

# Ramasamy Ramaraj

## List of Publications by Year in descending order

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79  
papers

2,605  
citations

186265

28  
h-index

197818

49  
g-index

82  
all docs

82  
docs citations

82  
times ranked

3550  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene and its nanocomposite material based electrochemical sensor platform for dopamine. RSC Advances, 2014, 4, 63296-63323.	3.6	272
2	Boosting Photovoltaic Performance of Dye-Sensitized Solar Cells Using Silver Nanoparticle-Decorated N,S-Co-Doped-TiO <sub>2</sub> Photoanode. Scientific Reports, 2015, 5, 11922.	3.3	164
3	Gold nanoparticle based optical and electrochemical sensing of dopamine. Mikrochimica Acta, 2015, 182, 2091-2114.	5.0	148
4	Electrochemically deposited nanostructured platinum on Nafion coated electrode for sensor applications. Journal of Electroanalytical Chemistry, 2005, 585, 290-300.	3.8	104
5	Gold nanoparticles embedded in silica sol-gel matrix as an amperometric sensor for hydrogen peroxide. Journal of Electroanalytical Chemistry, 2007, 608, 52-58.	3.8	104
6	Potential Sensing Platform of Silver Nanoparticles Embedded in Functionalized Silicate Shell for Nitroaromatic Compounds. Analytical Chemistry, 2009, 81, 7552-7560.	6.5	86
7	Functionalized Silicate Sol-gel-Supported TiO <sub>2</sub> @Au Core-Shell Nanomaterials and Their Photoelectrocatalytic Activity. ACS Applied Materials & Interfaces, 2010, 2, 1912-1917.	8.0	78
8	Silicate sol-gel stabilized silver nanoparticles for sensor applications toward mercuric ions, hydrogen peroxide and nitrobenzene. Sensors and Actuators B: Chemical, 2014, 202, 1070-1077.	7.8	71
9	Synthesis of cyclodextrin-silicate sol-gel composite embedded gold nanoparticles and its electrocatalytic application. Chemical Engineering Journal, 2012, 210, 195-202.	12.7	69
10	Polymer Membrane Stabilized Gold Nanostructures Modified Electrode and Its Application in Nitric Oxide Detection. Journal of Physical Chemistry C, 2008, 112, 19825-19830.	3.1	64
11	Core-shell Au/Ag nanoparticles embedded in silicate sol-gel network for sensor application towards hydrogen peroxide. Journal of Chemical Sciences, 2009, 121, 735-743.	1.5	61
12	Emission of thioflavin T and its control in the presence of DNA. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 162, 129-137.	3.9	58
13	Title is missing!. Journal of Applied Electrochemistry, 2003, 33, 759-762.	2.9	54
14	Selective sensing of Hg <sup>2+</sup> ions by optical and colorimetric methods using gold nanorods embedded in a functionalized silicate sol-gel matrix. Journal of Materials Chemistry A, 2014, 2, 8918.	10.3	53
15	TiO <sub>2</sub> @Au nanocomposite materials embedded in polymer matrices and their application in the photocatalytic reduction of nitrite to ammonia. Catalysis Science and Technology, 2012, 2, 345-353.	4.1	52
16	Bimetallic Au/Ag nanorods embedded in functionalized silicate sol-gel matrix as an efficient catalyst for nitrobenzene reduction. Applied Catalysis A: General, 2014, 470, 369-375.	4.3	52
17	Gold-silver@TiO <sub>2</sub> nanocomposite-modified plasmonic photoanodes for higher efficiency dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2017, 19, 1395-1407.	2.8	52
18	Silver nanoparticles deposited on amine-functionalized silica spheres and their amalgamation-based spectral and colorimetric detection of Hg(II) ions. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	47

