

Branimir N Grgur

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123
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h-index

69
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131
ext. papers

5,324
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
123	Temperature-Dependent Hydrogen Electrochemistry on Platinum Low-Index Single-Crystal Surfaces in Acid Solutions. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 5405-5413	3.4	682
122	Methanol electrooxidation on supported Pt and PtRu catalysts in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2002 , 47, 3707-3714	6.7	379
121	Oxygen reduction reaction on Pt(111): effects of bromide. <i>Journal of Electroanalytical Chemistry</i> , 1999 , 467, 157-163	4.1	369
120	Effect of Temperature on Surface Processes at the Pt(111)–Liquid Interface: Hydrogen Adsorption, Oxide Formation, and CO Oxidation. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 8568-8577	3.4	276
119	Electrooxidation of CO and H ₂ /CO Mixtures on Pt(111) in Acid Solutions. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 487-495	3.4	253
118	On the kinetics of the hydrogen evolution reaction on nickel in alkaline solution: Part I. The mechanism. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 512, 16-26	4.1	177
117	Investigation of Enhanced CO Tolerance in Proton Exchange Membrane Fuel Cells by Carbon Supported PtMo Alloy Catalyst. <i>Electrochemical and Solid-State Letters</i> , 1999 , 2, 12		159
116	Temperature-dependent oxygen electrochemistry on platinum low-index single crystal surfaces in acid solutions. <i>Canadian Journal of Chemistry</i> , 1997 , 75, 1465-1471	0.9	152
115	Electrooxidation of H ₂ , CO, and H ₂ /CO Mixtures on a Well-Characterized Pt ₇₀ Mo ₃₀ Bulk Alloy Electrode. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 2494-2501	3.4	149
114	The Electro-oxidation of H ₂ and H ₂ /CO Mixtures on Carbon-Supported Pt _x Mo _y Alloy Catalysts. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 1613-1619	3.9	139
113	Electrooxidation of H ₂ /CO Mixtures on a Well-Characterized Pt ₇₅ Mo ₂₅ Alloy Surface. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 3910-3913	3.4	127
112	Surface electrochemistry of CO on Pt(110)-(1 × 1) and Pt(110)-(1 × 1) surfaces. <i>Surface Science</i> , 1997 , 384, L805-L814	1.8	116
111	Improvement of epoxy resin properties by incorporation of TiO ₂ nanoparticles surface modified with gallic acid esters. <i>Materials & Design</i> , 2014 , 62, 158-167		86
110	Formic Acid Oxidation on Pure and Bi-Modified Pt(111): Temperature Effects. <i>Langmuir</i> , 2000 , 16, 8159-8166	4.1	85
109	Surface Electrochemistry of CO and H ₂ /CO Mixtures at Pt(100) Interface: Electrode Kinetics and Interfacial Structures. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 9616-9623	3.4	84
108	Corrosion protection of mild steel by polypyrrole coatings in acid sulfate solutions. <i>Electrochimica Acta</i> , 1997 , 42, 1685-1691	6.7	74
107	Electrooxidation of H ₂ , CO and H ₂ /CO mixtures on a well-characterized PtBe bulk alloy electrode and comparison with other Pt binary alloys. <i>Electrochimica Acta</i> , 1998 , 43, 3631-3635	6.7	73

