Sotiris Sotiropoulos

List of Publications by Year
in descending order

91 papers	3,169 citations	136950 32 h-index	161849 54 g-index
94 all docs	94 docs citations	94 times ranked	3690 citing authors

#	Article	IF	Citations
1	Carbon nanotube/titanium dioxide (CNT/TiO2) coreâ€“shell nanocomposites with tailored shell thickness, CNT content and photocatalytic/photoelectrocatalytic properties. Applied Catalysis B: Environmental, 2011, 110, 50-57.	20.2	184
2	Methanol Oxidation at Ptâˆ’Cu, Ptâˆ’Ni, and Ptâˆ’Co Electrode Coatings Prepared by a Galvanic Replacement Process. Journal of Physical Chemistry C, 2010, 114, 5217-5223.	3.1	181
3	Recent Advances in Anodic Stripping Voltammetry with Bismuth-Modified Carbon Paste Electrodes. Electroanalysis, 2006, 18, 177-185.	2.9	135
4	Bi-component semiconductor oxide photoanodes for the photoelectrocatalytic oxidation of organic solutes and vapours: A short review with emphasis to TiO2â€“WO3 photoanodes. Journal of Hazardous Materials, 2012, 211-212, 30-46.	12.4	134
5	Preparation and characterisation of platinum- and gold-coated copper, iron, cobalt and nickel deposits on glassy carbon substrates. Electrochimica Acta, 2008, 53, 6559-6567.	5.2	132
6	Electrocatalysts Prepared by Galvanic Replacement. Catalysts, 2017, 7, 80.	3.5	109
7	Enhanced photocatalytic activity of electrosynthesised tungsten trioxideâ€“titanium dioxide bi-layer coatings under ultraviolet and visible light illumination. Electrochemistry Communications, 2007, 9, 365-370.	4.7	99
8	Effect of Bi(III) concentration on the stripping voltammetric response of in situ bismuth-coated carbon paste and gold electrodes. Electrochimica Acta, 2006, 52, 481-490.	5.2	96
9	Pt-Cu electrocatalysts for methanol oxidation prepared by partial galvanic replacement of Cu/carbon powder precursors. Applied Catalysis B: Environmental, 2013, 136-137, 160-167.	20.2	82
10	Electrochemical impedance studies of IrO 2 catalysts for oxygen evolution. Journal of Electroanalytical Chemistry, 2015, 757, 216-224.	3.8	77
11	Rotating disc electrode studies of borohydride oxidation at Pt and bimetallic Ptâ€“Ni and Ptâ€“Co electrodes. Catalysis Today, 2011, 170, 126-133.	4.4	75
12	Anodic stripping voltammetry at a new type of disposable bismuth-plated carbon paste mini-electrodes. Analytica Chimica Acta, 2007, 599, 249-255.	5.4	65
13	Mixed platinumâ€“gold electrocatalysts for borohydride oxidation prepared by the galvanic replacement of nickel deposits. Journal of Electroanalytical Chemistry, 2009, 634, 104-110.	3.8	63
14	Preparation and characterization of microporous Ni coatings as hydrogen evolving cathodes. Journal of Applied Electrochemistry, 2000, 30, 107-111.	2.9	58
15	Preparation and photoelectrochemical characterisation of electrosynthesised titanium dioxide deposits on stainless steel substrates. Electrochimica Acta, 2006, 51, 2076-2087.	5.2	56
16	Anodic stripping voltammetry at in situ bismuth-plated carbon and gold microdisc electrodes in variable electrolyte content unstirred solutions. Analytica Chimica Acta, 2006, 580, 24-31.	5.4	55
17	Methanol oxidation at platinized lead coatings prepared by a two-step electrodepositionâ€“electroless deposition process on glassy carbon and platinum substrates. Electrochimica Acta, 2007, 52, 6254-6260.	5.2	54
18	Oxygen Evolution at IrO₂Shellâ€“Irâˆ’Ni Core Electrodes Prepared by Galvanic Replacement. Journal of Physical Chemistry C, 2016, 120, 19995-20005.	3.1	54

