

# Prakash Periakaruppan

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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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.

93  
papers

2,952  
citations

33  
h-index

52  
g-index

97  
ext. papers

3,431  
ext. citations

4.3  
avg, IF

6.02  
L-index

#	Paper	IF	Citations
93	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> , <b>2021</b> , 271, 129533	8.4	11
92	A new high-performance supercapacitor electrode of strategically integrated cerium vanadium oxide and polypyrrole nanocomposite. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 19323-19337	6.7	12
91	A New Nanocomposite Electrode of Carbon Quantum Dots Doped Functionalized Multi-walled Carbon Nanotubes for Lethal Mercury Sensing. <i>Journal of Cluster Science</i> , <b>2021</b> , 32, 135-144	3	9
90	A new highly powered supercapacitor electrode of advantageously united ferrous tungstate and functionalized multiwalled carbon nanotubes. <i>Journal of Power Sources</i> , <b>2021</b> , 482, 228892	8.9	25
89	Emerging theranostic silver and gold nanobiomaterials for breast cancer: Present status and future prospects <b>2021</b> , 439-456		9
88	Emerging Nano-Based Drug Delivery Approach for Cancer Therapeutics. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , <b>2021</b> , 271-293	0.3	0
87	Antimicrobial Resistance and Antimicrobial Nanomaterials. <i>Advances in Medical Technologies and Clinical Practice Book Series</i> , <b>2021</b> , 1-28	0.3	1
86	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> , <b>2020</b> , 113, 111010	8.3	19
85	Plasmon Based Cellulose Nano Fibril/BVA Film for Effective Ultra Violet Radiation Blocking. <i>Journal of Cluster Science</i> , <b>2020</b> , 31, 1147-1154	3	1
84	Ultrasound-assisted fabrication of a new nanocomposite electrode of samaria and borazon for high performance supercapacitors. <i>Ultrasonics Sonochemistry</i> , <b>2020</b> , 62, 104871	8.9	7
83	Accelerated photodeterioration of class I toxic monocrotophos in the presence of one-pot constructed AgPO/polyaniline@g-CN nanocomposite: efficacy in light harvesting. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 2328-2339	5.1	8
82	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> , <b>2020</b> , 44, 18149-18156	3.6	4
81	Adsorption and Charge Transfer Resistance Behavior of Ficus hispida Leaf Extract on Mild Steel Against Acid Attack. <i>Journal of Failure Analysis and Prevention</i> , <b>2020</b> , 20, 1803-1809	0.9	
80	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> , <b>2020</b> , 13, 2153-2161	5.9	1
79	Clinically Pertinent Manganese Oxide/Polyoxytyramine/Reduced Graphene Oxide Nanocomposite for Voltammetric Detection of Salivary and Urinary Arsenic. <i>Journal of Cluster Science</i> , <b>2020</b> , 31, 877-885 <sup>3</sup>		3
78	Ultrasonic energy-assisted in-situ synthesis of Ru/PANI/g-CN nanocomposite: Application for picomolar-level electrochemical detection of endocrine disruptor (Bisphenol-A) in humans and animals. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 58, 104629	8.9	27
77	Effectual light-harvesting and electron-hole separation for enhanced photocatalytic decontamination of endocrine disruptor using Cu <sub>2</sub> O/BiOI nanocomposite. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 380, 111860	4.7	8