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19	Simultaneous detection of ascorbic acid, uric acid and homovanillic acid at copper modified electrode. <i>Electrochimica Acta</i> , 2007, 52, 2998-3005.	5.2	46
20	Silver nanoparticles embedded in cyclodextrin-silicate composite and their applications in Hg(II) ion and nitrobenzene sensing. <i>Analyst</i> , 2013, 138, 1733.	3.5	46
21	Multielectrochromic properties of methylene blue and phenosafranine dyes incorporated into Nafion® film. <i>Journal of Electroanalytical Chemistry</i> , 2001, 502, 167-173.	3.8	45
22	Aminosilicate sol-gel stabilized N-doped TiO <sub>2</sub> -Au nanocomposite materials and their potential environmental remediation applications. <i>RSC Advances</i> , 2013, 3, 13390.	3.6	44
23	Facile synthesis of calcium stannate incorporated graphitic carbon nitride nanohybrid materials: A sensitive electrochemical sensor for determining dopamine. <i>Materials Chemistry and Physics</i> , 2020, 245, 122743.	4.0	44
24	Synthesis of core/shell Au/Ag nanorods embedded in functionalized silicate sol-gel matrix and their applications in electrochemical sensors. <i>Electrochimica Acta</i> , 2013, 88, 51-58.	5.2	42
25	Reduced graphene oxide-gold nanorod composite material stabilized in silicate sol-gel matrix for nitric oxide sensor. <i>RSC Advances</i> , 2014, 4, 33541.	3.6	38
26	Title is missing!. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2000, 36, 9-20.	1.6	37
27	Electroanalysis of nitrobenzene derivatives and nitrite ions using silver nanoparticles deposited silica spheres modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2014, 731, 72-77.	3.8	30
28	Electrocatalytic reduction of hydrogen peroxide at nanostructured copper modified electrode. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 321-327.	2.9	29
29	Electrochemical and Spectroelectrochemical Studies of Phenothiazine Dyes Immobilized in Nafion Film. <i>Langmuir</i> , 1996, 12, 5689-5695.	3.5	28
30	Binding Interactions of Toluidine Blue O with Escherichia Coli DNA: Formation of Bridged Structure. <i>Journal of Fluorescence</i> , 2011, 21, 1439-1453.	2.5	27
31	Polyelectrolyte stabilized bi-metallic Au/Ag nanoclusters modified electrode for nitric oxide detection. <i>RSC Advances</i> , 2015, 5, 54735-54741.	3.6	26
32	Extrazeolite Electron Transfer at Zeolite-Encapsulated Polypyridyl Metal Complex Coated Electrodes. <i>Langmuir</i> , 1998, 14, 2497-2501.	3.5	25
33	Electrocatalytic reduction of dioxygen at platinum particles deposited on Nafion- and clay-coated electrodes. <i>Journal of Solid State Electrochemistry</i> , 1997, 1, 172-179.	2.5	24
34	Bi-functional sensing capability of gold multi-pod network nanostructures towards nitrite and guanine. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 56-63.	7.8	24
35	Catalytic Activities of Mono- and Bimetallic (Gold/Silver) Nanoshell-Coated Gold Nanocubes toward Catalytic Reduction of Nitroaromatics. <i>Langmuir</i> , 2018, 34, 13897-13904.	3.5	24
36	Polyelectrolyte assisted synthesis and enhanced catalysis of silver nanoparticles: Electrocatalytic reduction of hydrogen peroxide and catalytic reduction of 4-nitroaniline. <i>Journal of Molecular Catalysis A</i> , 2016, 424, 128-134.	4.8	23

