

# Ramaraja P Ramasamy

## List of Publications by Year in descending order

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37  
papers

2,184  
citations

394421

19  
h-index

345221

36  
g-index

38  
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38  
docs citations

38  
times ranked

2930  
citing authors

#	ARTICLE	IF	CITATIONS
1	Current and Prospective Methods for Plant Disease Detection. <i>Biosensors</i> , 2015, 5, 537-561.	4.7	450
2	Non-Covalent Functionalization of Carbon Nanotubes for Electrochemical Biosensor Development. <i>Sensors</i> , 2019, 19, 392.	3.8	204
3	High photo-electrochemical activity of thylakoid-carbon nanotube composites for photosynthetic energy conversion. <i>Energy and Environmental Science</i> , 2013, 6, 1891.	30.8	173
4	Photocurrent generation by immobilized cyanobacteria via direct electron transport in photo-bioelectrochemical cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 7862.	2.8	151
5	High electrocatalytic activity of tethered multicopper oxidase-carbon nanotube conjugates. <i>Chemical Communications</i> , 2010, 46, 6045.	4.1	137
6	Charge-Directed Immobilization of Bacteriophage on Nanostructured Electrode for Whole-Cell Electrochemical Biosensors. <i>Analytical Chemistry</i> , 2017, 89, 5734-5741.	6.5	105
7	Recent advances in photosynthetic energy conversion. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2015, 22, 19-33.	11.6	95
8	Enhanced photo-bioelectrochemical energy conversion by genetically engineered cyanobacteria. <i>Biotechnology and Bioengineering</i> , 2016, 113, 675-679.	3.3	95
9	Kinetic and Mechanistic Parameters of Laccase Catalyzed Direct Electrochemical Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2012, 2, 38-44.	11.2	93
10	Electrochemical detection of p-ethylguaiacol, a fungi infected fruit volatile using metal oxide nanoparticles. <i>Analyst, The</i> , 2014, 139, 3804-3810.	3.5	85
11	Impedance spectroscopy as a tool for non-intrusive detection of extracellular mediators in microbial fuel cells. <i>Biotechnology and Bioengineering</i> , 2009, 104, 882-891.	3.3	82
12	Design of Carbon Nanotube-Based Gas Diffusion Cathode for $O_2$ Reduction by Multicopper Oxidases. <i>Advanced Energy Materials</i> , 2012, 2, 162-168.	19.5	74
13	A novel bi-enzyme electrochemical biosensor for selective and sensitive determination of methyl salicylate. <i>Biosensors and Bioelectronics</i> , 2016, 81, 39-45.	10.1	42
14	Electrochemical characterization of aromatic corrosion inhibitors from plant extracts. <i>Journal of Electroanalytical Chemistry</i> , 2019, 840, 74-83.	3.8	37
15	Detection of methyl salicylate using bi-enzyme electrochemical sensor consisting salicylate hydroxylase and tyrosinase. <i>Biosensors and Bioelectronics</i> , 2016, 85, 603-610.	10.1	36
16	Three Dimensional Carbon Nanosheets as a Novel Catalyst Support for Enzymatic Bioelectrodes. <i>Advanced Energy Materials</i> , 2014, 4, 1301306.	19.5	29
17	A multifunctional polymeric coating incorporating lawsone with corrosion resistance and antibacterial activity for biomedical Mg alloys. <i>Progress in Organic Coatings</i> , 2021, 153, 106157.	3.9	25
18	Highly sensitive electrochemical detection of methyl salicylate using electroactive gold nanoparticles. <i>Analyst, The</i> , 2013, 138, 6623.	3.5	23

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19	Electricity generation by <i>Pyrococcus furiosus</i> in microbial fuel cells operated at 90°C. <i>Biotechnology and Bioengineering</i> , 2017, 114, 1419-1427.	3.3	21
20	Isolation and separation of <i>Listeria monocytogenes</i> using bacteriophage P100-modified magnetic particles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 421-427.	5.0	21
21	Designing Si-based nanowall arrays by dynamic shadowing growth to tailor the performance of Li-ion battery anodes. <i>Journal of Materials Chemistry</i> , 2012, 22, 8294.	6.7	19
22	Role of respiratory terminal oxidases in the extracellular electron transfer ability of cyanobacteria. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1361-1366.	3.3	19
23	Synthesis and characterization of polyaniline nanofibers as cathode active material for sodium-ion battery. <i>Journal of Applied Electrochemistry</i> , 2019, 49, 529-537.	2.9	19
24	A study of the flavin response by <i>Shewanella</i> cultures in carbon-limited environments. <i>RSC Advances</i> , 2012, 2, 10020.	3.6	18
25	Detection of p-Ethylphenol, a Major Plant Volatile Organic Compound, by Tyrosinase-Based Electrochemical Biosensor. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, M3054-M3059.	1.8	17
26	A Bacteriophage-Based Electrochemical Biosensor for Detection of Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Journal of the Electrochemical Society</i> , 2021, 168, 057523.	2.9	15
27	Laccase-TiO <sub>2</sub> Nanoconjugates as Catalysts for Oxygen Reduction Reaction in Biocathodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, H911-H917.	2.9	14
28	Graphene-based Electrochemical Biosensor for Impedimetric Detection of miRNAs as Potential Cancer Biomarkers. <i>Journal of the Electrochemical Society</i> , 2020, 167, 167523.	2.9	14
29	Electroanalytical studies on green leaf volatiles for potential sensor development. <i>Analyst</i> , 2012, 137, 3138.	3.5	11
30	On the bio-electrocatalytic activity of tyrosinase for oxygen reduction reaction. <i>Catalysis Science and Technology</i> , 2013, 3, 2546.	4.1	11
31	Improved stability of multicopper oxidase-carbon nanotube conjugates using a thermophilic laccase. <i>Catalysis Science and Technology</i> , 2018, 8, 1272-1276.	4.1	11
32	Cellulose nanocrystal reinforced silk fibroin coating for enhanced corrosion protection and biocompatibility of Mg-based alloys for orthopedic implant applications. <i>Progress in Organic Coatings</i> , 2021, 161, 106525.	3.9	11
33	Enhanced Electron Transfer in Enzymatic Bioelectrodes by a Poly(vinyl alcohol) Methyl-4-(4-formylstyryl) Pyridinium Methosulfate Acetal Cationic Polymer. <i>ChemElectroChem</i> , 2014, 1, 1834-1839.	3.4	8
34	Electrochemical Biosensor for Rapid Detection of <i>Listeria monocytogenes</i> . <i>Journal of the Electrochemical Society</i> , 2022, 169, 067510.	2.9	7
35	Communication-Direct Detection of Methyl Salicylate Using Tri-Enzyme Based Electrochemical Sensor. <i>Journal of the Electrochemical Society</i> , 2018, 165, B358-B360.	2.9	6
36	Electro-Kinetic Study of Oxygen Reduction Reaction Catalyzed by Thermophilic Laccase. <i>Journal of the Electrochemical Society</i> , 2018, 165, H652-H657.	2.9	5

#	ARTICLE	IF	CITATIONS
37	A Cationic Magnesium-Based Dithiolene Radical. <i>Organometallics</i> , 2022, 41, 527-531.	2.3	0