76	Highly Selective and Sensitive Sensing of Toxic Mercury Ions Utilizing Carbon Quantum Dot-Modified Glassy Carbon Electrode. <i>International Journal of Environmental Research</i> , <b>2019</b> , 13, 1015-1023	2.9	6
75	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> , <b>2019</b> , 72, 460	1.2	1
74	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> , <b>2019</b> , 5, 1	2.9	5
73	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> , <b>2019</b> , 6, 015048	1.7	1
72	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> , <b>2019</b> , 12, 3345-3356	5.9	65
71	A new analytical device incorporating a nitrogen doped lanthanum metal oxide with reduced graphene oxide sheets for paracetamol sensing. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 44, 196-203	8.9	35
70	Simple synthesis of hydrazones with quorum quenching activity at room temperature in water. <i>Environmental Chemistry Letters</i> , <b>2018</b> , 16, 1063-1067	13.3	5
69	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> , <b>2018</b> , 122, 3037-3046	3.4	63
68	Synergistic Combination of a Novel Metal-Free Mesoporous Band-Gap-Modified Carbon Nitride Grafted Polyaniline Nanocomposite for Decontamination of Refractory Pollutant. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 6684-6695	3.9	37
67	Benign Approach of Plant-Derived Inhibitor: Assessing Their Anticorrosive Activity on Mild Steel in Acidic Media. <i>Journal of Failure Analysis and Prevention</i> , <b>2018</b> , 18, 677-689	0.9	3
66	Synthesis of silver nanoparticles from <i>Bacillus brevis</i> (NCIM 2533) and their antibacterial activity against pathogenic bacteria. <i>Microbial Pathogenesis</i> , <b>2018</b> , 116, 221-226	3.8	214
65	A sustainable process for gram-scale synthesis of stereoselective aryl substituted (E)-2-thiocyanatoacrylic acids. <i>Journal of Chemical Sciences</i> , <b>2018</b> , 130, 1	1.8	1
64	A novel photocatalytically active mesoporous metal-free PPy grafted MWCNT nanocomposite. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 514, 376-385	9.3	27
63	Efficacious separation of electron-hole pairs in CeO-ALO nanoparticles embedded GO heterojunction for robust visible-light driven dye degradation. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 512, 219-230	9.3	28
62	Synthesis of AuNPs@RGO nanosheets for sustainable catalysis toward nitrophenols reduction. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 48, 362-369	8.9	34
61	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> , <b>2018</b> , 114, 409-413	3.8	24
60	Morphology dependent nonlinear optical and photocatalytic activity of anisotropic plasmonic silver.. <i>RSC Advances</i> , <b>2018</b> , 8, 41288-41298	3.7	7
59	A glassy carbon electrode modified with a copper tungstate and polyaniline nanocomposite for voltammetric determination of quercetin. <i>Mikrochimica Acta</i> , <b>2018</b> , 185, 524	5.8	33

58	Picomolar-level electrochemical detection of thiocyanate in the saliva samples of smokers and non-smokers of tobacco using carbon dots doped Fe <sub>3</sub> O <sub>4</sub> nanocomposite embedded on g-C <sub>3</sub> N <sub>4</sub> nanosheets. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 914-921	6.7	38
57	A new in-situ synthesized ternary CuNPs-PANI-GO nano composite for selective detection of carcinogenic hydrazine. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 245, 156-165	8.5	54
56	Evaluation of a New Biosensor Based on in Situ Synthesized PPy-Ag-PVP Nanohybrid for Selective Detection of Dopamine. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 1118-1127	3.4	38
55	Antibacterial efficacy of silver nanoparticles against multi-drug resistant clinical isolates from post-surgical wound infections. <i>Microbial Pathogenesis</i> , <b>2017</b> , 107, 327-334	3.8	51
54	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> , <b>2017</b> , 41, 4006-4013	3.6	8
53	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> , <b>2017</b> , 253, 392-399	8.5	40
52	A novel substrate controlled chemoselective synthesis of aryl bis(thiazole-2-imine)methanes from 2-aminothiazoles and aldehydes. <i>Tetrahedron Letters</i> , <b>2017</b> , 58, 3057-3063	2	5
51	Catalytic hydrogenation performance of an in situ assembled Au@g-C <sub>3</sub> N <sub>4</sub> /PANI nanoblend: synergistic inter-constituent interactions boost the catalysis. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 7123-7132	3.6	40
50	Antimicrobial efficacy of drug blended biosynthesized colloidal gold nanoparticles from <i>Justicia glauca</i> against oral pathogens: A nanoantibiotic approach. <i>Microbial Pathogenesis</i> , <b>2017</b> , 113, 295-302	3.8	70
49	Reduction of Cr <sup>6+</sup> from Wastewater Using a Novel in Situ-Synthesized PANI/MnO <sub>2</sub> /TiO <sub>2</sub> Nanocomposite: Renewable, Selective, Stable, and Synergistic Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 9313-9324	8.3	80
48	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> , <b>2017</b> , 2, 131-141	4	78
47	Nanosilver for selective and sensitive sensing of saturnism. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 241, 814-820	8.5	12
46	Strength and microstructure of fired mortars with river sand alternatives after air cooling. <i>Materials and Structures/Materiaux Et Constructions</i> , <b>2017</b> , 50, 1	3.4	4
45	Adsorption and corrosion inhibiting behavior of <i>Lansea coromandelica</i> leaf extract on mild steel corrosion. <i>Arabian Journal of Chemistry</i> , <b>2017</b> , 10, S2343-S2354	5.9	75
44	Silver nanoparticle-embedded RGO-nanosponge for superior catalytic activity towards 4-nitrophenol reduction. <i>RSC Advances</i> , <b>2016</b> , 6, 88837-88845	3.7	39
43	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> , <b>2016</b> , 6, 57380-57388	3.7	45
42	Ag nanoshell catalyzed dedying of industrial effluents. <i>RSC Advances</i> , <b>2016</b> , 6, 31653-31660	3.7	49
41	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> , <b>2016</b> , 8892-8913	2.2	3

