

Carmelo Sunseri

List of Publications by Year in descending order

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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	Photocurrent Spectroscopic Investigations of Passive Films on Chromium. Journal of the Electrochemical Society, 1990, 137, 2411-2417.	2.9	170
2	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
3	Semiconducting properties of anodic WO ₃ amorphous films. Electrochimica Acta, 1981, 26, 1177-1184.	5.2	99
4	A photoelectrochemical characterization of passive films on stainless steels. Corrosion Science, 1986, 26, 935-948.	6.6	72
5	Photoelectrochemical study of the corrosion product layers on copper in weakly acidic solutions. Electrochimica Acta, 1985, 30, 315-324.	5.2	67
6	Anodic oxide films on tungsten. The influence of anodizing parameters on charging curves and film composition. Corrosion Science, 1980, 20, 1067-1078.	6.6	64
7	Amorphous semiconductor-electrolyte junction. Impedance study on the a-Nb ₂ O ₅ electrolyte junction. Electrochimica Acta, 1990, 35, 99-107.	5.2	59
8	A Photocurrent Spectroscopic Investigation of Passive Films on Ferritic Stainless Steels. Journal of the Electrochemical Society, 1987, 134, 2410-2416.	2.9	57
9	In situ characterization of passive films on al-ti alloy by photocurrent and impedance spectroscopy. Corrosion Science, 1998, 40, 1087-1108.	6.6	55
10	Microporous alumina membranes electrochemically grown. Electrochimica Acta, 2003, 48, 3175-3183.	5.2	55
11	Photo-electrochemical and impedance investigation of passive layers grown anodically on titanium alloys. Electrochimica Acta, 2004, 49, 4563-4576.	5.2	54
12	Novel procedure for the template synthesis of metal nanostructures. Electrochemistry Communications, 2008, 10, 506-509.	4.7	54
13	Electrochemical Deposition of CZTS Thin Films on Flexible Substrate. Energy Procedia, 2014, 44, 105-110.	1.8	52
14	Metallic lead recovery from lead-acid battery paste by urea acetate dissolution and cementation on iron. Hydrometallurgy, 2009, 96, 123-131.	4.3	51
15	Synthetic Diamond Electrodes: Photoelectrochemical Investigation of Undoped and Boron-Doped Polycrystalline Thin Films. Journal of the Electrochemical Society, 1995, 142, 2704-2709.	2.9	48
16	Template electrosynthesis of CeO ₂ nanotubes. Nanotechnology, 2007, 18, 485605.	2.6	48
17	Photoelectrochemical study of the amorphous-WO ₃ -semiconductor-electrolyte junction. Journal of the Chemical Society Faraday Transactions I, 1982, 78, 3433.	1.0	47
18	Influence of electrodeposition techniques on Ni nanostructures. Electrochimica Acta, 2008, 53, 5766-5773.	5.2	46

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19	A nanostructured sensor of hydrogen peroxide. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 44-54.	7.8	46
20	Amorphous Semiconductor-Electrolyte Junction. A New Interpretation of the Impedance Data of Amorphous Semiconducting Films on Metals. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1986, 90, 549-555.	0.9	44
21	SnCo nanowire array as negative electrode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 1469-1473.	7.8	44
22	Nanostructured Ni-Co alloy electrodes for both hydrogen and oxygen evolution reaction in alkaline electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 10082-10092.	7.1	44
23	Breakdown Phenomena During the Growth of Anodic Oxide Films on Zirconium Metal: Influence of Experimental Parameters on Electrical and Mechanical Breakdown. <i>Journal of the Electrochemical Society</i> , 1984, 131, 2901-2906.	2.9	43
24	The photoelectrochemistry of thin passive layers. Investigation of anodic oxide films on titanium metal. <i>Electrochimica Acta</i> , 1993, 38, 29-35.	5.2	43
25	High-performing Sn-Co nanowire electrodes as anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2012, 211, 103-107.	7.8	43
26	Influence of thermal treatment on the photoelectrochemical behaviour of WO ₃ photoanodes electrochemically grown. <i>Solar Energy Materials and Solar Cells</i> , 1985, 11, 419-433.	0.4	42
27	Asymmetric alumina membranes electrochemically formed in oxalic acid solution. <i>Journal of Applied Electrochemistry</i> , 2002, 32, 977-985.	2.9	41
28	Influence of the electrical parameters on the fabrication of copper nanowires into anodic alumina templates. <i>Applied Surface Science</i> , 2009, 255, 8816-8823.	6.1	40
29	Photoelectrochemical characterization of thin anodic oxide films on zirconium metal. <i>Electrochimica Acta</i> , 1996, 41, 2511-2521.	5.2	39
30	Nanostructured electrodes for hydrogen production in alkaline electrolyzer. <i>Renewable Energy</i> , 2018, 123, 117-124.	8.9	38
31	Synthesis of self-standing Pd nanowires via galvanic displacement deposition. <i>Electrochemistry Communications</i> , 2009, 11, 1385-1388.	4.7	37
32	Electrical and mechanical breakdown of anodic films on tungsten in aqueous electrolytes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 248, 99-115.	0.1	36
33	Amorphous semiconductor-electrolyte junction. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987, 228, 119-134.	0.1	34
34	A semiempirical correlation between the optical band gap of hydroxides and the electronegativity of their constituents. <i>Russian Journal of Electrochemistry</i> , 2000, 36, 1203-1208.	0.9	34
35	Fabrication of metal nano-structures using anodic alumina membranes grown in phosphoric acid solution: Tailoring template morphology. <i>Applied Surface Science</i> , 2007, 253, 5447-5456.	6.1	34
36	Template electrosynthesis of aligned Cu ₂ O nanowires. <i>Electrochimica Acta</i> , 2008, 53, 6504-6512.	5.2	34