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19	Oxygen reduction at platinum- and gold-coated iron, cobalt, nickel and lead deposits on glassy carbon substrates. Journal of Electroanalytical Chemistry, 2008, 623, 187-196.	3.8	52
20	Photoelectrocatalytic degradation of the insecticide imidacloprid using TiO2/Ti electrodes. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 204, 129-136.	3.9	50
21	A simple preparation method and characterization of B and N co-doped TiO 2 nanotube arrays with enhanced photoelectrochemical performance. Applied Surface Science, 2017, 413, 284-291.	6.1	50
22	Surface and electrochemical characterisation of a Pt-Cu/C nano-structured electrocatalyst, prepared by galvanic displacement. Applied Catalysis B: Environmental, 2014, 150-151, 249-256.	20.2	49
23	Study on the electrochemical detection of the macrolide antibiotics clarithromycin and roxithromycin in reversed-phase high-performance liquid chromatography. Biomedical Applications, 2001, 755, 57-64.	1.7	48
24	Oxygen reduction at platinum- and gold-coated copper deposits on glassy carbon substrates. Journal of Electroanalytical Chemistry, 2007, 608, 67-77.	3.8	48
25	Cathodic reduction of oxygen in water and media of low ionic strength. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 457.	1.7	46
26	Electrodeposition of Ni from a high internal phase emulsion (HIPE) template. Electrochimica Acta, 2001, 46, 2711-2720.	5.2	44
27	The determination of cysteine at Bi-powder carbon paste electrodes by cathodic stripping voltammetry. Electrochemistry Communications, 2008, 10, 918-921.	4.7	44
28	Nickel incorporation into a hollow fibre microporous polymer: a preparation route for novel high surface area nickel structures. Materials Letters, 1998, 35, 383-391.	2.6	42
29	Ptâ€“Ni carbon-supported catalysts for methanol oxidation prepared by Ni electroless deposition and its galvanic replacement by Pt. Journal of Solid State Electrochemistry, 2013, 17, 435-443.	2.5	40
30	An all-solid photoelectrochemical cell for the photooxidation of organic vapours under ultraviolet and visible light illumination. Electrochemistry Communications, 2009, 11, 1643-1646.	4.7	38
31	A rotating disc electrode study of oxygen reduction at platinised nickel and cobalt coatings. Journal of Solid State Electrochemistry, 2010, 14, 175-184.	2.5	37
32	Photoelectrocatalytic activity of bi-layer TiO2/WO3 coatings for the degradation of 4-chlorophenol: effect of morphology and catalyst loading. Journal of Applied Electrochemistry, 2011, 41, 173-181.	2.9	37
33	Photoelectrochemical behaviour of electrodeposited tungsten trioxide and electrosynthesised titanium dioxide single component and bilayer coatings on stainless steel substrates. Journal of Electroanalytical Chemistry, 2005, 585, 35-43.	3.8	32
34	Photoelectrochemical characterisation of thermal and particulate titanium dioxide electrodes. Journal of Applied Electrochemistry, 2006, 36, 463-474.	2.9	32
35	Morphology, Structure and Photoelectrocatalytic Activity of TiO[sub 2]/WO[sub 3] Coatings Obtained by Pulsed Electrodeposition onto Stainless Steel. Journal of the Electrochemical Society, 2010, 157, D309.	2.9	32
36	Broadband luminescence in defect-engineered electrochemically produced porous Si/ZnO nanostructures. Scientific Reports, 2018, 8, 6988.	3.3	32

