Giovanni Zangari

List of Publications by Year
in descending order

87 papers	2,372 citations	236925 25 h-index	254184 43 g-index
88 all docs	88 docs citations	88 times ranked	3355 citing authors

#	Article	IF	Citations
1	Estimating electrodeposition properties and processes: Cu-Ag alloy at n-Si(001) and Ru substrates from acidic sulfate bath. Electrochimica Acta, 2022, 403, 139695.	5.2	8
2	Depolarization of Cu electrodeposition in the presence of Ag: A cyclic-voltammetry study. Electrochimica Acta, 2022, 405, 139796.	5.2	10
3	Photovoltaic performance of Cu2ZnSnS4 thin film solar cells on flexible molybdenum foil formed by electrodeposition and sulfurization. Journal of Materials Science: Materials in Electronics, 2022, 33, 3101.	2.2	0
4	The evolution of composition and morphology during the initial growth of electrodeposited Ni-Fe films: Comparison between the potentiostatic mode and the pulse-reverse potential mode. Electrochimica Acta, 2022, 409, 139978.	5.2	1
5	Morphology and seebeck coefficients of electrodeposited Bi2Se3 films grown onto Au(111)/Si substrates. Electrochimica Acta, 2021, 368, 137554.	5.2	12
6	Photoelectrochemical oxidation performance via a protective, catalytic self-limiting Ni-Co alloys by electrodeposition. Electrochimica Acta, 2021, 382, 138305.	5.2	5
7	TiO2 Nanotubes Architectures for Solar Energy Conversion. Coatings, 2021, 11, 931.	2.6	15
8	Electrodeposition of Cu-Ag Alloy Films at n-Si(001) and Polycrystalline Ru Substrates. Coatings, 2021, 11, 1563.	2.6	8
9	Influence of Oxygen Dopants on the HER Catalytic Activity of Electrodeposited MoO_{<i>x</i>}S_{<i>y</i>} Electrocatalysts. ACS Applied Energy Materials, 2021, 4, 13676-13683.	5.1	4
10	Photoelectrochemistry of Selfâ€Limiting Electrodeposition of Ni Film onto GaAs. Small, 2020, 16, e2003112.	10.0	6
11	Electrodeposition of White Bronzes on the Way to CZTS Absorber Films. Journal of the Electrochemical Society, 2020, 167, 022513.	2.9	5
12	Capillary transfer of soft films. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5210-5216.	7.1	27
13	Electrodeposition of Feâ€“Ni alloy on Au(111) substrate: Metastable BCC growth via hydrogen evolution and interactions. Electrochimica Acta, 2020, 338, 135876.	5.2	12
14	Rational Compositional Control of Electrodeposited Agâ€“Fe films. Inorganic Chemistry, 2020, 59, 5405-5417.	4.0	2
15	Electrodeposition of Ag-Pd Alloy at Ru Substrate from Simple Acidic Nitrate Bath. Journal of the Electrochemical Society, 2020, 167, 062506.	2.9	4
16	Improving photo-oxidation activity of water by introducing Ti3+ in self-ordered TiO2 nanotube arrays treated with Ar/NH3. Journal of Power Sources, 2019, 414, 242-249.	7.8	47
17	Phase Separation in Electrodeposited Ag-Pd Alloy Films from Acidic Nitrate Bath. Journal of the Electrochemical Society, 2019, 166, D339-D349.	2.9	7
18	(Photo) electrochemical water oxidation at anodic TiO2 nanotubes modified by electrodeposited NiFe oxy-hydroxides catalysts. Electrochimica Acta, 2019, 308, 91-98.	5.2	20