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37	High-performance of PbO ₂ nanowire electrodes for lead-acid battery. <i>Journal of Power Sources</i> , 2014, 256, 72-79.	7.8	34
38	A photocurrent spectroscopic investigation of passive films on chromium. <i>Corrosion Science</i> , 1990, 31, 721-726.	6.6	33
39	Growth and Characterization of Ordered PbO ₂ Nanowire Arrays. <i>Journal of the Electrochemical Society</i> , 2008, 155, K205.	2.9	33
40	Effect of temperature on the growth of PbO ₂ nanostructures. <i>Electrochimica Acta</i> , 2010, 55, 8556-8562.	5.2	33
41	Amorphous silicon nanotubes via galvanic displacement deposition. <i>Electrochemistry Communications</i> , 2013, 34, 134-137.	4.7	33
42	Template Electrochemical Growth and Properties of Mo Oxide Nanostructures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22299-22308.	3.1	33
43	Space Charge Effects on the Growth of Anodic Oxide Films on Zirconium Metal. <i>Journal of the Electrochemical Society</i> , 1983, 130, 1014-1021.	2.9	32
44	Nanoporous alumina membranes filled with solid acid for thin film fuel cells at intermediate temperatures. <i>Electrochemistry Communications</i> , 2004, 6, 923-928.	4.7	32
45	Fabrication and Photoelectrochemical Behavior of Ordered CIGS Nanowire Arrays for Application in Solar Cells. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, K22.	2.2	32
46	The Influence of the Electronic Properties of Passive Films on the Corrosion Resistance of Mo-Ta Alloys A Photoelectrochemical Study. <i>Journal of the Electrochemical Society</i> , 2000, 147, 1366.	2.9	31
47	Laser surface treatments for adhesion improvement of aluminium alloys structural joints. <i>Radiation Physics and Chemistry</i> , 2007, 76, 1441-1446.	2.8	31
48	Template electrodeposition and characterization of nanostructured Pb as a negative electrode for lead-acid battery. <i>Journal of Power Sources</i> , 2019, 413, 107-116.	7.8	31
49	Amorphous semiconductor/electrolyte junction. Energetics at the a-WO ₃ /electrolyte junction. <i>Electrochimica Acta</i> , 1991, 36, 1817-1822.	5.2	30
50	Photoelectrochemical Characterization of Cu ₂ O-Nanowire Arrays Electrodeposited into Anodic Alumina Membranes. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, K63.	2.2	30
51	Fabrication and characterization of nanostructured Ni-IrO ₂ electrodes for water electrolysis. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16797-16805.	7.1	30
52	Recent improvements in PbO ₂ nanowire electrodes for lead-acid battery. <i>Journal of Power Sources</i> , 2015, 275, 181-188.	7.8	30
53	Photoelectrochemical investigation of passive layers formed on Fe in different electrolytic solutions. <i>Corrosion Science</i> , 2004, 46, 831-851.	6.6	29
54	Photoelectrochemical Study on Anodic Aluminum Oxide Films: Internal Photoemission Processes at the Metal/Oxide Interface. <i>Journal of the Electrochemical Society</i> , 1991, 138, 1856-1861.	2.9	28

