 6684-6695.	3.7	47
33	Highly sensitive and selective amperometric nitrite sensor based on electrochemically activated graphite modified screen printed carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , 2014, 727, 34-38.	3.8	46
34	A glassy carbon electrode modified with a copper tungstate and polyaniline nanocomposite for voltammetric determination of quercetin. <i>Mikrochimica Acta</i> , 2018, 185, 524.	5.0	43
35	A new highly powered supercapacitor electrode of advantageously united ferrous tungstate and functionalized multiwalled carbon nanotubes. <i>Journal of Power Sources</i> , 2021, 482, 228892.	7.8	43
36	Efficacious separation of electron-hole pairs in CeO ₂ -Al ₂ O ₃ nanoparticles embedded GO heterojunction for robust visible-light driven dye degradation. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 219-230.	9.4	42

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37	Simultaneous and selective electrochemical determination of dihydroxybenzene isomers at a reduced graphene oxide and copper nanoparticles composite modified glassy carbon electrode. <i>Analytical Methods</i> , 2014, 6, 4271-4278.	2.7	41
38	A simple electrochemical platform for detection of nitrobenzene in water samples using an alumina polished glassy carbon electrode. <i>Journal of Colloid and Interface Science</i> , 2016, 475, 154-160.	9.4	41
39	Ultrasonic energy-assisted in-situ synthesis of RuO/PANI/g-C3N4 nanocomposite: Application for picomolar-level electrochemical detection of endocrine disruptor (Bisphenol-A) in humans and animals. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104629.	8.2	41
40	A new high-performance supercapacitor electrode of strategically integrated cerium vanadium oxide and polypyrrole nanocomposite. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19323-19337.	7.1	38
41	A novel photocatalytically active mesoporous metal-free PPy grafted MWCNT nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 376-385.	9.4	35
42	Emerging theranostic silver and gold nanobiomaterials for breast cancer: Present status and future prospects. , 2021, , 439-456.		35
43	Fabrication of Silver Nanoparticles Decorated on Activated Screen Printed Carbon Electrode and Its Application for Ultrasensitive Detection of Dopamine. <i>Electroanalysis</i> , 2015, 27, 1998-2006.	2.9	33
44	Silver-nanospheres as a green catalyst for the decontamination of hazardous pollutants. <i>RSC Advances</i> , 2015, 5, 105917-105924.	3.6	31
45	A novel series of N-acyl substituted indole-linked benzimidazoles and naphthoimidazoles as potential anti inflammatory, anti biofilm and anti microbial agents. <i>Microbial Pathogenesis</i> , 2018, 114, 409-413.	2.9	31
46	Green synthesis of gold nanoparticles and its application for the trace level determination of painter's colic. <i>RSC Advances</i> , 2015, 5, 16284-16291.	3.6	30
47	Extracellular Biosynthesis, Characterization and Antibacterial Activity of Silver Nanoparticles Synthesized by <i>Bacillus subtilis</i> (NCIM 2266). <i>Journal of Bionanoscience</i> , 2014, 8, 21-27.	0.4	28
48	Effects of elevated temperature and water quenching on strength and microstructure of mortars with river sand substitutes. <i>Construction and Building Materials</i> , 2016, 114, 688-698.	7.2	28
49	Anticorrosive Activity of <i>Kigelia pinnata</i> Leaves Extract on Mild Steel in Acidic Media. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 4510-4524.	2.2	26
50	Benevolent behavior of <i>Kleinia grandiflora</i> leaf extract as a green corrosion inhibitor for mild steel in sulfuric acid solution. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014, 21, 1083-1095.	4.9	25
51	Corrosion Inhibition and Adsorption Behavior of <i>Setaria verticillata</i> Leaf Extract in 1M Sulphuric Acid. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3792-3800.	2.5	24
52	A Highly Sensitive and Selective Enzymatic Biosensor Based on Direct Electrochemistry of Hemoglobin at Zinc Oxide Nanoparticles Modified Activated Screen Printed Carbon Electrode. <i>Electroanalysis</i> , 2014, 26, 1984-1993.	2.9	24
