

Branimir N Grgur

List of Publications by Year in descending order

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129
papers

5,997
citations

109137

35
h-index

74018

75
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131
all docs

131
docs citations

131
times ranked

5315
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.2	780
2	Oxygen reduction reaction on Pt(111): effects of bromide. <i>Journal of Electroanalytical Chemistry</i> , 1999, 467, 157-163.	1.9	419
3	Methanol electrooxidation on supported Pt and PtRu catalysts in acid and alkaline solutions. <i>Electrochimica Acta</i> , 2002, 47, 3707-3714.	2.6	414
4	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.	1.2	315
5	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.	1.2	273
6	On the kinetics of the hydrogen evolution reaction on nickel in alkaline solution. <i>Journal of Electroanalytical Chemistry</i> , 2001, 512, 16-26.	1.9	219
7	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.	2.2	183
8	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.	1.2	170
9	Temperature-dependent oxygen electrochemistry on platinum low-index single crystal surfaces in acid solutions. <i>Canadian Journal of Chemistry</i> , 1997, 75, 1465-1471.	0.6	168
10	The Electrooxidation of H ₂ and H ₂ /CO Mixtures on Carbon-Supported Pt _x Mo _y Alloy Catalyst. <i>Journal of the Electrochemical Society</i> , 1999, 146, 1613-1619.	1.3	154
11	On the kinetics of the hydrogen evolution reaction on nickel in alkaline solution. <i>Journal of Electroanalytical Chemistry</i> , 2001, 512, 27-35.	1.9	152
12	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.	1.2	140
13	Surface electrochemistry of CO on Pt(110)-(1 × 2) and Pt(110)-(1 × 1) surfaces. <i>Surface Science</i> , 1997, 384, L805-L814.	0.8	124
14	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.	5.1	109
15	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.	1.2	94
16	Formic Acid Oxidation on Pure and Bi-Modified Pt(111): Temperature Effects. <i>Langmuir</i> , 2000, 16, 8159-8166.	1.6	91
17	Corrosion protection of mild steel by polypyrrole coatings in acid sulfate solutions. <i>Electrochimica Acta</i> , 1997, 42, 1685-1691.	2.6	90
18	Electrooxidation of H ₂ , CO and H ₂ /CO mixtures on a well-characterized Pt-Re bulk alloy electrode and comparison with other Pt binary alloys. <i>Electrochimica Acta</i> , 1998, 43, 3631-3635.	2.6	86

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19	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.	1.9	84
20	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.	1.9	77
21	Electrochemical synthesis and corrosion behavior of thin polyaniline-benzoate film on mild steel. <i>Synthetic Metals</i> , 2004, 143, 191-195.	2.1	71
22	The determination of kinetics parameters of the hydrogen evolution on Ti–Ni alloys by ac impedance. <i>Electrochimica Acta</i> , 1997, 42, 323-330.	2.6	68
23	Corrosion of mild steel with composite polyaniline coatings using different formulations. <i>Progress in Organic Coatings</i> , 2015, 79, 17-24.	1.9	64
24	Electrochemical synthesis of electroconducting polymers. <i>Hemjska Industrija</i> , 2014, 68, 673-684.	0.3	60
25	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.	1.9	55
26	Polypyrrole as possible electrode materials for the aqueous-based rechargeable zinc batteries. <i>Electrochimica Acta</i> , 2008, 53, 4627-4632.	2.6	50
27	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.	1.9	48
28	Oxygen Reduction Reaction on Pt and Pt-Bimetallic Electrodes Covered by CO. <i>Journal of the Electrochemical Society</i> , 2005, 152, A277.	1.3	46
29	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.	1.9	46
30	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.	1.3	45
31	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.	1.9	44
32	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.	2.0	44
33	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.	1.9	41
34	Decolorization of textile dye CI Basic Yellow 28 with electrochemically generated active chlorine. <i>Chemical Engineering Journal</i> , 2012, 204-206, 151-157.	6.6	41
35	Structural effects during CO adsorption on bimetallic surfaces. <i>Surface Science</i> , 2000, 448, 65-76.	0.8	38
36	Catalysis of hydrogen evolution on different Pd/Au(111) nanostructures in alkaline solution. <i>Electrochimica Acta</i> , 2013, 88, 589-596.	2.6	36

