Carmelo Sunseri

List of Publications by Year
in descending order

107 papers	3,248 citations	117625 34 h-index	197818 49 g-index
111 all docs	111 docs citations	111 times ranked	2259 citing authors

#	Article	IF	Citations
1	Anodic Alumina Membranes: From Electrochemical Growth to Use as Template for Fabrication of Nanostructured Electrodes. Applied Sciences (Switzerland), 2022, 12, 869.	2.5	7
2	Ni alloy nanowires as high efficiency electrode materials for alkaline electrolysers. International Journal of Hydrogen Energy, 2021, 46, 35777-35789.	7.1	17
3	Nanostructured Niâ€“Co alloy electrodes for both hydrogen and oxygen evolution reaction in alkaline electrolyzer. International Journal of Hydrogen Energy, 2021, 46, 10082-10092.	7.1	44
4	Synthesis of Silver Gallium Selenide (AgGaSe₂) Nanotubes and Nanowires by Template-Based Electrodeposition. Journal of Nanoscience and Nanotechnology, 2020, 20, 999-1007.	0.9	1
5	Nanostructured Ni Based Anode and Cathode for Alkaline Water Electrolyzers. Energies, 2019, 12, 3669.	3.1	20
6	Chitosan-Coating Deposition via Galvanic Coupling. ACS Biomaterials Science and Engineering, 2019, 5, 1715-1724.	5.2	17
7	Template electrodeposition and characterization of nanostructured Pb as a negative electrode for lead-acid battery. Journal of Power Sources, 2019, 413, 107-116.	7.8	31
8	Nanostructured electrodes for hydrogen production in alkaline electrolyzer. Renewable Energy, 2018, 123, 117-124.	8.9	38
9	In Vitro Corrosion and Biocompatibility of Brushite/Hydroxyapatite Coatings Obtained by Galvanic Deposition on 316LSS. Journal of the Electrochemical Society, 2018, 165, G1-G10.	2.9	9
10	A nanostructured sensor of hydrogen peroxide. Sensors and Actuators B: Chemical, 2017, 245, 44-54.	7.8	46
11	Electrochemical deposition of Ag 2 Se nanostructures. Materials Research Bulletin, 2017, 86, 10-18.	5.2	11
12	Amorphous silicon nanotubes. Series in Materials Science and Engineering, 2017, , 565-590.	0.1	0
13	Galvanic deposition and characterization of brushite/hydroxyapatite coatings on 316L stainless steel. Materials Science and Engineering C, 2016, 64, 93-101.	7.3	28
14	Investigation of Annealing Conditions on Electrochemically Deposited CZTS Film on Flexible Molybdenum Foil. Journal of the Electrochemical Society, 2016, 163, D532-D536.	2.9	6
15	Recent improvements in PbO2 nanowire electrodes for lead-acid battery. Journal of Power Sources, 2015, 275, 181-188.	7.8	30
16	High-performance of PbO2 nanowire electrodes for lead-acid battery. Journal of Power Sources, 2014, 256, 72-79.	7.8	34
17	Electrochemical Deposition of CZTS Thin Films on Flexible Substrate. Energy Procedia, 2014, 44, 105-110.	1.8	52
18	CuInSe<inf>2</inf>/Zn(S,O,OH) junction on Mo foil by electrochemical and chemical route for photovoltaic applications. , 2014, , .		7