106	Corrosion studies on electrochemically deposited PANI and PANI/epoxy coatings on mild steel in acid sulfate solution. <i>Progress in Organic Coatings</i> , 2005 , 52, 359-365	4.8	72
105	The influence of polypyrrole films on the corrosion behavior of iron in acid sulfate solutions. <i>Progress in Organic Coatings</i> , 1998 , 33, 1-6	4.8	71
104	Electrochemical synthesis and corrosion behavior of thin polyaniline-benzoate film on mild steel. <i>Synthetic Metals</i> , 2004 , 143, 191-195	3.6	65
103	The determination of kinetics parameters of the hydrogen evolution on Ti/Ni alloys by ac impedance. <i>Electrochimica Acta</i> , 1997 , 42, 323-330	6.7	48
102	Corrosion behavior and thermal stability of electrodeposited PANI/epoxy coating system on mild steel in sodium chloride solution. <i>Progress in Organic Coatings</i> , 2006 , 56, 214-219	4.8	48
101	Corrosion of mild steel with composite polyaniline coatings using different formulations. <i>Progress in Organic Coatings</i> , 2015 , 79, 17-24	4.8	46
100	Bi adsorption on Pt(111) in perchloric acid solution: A rotating ring-disk electrode and XPS study. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 4379-4386	3.6	43
99	Kinetics of the mild steel corrosion protection by polypyrrole-oxalate coating in sulfuric acid solution. <i>Progress in Organic Coatings</i> , 2006 , 56, 240-247	4.8	42
98	Oxygen Reduction Reaction on Pt and Pt-Bimetallic Electrodes Covered by CO. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A277	3.9	42
97	Adsorption of oxygen containing species and their effect on oxygen reduction on Pt ₃ Co electrode. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 548, 69-78	4.1	41
96	Oscillatory behavior in the electrochemical oxidation of formic acid on Pt(100): rotation and temperature effects. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 500, 36-43	4.1	41
95	Polypyrrole as possible electrode materials for the aqueous-based rechargeable zinc batteries. <i>Electrochimica Acta</i> , 2008 , 53, 4627-4632	6.7	39
94	The influence of thin benzoate-doped polyaniline coatings on corrosion protection of mild steel in different environments. <i>Progress in Organic Coatings</i> , 2013 , 76, 670-676	4.8	37
93	Structural effects during CO adsorption on Pt-bimetallic surfaces: I. The Pt(100) electrode. <i>Surface Science</i> , 2000 , 448, 65-76	1.8	36
92	On the kinetics of the hydrogen evolution reaction on nickel in alkaline solution: Part II. Effect of temperature. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 512, 27-35	4.1	34
91	Electrochemical synthesis of electroconducting polymers. <i>Hemijaska Industrija</i> , 2014 , 68, 673-684	0.6	34
90	Characterization of electrochemically synthesized PANI on graphite electrode for potential use in electrochemical power sources. <i>Materials Chemistry and Physics</i> , 2009 , 114, 939-942	4.4	32
89	Catalysis of hydrogen evolution on different Pd/Au(111) nanostructures in alkaline solution. <i>Electrochimica Acta</i> , 2013 , 88, 589-596	6.7	31

88	Decolorization of textile dye CI Basic Yellow 28 with electrochemically generated active chlorine. <i>Chemical Engineering Journal</i> , 2012 , 204-206, 151-157	14.7	29
87	Study of gold-platinum and platinum-gold surface modification and its influence on hydrogen evolution and oxygen reduction. <i>Journal of the Serbian Chemical Society</i> , 2005 , 70, 231-242	0.9	28
86	Electrochemical determination of glucose using polyaniline electrode modified by glucose oxidase. <i>Food Chemistry</i> , 2011 , 124, 396-400	8.5	25
85	Underpotential Deposition of Lead on Pt(111) in Perchloric Acid Solution: RRD Pt(111)E Measurements. <i>Langmuir</i> , 1997 , 13, 6370-6374	4	22
84	UPD of Cu on Pt(100): effects of anions on adsorption isotherms and interface structures. <i>Electrochimica Acta</i> , 1998 , 44, 1009-1017	6.7	22
83	Polyaniline as possible anode materials for the lead acid batteries. <i>Journal of Power Sources</i> , 2008 , 180, 635-640	8.9	22
82	Electrodeposition and characterization of FeMo alloys as cathodes for hydrogen evolution in the process of chlorate production. <i>Journal of the Serbian Chemical Society</i> , 2005 , 70, 879-889	0.9	22
81	The influence of the polyaniline initial oxidation states on the corrosion of steel with composite coatings. <i>Progress in Organic Coatings</i> , 2018 , 119, 138-144	4.8	21
80	Improvement of the epoxy coating properties by incorporation of polyaniline surface treated TiO ₂ nanoparticles previously modified with vitamin B6. <i>Progress in Organic Coatings</i> , 2016 , 99, 346-355	4.8	21
79	Catalysis of Hydrogen Evolution on Au(111) Modified by Spontaneously Deposited Pd Nanoislands. <i>Electrocatalysis</i> , 2012 , 3, 369-375	2.7	21
78	Improvement of chemical control in the water-steam cycle of thermal power plants. <i>Applied Thermal Engineering</i> , 2011 , 31, 119-128	5.8	21
77	Electrochemical oxidation of iodide in aqueous solution. <i>Chemical Engineering Journal</i> , 2006 , 124, 47-54	14.7	21
76	Novel electrolyte for zinc polyaniline batteries. <i>Journal of Power Sources</i> , 2006 , 160, 1447-1450	8.9	21
75	Surface-modified TiO ₂ powders with phenol derivatives: A comparative DFT and experimental study. <i>Chemical Physics Letters</i> , 2017 , 686, 167-172	2.5	20
74	Electrochemical synthesis and characterization of polyaniline thin film and polyaniline powder. <i>Progress in Organic Coatings</i> , 2011 , 71, 32-35	4.8	20
73	A kinetics study of the methomyl electrochemical degradation in the chloride containing solutions. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 429-438	21.8	19
72	Hydridic and electrocatalytic properties of hypo-hyper-d-electronic combinations of transition metal intermetallic phases*1. <i>International Journal of Hydrogen Energy</i> , 1998 , 23, 667-681	6.7	19
71	Battery type hybrid supercapacitor based on polypyrrole and lead-lead sulfate. <i>Journal of Power Sources</i> , 2016 , 313, 240-246	8.9	18