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37	Direct RPâ€HPLC determination of underivatized amino acids with online dual UV absorbance, fluorescence, and multiple electrochemical detection. Journal of Separation Science, 2009, 32, 949-954.	2.5	31
38	Comparison of the photoelectrochemical performance of particulate and nanotube TiO 2 photoanodes. Catalysis Today, 2017, 280, 14-20.	4.4	31
39	Photoelectrocatalytic inactivation of E. coli XLâ€1 blue colonies in water. Journal of Chemical Technology and Biotechnology, 2010, 85, 1054-1060.	3.2	30
40	Ternary Pt-Ru-Ni catalytic layers for methanol electrooxidation prepared by electrodeposition and galvanic replacement. Frontiers in Chemistry, 2014, 2, 29.	3.6	28
41	Gas Phase Photoelectrochemistry in a Polymer Electrolyte Cell with a Titanium Dioxide/Carbon/Nafion Photoanode. Electrochemical and Solid-State Letters, 2010, 13, P11.	2.2	27
42	The effect of acetate concentration, solution pH and conductivity on the anodic stripping voltammetry of lead and cadmium ions at in situ bismuth-plated carbon microelectrodes. Journal of Electroanalytical Chemistry, 2011, 660, 31-36.	3.8	27
43	Methanol oxidation and photo-oxidation at Pt/WO3 electrocatalysts on graphite substrates. Journal of Electroanalytical Chemistry, 2014, 727, 135-140.	3.8	27
44	Preparation of microporous nickel electrodeposits using a polymer matrix. Materials Research Bulletin, 1999, 34, 1055-1064.	5.2	25
45	Hydrogen evolution at Ir-Ni bimetallic deposits prepared by galvanic replacement. Journal of Electroanalytical Chemistry, 2018, 808, 21-27.	3.8	25
46	Photoelectrochemical characterisation and photocatalytic activity of composite La2O3â€“TiO2 coatings on stainless steel. Applied Catalysis B: Environmental, 2007, 73, 23-33.	20.2	24
47	Pt(Ni) electrocatalysts for methanol oxidation prepared by galvanic replacement on TiO2 and TiO2â€“C powder supports. Journal of Electroanalytical Chemistry, 2015, 754, 65-74.	3.8	24
48	Carbon-supported Pt(Cu) electrocatalysts for methanol oxidation prepared by Cu electroless deposition and its galvanic replacement by Pt. Journal of Applied Electrochemistry, 2014, 44, 215-224.	2.9	22
49	pH: Principles and Measurement. , 2016, , 333-338.		21
50	The reduction of benzylbromide at Ag-Ni deposits prepared by galvanic replacement. Electrochimica Acta, 2016, 196, 756-768.	5.2	21
51	Electrodeposition of lead dioxide on carbon substrates from a high internal phase emulsion (HIPE). Journal of Applied Electrochemistry, 2004, 34, 1-7.	2.9	19
52	Hydrogen production using a photoelectrocatalyticâ€“enzymatic hybrid system. Catalysis Today, 2013, 209, 60-65.	4.4	18
53	An electrochemical technique for state of charge (SOC) probing of positive leadâ€“acid battery plates. Journal of Power Sources, 2002, 110, 96-106.	7.8	17
54	Adsorption of the Neutral Macromonomeric Surfactant Tween-80 at the Mercury/Electrolyte Solution Interface as a Function of Electrode Potential and Time. Langmuir, 2000, 16, 6043-6053.	3.5	16

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55	Electrochemistry of planar solid-state amperometric devices based on NafionÂ® and polybenzimidazole solid polymer electrolytes. Electrochimica Acta, 2001, 46, 1523-1532.	5.2	16
56	Electroplating and electroless plating of Ni through/onto a porous polymer in a flow cell. Journal of Applied Electrochemistry, 2001, 31, 1203-1212.	2.9	16
57	Hydrogen production using an algae photoelectrochemical cell. Applied Catalysis B: Environmental, 2013, 142-143, 161-168.	20.2	16
58	Oxygen Evolution Reaction at IrO2/Ir(Ni) Film Electrodes Prepared by Galvanic Replacement and Anodization: Effect of Precursor Ni Film Thickness. Molecules, 2019, 24, 2095.	3.8	15
59	Behavior of Ti-6Al-4 V surfaces after exposure to water disinfected with ionic silver. Applied Surface Science, 2018, 427, 763-770.	6.1	14
60	Oxygen evolution at IrO2-modified Ti anodes prepared by a simple galvanic deposition method. Journal of Electroanalytical Chemistry, 2019, 855, 113485.	3.8	14
61	Electrochemical and bio-electrochemical treatment of bakerâ€™s yeast effluents. Journal of Environmental Chemical Engineering, 2017, 5, 699-708.	6.7	13
62	The Effect of Carbon Content on Methanol Oxidation and Photo-Oxidation at Pt-TiO2-C Electrodes. Catalysts, 2020, 10, 248.	3.5	13
63	Oxygen sensors based on a new design concept for amperometric solid state devices. Sensors and Actuators B: Chemical, 1999, 60, 174-183.	7.8	12
64	Silver deposition on stainless steel container surfaces in contact with disinfectant silver aqueous solutions. Applied Surface Science, 2017, 396, 1067-1075.	6.1	12
65	Pt(Cu) catalyst on TiO2 powder support prepared by photodeposition-galvanic replacement method. Journal of Electroanalytical Chemistry, 2018, 823, 624-632.	3.8	12
66	Ternary IrO2-Pt-Ni deposits prepared by galvanic replacement as bifunctional oxygen catalysts. Journal of Electroanalytical Chemistry, 2020, 877, 114499.	3.8	11
67	Biocatalytic and bioelectrolytic decolorization of simulated melanoidin wastewaters by Saccharomyces cerevisiae cells suspended and conjugated on silica and alumina. Journal of Environmental Chemical Engineering, 2020, 8, 104078.	6.7	9
68	Electrochemical studies of processes occurring at the polycrystalline Cu electrode/methanol interface. Journal of Electroanalytical Chemistry, 2016, 783, 217-225.	3.8	8
69	Photoelectrocatalytic Oxidation of Organics Under Visible Light Illumination: A Short Review. Current Organic Chemistry, 2015, 19, 512-520.	1.6	8
70	A NafionÂ®-based co-planar electrode amperometric sensor for methanol determination in the gas phase. Journal of Chemical Sciences, 2009, 121, 703-709.	1.5	7
71	Pt-doped TiO 2 /WO 3 bi-layer catalysts on graphite substrates with enhanced photoelectrocatalytic activity for methanol oxidation under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 346, 70-76.	3.9	7
72	Solid-state microelectrode oxygen sensors. Analytica Chimica Acta, 1999, 388, 51-62.	5.4	6