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19	Toward Tin-Based High-Capacity Anode for Lithium-Ion Battery. ECS Transactions, 2014, 48, 153-162.	0.5	2
20	Template Electrochemical Growth and Properties of Mo Oxide Nanostructures. Journal of Physical Chemistry C, 2014, 118, 22299-22308.	3.1	33
21	Fabrication and characterization of nanostructured Niâ€“IrO2 electrodes for water electrolysis. International Journal of Hydrogen Energy, 2014, 39, 16797-16805.	7.1	30
22	Growth and photoelectrochemical behaviour of electrodeposited ZnO thin films for solar cells. Journal of Applied Electrochemistry, 2013, 43, 199-208.	2.9	24
23	Deposition of very thin uniform indium sulfide layers over metallic nano-rods by the Spray-Ion Layer Gas Reaction method. Thin Solid Films, 2013, 548, 91-97.	1.8	8
24	Amorphous silicon nanotubes via galvanic displacement deposition. Electrochemistry Communications, 2013, 34, 134-137.	4.7	33
25	A Route to Grow Oxide Nanostructures Based on Metal Displacement Deposition: Lanthanides Oxy/Hydroxides Characterization. Journal of the Electrochemical Society, 2012, 159, D493-D500.	2.9	13
26	Formation of lead by reduction of electrodeposited PbO2: comparison between bulk films and nanowires fabrication. Journal of Solid State Electrochemistry, 2012, 16, 3939-3946.	2.5	7
27	A new route to grow oxide nanostructures based on metal displacement deposition. Lanthanides oxy/hydroxides growth. Electrochimica Acta, 2012, 76, 77-87.	5.2	23
28	High-performing Snâ€“Co nanowire electrodes as anodes for lithium-ion batteries. Journal of Power Sources, 2012, 211, 103-107.	7.8	43
29	SnCo nanowire array as negative electrode for lithium-ion batteries. Journal of Power Sources, 2011, 196, 1469-1473.	7.8	44
30	Ruthenium Oxide Nanotubes Via Template Electrosynthesis. Current Nanoscience, 2011, 7, 210-218.	1.2	14
31	Nanostructured Material Fabrication for Energy Conversion. ECS Transactions, 2011, 32, 55-63.	0.5	1
32	Effect of temperature on the growth of Î±-PbO2 nanostructures. Electrochimica Acta, 2010, 55, 8556-8562.	5.2	33
33	Lead Nanowires for Microaccumulators Obtained Through Indirect Electrochemical Template Deposition. Electrochemical and Solid-State Letters, 2010, 13, K1.	2.2	26
34	An electrochemical route towards the fabrication of nanostructured semiconductor solar cells. , 2010, , .		19
35	Electro-Synthesis of Snâ€“Co Nanowires in Alumina Membranes. Journal of Nanoscience and Nanotechnology, 2010, 10, 8328-8335.	0.9	8
36	Fabrication and Photoelectrochemical Behavior of Ordered CIGS Nanowire Arrays for Application in Solar Cells. Electrochemical and Solid-State Letters, 2010, 13, K22.	2.2	32

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37	Characterization of Snâ€“Co Nanowires Grown into Alumina Template. Electrochemical and Solid-State Letters, 2009, 12, K17.	2.2	12
38	Influence of the electrical parameters on the fabrication of copper nanowires into anodic alumina templates. Applied Surface Science, 2009, 255, 8816-8823.	6.1	40
39	Photo-electrochemical investigation of anodic oxide films on cast Tiâ€“Mo alloys. I. Anodic behaviour and effect of alloy composition. Electrochimica Acta, 2009, 54, 1395-1402.	5.2	16
40	Metallic lead recovery from lead-acid battery paste by urea acetate dissolution and cementation on iron. Hydrometallurgy, 2009, 96, 123-131.	4.3	51
41	Synthesis of self-standing Pd nanowires via galvanic displacement deposition. Electrochemistry Communications, 2009, 11, 1385-1388.	4.7	37
42	Influence of electrodeposition techniques on Ni nanostructures. Electrochimica Acta, 2008, 53, 5766-5773.	5.2	46
43	Novel procedure for the template synthesis of metal nanostructures. Electrochemistry Communications, 2008, 10, 506-509.	4.7	54
44	Template electrosynthesis of aligned Cu2O nanowires. Electrochimica Acta, 2008, 53, 6504-6512.	5.2	34
45	The influence of the nature of the surface oxide on the adhesive fracture energy of aluminium-bonded joints as measured by T-peel tests. International Journal of Adhesion and Adhesives, 2008, 28, 211-221.	2.9	22
46	Growth and Characterization of Ordered PbO[sub 2] Nanowire Arrays. Journal of the Electrochemical Society, 2008, 155, K205.	2.9	33
47	Preparation of Pd-Coated Anodic Alumina Membranes for Gas Separation Media. Journal of the Electrochemical Society, 2007, 154, D188.	2.9	6
48	Photoelectrochemical Characterization of Cu[sub 2]O-Nanowire Arrays Electrodeposited into Anodic Alumina Membranes. Electrochemical and Solid-State Letters, 2007, 10, K63.	2.2	30
49	Template electrosynthesis of CeO₂nanotubes. Nanotechnology, 2007, 18, 485605.	2.6	48
50	Fabrication of metal nano-structures using anodic alumina membranes grown in phosphoric acid solution: Tailoring template morphology. Applied Surface Science, 2007, 253, 5447-5456.	6.1	34
51	Laser surface treatments for adhesion improvement of aluminium alloys structural joints. Radiation Physics and Chemistry, 2007, 76, 1441-1446.	2.8	31
52	Developing a procedure to optimize electroless deposition of thin palladium layer on anodic alumina membranes. Desalination, 2006, 199, 352-354.	8.2	10
53	The effect of thickness on the composition of passive films on a Tiâ€“50Zr at% alloy. Electrochimica Acta, 2006, 51, 3506-3515.	5.2	18
54	Optimized bath for electroless deposition of palladium on amorphous alumina membranes. Surface and Coatings Technology, 2006, 200, 5800-5806.	4.8	28