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19	Electrodeposition of Fe-Ni-Pt alloy films for heat-assisted magnetic recording media: Synthesis, structure and magnetic properties. Electrochimica Acta, 2019, 302, 92-101.	5.2	6
20	High Selectivity Towards Formate Production by Electrochemical Reduction of Carbon Dioxide at Copperâ€“Bismuth Dendrites. ChemSusChem, 2019, 12, 231-239.	6.8	51
21	Synthesis of TiO2-based nanocomposites by anodizing and hydrogen annealing for efficient photoelectrochemical water oxidation. Journal of Power Sources, 2019, 410-411, 59-68.	7.8	16
22	Growth, morphology and crystal structure of electrodeposited Bi2Se3 films: Influence of the substrate. Electrochimica Acta, 2019, 299, 654-662.	5.2	21
23	Guided Heterogeneous Nucleation of Sodium Chloride at Self-Assembled Monolayer-Modified Nanoporous Gold Films. Langmuir, 2018, 34, 2420-2424.	3.5	0
24	Water splitting vs. sulfite oxidation: An assessment of photoelectrochemical performance of TiO2 nanotubes modified by CdS/CdSe nanoparticles. Electrochimica Acta, 2018, 259, 1095-1103.	5.2	21
25	Templated Electrochemical Synthesis of Feâ€“Pt Nanopatterns for High-Density Memory Applications. ACS Applied Nano Materials, 2018, 1, 2317-2323.	5.0	3
26	Investigations on the Electrochemical Atomic Layer Growth of Bi2Se3 and the Surface Limited Deposition of Bismuth at the Silver Electrode. Materials, 2018, 11, 1426.	2.9	3
27	Electrical Conductivity in Electrodeposited Cu-Ge(O) Alloy Films. Journal of the Electrochemical Society, 2018, 165, D628-D634.	2.9	0
28	Synthesis and Material Properties of Bi₂Se₃ Nanostructures Deposited by SILAR. Journal of Physical Chemistry C, 2018, 122, 12052-12060.	3.1	32
29	Fabrication of Electrodeposited FeCuPt Nanodot Arrays Toward $L1_{0}$ Ordering. IEEE Transactions on Magnetics, 2018, 54, 1-7.	2.1	5
30	Electroplating for Decorative Applications: Recent Trends in Research and Development. Coatings, 2018, 8, 260.	2.6	80
31	Tuning Electrodeposition Conditions towards the Formation of Smooth Bi₂Se₃Thin Films. Journal of the Electrochemical Society, 2017, 164, D401-D405.	2.9	19
32	Laser-Induced Surface Modification at Anatase TiO₂ Nanotube Array Photoanodes for Photoelectrochemical Water Oxidation. Journal of Physical Chemistry C, 2017, 121, 17121-17128.	3.1	34
33	Performance and Reliability of Electrowetting-on-Dielectric (EWOD) Systems Based on Tantalum Oxide. ACS Applied Materials & Interfaces, 2017, 9, 42278-42286.	8.0	23
34	The Induced Electrochemical Codeposition of Cu-Ge Alloy Films. Journal of the Electrochemical Society, 2017, 164, D354-D361.	2.9	8
35	Electrochemical Reduction of Carbon Dioxide to Syngas and Formate at Dendritic Copperâ€“Indium Electrocatalysts. ACS Catalysis, 2017, 7, 5381-5390.	11.2	166
36	Effect of cell configuration on the compositional homogeneity of electrodeposited Cu-Zn-Sn alloys and phase purity of the resulting Cu2ZnSnS4 absorber layers. Electrochimica Acta, 2017, 255, 347-357.	5.2	10