70	Electrochemical characteristics of rechargeable polyaniline/lead dioxide cell. <i>Journal of Power Sources</i> , 2012 , 217, 193-198	8.9	18
69	Electrochemical synthesis and corrosion behavior of polyaniline-benzoate coating on copper. <i>Synthetic Metals</i> , 2011 , 161, 1313-1318	3.6	18
68	Comparative studies of chloride and chloride/citrate based electrolytes for zinc/polyaniline batteries. <i>Electrochimica Acta</i> , 2006 , 51, 6268-6274	6.7	18
67	Electrochemical oxidation of carbon monoxide: From platinum single crystals to low temperature fuel cells catalysts. Part I: Carbon monoxide oxidation onto low index platinum single crystals. <i>Journal of the Serbian Chemical Society</i> , 2001 , 66, 785-797	0.9	18
66	On the role of aniline oligomers on the corrosion protection of mild steel. <i>Synthetic Metals</i> , 2014 , 187, 57-60	3.6	16
65	Catalysis of oxygen reduction on Au modified by Pd nanoislands in perchloric acid solution. <i>Electrochimica Acta</i> , 2012 , 64, 140-146	6.7	16
64	Hydrogen evolution on Au(111) catalyzed by rhodium nanoislands. <i>Electrochemistry Communications</i> , 2013 , 28, 37-39	5.1	16
63	Electrochemical polymerization and initial corrosion properties of polyaniline-benzoate film on aluminum. <i>Progress in Organic Coatings</i> , 2009 , 65, 401-404	4.8	15
62	Physical and mathematical models of an inert macroelectrode modified with active hemispherical microelectrodes. <i>Electrochimica Acta</i> , 2007 , 52, 4696-4707	6.7	15
61	Underpotential deposition of lead onto Pt(100) in acid solutions: Adsorption isotherms and interface structures. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 3373-3379		14
60	Electrochemical studies on LaNi ₄ .15Co _{0.43} Mn _{0.40} Fe _{0.02} metal hydride alloy. <i>Journal of Alloys and Compounds</i> , 2000 , 298, 107-113	5.7	14
59	Surface Chemistry of CO on Pt(100) Bimetallic Surfaces: Displacement Effects. <i>Langmuir</i> , 2000 , 16, 1998-2005		13
58	Immobilization of α -amylase via adsorption on magnetic particles coated with polyaniline. <i>Starch/Staerke</i> , 2016 , 68, 427-435	2.3	13
57	Oxidative degradation of Acid Blue 111 by electro-assisted Fenton process. <i>Journal of Water Process Engineering</i> , 2020 , 36, 101394	6.7	12
56	Corrosion behavior of magnesium, aluminum and zinc as anodic materials in chloride based electrolytes for use in primary and secondary electrochemical power sources. <i>Materials & Design</i> , 2009 , 30, 3291-3294		12
55	Electrodeposition of silver from nitrate solution: Part II. Mechanism of the effect of phosphate ions. <i>Journal of Applied Electrochemistry</i> , 1998 , 28, 797-801	2.6	10
54	Electrochemical oxidation of carbon monoxide: From platinum single crystals to low temperature fuel cells catalysts - Part II: Electrooxidation of H ₂ , CO and H ₂ /CO mixtures on well characterized PtMo. <i>Journal of the Serbian Chemical Society</i> , 2003 , 68, 191-205	0.9	10
53	The kinetics of the hydrogen evolution reaction on zinc in EDTA solutions in the pH 3-10 range. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 549, 37-47	4.1	10