40	Green synthesized nanospherical silver for selective and sensitive sensing of Cd <sup>2+</sup> colorimetrically. <i>RSC Advances</i> , <b>2016</b> , 6, 35778-35784	3.7	18
39	Effects of elevated temperature and water quenching on strength and microstructure of mortars with river sand substitutes. <i>Construction and Building Materials</i> , <b>2016</b> , 114, 688-698	6.7	19
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> , <b>2016</b> , 475, 154-160	9.3	22
37	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> , <b>2016</b> , 344, 795-805	7.3	41
36	Silver Nanoparticles: Newly Emerging Antimicrobials in 21st Century <b>2016</b> , 103-139		
35	Effect of Acidified Feronia elephantum Leaf Extract on the Corrosion Behavior of Mild Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2015</b> , 46, 1448-1460	2.5	13
34	Antimicrobial efficacy of green synthesized drug blended silver nanoparticles against dental caries and periodontal disease causing microorganisms. <i>Materials Science and Engineering C</i> , <b>2015</b> , 56, 374-9	8.3	82
33	Green synthesized silver nanoparticles decorated on reduced graphene oxide for enhanced electrochemical sensing of nitrobenzene in waste water samples. <i>RSC Advances</i> , <b>2015</b> , 5, 31139-31146	3.7	56
32	Adsorption and corrosion inhibiting behavior of a new S-triazine derivative. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2015</b> , 51, 667-679	0.9	6
31	Direct electrochemistry of glucose oxidase and sensing of glucose at a glassy carbon electrode modified with a reduced graphene oxide/fullerene-C60 composite. <i>RSC Advances</i> , <b>2015</b> , 5, 77651-77657	3.7	44
30	Inhibition of the corrosion of mild steel in acidic media by use of a new antipyridine derivative. <i>Research on Chemical Intermediates</i> , <b>2015</b> , 41, 5961-5984	2.8	15
29	Direct Electrochemistry of Glucose Oxidase at Reduced Graphene Oxide and Cyclodextrin Composite Modified Electrode and Application for Glucose Biosensing. <i>Electroanalysis</i> , <b>2015</b> , 27, 2412-2420	2.2	17
28	Selective and Simultaneous Determination of Dihydroxybenzene Isomers Based on Green Synthesized Gold Nanoparticles Decorated Reduced Graphene Oxide. <i>Electroanalysis</i> , <b>2015</b> , 27, 1144-1151	3.1	13
27	Fabrication of Silver Nanoparticles Decorated on Activated Screen Printed Carbon Electrode and Its Application for Ultrasensitive Detection of Dopamine. <i>Electroanalysis</i> , <b>2015</b> , 27, 1998-2006	3	29
26	Silver-nanospheres as a green catalyst for the decontamination of hazardous pollutants. <i>RSC Advances</i> , <b>2015</b> , 5, 105917-105924	3.7	27
25	Green synthesis of gold nanoparticles and its application for the trace level determination of painter's colic. <i>RSC Advances</i> , <b>2015</b> , 5, 16284-16291	3.7	22
24	Adsorption and corrosion inhibiting behavior of Passiflora foetida leaf extract on mild steel corrosion. <i>International Journal of Corrosion and Scale Inhibition</i> , <b>2015</b> , 4, 365-381	2.2	9
23	Green biosynthesis of silver nanoparticles and nanomolar detection of p-nitrophenol. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 1847-1854	2.6	50

