

# Shanmugam Manivannan

## List of Publications by Citations

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34  
papers

519  
citations

14  
h-index

22  
g-index

36  
ext. papers

576  
ext. citations

4.3  
avg, IF

4.31  
L-index

#	Paper	IF	Citations
34	Synthesis of cyclodextrin-silicate sol-gel composite embedded gold nanoparticles and its electrocatalytic application. <i>Chemical Engineering Journal</i> , <b>2012</b> , 210, 195-202	14.7	62
33	Core-shell Au/Ag nanoparticles embedded in silicate sol-gel network for sensor application towards hydrogen peroxide. <i>Journal of Chemical Sciences</i> , <b>2009</b> , 121, 735-743	1.8	55
32	Silver nanoparticles deposited on amine-functionalized silica spheres and their amalgamation-based spectral and colorimetric detection of Hg(II) ions. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	42
31	Silver nanoparticles embedded in cyclodextrin-silicate composite and their applications in Hg(II) ion and nitrobenzene sensing. <i>Analyst, The</i> , <b>2013</b> , 138, 1733-9	5	42
30	In Situ Growth of Prussian Blue Nanostructures at Reduced Graphene Oxide as a Modified Platinum Electrode for Synergistic Methanol Oxidation. <i>Langmuir</i> , <b>2016</b> , 32, 1890-8	4	36
29	M13 Virus-Incorporated Biotemplates on Electrode Surfaces To Nucleate Metal Nanostructures by Electrodeposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 32965-32976	9.5	26
28	Gold dendrites Co-deposited with M13 virus as a biosensor platform for nitrite ions. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 94, 87-93	11.8	23
27	Electrodeposited gold dendrites at reduced graphene oxide as an electrocatalyst for nitrite and glucose oxidation. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 776, 82-92	4.1	23
26	Polyelectrolyte stabilized bi-metallic Au/Ag nanoclusters modified electrode for nitric oxide detection. <i>RSC Advances</i> , <b>2015</b> , 5, 54735-54741	3.7	22
25	Colorimetric and optical Hg(II) ion sensor developed with conjugates of M13-bacteriophage and silver nanoparticles. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 20007-20014	3.6	21
24	Synthesis of silicate sol-gel matrix embedded silver nanostructures: Efficient nanocatalyst for the reduction of 4-nitrophenol. <i>Chemical Engineering Journal</i> , <b>2012</b> , 204-206, 16-22	14.7	19
23	Polymer-embedded gold and gold/silver nanoparticle-modified electrodes and their applications in catalysis and sensors. <i>Pure and Applied Chemistry</i> , <b>2011</b> , 83, 2041-2053	2.1	17
22	Petal-like MoS <sub>2</sub> nanostructures with metallic 1T phase for high performance supercapacitors. <i>Current Applied Physics</i> , <b>2018</b> , 18, 345-352	2.6	15
21	Electrodeposited nanostructured raspberry-like gold-modified electrodes for electrocatalytic applications. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	15
20	Hematite/M (M = Au, Pd) Catalysts Derived from a Double-Hollow Prussian Blue Microstructure: Simultaneous Catalytic Reduction of - and -Nitrophenols. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 17557-17570	9.5	14
19	Aggregation-free optical and colorimetric detection of Hg(II) with M13 bacteriophage-templated Au nanowires. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 161, 112237	11.8	13
18	Assemblies of silicate sol-gel matrix encapsulated core/shell Au/Ag nanoparticles: interparticles surface plasmon coupling. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	13

17	One-step Synthesis of AuAg Alloy Nanodots and its Electrochemical Studies towards Nitrobenzene Reduction and Sensing. <i>Electroanalysis</i> , <b>2018</b> , 30, 57-66	3	10
16	An Electrochemical Sensor for Hydrazine Based on <i>In Situ</i> Grown Cobalt Hexacyanoferrate Nanostructured Film. <i>Journal of Electrochemical Science and Technology</i> , <b>2016</b> , 7, 277-285	3.2	9
15	Electrochemical Biosensor Utilizing Supramolecular Association of Enzyme on Sol-gel Matrix Embedded Gold Nanoparticles Supported Reduced Graphene Oxide/β-cyclodextrin Nanocomposite. <i>Electroanalysis</i> , <b>2016</b> , 28, 1608-1616	3	7
14	Electrochemical Properties of Highly Sensitive and Selective CuO Nanostructures Based Neurotransmitter Dopamine Sensor. <i>Electroanalysis</i> , <b>2017</b> , 29, 2106-2113	3	5
13	Electrochemically Co-deposited Teeth-like Virus-Platinum Nanohybrids as an Electrocatalyst for Methanol Oxidation Reaction. <i>Electroanalysis</i> , <b>2018</b> , 30, 220-224	3	5
12	Silicate sol-gel functionalized rGO-Ag sensor-probe for spectral detection of Hg(II) ions. <i>Materials Research Bulletin</i> , <b>2018</b> , 106, 144-151	5.1	5
11	Shape-controlled Electrodeposition of Standing Pt Nanoplates on Gold Substrates as a Sensor Platform for Nitrite Ions. <i>Bulletin of the Korean Chemical Society</i> , <b>2019</b> , 40, 522-528	1.2	4
10	Catalytic Investigation of Ag Nanostructures Loaded on Porous Hematite Cubes: Infiltrated versus Exteriors. <i>ChemistrySelect</i> , <b>2019</b> , 4, 5185-5194	1.8	3
9	M13 Viruses as a Dimension-directing Agent for Fabrication of Core-Shell Gold-Silicate Nanosheets. <i>Bulletin of the Korean Chemical Society</i> , <b>2019</b> , 40, 297-298	1.2	3
8	Concurrent Electrocatalysis and Sensing of Hydrazine and Sulfite and Nitrite Ions using Electrodeposited Gold Nanostructure-Modified Electrode. <i>Journal of Electrochemical Science and Technology</i> , <b>2017</b> , 8, 25-34	3.2	3
7	An Electrochemical Sensor for Hydrazine Based on In Situ Grown Cobalt Hexacyanoferrate Nanostructured Film. <i>Journal of Electrochemical Science and Technology</i> , <b>2016</b> , 7, 277-285	3.2	3
6	M13 virus-templated open mouth-like platinum nanostructures prepared by electrodeposition: Influence of M13-virus on structure and electrocatalytic activity. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 879, 114755	4.1	2
5	Spectroelectrochemical Studies on Silicate Sol-Gel Matrix-supported Sub-10 nm Prussian Blue Nanostructures-based Electrochromic Device. <i>Electroanalysis</i> , <b>2020</b> , 32, 1571-1581	3	1
4	Trimethoxymethylsilane as a solid-electrolyte interphases improver for graphite anode. <i>Current Applied Physics</i> , <b>2021</b> , 26, 72-77	2.6	0
3	Interfacing Silicate Layer Between MoO <sub>3</sub> Ribbon and Pt Metaldots Boosts Methanol Oxidation Reaction. <i>Journal of Electrochemical Science and Technology</i> , <b>2020</b> , 11, 273-281	3.2	
2	Surface Roughness Effects of Pd-loaded Magnetic Microspheres on Reduction Kinetics of Nitroaromatics. <i>Bulletin of the Korean Chemical Society</i> , <b>2021</b> , 42, 894	1.2	
1	Trimesitylborane-embedded radical scavenging separator for lithium-ion batteries. <i>Current Applied Physics</i> , <b>2021</b> , 31, 1-6	2.6	