52	Polyaniline/Lead sulfate based cell with supercapattery behavior. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, 575-582	4.3	9
51	Electrochemical Oxidation of Bromides on DSA/RuO ₂ Anode in the Semi-Industrial Batch Reactor for On-Site Water Disinfection. <i>Journal of the Electrochemical Society</i> , 2019 , 166, E50-E61	3.9	9
50	Metal polypyrrole battery with the air regenerated positive electrode. <i>Journal of Power Sources</i> , 2014 , 272, 1053-1060	8.9	8
49	Photo-assisted electrochemical oxidation of the urea onto TiO ₂ -nanotubes modified by hematite. <i>Journal of Saudi Chemical Society</i> , 2017 , 21, 990-997	4.3	8
48	Electrochemical characterization of polyaniline electrode in ammonium citrate containing electrolyte. <i>Materials Chemistry and Physics</i> , 2011 , 125, 601-605	4.4	8
47	Photoelectrochemical behavior of TiO ₂ -NTF modified with SILAR deposited iron oxide. <i>Electrochimica Acta</i> , 2016 , 203, 136-143	6.7	8
46	Direct and Indirect Electrochemical Degradation of Acid Blue 111 Using IrO _x Anode. <i>International Journal of Electrochemical Science</i> , 2017 , 8564-8577	2.2	7
45	Kinetic properties of the Ti-Ni intermetallic phases and alloys for hydrogen evolution. <i>Journal of Alloys and Compounds</i> , 1997 , 257, 245-252	5.7	7
44	On the azo dyes derived from benzoic and cinnamic acids used as photosensitizers in dye-sensitized solar cells. <i>Turkish Journal of Chemistry</i> , 2019 , 43, 1183-1203	1	6
43	A kinetic study of D-glucose oxidation by bromine in aqueous solutions. <i>Carbohydrate Research</i> , 2006 , 341, 1779-87	2.9	6
42	Oxygen reduction on SILAR deposited iron oxide onto graphite felt electrode. <i>Electrochimica Acta</i> , 2016 , 212, 254-259	6.7	5
41	The influence of m-aminobenzoic acid on electrochemical synthesis and behavior of poly(aniline-co-(m-aminobenzoic acid)). <i>Journal of Polymer Research</i> , 2017 , 24, 1	2.7	5
40	Corrosion of an austenite and ferrite stainless steel weld. <i>Journal of the Serbian Chemical Society</i> , 2011 , 76, 1027-1035	0.9	4
39	Enhancement of the electrochemical reduction of oxygen at platinum by nickel underpotential deposition. <i>Journal of Solid State Electrochemistry</i> , 2006 , 11, 77-83	2.6	4
38	Electrocatalysis of fuel cells reaction on Pt and Pt-bimetallic anode catalysts: A selective review. <i>Hemjska Industrija</i> , 2002 , 56, 273-286	0.6	4
37	Kinetics of the zinc anodic dissolution reaction in near neutral EDTA solutions. <i>Journal of the Serbian Chemical Society</i> , 2003 , 68, 207-218	0.9	4
36	Electrochemical Polymerization of Aniline		4
35	Influence of microwave irradiation on hypochlorite decolorisation of synthetic dyes. <i>Materials Protection</i> , 2016 , 57, 63-70	0.4	4

