Alagarsamy Pandikumar

List of Publications by Year
in descending order

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Version: 2024-02-01

57 papers	3,559 citations	136940 32 h-index	155644 55 g-index
59 all docs	59 docs citations	59 times ranked	5336 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	Highly exposed {001} facets of titanium dioxide modified with reduced graphene oxide for dopamine sensing. Scientific Reports, 2014, 4, 5044.	3.3	250
3	Boosting Photovoltaic Performance of Dye-Sensitized Solar Cells Using Silver Nanoparticle-Decorated N,S-Co-Doped-TiO2 Photoanode. Scientific Reports, 2015, 5, 11922.	3.3	164
4	Gold nanoparticle based optical and electrochemical sensing of dopamine. Mikrochimica Acta, 2015, 182, 2091-2114.	5.0	148
5	Simultaneous Electrochemical Detection of Dopamine and Ascorbic Acid Using an Iron Oxide/Reduced Graphene Oxide Modified Glassy Carbon Electrode. Sensors, 2014, 14, 15227-15243.	3.8	143
6	An electrochemical sensing platform based on a reduced graphene oxideâ€“cobalt oxide nanocube@platinum nanocomposite for nitric oxide detection. Journal of Materials Chemistry A, 2015, 3, 14458-14468.	10.3	141
7	Magnetically separable reduced graphene oxide/iron oxide nanocomposite materials for environmental remediation. Catalysis Science and Technology, 2014, 4, 4396-4405.	4.1	128
8	In-situ electrochemically deposited polypyrrole nanoparticles incorporated reduced graphene oxide as an efficient counter electrode for platinum-free dye-sensitized solar cells. Scientific Reports, 2014, 4, 5305.	3.3	117
9	Amalgamation based optical and colorimetric sensing of mercury(II) ions with silver@graphene oxide nanocomposite materials. Mikrochimica Acta, 2016, 183, 369-377.	5.0	108
10	Ternary nanohybrid of reduced graphene oxide-nafion@silver nanoparticles for boosting the sensor performance in non-enzymatic amperometric detection of hydrogen peroxide. Biosensors and Bioelectronics, 2017, 87, 1020-1028.	10.1	106
11	Enhanced photovoltaic performance of silver@titania plasmonic photoanode in dye-sensitized solar cells. RSC Advances, 2014, 4, 38111-38118.	3.6	104
12	Facile synthesis of graphene oxideâ€“silver nanocomposite and its modified electrode for enhanced electrochemical detection of nitrite ions. Talanta, 2015, 144, 908-914.	5.5	103
13	The biogenic synthesis of a reduced graphene oxideâ€“silver (RGOâ€“Ag) nanocomposite and its dual applications as an antibacterial agent and cancer biomarker sensor. RSC Advances, 2016, 6, 36576-36587.	3.6	97
14	Amino-functionalized MIL-101(Fe) metal-organic framework as a viable fluorescent probe for nitroaromatic compounds. Mikrochimica Acta, 2017, 184, 2265-2273.	5.0	86
15	Enhanced electrocatalytic performance of cobalt oxide nanocubes incorporating reduced graphene oxide as a modified platinum electrode for methanol oxidation. RSC Advances, 2014, 4, 62793-62801.	3.6	85
16	Silver@graphene oxide nanocomposite-based optical sensor platform for biomolecules. RSC Advances, 2015, 5, 17809-17816.	3.6	83
17	Functionalized Silicate Solâ^'Gel-Supported TiO₂â^'Au Coreâ^'Shell Nanomaterials and Their Photoelectrocatalytic Activity. ACS Applied Materials & Interfaces, 2010, 2, 1912-1917.	8.0	78
18	Electrochemical sensing of nitrite using a glassy carbon electrode modified with reduced functionalized graphene oxide decorated with flower-like zinc oxide. Mikrochimica Acta, 2015, 182, 1113-1122.	5.0	76