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55	Recent advances in photocurrent spectroscopy of passive films. <i>Electrochimica Acta</i> , 2003, 48, 1105-1114.	5.2	28
56	Optimized bath for electroless deposition of palladium on amorphous alumina membranes. <i>Surface and Coatings Technology</i> , 2006, 200, 5800-5806.	4.8	28
57	Galvanic deposition and characterization of brushite/hydroxyapatite coatings on 316L stainless steel. <i>Materials Science and Engineering C</i> , 2016, 64, 93-101.	7.3	28
58	Anodic oxide films on tungsten(IV). The morphology and dissolution of the films. <i>Corrosion Science</i> , 1980, 20, 1079-1085.	6.6	27
59	Lead Nanowires for Microaccumulators Obtained Through Indirect Electrochemical Template Deposition. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, K1.	2.2	26
60	Growth and photoelectrochemical behaviour of electrodeposited ZnO thin films for solar cells. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 199-208.	2.9	24
61	A new route to grow oxide nanostructures based on metal displacement deposition. Lanthanides oxy/hydroxides growth. <i>Electrochimica Acta</i> , 2012, 76, 77-87.	5.2	23
62	A phenomenological approach to the mechanical breakdown of anodic oxide films on zirconium. <i>Corrosion Science</i> , 1986, 26, 213-221.	6.6	22
63	Influence of initial treatments of aluminium on the morphological features of electrochemically formed alumina membranes. <i>Materials Science and Engineering C</i> , 2003, 23, 1021-1026.	7.3	22
64	The influence of the nature of the surface oxide on the adhesive fracture energy of aluminium-bonded joints as measured by T-peel tests. <i>International Journal of Adhesion and Adhesives</i> , 2008, 28, 211-221.	2.9	22
65	Effect of the Initial Treatment on the Structure of Thin Anodic Films on Aluminum. <i>Journal of the Electrochemical Society</i> , 1999, 146, 493-501.	2.9	20
66	Nanostructured Ni Based Anode and Cathode for Alkaline Water Electrolyzers. <i>Energies</i> , 2019, 12, 3669.	3.1	20
67	Cathodic Photoemission Processes at the Al-Electrolyte Interface in the Initial Stages of Passive Film Formation. <i>Journal of the Electrochemical Society</i> , 1993, 140, 3146-3152.	2.9	19
68	An electrochemical route towards the fabrication of nanostructured semiconductor solar cells. , 2010, , .		19
69	Kinetics of coloration of anodic electrochromic films of WO ₃ ·H ₂ O. <i>Journal of Applied Electrochemistry</i> , 1980, 10, 669-675.	2.9	18
70	Amorphous semiconductor-electrolyte junctions. Photoelectrochemical behaviour of thin Nb ₂ O ₅ anodic films. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1987, 91, 437-441.	0.9	18
71	A photocurrent spectroscopic study of the initial stages of anodic oxide film formation on niobium. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 293, 69-84.	0.1	18
72	The effect of thickness on the composition of passive films on a Ti-50Zr at% alloy. <i>Electrochimica Acta</i> , 2006, 51, 3506-3515.	5.2	18