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37	Failure Modes during Low-Voltage Electrowetting. ACS Applied Materials & Interfaces, 2016, 8, 15767-15777.	8.0	18
38	Towards phase pure kesterite CZTS films via Cu-Zn-Sn electrodeposition followed by sulfurization. Electrochimica Acta, 2016, 219, 664-672.	5.2	24
39	Efficient water oxidation kinetics and enhanced electron transport in Li-doped TiO₂ nanotube photoanodes. Journal of Materials Chemistry A, 2016, 4, 19070-19077.	10.3	25
40	Electrodeposition and <i>ab Initio</i> Studies of Metastable Orthorhombic Bi₂Se₃: A Novel Semiconductor with Bandgap for Photovoltaic Applications. Journal of Physical Chemistry C, 2016, 120, 11797-11806.	3.1	32
41	Underpotential Codeposition of Au-Ni Alloys: The Influence of Applied Potential on Phase Separation and Microstructure. Journal of the Electrochemical Society, 2016, 163, D3020-D3026.	2.9	4
42	Selection of Phase Formation in Electroplated Ag-Cu Alloys. Journal of the Electrochemical Society, 2016, 163, D40-D48.	2.9	11
43	Electrodeposition of Alloys and Compounds in the Era of Microelectronics and Energy Conversion Technology. Coatings, 2015, 5, 195-218.	2.6	79
44	Structure, Magnetic Properties, and Phase Transformations in Electrodeposited Fe-Rich Feâ€“Pt Films. IEEE Transactions on Magnetics, 2015, 51, 1-9.	2.1	0
45	Trap-state passivation of titania nanotubes by electrochemical doping for enhanced photoelectrochemical performance. Journal of Materials Chemistry A, 2015, 3, 360-367.	10.3	44
46	Formation of p-type CuInS₂ absorber layers via sulfurization of co-electrodeposited Cuâ€“In precursors. RSC Advances, 2015, 5, 81642-81649.	3.6	5
47	Electrodeposition of Cu-In Alloys as Precursors of Chalcopyrite Absorber Layers. Journal of the Electrochemical Society, 2014, 161, D613-D619.	2.9	6
48	Nanoscale Structuring in Auâ€“Ni Films Grown by Electrochemical Underpotential Coâ€deposition. ChemElectroChem, 2014, 1, 787-792.	3.4	13
49	Titania Nanotubes by Electrochemical Anodization for Solar Energy Conversion. Journal of the Electrochemical Society, 2014, 161, D3066-D3077.	2.9	31
50	Water content in the anodization electrolyte affects the electrochemical and electronic transport properties of TiO2 nanotubes: a study by electrochemical impedance spectroscopy. Electrochimica Acta, 2014, 121, 203-209.	5.2	26
51	Modification of TiO2 nanotubes by Cu2O for photoelectrochemical, photocatalytic, and photovoltaic devices. Electrochimica Acta, 2014, 128, 341-348.	5.2	50
52	Visible Light Sensitization of TiO₂ Nanotubes by Bacteriochlorophyll-C Dyes for Photoelectrochemical Solar Cells. ACS Sustainable Chemistry and Engineering, 2014, 2, 2097-2101.	6.7	28
53	Underpotential Co-deposition of Auâ€“Cu Alloys: Switching the Underpotentially Deposited Element by Selective Complexation. Langmuir, 2014, 30, 2566-2570.	3.5	19
54	Metal-insulator transition in nanocomposite VO_x films formed by anodic electrodeposition. Applied Physics Letters, 2013, 103, 202102.	3.3	4

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55	The influence of morphology of electrodeposited Cu2O and Fe2O3 on the conversion efficiency of TiO2 nanotube photoelectrochemical solar cells. Electrochimica Acta, 2013, 100, 220-225.	5.2	29
56	Photocurrent Conversion in Anodized TiO2 Nanotube Arrays: Effect of the Water Content in Anodizing Solutions. Journal of Physical Chemistry C, 2013, 117, 6979-6989.	3.1	72
57	Three-phase contact force equilibrium of liquid drops at hydrophilic and superhydrophobic surfaces. Journal of Colloid and Interface Science, 2013, 404, 179-182.	9.4	8
58	Electrodeposition of Agâ€“Ni films from thiourea complexing solutions. Electrochimica Acta, 2012, 82, 82-89.	5.2	19
59	Tailoring the Wetting Properties of Surface-Modified Nanostructured Gold Films. Journal of Physical Chemistry C, 2011, 115, 17097-17101.	3.1	9
60	Structure and Microstructure of Electrodeposited Metals and Alloys. , 2011, , 317-333.		2
61	Electrodeposition of Alloys. , 2011, , 205-232.		2
62	Feâ€“Pt magnetic multilayers by electrochemical deposition. Electrochimica Acta, 2011, 56, 10567-10574.	5.2	13
63	Theory and Practice of Metal Electrodeposition. , 2011, , .		236
64	Underpotential Codeposition of Feâ€“Pt Alloys from an Alkaline Complexing Electrolyte: Electrochemical Studies. Journal of the Electrochemical Society, 2011, 158, D149.	2.9	22
65	Photoelectrochemical Stability of Electrodeposited Cu₂O Films. Journal of Physical Chemistry C, 2010, 114, 11551-11556.	3.1	185
66	Phase transformation and magnetic hardening in electrodeposited, equiatomic Feâ€“Pt films. Electrochimica Acta, 2010, 55, 8100-8104.	5.2	11
67	Electrodeposition of Feâˆ’Pt Films with Low Oxide Content Using an Alkaline Complexing Electrolyte. ACS Applied Materials & Interfaces, 2010, 2, 961-964.	8.0	17
68	Dendritic Growth and Morphology Selection in Copper Electrodeposition from Acidic Sulfate Solutions Containing Chlorides. Journal of Physical Chemistry C, 2009, 113, 10097-10102.	3.1	60
69	Copper electrodeposition onto the dendrimer-modified native oxide of silicon substrates. Electrochimica Acta, 2008, 53, 2644-2649.	5.2	19
70	Electrochemical Synthesis of Vanadium Oxide Nanofibers. Journal of the Electrochemical Society, 2008, 155, E14.	2.9	29
71	Molecular junctions of âˆ¼1 nm device length on self-assembled monolayer modified n- vs. p-GaAs. Journal of Materials Chemistry, 2008, 18, 5459.	6.7	22
72	Compressive Stress Accumulation in Composite Nanoporous Gold and Silicone Bilayer Membranes: Underlying Mechanisms and Remedies. Materials Research Society Symposia Proceedings, 2007, 1052, 1.	0.1	0