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19	Facile synthesis of Au@TiO₂ nanocomposite and its application as a photoanode in dye-sensitized solar cells. RSC Advances, 2015, 5, 44398-44407.	3.6	73
20	Cadmium Sulfide Nanoparticles Decorated with Au Quantum Dots as Ultrasensitive Photoelectrochemical Sensor for Selective Detection of Copper(II) Ions. Journal of Physical Chemistry C, 2016, 120, 22202-22214.	3.1	71
21	Promotional effect of silver nanoparticles on the performance of N-doped TiO₂ photoanode-based dye-sensitized solar cells. RSC Advances, 2014, 4, 48236-48244.	3.6	65
22	A gold nanorod-based localized surface plasmon resonance platform for the detection of environmentally toxic metal ions. Analyst, The, 2015, 140, 2540-2555.	3.5	64
23	Titanium dioxideâ€“gold nanocomposite materials embedded in silicate solâ€“gel film catalyst for simultaneous photodegradation of hexavalent chromium and methylene blue. Journal of Hazardous Materials, 2012, 203-204, 244-250.	12.4	63
24	Titania@gold plasmonic nanoarchitectures: An ideal photoanode for dye-sensitized solar cells. Renewable and Sustainable Energy Reviews, 2016, 60, 408-420.	16.4	58
25	Fabrication of Platinumâ€“Rhenium Nanoparticle-Decorated Porous Carbons: Voltammetric Sensing of Furazolidone. ACS Sustainable Chemistry and Engineering, 2020, 8, 3591-3605.	6.7	57
26	Reduced graphene oxide-titania nanocomposite-modified photoanode for efficient dye-sensitized solar cells. International Journal of Energy Research, 2015, 39, 812-824.	4.5	54
27	TiO₂â€“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
28	Goldâ€“silver@TiO₂ nanocomposite-modified plasmonic photoanodes for higher efficiency dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2017, 19, 1395-1407.	2.8	52
29	Gold nanorod-based electrochemical sensing of small biomolecules: A review. Mikrochimica Acta, 2017, 184, 3069-3092.	5.0	51
30	Aminosilicate solâ€“gel stabilized N-doped TiO2â€“Au nanocomposite materials and their potential environmental remediation applications. RSC Advances, 2013, 3, 13390.	3.6	44
31	Photoelectrocatalytic activity of Mn2O3â€“TiO2 composite thin films engendered from a trinuclear molecular complex. International Journal of Hydrogen Energy, 2016, 41, 9267-9275.	7.1	37
32	Silver/titania nanocomposite-modified photoelectrodes for photoelectrocatalytic methanol oxidation. International Journal of Hydrogen Energy, 2014, 39, 14720-14729.	7.1	36
33	Enhanced Charge Transfer Process of Bismuth Vanadate Interleaved Graphitic Carbon Nitride Nanohybrids in Mediatorâ€Free Direct Z Scheme Photoelectrocatalytic Water Splitting. ChemistrySelect, 2019, 4, 4653-4663.	1.5	34
34	Nitrite ion sensing properties of ZnTiO₃â€“TiO₂ composite thin films deposited from a zincâ€“titanium molecular complex. New Journal of Chemistry, 2015, 39, 7442-7452.	2.8	30
35	Facile synthesis of nanosized graphene/Nafion hybrid materials and their application in electrochemical sensing of nitric oxide. Analytical Methods, 2015, 7, 3537-3544.	2.7	30
36	Metal-Free Low-Cost Organic Dye-Sensitized ZnO-Nanorod Photoanode for Solid-State Solar Cell. Materials Express, 2011, 1, 307-314.	0.5	29