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55	Porosity of anodic alumina membranes from electrochemical measurements. Journal of Solid State Electrochemistry, 2006, 10, 416-421.	2.5	12
56	Influence of nanoporous structure on mechanical strength of aluminium and aluminium alloy adhesive structural joints. Journal of Physics Condensed Matter, 2006, 18, S2007-S2018.	1.8	11
57	Impedance spectroscopy characterization of functionalized alumina membranes. Solid State Ionics, 2005, 176, 2887-2891.	2.7	3
58	Nanoporous alumina membranes filled with solid acid for thin film fuel cells at intermediate temperatures. Electrochemistry Communications, 2004, 6, 923-928.	4.7	32
59	Photo-electrochemical and impedance investigation of passive layers grown anodically on titanium alloys. Electrochimica Acta, 2004, 49, 4563-4576.	5.2	54
60	Photoelectrochemical investigation of passive layers formed on Fe in different electrolytic solutions. Corrosion Science, 2004, 46, 831-851.	6.6	29
61	Influence of initial treatments of aluminium on the morphological features of electrochemically formed alumina membranes. Materials Science and Engineering C, 2003, 23, 1021-1026.	7.3	22
62	Recent advances in photocurrent spectroscopy of passive films. Electrochimica Acta, 2003, 48, 1105-1114.	5.2	28
63	Microporous alumina membranes electrochemically grown. Electrochimica Acta, 2003, 48, 3175-3183.	5.2	55
64	Asymmetric alumina membranes electrochemically formed in oxalic acid solution. Journal of Applied Electrochemistry, 2002, 32, 977-985.	2.9	41
65	Semiempirical Correlation between the Optical Band Gap of Oxides and Hydroxides and the Electronegativity of Their Constituents. Materials Research Society Symposia Proceedings, 2000, 654, 481.	0.1	2
66	A semiempirical correlation between the optical band gap of hydroxides and the electronegativity of their constituents. Russian Journal of Electrochemistry, 2000, 36, 1203-1208.	0.9	34
67	The Influence of the Electronic Properties of Passive Films on the Corrosion Resistance of Mo-Ta Alloys A Photoelectrochemical Study. Journal of the Electrochemical Society, 2000, 147, 1366.	2.9	31
68	Photoelectrochemical study of electrochemically formed semiconducting yttrium hydride (YH3â^'x). Electrochimica Acta, 1999, 44, 4051-4059.	5.2	6
69	Effect of the Initial Treatment on the Structure of Thin Anodic Films on Aluminum. Journal of the Electrochemical Society, 1999, 146, 493-501.	2.9	20
70	In situ characterization of passive films on al-ti alloy by photocurrent and impedance spectroscopy. Corrosion Science, 1998, 40, 1087-1108.	6.6	55
71	Semiempirical Correlation between Optical Band Gap Values of Oxides and the Difference of Electronegativity of the Elements. Its Importance for a Quantitative Use of Photocurrent Spectroscopy in Corrosion Studies. Journal of Physical Chemistry B, 1997, 101, 2519-2525.	2.6	160
72	Photoelectrochemical characterization of thin anodic oxide films on zirconium metal. Electrochimica Acta, 1996, 41, 2511-2521.	5.2	39