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37	Electrochemical determination of glucose using polyaniline electrode modified by glucose oxidase. Food Chemistry, 2011, 124, 396-400.	4.2	34
38	Electrochemical oxidation of iodide in aqueous solution. Chemical Engineering Journal, 2006, 124, 47-54.	6.6	32
39	Underpotential Deposition of Lead on Pt(111) in Perchloric Acid Solution: Δ RRDPt(111)E Measurements. Langmuir, 1997, 13, 6370-6374.	1.6	30
40	A kinetics study of the methomyl electrochemical degradation in the chloride containing solutions. Applied Catalysis B: Environmental, 2014, 147, 429-438.	10.8	29
41	Surface-modified TiO ₂ powders with phenol derivatives: A comparative DFT and experimental study. Chemical Physics Letters, 2017, 686, 167-172.	1.2	29
42	Study of gold-platinum and platinum-gold surface modification and its influence on hydrogen evolution and oxygen reduction. Journal of the Serbian Chemical Society, 2005, 70, 231-242.	0.4	29
43	Hydridic and electrocatalytic properties of hypo-hyper-d-electronic combinations of transition metal intermetallic phases*1. International Journal of Hydrogen Energy, 1998, 23, 667-681.	3.8	27
44	Improvement of chemical control in the water-steam cycle of thermal power plants. Applied Thermal Engineering, 2011, 31, 119-128.	3.0	27
45	The influence of the polyaniline initial oxidation states on the corrosion of steel with composite coatings. Progress in Organic Coatings, 2018, 119, 138-144.	1.9	27
46	Polyaniline as possible anode materials for the lead acid batteries. Journal of Power Sources, 2008, 180, 635-640.	4.0	26
47	UPD of Cu on Pt(100): effects of anions on adsorption isotherms and interface structures. Electrochimica Acta, 1998, 44, 1009-1017.	2.6	25
48	Novel electrolyte for zinc-polyaniline batteries. Journal of Power Sources, 2006, 160, 1447-1450.	4.0	25
49	Electrochemical synthesis and characterization of polyaniline thin film and polyaniline powder. Progress in Organic Coatings, 2011, 71, 32-35.	1.9	25
50	Improvement of the epoxy coating properties by incorporation of polyaniline surface treated TiO ₂ nanoparticles previously modified with vitamin B6. Progress in Organic Coatings, 2016, 99, 346-355.	1.9	25
51	Electrodeposition and characterization of Fe-Mo alloys as cathodes for hydrogen evolution in the process of chlorate production. Journal of the Serbian Chemical Society, 2005, 70, 879-889.	0.4	24
52	Electrochemical synthesis and corrosion behavior of polyaniline-benzoate coating on copper. Synthetic Metals, 2011, 161, 1313-1318.	2.1	24
53	Catalysis of Hydrogen Evolution on Au(111) Modified by Spontaneously Deposited Pd Nanoislands. Electrocatalysis, 2012, 3, 369-375.	1.5	24
54	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. Journal of the Serbian Chemical Society, 2001, 66, 785-797.	0.4	24

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55	Comparative studies of chloride and chloride/citrate based electrolytes for zinc-polyaniline batteries. <i>Electrochimica Acta</i> , 2006, 51, 6268-6274.	2.6	22
56	Electrochemical polymerization and initial corrosion properties of polyaniline-benzoate film on aluminum. <i>Progress in Organic Coatings</i> , 2009, 65, 401-404.	1.9	21
57	Battery type hybrid supercapacitor based on polypyrrole and lead-lead sulfate. <i>Journal of Power Sources</i> , 2016, 313, 240-246.	4.0	21
58	Oxidative degradation of Acid Blue 111 by electro-assisted Fenton process. <i>Journal of Water Process Engineering</i> , 2020, 36, 101394.	2.6	21
59	Electrochemical characteristics of rechargeable polyaniline/lead dioxide cell. <i>Journal of Power Sources</i> , 2012, 217, 193-198.	4.0	20
60	Hydrogen evolution on Au(111) catalyzed by rhodium nanoislands. <i>Electrochemistry Communications</i> , 2013, 28, 37-39.	2.3	20
61	On the role of aniline oligomers on the corrosion protection of mild steel. <i>Synthetic Metals</i> , 2014, 187, 57-60.	2.1	20
62	Catalysis of oxygen reduction on Au modified by Pd nanoislands in perchloric acid solution. <i>Electrochimica Acta</i> , 2012, 64, 140-146.	2.6	19
63	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.	1.7	17
64	Physical and mathematical models of an inert macroelectrode modified with active hemispherical microelectrodes. <i>Electrochimica Acta</i> , 2007, 52, 4696-4707.	2.6	17
65	Immobilization of α -amylase via adsorption on magnetic particles coated with polyaniline. <i>Starch/Staerke</i> , 2016, 68, 427-435.	1.1	17
66	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 1998, 28, 797-801.	1.5	15
67	Electrochemical studies on LaNi _{4.15} Co _{0.43} Mn _{0.40} Fe _{0.02} metal hydride alloy. <i>Journal of Alloys and Compounds</i> , 2000, 298, 107-113.	2.8	15
68	Surface Chemistry of CO on Pt(100)-Bimetallic Surfaces: Displacement Effects. <i>Langmuir</i> , 2000, 16, 1998-2005.	1.6	14
69	Polyaniline-lead sulfate based cell with supercapattery behavior. <i>Journal of Saudi Chemical Society</i> , 2017, 21, 575-582.	2.4	14
70	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.	1.3	14
71	Kinetic properties of the Ti-Ni intermetallic phases and alloys for hydrogen evolution. <i>Journal of Alloys and Compounds</i> , 1997, 257, 245-252.	2.8	13
72	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.	2.4	13