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37	Investigation of the electrochemical behavior of indium nitride thin films by plasma-assisted reactive evaporation. RSC Advances, 2015, 5, 17325-17335.	3.6	27
38	Dye sensitized solar cell applications of CdTiO3â€“TiO2 composite thin films deposited from single molecular complex. Journal of Solid State Chemistry, 2015, 230, 155-162.	2.9	25
39	Photocatalytic and antimicrobial activities of functionalized silicate solâ€“gel embedded ZnOâ€“TiO₂ nanocomposite materials. Materials Express, 2013, 3, 291-300.	0.5	24
40	Essential role of N and Au on TiO2 as photoanode for efficient dye-sensitized solar cells. Solar Energy, 2016, 125, 135-145.	6.1	23
41	Photocatalytic reduction of hexavalent chromium at gold nanoparticles modified titania nanotubes. Materials Chemistry and Physics, 2013, 141, 629-635.	4.0	21
42	TiO2-Au nanocomposite materials modified photoanode with dual sensitizer for solid-state dye-sensitized solar cell. Journal of Renewable and Sustainable Energy, 2013, 5, 043101.	2.0	21
43	Ultrafine Biâ€“Sn nanoparticles decorated on carbon aerogels for electrochemical simultaneous determination of dopamine (neurotransmitter) and clozapine (antipsychotic drug). Nanoscale, 2020, 12, 22217-22233.	5.6	21
44	Reinforcement of Visible-Light Harvesting and Charge-Transfer Dynamics of BiVO₄ Photoanode via Formation of pâ€“n Heterojunction with CuO for Efficient Photoelectrocatalytic Water Splitting. ACS Applied Energy Materials, 2022, 5, 6618-6632.	5.1	21
45	A Facile Preparation of Titanium Dioxide-Iron Oxide@Silicon Dioxide Incorporated Reduced Graphene Oxide Nanohybrid for Electrooxidation of Methanol in Alkaline Medium. Electrochimica Acta, 2016, 192, 167-176.	5.2	20
46	Fabrication of CuOâ€“1.5ZrO₂ composite thin film, from heteronuclear molecular complex and its electrocatalytic activity towards methanol oxidation. RSC Advances, 2015, 5, 103852-103862.	3.6	19
47	Electrochemical sensing of nitrite using a copperâ€“titanium oxide composite derived from a hexanuclear complex. RSC Advances, 2016, 6, 27852-27861.	3.6	19
48	Photoelectrochemical properties of morphology controlled manganese, iron, nickel and copper oxides nanoball thin films deposited by electric field directed aerosol assisted chemical vapour deposition. Materials Today Communications, 2015, 4, 141-148.	1.9	18
49	Aminosilicate sol-gel supported zinc oxide-silver nanocomposite material for photoelectrocatalytic oxidation of methanol. Journal of Alloys and Compounds, 2016, 680, 633-641.	5.5	18
50	Colorimetric and visual dopamine assay based on the use of gold nanorods. Mikrochimica Acta, 2017, 184, 4125-4132.	5.0	17
51	Dye Sensitized Solar Cell: A Summary. Materials Science Forum, 0, 771, 1-24.	0.3	16
52	Optical and optoelectronic properties of morphology and structure controlled ZnO, CdO and PbO thin films deposited by electric field directed aerosol assisted CVD. Journal of Materials Science: Materials in Electronics, 2017, 28, 868-877.	2.2	13
53	Photoelectrocatalytic performance of a titaniaâ€“keggin type polyoxometalateâ€“gold nanocomposite modified electrode in methanol oxidation. Nanotechnology, 2013, 24, 435401.	2.6	12
54	Voltammetric determination of nitric oxide using a glassy carbon electrode modified with a nanohybrid consisting of myoglobin, gold nanorods, and reduced graphene oxide. Mikrochimica Acta, 2016, 183, 3077-3085.	5.0	11

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55	Zinc Oxide Nanopillar: Preparation, Characterization and Its Photoelectrocatalytic Activity. Materials Focus, 2014, 3, 345-349.	0.4	9
56	Rational design and fabrication of surface tailored low dimensional Indium Gallium Nitride for photoelectrochemical water cleavage. International Journal of Hydrogen Energy, 2020, 45, 8198-8222.	7.1	8
57	Hydrothermally prepared graphene-titania nanocomposite for the solar photocatalytic degradation of methylene blue. Desalination and Water Treatment, 0, , 1-8.	1.0	4