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73	The effects of post-fabrication annealing on the mechanical properties of freestanding nanoporous gold structures. Acta Materialia, 2007, 55, 4593-4602.	7.9	94
74	Electrodeposition of platinum nanoparticles on highly oriented pyrolitic graphite. Electrochimica Acta, 2006, 51, 2531-2538.	5.2	50
75	Microstructural evolution of nickel nanoparticle catalysts supported on gadolinium-doped ceria during autothermal reforming of iso-octane. Journal of Electronic Materials, 2006, 35, 814-821.	2.2	5
76	Thermo-Mechanical and Size-Dependent Behavior of Freestanding AuAg and Nanoporous-Au Beams. Materials Research Society Symposia Proceedings, 2006, 976, 1.	0.1	0
77	Magnetic properties of Co-rich Coâ€"Pt thin films electrodeposited on a Ru underlayer. Journal of Applied Physics, 2006, 99, 08E901.	2.5	9
78	Electrodeposition and characterization of sacrificial copper-manganese alloy coatings: Part II. Structural, mechanical, and corrosion-resistance properties. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 2705-2715.	2.2	17
79	Electrodeposition of Platinum on Highly Oriented Pyrolytic Graphite. Part I:Â Electrochemical Characterization. Journal of Physical Chemistry B, 2005, 109, 7998-8007.	2.6	73
80	Increased Metallic Character of Electrodeposited Mn Coatings Using Metal Ion Additives. Electrochemical and Solid-State Letters, 2004, 7, C91.	2.2	26
81	Electrodeposition and Characterization of Sacrificial Copper-Manganese Alloy Coatings. Journal of the Electrochemical Society, 2004, 151, C297.	2.9	19
82	Electrodeposition of Smâ€"Co nanoparticles from aqueous solutions. Journal of Magnetism and Magnetic Materials, 2004, 283, 89-94.	2.3	33
83	Electrodeposition of sacrificial tinâ€"manganese alloy coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 344, 268-278.	5.6	48
84	Coâ€"Pt micromagnets by electrodeposition. Journal of Applied Physics, 2002, 91, 7320.	2.5	18
85	Electrodeposition and Characterization of Manganese Coatings. Journal of the Electrochemical Society, 2002, 149, C209.	2.9	102
86	Corrosion behavior of Coâ€"Sm based magnetic media. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 1203-1206.	2.1	2
87	Magnetic Nanoparticle Arrays with Ultra-Uniform Length Electrodeposited in Highly Ordered Alumina Nanopores(â€œAlumiteâ€). Materials Research Society Symposia Proceedings, 2000, 636, 9331.	0.1	5