53	Accelerated photodeterioration of class I toxic monocrotophos in the presence of one-pot constructed Ag3PO4/polyaniline@g-C3N4 nanocomposite: efficacy in light harvesting. <i>Environmental Science and Pollution Research</i> , 2020, 27, 2328-2339.	5.3	24
54	Direct Electrochemistry of Glucose Oxidase at Reduced Graphene Oxide and β -Cyclodextrin Composite Modified Electrode and Application for Glucose Biosensing. <i>Electroanalysis</i> , 2015, 27, 2412-2420.	2.9	23

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55	Inhibition of the corrosion of mild steel in acidic media by use of a new antipyridine derivative. <i>Research on Chemical Intermediates</i> , 2015, 41, 5961-5984.	2.7	21
56	Green synthesized nanospherical silver for selective and sensitive sensing of Cd ²⁺ colorimetrically. <i>RSC Advances</i> , 2016, 6, 35778-35784.	3.6	20
57	Selective and Simultaneous Determination of Dihydroxybenzene Isomers Based on Green Synthesized Gold Nanoparticles Decorated Reduced Graphene Oxide. <i>Electroanalysis</i> , 2015, 27, 1144-1151.	2.9	19
58	Effect of Acidified <i>Feronia elephantum</i> Leaf Extract on the Corrosion Behavior of Mild Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1448-1460.	2.1	18
59	Effective and reliable platform for nonenzymatic nanomolar-range quinol detection in water samples using ceria doped polypyrrole nanocomposite embedded on graphitic carbon nitride nanosheets. <i>Chemosphere</i> , 2021, 271, 129533.	8.2	18
60	Corrosion inhibition of <i>Leucaena Leucocephala</i> pod on mild steel in sulphuric acid solution. <i>Acta Metallurgica Sinica (English Letters)</i> , 2013, 26, 416-424.	2.9	17
61	Nanosilver for selective and sensitive sensing of saturnism. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 814-820.	7.8	17
62	Azo Schiff Base as Antiscaling Agent for Mild Steel in Hydrochloric Acid: Electrochemical, Non-electrochemical, and DFT Studies. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019, 5, 1.	2.6	16
63	A new CQDs/f-MWCNTs/GO nanocomposite electrode for arsenic (10^{-12} M) quantification in bore-well water and industrial effluents. <i>New Journal of Chemistry</i> , 2020, 44, 18149-18156.	2.8	15
64	Morphology dependent nonlinear optical and photocatalytic activity of anisotropic plasmonic silver. <i>RSC Advances</i> , 2018, 8, 41288-41298.	3.6	14
65	Effectual light-harvesting and electron-hole separation for enhanced photocatalytic decontamination of endocrine disruptor using Cu ₂ O/BiOI nanocomposite. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 380, 111860.	3.9	14
66	Highly Selective and Sensitive Sensing of Toxic Mercury Ions Utilizing Carbon Quantum Dot-Modified Glassy Carbon Electrode. <i>International Journal of Environmental Research</i> , 2019, 13, 1015-1023.	2.3	13
67	Adsorption and corrosion inhibiting behavior of <i>Passiflora foetida</i> leaf extract on mild steel corrosion. <i>International Journal of Corrosion and Scale Inhibition</i> , 2015, 4, 365-381.	0.6	13
68	Ruthenium catalyzed desymmetrization of diazabicyclic olefins to access heteroaryl substituted cyclopentenes through C-H activation of phenylazoles. <i>Tetrahedron Letters</i> , 2014, 55, 865-868.	1.4	12
69	Ultrasound-assisted fabrication of a new nanocomposite electrode of samaria and borazon for high performance supercapacitors. <i>Ultrasonics Sonochemistry</i> , 2020, 62, 104871.	8.2	12
70	A New Nanocomposite Electrode of Carbon Quantum Dots Doped Functionalized Multi-walled Carbon Nanotubes for Lethal Mercury Sensing. <i>Journal of Cluster Science</i> , 2021, 32, 135-144.	3.3	11
71	Reaction of a satirically hindered iron(III) porphyrin with peroxyacetic acid: Degradation kinetics. <i>Journal of the Serbian Chemical Society</i> , 2005, 70, 1105-1111.	0.8	11
72	A novel substrate controlled chemoselective synthesis of aryl bis(thiazole-2-imine)methanes from 2-aminothiazoles and aldehydes. <i>Tetrahedron Letters</i> , 2017, 58, 3057-3063.	1.4	10