34	A novel method of preparing the silver chloride cathode for the magnesium seawater activated primary cell. <i>Journal of Power Sources</i> , 2021 , 490, 229549	8.9	4
33	Electrochemical testing of noble metal dental alloys: The influence of their chemical composition on the corrosion resistance. <i>Corrosion Science</i> , 2021 , 184, 109412	6.8	4
32	Seawater zinc/polypyrrole-air cell possessing multifunctional charge-discharge characteristics. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 2769-2777	2.6	3
31	Corrosion of Mild Steel with Composite Alkyd Polyaniline- benzoate Coating. <i>International Journal of Electrochemical Science</i> , 2017 , 8683-8694	2.2	3
30	The improved photooxidation stability of the SILAR deposited copper sulfide on polypyrrole. <i>Synthetic Metals</i> , 2015 , 203, 37-43	3.6	3
29	Corroded scale analysis from water distribution pipes. <i>Hemijska Industrija</i> , 2011 , 65, 507-515	0.6	3
28	Electrochemical synthesis and characterization of poly(o-toluidine) as high energy storage material. <i>Electrochimica Acta</i> , 2019 , 317, 746-752	6.7	2
27	The initial characteristics of the polypyrrole based aqueous rechargeable batteries with supercapattery characteristics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019 , 243, 175-182	3.1	2
26	Biofuel cell based on horseradish peroxidase immobilized on copper sulfide as anode for decolorization of anthraquinone AV109 dye. <i>Journal of Energy Chemistry</i> , 2016 , 25, 403-408	12	2
25	Solid phase extraction membranes with submicron multifunctional adsorbent particles. <i>European Polymer Journal</i> , 2015 , 63, 90-100	5.2	2
24	Citrate-based zinc/polyaniline secondary cell: part I: optimization of the citrate/chloride electrolyte. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 2521-2528	2.6	2
23	The validity of the general polarization curve equation approximation for the process of metal deposition. <i>Journal of the Serbian Chemical Society</i> , 2008 , 73, 227-231	0.9	2
22	Comparative Potentiodynamic Study of Nickel and Hydrogen Underpotential Deposition at Polycrystalline Platinum Electrode in Weak Acid and Neutral Solutions. <i>Materials Science Forum</i> , 2005 , 494, 241-246	0.4	2
21	On the Mechanism of CO-Tolerance of Pt-Mo Alloy Electrocatalysts. <i>ECS Proceedings Volumes</i> , 1998 , 1998-27, 176-186		2
20	Corrosion of the stainless steel 316Ti in 10% hydrochloric and sulfuric acid. <i>Materials Protection</i> , 2020 , 61, 339-345	0.4	2
19	Zinc Polypyrrole-air Sea Water Battery. <i>International Journal of Electrochemical Science</i> , 10270-10277	2.2	2
18	Electrochemical decolorization of the reactive orange 16 dye using dimensionally stable Ti/PtOx anode. <i>Journal of the Serbian Chemical Society</i> , 2015 , 80, 903-915	0.9	2
17	Novel negatively-charged membrane adsorbers made using combination of photopolymerization and immersion precipitation. <i>Journal of the Serbian Chemical Society</i> , 2016 , 81, 419-431	0.9	2

16	Electrochemical decolorization of C.I. Acid Orange 3 in the presence of sodium chloride at iridium oxide electrode. <i>Chemical Papers</i> , 2017 , 71, 2173-2184	1.9	1
15	Characteristics of the citrate-based zinc-polyaniline secondary cell with supercapattery behavior. <i>Journal of the Serbian Chemical Society</i> , 2019 , 84, 1261-1270	0.9	1
14	The influence of chloride anions on the pitting corrosion of aluminum alloy en 46000. <i>Materials Protection</i> , 2018 , 59, 243-248	0.4	1
13	Polyaniline based corrosion inhibitors for conventional organic coatings. <i>Materials Protection</i> , 2018 , 59, 282-292	0.4	1
12	Influence of chloride ion concentration on initial corrosion of AZ63 magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2022 , 32, 1133-1143	3.3	0
11	Optimization of electrochemical decolorization of certain arylazo pyridone dyes. <i>Journal of the Serbian Chemical Society</i> , 2014 , 79, 1523-1536	0.9	
10	Apparent Enthalpies of Activation for Oxygen Reduction at Pt3Co Electrode in Alkaline Solution. <i>Materials Science Forum</i> , 2004 , 453-454, 109-114	0.4	
9	Hydrogen Evolution Reaction from EDTA Solutions. <i>Materials Science Forum</i> , 2002 , 413, 185-190	0.4	
8	Automatic feeder for domestic and wild animals on pastures. <i>Poljoprivredna Tehnika</i> , 2020 , 45, 8-15	0.3	
7	Investigation of direct electrochemical oxidation of neonicotinoid pesticide thiamethoxam in water. <i>Scientific Technical Review</i> , 2020 , 70, 11-16	0.2	
6	Corrosion of stainless steel 316Ti tank for the transport 120% of hypochlorite solution. <i>Engineering Failure Analysis</i> , 2020 , 116, 104768	3.2	
5	Corrosion behavior of duplex polyaniline/epoxy coating on mild steel in 3% NaCl. <i>Hemijska Industrija</i> , 2005 , 59, 317-320	0.6	
4	Polyaniline stabilization of magnetic particles and immobilization of α -amylase. <i>Hemijska Industrija</i> , 2018 , 72, 1-12	0.6	
3	Polypyrrole zinc supercapattery with the aqueous electrolyte. <i>Hemijska Industrija</i> , 2017 , 71, 479-485	0.6	
2	Influence of current and temperature on discharge characteristics of electrochemical nickel-cadmium system. <i>Hemijska Industrija</i> , 2010 , 64, 319-335	0.6	
1	Electrochemical synthesis and corrosion behavior of thin polyaniline film on mild steel, copper and aluminum. <i>Hemijska Industrija</i> , 2011 , 65, 15-21	0.6	