

# Shanmugam Manivannan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1317693/publications.pdf>

Version: 2024-02-01

36  
papers

645  
citations

566801

15  
h-index

580395

25  
g-index

36  
all docs

36  
docs citations

36  
times ranked

843  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of cyclodextrin-silicate sol-gel composite embedded gold nanoparticles and its electrocatalytic application. <i>Chemical Engineering Journal</i> , 2012, 210, 195-202.	6.6	69
2	Core-shell Au/Ag nanoparticles embedded in silicate sol-gel network for sensor application towards hydrogen peroxide. <i>Journal of Chemical Sciences</i> , 2009, 121, 735-743.	0.7	61
3	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> , 2013, 15, 1.	0.8	47
4	Silver nanoparticles embedded in cyclodextrin-silicate composite and their applications in Hg(ii) ion and nitrobenzene sensing. <i>Analyst</i> , The, 2013, 138, 1733.	1.7	46
5	In Situ Growth of Prussian Blue Nanostructures at Reduced Graphene Oxide as a Modified Platinum Electrode for Synergistic Methanol Oxidation. <i>Langmuir</i> , 2016, 32, 1890-1898.	1.6	41
6	M13 Virus-Incorporated Biotemplates on Electrode Surfaces To Nucleate Metal Nanostructures by Electrodeposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32965-32976.	4.0	32
7	Electrodeposited gold dendrites at reduced graphene oxide as an electrocatalyst for nitrite and glucose oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2016, 776, 82-92.	1.9	30
8	Gold dendrites Co-deposited with M13 virus as a biosensor platform for nitrite ions. <i>Biosensors and Bioelectronics</i> , 2017, 94, 87-93.	5.3	29
9	Polyelectrolyte stabilized bi-metallic Au/Ag nanoclusters modified electrode for nitric oxide detection. <i>RSC Advances</i> , 2015, 5, 54735-54741.	1.7	26
10	Colorimetric and optical Hg(II) ion sensor developed with conjugates of M13-bacteriophage and silver nanoparticles. <i>New Journal of Chemistry</i> , 2018, 42, 20007-20014.	1.4	25
11	Aggregation-free optical and colorimetric detection of Hg(II) with M13 bacteriophage-templated Au nanowires. <i>Biosensors and Bioelectronics</i> , 2020, 161, 112237.	5.3	23
12	Synthesis of silicate sol-gel matrix embedded silver nanostructures: Efficient nanocatalyst for the reduction of 4-nitrophenol. <i>Chemical Engineering Journal</i> , 2012, 204-206, 16-22.	6.6	22
13	Petal-like MoS <sub>2</sub> nanostructures with metallic 1T phase for high performance supercapacitors. <i>Current Applied Physics</i> , 2018, 18, 345-352.	1.1	22
14	Hematite/M (M = Au, Pd) Catalysts Derived from a Double-Hollow Prussian Blue Microstructure: Simultaneous Catalytic Reduction of <i>o</i> - and <i>p</i> -Nitrophenols. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 17557-17570.	4.0	22
15	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.	0.9	19
16	Assemblies of silicate sol-gel matrix encapsulated core/shell Au/Ag nanoparticles: interparticles surface plasmon coupling. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	15
17	Electrodeposited nanostructured raspberry-like gold-modified electrodes for electrocatalytic applications. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	15
18	One-step Synthesis of AuAg Alloy Nanodots and its Electrochemical Studies towards Nitrobenzene Reduction and Sensing. <i>Electroanalysis</i> , 2018, 30, 57-66.	1.5	12

#	ARTICLE	IF	CITATIONS
19	An Electrochemical Sensor for Hydrazine Based on <i>In Situ</i> Grown Cobalt Hexacyanoferrate Nanostructured Film. <i>Journal of Electrochemical Science and Technology</i> , 2016, 7, 277-285.	0.9	11
20	Electrochemical Biosensor Utilizing Supramolecular Association of Enzyme on Sol-gel Matrix Embedded Gold Nanoparticles Supported Reduced Graphene Oxide-cyclodextrin Nanocomposite. <i>Electroanalysis</i> , 2016, 28, 1608-1616.	1.5	10
21	Electrochemical Properties of Highly Sensitive and Selective CuO Nanostructures Based Neurotransmitter Dopamine Sensor. <i>Electroanalysis</i> , 2017, 29, 2106-2113.	1.5	10
22	Electrochemically Co-deposited Teeth-like Virus-Platinum Nanohybrids as an Electrocatalyst for Methanol Oxidation Reaction. <i>Electroanalysis</i> , 2018, 30, 220-224.	1.5	7
23	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> , 2017, 8, 25-34.	0.9	7
24	Silicate sol-gel functionalized rGO-Ag sensor-probe for spectral detection of Hg(II) ions. <i>Materials Research Bulletin</i> , 2018, 106, 144-151.	2.7	6
25	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> , 2020, 879, 114755.	1.9	6
26	Trimethoxymethylsilane as a solid-electrolyte interphases improver for graphite anode. <i>Current Applied Physics</i> , 2021, 26, 72-77.	1.1	5
27	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> , 2019, 40, 522-528.	1.0	4
28	Catalytic Investigation of Ag Nanostructures Loaded on Porous Hematite Cubes: Infiltrated versus Exteriors. <i>ChemistrySelect</i> , 2019, 4, 5185-5194.	0.7	4
29	An Electrochemical Sensor for Hydrazine Based on <i>In Situ</i> Grown Cobalt Hexacyanoferrate Nanostructured Film. <i>Journal of Electrochemical Science and Technology</i> , 2016, 7, 277-285.	0.9	4
30	M13 Viruses as a Dimension-directing Agent for Fabrication of Core-shell Gold-Silicate Nanosheets. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 297-298.	1.0	3
31	Spectroelectrochemical Studies on Silicate Sol-Gel Matrix-supported Sub-10 nm Prussian Blue Nanostructures-based Electrochromic Device. <i>Electroanalysis</i> , 2020, 32, 1571-1581.	1.5	3
32	Monolayer assembly of gold nanodots on polyelectrolyte support: A multifunctional electrocatalyst for reduction of oxygen and oxidation of sulfite and nitrite. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 396-401.	1.0	3
33	Trimesitylborane-embedded radical scavenging separator for lithium-ion batteries. <i>Current Applied Physics</i> , 2021, 31, 1-6.	1.1	2
34	Interfacing Silicate Layer Between MoO <sub>3</sub> Ribbon and Pt Metaldots Boosts Methanol Oxidation Reaction. <i>Journal of Electrochemical Science and Technology</i> , 2020, 11, 273-281.	0.9	2
35	Surface Roughness Effects of Pd-loaded Magnetic Microspheres on Reduction Kinetics of Nitroaromatics. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 894.	1.0	1
36	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> , 2017, 8, 25-34.	0.9	1