22	Mild steel corrosion inhibition by aqueous extract of Hyptis Suaveolens leaves. <i>International Journal of Industrial Chemistry</i> , <b>2014</b> , 5, 1	3.1	44
21	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> , <b>2014</b> , 6, 4271-4278	3.2	34
20	A novel and sensitive amperometric hydrazine sensor based on gold nanoparticles decorated graphite nanosheets modified screen printed carbon electrode. <i>Electrochimica Acta</i> , <b>2014</b> , 139, 157-164	6.7	82
19	Green synthesis of gold nanoparticles for trace level detection of a hazardous pollutant (nitrobenzene) causing Methemoglobinaemia. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 279, 117-24	12.8	112
18	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> , <b>2014</b> , 181, 1843-1850	5.8	35
17	Anticorrosive Activity of Kigelia pinnata Leaves Extract on Mild Steel in Acidic Media. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 4510-4524	2.3	20
16	Ruthenium catalyzed desymmetrization of diazabicyclic olefins to access heteroaryl substituted cyclopentenes through CBI activation of phenylazoles. <i>Tetrahedron Letters</i> , <b>2014</b> , 55, 865-868	2	8
15	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> , <b>2014</b> , 196, 450-456	8.5	112
14	Highly sensitive and selective amperometric nitrite sensor based on electrochemically activated graphite modified screen printed carbon electrode. <i>Journal of Electroanalytical Chemistry</i> , <b>2014</b> , 727, 34-38	4.1	36
13	Direct electrochemistry of myoglobin at silver nanoparticles/myoglobin biocomposite: Application for hydrogen peroxide sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 202, 177-184	8.5	41
12	Extracellular Biosynthesis, Characterization and Antibacterial Activity of Silver Nanoparticles Synthesized by Bacillus subtilis (NCIM0266). <i>Journal of Bionanoscience</i> , <b>2014</b> , 8, 21-27		26
11	Benevolent behavior of Kleinia grandiflora leaf extract as a green corrosion inhibitor for mild steel in sulfuric acid solution. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2014</b> , 21, 1083-1095	3.1	21
10	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> , <b>2014</b> , 26, 1984-1993	3	18
9	Extract of Cassia sennaas Green Inhibitor for the Corrosion of Mild Steel in 1M Hydrochloric Acid Solution. <i>Advances in Civil Engineering Materials</i> , <b>2014</b> , 3, 20140010	0.7	1
8	Corrosion inhibition of Leucaena Leucocephala pod on mild steel in sulphuric acid solution. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2013</b> , 26, 416-424	2.5	14
7	Corrosion Inhibition and Adsorption Behavior of Setaria verticillata Leaf Extract in 1M Sulphuric Acid. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 3792-3800	1.6	21
6	Green synthesis of silver nanoparticles from leaf extract of Mimosa elengi, Linn. for enhanced antibacterial activity against multi drug resistant clinical isolates. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 108, 255-9	6	357
5	Prevalence and annual risk of tuberculosis infection in rural Mysore. <i>Indian Pediatrics</i> , <b>2011</b> , 48, 797-9	1.2	

4	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> , <b>2009</b> , 62, 1347-1355	1.6	7
3	Catalytic and biological activity of transition metal complexes of salicylaldiminopropylphosphine. <i>Journal of Coordination Chemistry</i> , <b>2009</b> , 62, 2883-2892	1.6	6
2	Reaction of a sterically hindered iron(III) porphyrin with peroxyacetic acid: Degradation kinetics. <i>Journal of the Serbian Chemical Society</i> , <b>2005</b> , 70, 1105-1111	0.9	10
1	Novel Carbon Quantum Dotted Reduced Graphene Oxide Nanosheets for Nano-molar Range Cadmium Quantification. <i>Electrocatalysis</i> , 1	2.7	