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37	Electroanalysis of oxygen reduction and formic acid oxidation using reduced graphene oxide/gold nanostructures modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2015, 754, 118-124.	3.8	20
38	Electrocatalytic Oxidation of Hydrogen Peroxide by Poly(Ni(II)) modified Electrodes. <i>Journal of Applied Electrochemistry</i> , 2001, 31, 585-590.	2.9	19
39	Polymer-embedded gold and gold/silver nanoparticle-modified electrodes and their applications in catalysis and sensors. <i>Pure and Applied Chemistry</i> , 2011, 83, 2041-2053.	1.9	19
40	Regulation of dye assembly within wet and dry nafion films. <i>Journal of Applied Polymer Science</i> , 1997, 65, 777-787.	2.6	18
41	Mediated reduction of oxygen at poly(phenosafranin) modified electrodes. <i>Journal of Applied Electrochemistry</i> , 2000, 30, 757-760.	2.9	18
42	Reduced graphene oxide supported 2D-NiO nanosheets modified electrode for urea detection. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 3073-3081.	2.5	17
43	Photoelectrochemical investigations of phenosafranin dye bound to some macromolecules. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 813.	1.0	16
44	Silver nanoparticles embedded in amine-functionalized silicate sol-gel network assembly for sensing cysteine, adenosine and NADH. <i>Journal of Nanoparticle Research</i> , 2011, 13, 4267-4276.	1.9	16
45	Nanostructured copper particles-incorporated Nafion-modified electrode for oxygen reduction. <i>Pramana - Journal of Physics</i> , 2005, 65, 713-722.	1.8	15
46	Nanostructured metal particle modified electrodes for electrocatalytic and sensor applications. <i>Journal of Chemical Sciences</i> , 2006, 118, 593-600.	1.5	15
47	Assemblies of silicate sol-gel matrix encapsulated core/shell Au/Ag nanoparticles: interparticle surface plasmon coupling. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	15
48	Electrodeposited nanostructured raspberry-like gold-modified electrodes for electrocatalytic applications. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	15
49	Permeation and electrocatalytic reduction of oxygen by poly(o-phenylenediamine) incorporated into Nafion <sup>®</sup> film. <i>Journal of Applied Electrochemistry</i> , 1996, 26, 763.	2.9	13
50	Gold nanoparticles deposited on amine functionalized silica sphere and its modified electrode for hydrogen peroxide sensing. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 1005-1010.	2.9	12
51	Proton coupled electron transfer reaction of phenols with excited state ruthenium(II) polypyridyl complexes. <i>Journal of Physical Organic Chemistry</i> , 2011, 24, 14-21.	1.9	11
52	In situ formation of gold/silver bi-metal nanodots on silica spheres and evaluation of their microbicidal properties. <i>RSC Advances</i> , 2015, 5, 5038-5045.	3.6	11
53	Synthesis and Catalytic Activities of Metal Shells (Monolayer, Bilayer, and Alloy Layer)-Coated Gold Octahedra toward Catalytic Reduction of Nitroaromatics. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21066-21075.	3.1	11
54	Gold/silver bimetal nanoparticles incorporated graphitic carbon nitride nanohybrid materials for oxygen reduction reaction. <i>Materials Chemistry and Physics</i> , 2019, 238, 121915.	4.0	11