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73	The kinetics of the hydrogen evolution reaction on zinc in EDTA solutions in the pH 3â€“10 range. <i>Journal of Electroanalytical Chemistry</i> , 2003, 549, 37-47.	1.9	12
74	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.	5.1	12
75	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.	0.5	12
76	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.	0.4	11
77	Electrochemical characterization of polyaniline electrode in ammonium citrate containing electrolyte. <i>Materials Chemistry and Physics</i> , 2011, 125, 601-605.	2.0	11
78	Metal polypyrrole battery with the air regenerated positive electrode. <i>Journal of Power Sources</i> , 2014, 272, 1053-1060.	4.0	11
79	Direct and Indirect Electrochemical Degradation of Acid Blue 111 Using IrOX Anode. <i>International Journal of Electrochemical Science</i> , 2017, 12, 8564-8577.	0.5	11
80	Electrochemical testing of noble metal dental alloys: The influence of their chemical composition on the corrosion resistance. <i>Corrosion Science</i> , 2021, 184, 109412.	3.0	11
81	Photoelectrochemical behavior of TiO ₂ -NTs modified with SILAR deposited iron oxide. <i>Electrochimica Acta</i> , 2016, 203, 136-143.	2.6	10
82	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.	0.4	9
83	A kinetic study of d-glucose oxidation by bromine in aqueous solutions. <i>Carbohydrate Research</i> , 2006, 341, 1779-1787.	1.1	8
84	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.	4.0	8
85	Electrochemical Polymerization of Aniline. , 0, , .		8
86	Seawater zinc/polypyrrole-air cell possessing multifunctional charge-discharge characteristics. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2769-2777.	1.2	7
87	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.	1.7	7
88	Corrosion of an austenite and ferrite stainless steel weld. <i>Journal of the Serbian Chemical Society</i> , 2011, 76, 1027-1035.	0.4	6
89	The influence of m-aminobenzoic acid on electrochemical synthesis and behavior of		

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91	Electrochemical synthesis and characterization of poly(o-toluidine) as high energy storage material. <i>Electrochimica Acta</i> , 2019, 317, 746-752.	2.6	6
92	Kinetics of the zinc anodic dissolution reaction in near neutral EDTA solutions. <i>Journal of the Serbian Chemical Society</i> , 2003, 68, 207-218.	0.4	6
93	Oxygen reduction on SILAR deposited iron oxide onto graphite felt electrode. <i>Electrochimica Acta</i> , 2016, 212, 254-259.	2.6	5
94	Corroded scale analysis from water distribution pipes. <i>Hemijska Industrija</i> , 2011, 65, 507-515.	0.3	5
95	Polyaniline based corrosion inhibitors for conventional organic coatings. <i>Materials Protection</i> , 2018, 59, 282-292.	0.1	5
96	Enhancement of the electrochemical reduction of oxygen at platinum by nickel underpotential deposition. <i>Journal of Solid State Electrochemistry</i> , 2006, 11, 77-83.	1.2	4
97	Citrate-based zinc/polyaniline secondary cell: part I: optimization of the citrate/chloride electrolyte. <i>Journal of Applied Electrochemistry</i> , 2009, 39, 2521-2528.	1.5	4
98	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.	7.1	4
99	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.	1.7	4
100	Zinc Polypyrrole-air Sea Water Battery. <i>International Journal of Electrochemical Science</i> , 2016, 11, 10270-10277.	0.5	4
101	Electrocatalysis of fuel cells reaction on Pt and Pt-bimetallic anode catalysts: A selective review. <i>Hemijska Industrija</i> , 2002, 56, 273-286.	0.3	4
102	Influence of microwave irradiation on hypochlorite decolorisation of synthetic dyes. <i>Materials Protection</i> , 2016, 57, 63-70.	0.1	4
103	The improved photooxidation stability of the SILAR deposited copper sulfide on polypyrrole. <i>Synthetic Metals</i> , 2015, 203, 37-43.	2.1	3
104	The influence of chloride anions on the pitting corrosion of aluminum alloy en 46000. <i>Materials Protection</i> , 2018, 59, 243-248.	0.1	3
105	Corrosion of stainless steel 316Ti tank for the transport 12-15% of hypochlorite solution. <i>Engineering Failure Analysis</i> , 2020, 116, 104768.	1.8	3
106	On the Mechanism of CO-Tolerance of Pt-Mo Alloy Electrocatalysts. <i>ECS Proceedings Volumes</i> , 1998, 1998-27, 176-186.	0.1	2
107	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.	0.3	2
108	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.	0.4	2