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73	Mobile Phase pH, Column Temperature, and Eluent Flow Rate Effects on Separation and Fluorescenceâ€Electrochemical Detection of OPA Derivatives of Amino Acids in Reversedâ€Phase Liquid Chromatography. Journal of Liquid Chromatography and Related Technologies, 2008, 31, 1434-1447.	1.0	6
74	Probing the hydrogen adsorption affinity of Pt and Ir by surface interrogation scanning electrochemical microscopy (SI-SECM). Electrochemistry Communications, 2017, 83, 77-80.	4.7	6
75	Adsorption behavior of bis (2-ethylhexyl) sodium sulfosuccinate (AOT) at the mercury-electrolyte solution interface as a function of electrode potential and time. Colloid and Polymer Science, 1994, 272, 1252-1258.	2.1	5
76	Characterisation of a simple electrochemical detector for high-performance liquid chromatography and flow-injection analysis based on carbon microcylinder electrodes. Analytica Chimica Acta, 2003, 497, 175-189.	5.4	5
77	Effect of TiO<SUB align=right>2/WO<SUB align=right>3/C photoanode composition on the photocurrent of all-solid photoelectrochemical cells. International Journal of Nanoparticles, 2011, 4, 216.	0.3	5
78	Thermal and corrosion resistance of nanocomposite gradient TiAlSiN films. Journal of Thermal Analysis and Calorimetry, 2016, 123, 169-179.	3.6	5
79	Study of the adsorption of cholate anions at the mercuryâ€"electrolyte solution interface by means of three-dimensional phase-sensitive a.c. voltammetry. Bioelectrochemistry, 1992, 29, 223-235.	1.0	4
80	A general approach to the derivation of peak area flow dependence in FIA and HPLC amperometric detection. Electrochimica Acta, 2003, 48, 2447-2462.	5.2	4
81	Advances in Liquid Chromatographic and Voltammetric Analysis of Underivatized Amino Acids. Current Organic Chemistry, 2010, 14, 2235-2246.	1.6	4
82	Photodeposited IrO2 on TiO2 support as a catalyst for oxygen evolution reaction. Journal of Electroanalytical Chemistry, 2021, 900, 115720.	3.8	4
83	Dental Polymer Nanocomposites Light-Cured under Polyester Strip: Effect of Water or Ethanol/Water Solution on Surface Characteristics Studied by SEM and AFM. Polymer-Plastics Technology and Engineering, 2015, 54, 1596-1605.	1.9	3
84	Combination of Thermal, Hydrometallurgical and Electrochemical Tannery Waste Treatment for Cr(III) Recovery. Applied Sciences (Switzerland), 2021, 11, 532.	2.5	3
85	Contemporary Dental Polymer Nanocomposites Light-Cured Under Polyester Strip: Evaluation of Surface Characteristics Using SEM and AFM. Polymer-Plastics Technology and Engineering, 2015, 54, 1159-1171.	1.9	2
86	Platinized titanium dioxide electrodes for methanol oxidation and photo-oxidation. Journal of Electrochemical Science and Engineering, 2012, , .	3.5	2
87	Morphology, Structure and Photo-Electro-Catalytic Activity of TiO₂/WO₃ Coatings Obtained by Pulsed Electrodeposition onto Stainless Steel. ECS Transactions, 2010, 25, 13-24.	0.5	1
88	Optimal Conditions for the Direct RP-HPLC Determination of Underivatized Amino Acids with Online Multiple Detection. Methods in Molecular Biology, 2012, 828, 101-114.	0.9	1
89	Methanol oxidation at platinized copper particles prepared by galvanic replacement. Journal of Electrochemical Science and Engineering, 2015, .	3.5	1
90	Electrochemical conversion of chromium from tannery effluents for potential reuse in industrial applications. Environmental Science and Pollution Research, 2023, 30, 8722-8731.	5.3	1

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91	Surfactants and Biological Molecules at Interfaces. , 0, , 7210-7226.		0