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73	Adsorption and corrosion inhibiting behavior of a new S-triazine derivative. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2015, 51, 667-679.	1.1	8
74	Size and shape regulated synthesis of silver nanocapsules for highly selective and sensitive ultralow bivalent copper ion sensor application. <i>New Journal of Chemistry</i> , 2017, 41, 4006-4013.	2.8	8
75	Clinically Pertinent Manganese Oxide/Polyoxytyramine/Reduced Graphene Oxide Nanocomposite for Voltammetric Detection of Salivary and Urinary Arsenic. <i>Journal of Cluster Science</i> , 2020, 31, 877-885.	3.3	8
76	Bis -(3,5-dimethyl-pyrazolyl-1-methyl)-(3-phosphanyl-propyl)-amine complexes of copper(II), nickel(II), and cobalt(II). <i>Journal of Coordination Chemistry</i> , 2009, 62, 1347-1355.	2.2	7
77	Catalytic and biological activity of transition metal complexes of salicylaldiminopropylphosphine. <i>Journal of Coordination Chemistry</i> , 2009, 62, 2883-2892.	2.2	7
78	Simple synthesis of hydrazones with quorum quenching activity at room temperature in water. <i>Environmental Chemistry Letters</i> , 2018, 16, 1063-1067.	16.2	7
79	Benign Approach of Plant-Derived Inhibitor: Assessing Their Anticorrosive Activity on Mild Steel in Acidic Media. <i>Journal of Failure Analysis and Prevention</i> , 2018, 18, 677-689.	0.9	7
80	Electrochemical and Quantum Chemical Studies of 1, 5-bis (2-nitrophenyl)-1, 4-pentadien-3-one as Corrosion Inhibitors for Mild Steel in Hydrochloric Acid Solution. <i>International Journal of Electrochemical Science</i> , 2016, 11, 8892-8913.	1.3	6
81	Strength and microstructure of fired mortars with river sand alternatives after air cooling. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.	3.1	5
82	A novel and convenient oxidation-controlled procedure for the synthesis of oxazolines from TosMIC and aldehydes in water – Anti biofilm activity. <i>Arabian Journal of Chemistry</i> , 2020, 13, 2153-2161.	4.9	5
83	Plasmon Based Cellulose Nano Fibril – PVA Film for Effective Ultra Violet Radiation Blocking. <i>Journal of Cluster Science</i> , 2020, 31, 1147-1154.	3.3	5
84	Emerging Nano-Based Drug Delivery Approach for Cancer Therapeutics. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2021, , 271-293.	0.3	2
85	Antimicrobial Resistance and Antimicrobial Nanomaterials. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , 2021, , 1-28.	0.3	2
86	Extract of <i>Cassia senna</i> as Green Inhibitor for the Corrosion of Mild Steel in 1M Hydrochloric Acid Solution. <i>Advances in Civil Engineering Materials</i> , 2014, 3, 413-433.	0.6	2
87	A sustainable process for gram-scale synthesis of stereoselective aryl substituted (E)-2-thiocyanatoacrylic acids. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	1.5	1
88	Shape-tunable and facile extracellular green synthesis of silver nanocubes using leaf extracts of <i>Jatropha Gossypifolia</i> and <i>Jatropha Glandulifera</i> and its antibacterial studies. <i>Materials Research Express</i> , 2019, 6, 015048.	1.6	1
89	Adsorption and Charge Transfer Resistance Behavior of <i>Ficus hispida</i> Leaf Extract on Mild Steel Against Acid Attack. <i>Journal of Failure Analysis and Prevention</i> , 2020, 20, 1803-1809.	0.9	1
90	Green Synthesized Plasmonic Silver Systems for Potential Non-Linear Optical Applications: Optical Limiting and Dual Beam Mode Matched Thermal Lensing. <i>Australian Journal of Chemistry</i> , 2019, 72, 460.	0.9	1

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91	A clinical trial of metronidazole in treatment of giardiasis in children. Indian Pediatrics, 1977, 14, 719-23.	0.4	1
92	Novel Carbon Quantum Dotted Reduced Graphene Oxide Nanosheets for Nano-molar Range Cadmium Quantification. Electrocatalysis, 0, , 1.	3.0	1
93	Prevalence and annual risk of tuberculosis infection in rural Mysore. Indian Pediatrics, 2011, 48, 797-799.	0.4	0
94	Silver Nanoparticles: Newly Emerging Antimicrobials in 21st Century. , 2016, , 103-139.		0
95	Rebar properties in sand-substitute mortars after exposure to high temperatures. Gradevinar, 2021, 73, 381-388.	0.2	0