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55	Reduced Graphene Oxide-Supported Co <sub>3</sub> O <sub>4</sub> Nanocomposite Bifunctional Electrocatalysts for Glucose-Oxygen Fuel Cells. <i>Energy &amp; Fuels</i> , 2020, 34, 12984-12994.	5.1	11
56	Enhanced sensing of mercuric ions based on dinucleotide-functionalized silver nanoparticles. <i>Analytical Methods</i> , 2016, 8, 7966-7971.	2.7	10
57	Preparation of polyelectrolyte-stabilized silver nanoparticles for catalytic applications. <i>Polymer International</i> , 2017, 66, 342-348.	3.1	10
58	Tuning Cu <sub>2</sub> O Shell on Gold Nanocube Core Employing Amine-Functionalized Silane for Electrocatalytic Nitrite Detection. <i>ACS Applied Nano Materials</i> , 2022, 5, 1674-1682.	5.0	10
59	Electrochemical, in situ spectroscopic voltammetric and electrochromic studies of phenosafranin in Nafion® film. <i>Journal of Electroanalytical Chemistry</i> , 1997, 424, 49-59.	3.8	9
60	Silver nanoparticles embedded in functionalized silicate sol-gel network film as optical sensor for the detection of biomolecules. <i>Journal of Analytical Chemistry</i> , 2013, 68, 241-248.	0.9	9
61	Gold nanodots self-assembled polyelectrolyte film as reusable catalyst for reduction of nitroaromatics. <i>Journal of Chemical Sciences</i> , 2018, 130, 1.	1.5	9
62	Model oxygen-evolving center composed of polymer membrane and dimer ruthenium complex. <i>Polymers for Advanced Technologies</i> , 1995, 6, 131-140.	3.2	8
63	Photoinduced electron transfer reactions at methylene blue adsorbed nafion and clay coated electrodes. <i>Research on Chemical Intermediates</i> , 1993, 18, 203-210.	2.7	7
64	Electrodeposited gold nanostructures at Nafion®-poly(o-phenylenediamine) modified electrode and its electrocatalytic application. <i>Journal of Electroanalytical Chemistry</i> , 2015, 741, 64-70.	3.8	7
65	Chemically reduced graphene oxide-P25-Au nanocomposite materials and their photoelectrocatalytic and photocatalytic applications. <i>Photochemical and Photobiological Sciences</i> , 2016, 15, 1310-1317.	2.9	7
66	Gold nanoparticles decorated silicate sol-gel matrix embedded reduced graphene oxide and manganese ferrite nanocomposite-materials-modified electrode for glucose sensor application. <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	1.5	7
67	Electrochemical and in situ spectroelectrochemical studies of gold nanoparticles immobilized Nafion matrix modified electrode. <i>Bulletin of Materials Science</i> , 2008, 31, 487-494.	1.7	6
68	Signal amplification of dopamine using lanthanum hexacyanoferrate-modified electrode. <i>Journal of Chemical Sciences</i> , 2014, 126, 11-16.	1.5	6
69	Amperometric sensing of NADH at gold nanorods stabilized in amine-functionalized silicate sol-gel matrix modified electrode. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 881-888.	2.9	6
70	Role of acidity on the electrochemistry of Prussian Blue at plain and Nafion filmcoated electrodes. <i>Journal of Chemical Sciences</i> , 1995, 107, 371-383.	1.5	5
71	Title is missing!. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2001, 40, 99-104.	1.6	4
72	Amending charge separation and migration in TiO <sub>2</sub> nanosheet via Au nanoparticles ensemble and its synergy in photoelectrocatalytic methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2022, , .	7.1	3

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73	Emission of Thioflavin T and its Off-On Control in Polymer Membranes. <i>Photochemistry and Photobiology</i> , 2001, 74, 752-759.	2.5	2
74	Electrocatalysis of Methanol on the Platinum-Gold Bimetallic Microstructures Codeposited with Silicate Sol-gel on Indium Tin Oxide Electrode. <i>Electroanalysis</i> , 2020, 32, 2511-2520.	2.9	2
75	Photoelectrocatalytic reactions of metal complexes at chemically modified electrodes. <i>Journal of Chemical Sciences</i> , 1996, 108, 181-192.	1.5	2
76	Comparative electrochemistry of phenothiazine dyes incorporated into Nafion and poly(styrenesulfonate) films. <i>Journal of Chemical Sciences</i> , 1998, 110, 115-126.	1.5	2
77	Electrochemical behaviour of Prussian Blue at Nation coated electrode. <i>Journal of Chemical Sciences</i> , 1994, 106, 810-810.	1.5	0
78	Electrochemically co-deposited silicate sol-gel/PdAu alloy nanostructures and their application in electrocatalytic methanol oxidation. <i>Journal of Chemical Sciences</i> , 2022, 134, 1.	1.5	0
79	Photoinduced inter- and intramolecular electron transfer reactions of carboxylatopentaamminecobalt(III) and excited tetra(2,2'-bipyridine) ruthenium(II) complexes. <i>Journal of Chemical Sciences</i> , 1991, 103, 735-740.	1.5	0