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109	Solid phase extraction membranes with submicron multifunctional adsorbent particles. <i>European Polymer Journal</i> , 2015, 63, 90-100.	2.6	2
110	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.	1.0	2
111	Novel negatively-charged membrane adsorbents made using combination of photopolymerization and immersion precipitation. <i>Journal of the Serbian Chemical Society</i> , 2016, 81, 419-431.	0.4	2
112	Characteristics of the citrate-based zinc-polyaniline secondary cell with supercapattery behavior. <i>Journal of the Serbian Chemical Society</i> , 2019, 84, 1261-1270.	0.4	2
113	Corrosion of the stainless steel 316Ti in 10% hydrochloric and sulfuric acid. <i>Materials Protection</i> , 2020, 61, 339-345.	0.1	2
114	Optimization of electrochemical decolorization of certain arylazo pyridone dyes. <i>Journal of the Serbian Chemical Society</i> , 2014, 79, 1523-1536.	0.4	1
115	On the Question of Energy and Power Potentials of the Electrode Materials in the Rechargeable Cells. <i>International Journal of Electrochemical Science</i> , 2021, 16, 210535.	0.5	1
116	Electrochemical synthesis and corrosion behavior of thin polyaniline film on mild steel, copper and aluminum. <i>Hemijaska Industrija</i> , 2011, 65, 15-21.	0.3	1
117	Investigation of direct electrochemical oxidation of neonicotinoid pesticide thiamethoxam in water. <i>Scientific Technical Review</i> , 2020, 70, 11-16.	0.3	1
118	Hydrogen Evolution Reaction from EDTA Solutions. <i>Materials Science Forum</i> , 2002, 413, 185-190.	0.3	0
119	Apparent Enthalpies of Activation for Oxygen Reduction at Pt₃/Co Electrode in Alkaline Solution. <i>Materials Science Forum</i> , 2004, 453-454, 109-114.	0.3	0
120	Corrosion behavior of duplex polyaniline/epoxy coating on mild steel in 3% NaCl. <i>Hemijaska Industrija</i> , 2005, 59, 317-320.	0.3	0
121	Influence of current and temperature on discharge characteristics of electrochemical nickel-cadmium system. <i>Hemijaska Industrija</i> , 2010, 64, 319-335.	0.3	0
122	Basic principles and applications of photoelectrochemical reactions. <i>Materials Protection</i> , 2016, 57, 93-100.	0.1	0
123	Nanostructured intrinsically conducting polymers formed by electrochemical synthesis. <i>Materials Protection</i> , 2016, 57, 71-79.	0.1	0
124	The influence of light on corrosion of polyaniline coated mild steel. <i>Materials Protection</i> , 2016, 57, 597-599.	0.1	0
125	Polypyrrole zinc supercapattery with the aqueous electrolyte. <i>Hemijaska Industrija</i> , 2017, 71, 479-485.	0.3	0
126	Primena azo boja u izradi fotonaponskih sistema. <i>Procesna Tehnika</i> , 2017, 30, 69.	0.3	0

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127	Polyaniline stabilization of magnetic particles and immobilization of Î±-amylase. Hemijska Industrija, 2018, 72, 1-12.	0.3	0
128	Correction to "Direct and Indirect Electrochemical Degradation of Acid Blue 111 Using IrOx Anode" [Int. J. Electrochem. Sci., 12(2017)8564-8577; doi: 10.20964/2017.09.44]. International Journal of Electrochemical Science, 0, , 12453-12454.	0.5	0
129	Automatic feeder for domestic and wild animals on pastures. Poljoprivredna Tehnika, 2020, 45, 8-15.	0.1	0