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73	Synthetic Diamond Electrodes: Photoelectrochemical Investigation of Undoped and Boronâ€Doped Polycrystalline Thin Films. Journal of the Electrochemical Society, 1995, 142, 2704-2709.	2.9	48
74	The photoelectrochemistry of thin passive layers. Investigation of anodic oxide films on titanium metal. Electrochimica Acta, 1993, 38, 29-35.	5.2	43
75	A photoelectrochemical study on anodic tantalum oxide films. Corrosion Science, 1993, 35, 801-808.	6.6	17
76	Cathodic Photoemission Processes at the Alâ€Electrolyte Interface in the Initial Stages of Passive Film Formation. Journal of the Electrochemical Society, 1993, 140, 3146-3152.	2.9	19
77	Comments on the paper by J.F. JuliÃ£o et al. on â€œanodic niobium pentoxide films: Growth and thickness determination by in situ optoelectrochemical measurementsâ€. Electrochimica Acta, 1992, 37, 1105-1106.	5.2	1
78	Investigation of amorphous oxide film-electrolyte junctions by AC techniques. AICHE Journal, 1992, 38, 219-226.	3.6	12
79	Amorphous semiconductorâ€"electrolyte junction. Energetics at the a-WO3â€"electrolyte junction. Electrochimica Acta, 1991, 36, 1817-1822.	5.2	30
80	Photoelectrochemical Study on Anodic Aluminum Oxide Films: Internal Photoemission Processes at the Metalâ€Oxide Interface. Journal of the Electrochemical Society, 1991, 138, 1856-1861.	2.9	28
81	A photocurrent spectroscopic study of the initial stages of anodic oxide film formation on niobium. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 293, 69-84.	0.1	18
82	Amorphous semiconductorâ€"electrolyte junction. Impedance study on the a-Nb2 O5â€"electrolyte junction. Electrochimica Acta, 1990, 35, 99-107.	5.2	59
83	Photocurrent Spectroscopic Investigations of Passive Films on Chromium. Journal of the Electrochemical Society, 1990, 137, 2411-2417.	2.9	170
84	Investigation of the kinetics of growth of anodic oxide films on niobium by galvanostatic and tensiodynamic experiments. Corrosion Science, 1990, 31, 267-273.	6.6	10
85	A photocurrent spectroscopic investigation of passive films on chromium. Corrosion Science, 1990, 31, 721-726.	6.6	33
86	Amorphous semiconductor-electrolyte junction. Interference effects on the photocharacteristics of the a-Nb2O5-electrolyte junction. Electrochimica Acta, 1989, 34, 321-327.	5.2	14
87	Amorphous semiconductor/electrolyte junction. Interference effects during the growth of anodic Nb2O5 films under absorbed light. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 3309.	1.0	10
88	Electrical and mechanical breakdown of anodic films on tungsten in aqueous electrolytes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 248, 99-115.	0.1	36
89	Electrical breakdown and pitting in anodic films on tungsten in halogen ion-containing solutions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 248, 117-129.	0.1	16
90	A Photocurrent Spectroscopic Investigation of Passive Films on Ferritic Stainless Steels. Journal of the Electrochemical Society, 1987, 134, 2410-2416.	2.9	57

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91	Amorphous semiconductorâ€electrolyte junctions. Photoelectrochemical behaviour of thin Nb₂O₅ anodic films. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1987, 91, 437-441.	0.9	18
92	Amorphous semiconductor-electrolyte junction. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1987, 228, 119-134.	0.1	34
93	A phenomenological approach to the mechanical breakdown of anodic oxide films on zirconium. Corrosion Science, 1986, 26, 213-221.	6.6	22
94	A photoelectrochemical characterization of passive films on stainless steels. Corrosion Science, 1986, 26, 935-948.	6.6	72
95	Amorphous Semiconductorâ€Electrolyte Junction. A New Interpretation of the Impedance Data of Amorphous Semiconducting Films on Metals. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1986, 90, 549-555.	0.9	44
96	Influence of thermal treatment on the photoelectrochemical behaviour of WO3 photoanodes electrochemically grown. Solar Energy Materials and Solar Cells, 1985, 11, 419-433.	0.4	42
97	Photoelectrochemical study of the corrosion product layers on copper in weakly acidic solutions. Electrochimica Acta, 1985, 30, 315-324.	5.2	67
98	Breakdown Phenomena During the Growth of Anodic Oxide Films on Zirconium Metal: Influence of Experimental Parameters on Electrical and Mechanical Breakdown. Journal of the Electrochemical Society, 1984, 131, 2901-2906.	2.9	43
99	Space Charge Effects on the Growth of Anodic Oxide Films on Zirconium Metal. Journal of the Electrochemical Society, 1983, 130, 1014-1021.	2.9	32
100	Photoelectrochemical study of the amorphous-WO3-semiconductorâ€“electrolyte junction. Journal of the Chemical Society Faraday Transactions I, 1982, 78, 3433.	1.0	47
101	Semiconducting properties of anodic WO3 amorphous films. Electrochimica Acta, 1981, 26, 1177-1184.	5.2	99
102	Kinetics of coloration of anodic electrochromic films of WO3Â·H2O. Journal of Applied Electrochemistry, 1980, 10, 669-675.	2.9	18
103	Anodic oxide films on tungstenâ€”I. The influence of anodizing parameters on charging curves and film composition. Corrosion Science, 1980, 20, 1067-1078.	6.6	64
104	Anodic oxide films on tungstenâ€”II. The morphology and dissolution of the films. Corrosion Science, 1980, 20, 1079-1085.	6.6	27
105	Nanostructured Anode Material for Li-Ion Batteries. Advances in Science and Technology, 0, , .	0.2	1
106	CuZnSnSe Nanotubes and Nanowires by Template Electrosynthesis. Advances in Science and Technology, 0, , .	0.2	9
107	Co-Deposition and Characterization of Hydroxyapatite-Chitosan and Hydroxyapatite-Polyvinylacetate Coatings on 304 SS for Biomedical Devices. Key Engineering Materials, 0, 813, 153-158.	0.4	5