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73	A photoelectrochemical study on anodic tantalum oxide films. <i>Corrosion Science</i> , 1993, 35, 801-808.	6.6	17
74	Chitosan-Coating Deposition via Galvanic Coupling. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1715-1724.	5.2	17
75	Ni alloy nanowires as high efficiency electrode materials for alkaline electrolysers. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35777-35789.	7.1	17
76	Electrical breakdown and pitting in anodic films on tungsten in halogen ion-containing solutions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 248, 117-129.	0.1	16
77	Photo-electrochemical investigation of anodic oxide films on cast Ti-Mo alloys. I. Anodic behaviour and effect of alloy composition. <i>Electrochimica Acta</i> , 2009, 54, 1395-1402.	5.2	16
78	Amorphous semiconductor-electrolyte junction. Interference effects on the photocharacteristics of the a-Nb ₂ O ₅ -electrolyte junction. <i>Electrochimica Acta</i> , 1989, 34, 321-327.	5.2	14
79	Ruthenium Oxide Nanotubes Via Template Electrosynthesis. <i>Current Nanoscience</i> , 2011, 7, 210-218.	1.2	14
80	A Route to Grow Oxide Nanostructures Based on Metal Displacement Deposition: Lanthanides Oxy/Hydroxides Characterization. <i>Journal of the Electrochemical Society</i> , 2012, 159, D493-D500.	2.9	13
81	Investigation of amorphous oxide film-electrolyte junctions by AC techniques. <i>AICHE Journal</i> , 1992, 38, 219-226.	3.6	12
82	Porosity of anodic alumina membranes from electrochemical measurements. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 416-421.	2.5	12
83	Characterization of Sn-Co Nanowires Grown into Alumina Template. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, K17.	2.2	12
84	Influence of nanoporous structure on mechanical strength of aluminium and aluminium alloy adhesive structural joints. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S2007-S2018.	1.8	11
85	Electrochemical deposition of Ag ₂ Se nanostructures. <i>Materials Research Bulletin</i> , 2017, 86, 10-18.	5.2	11
86	Amorphous semiconductor/electrolyte junction. Interference effects during the growth of anodic Nb ₂ O ₅ films under absorbed light. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 3309.	1.0	10
87	Investigation of the kinetics of growth of anodic oxide films on niobium by galvanostatic and tensiodynamic experiments. <i>Corrosion Science</i> , 1990, 31, 267-273.	6.6	10
88	Developing a procedure to optimize electroless deposition of thin palladium layer on anodic alumina membranes. <i>Desalination</i> , 2006, 199, 352-354.	8.2	10
89	CuZnSnSe Nanotubes and Nanowires by Template Electrosynthesis. <i>Advances in Science and Technology</i> , 0, , .	0.2	9
90	In Vitro Corrosion and Biocompatibility of Brushite/Hydroxyapatite Coatings Obtained by Galvanic Deposition on 316LSS. <i>Journal of the Electrochemical Society</i> , 2018, 165, G1-G10.	2.9	9

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91	Electro-Synthesis of Sn-Co Nanowires in Alumina Membranes. Journal of Nanoscience and Nanotechnology, 2010, 10, 8328-8335.	0.9	8
92	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
93	Formation of lead by reduction of electrodeposited PbO ₂ : comparison between bulk films and nanowires fabrication. Journal of Solid State Electrochemistry, 2012, 16, 3939-3946.	2.5	7
94	CuInSe ₂ /Zn(S,O,OH) junction on Mo foil by electrochemical and chemical route for photovoltaic applications. , 2014, , .		7
95	Anodic Alumina Membranes: From Electrochemical Growth to Use as Template for Fabrication of Nanostructured Electrodes. Applied Sciences (Switzerland), 2022, 12, 869.	2.5	7
96	Photoelectrochemical study of electrochemically formed semiconducting yttrium hydride (YH ₃ ^x). Electrochimica Acta, 1999, 44, 4051-4059.	5.2	6
97	Preparation of Pd-Coated Anodic Alumina Membranes for Gas Separation Media. Journal of the Electrochemical Society, 2007, 154, D188.	2.9	6
98	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
99	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
100	Impedance spectroscopy characterization of functionalized alumina membranes. Solid State Ionics, 2005, 176, 2887-2891.	2.7	3
101	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
102	Toward Tin-Based High-Capacity Anode for Lithium-Ion Battery. ECS Transactions, 2014, 48, 153-162.	0.5	2
103	Comments on the paper by J.F. Julião et al. on "anodic niobium pentoxide films: Growth and thickness determination by in situ optoelectrochemical measurements" Electrochimica Acta, 1992, 37, 1105-1106.	5.2	1
104	Nanostructured Anode Material for Li-Ion Batteries. Advances in Science and Technology, 0, , .	0.2	1
105	Nanostructured Material Fabrication for Energy Conversion. ECS Transactions, 2011, 32, 55-63.	0.5	1
106	Synthesis of Silver Gallium Selenide (AgGaSe ₂) Nanotubes and Nanowires by Template-Based Electrodeposition. Journal of Nanoscience and Nanotechnology, 2020, 20, 999-1007.	0.9	1
107	Amorphous silicon nanotubes. Series in Materials Science and Engineering, 2017, , 565-590.	0.1	0