Biljana Sljukic

List of Publications by Year
in descending order

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122 papers	3,527 citations	136740 32 h-index	161609 54 g-index
126 all docs	126 docs citations	126 times ranked	4161 citing authors

#	Article	IF	Citations
1	Steps towards highly-efficient water splitting and oxygen reduction using nanostructured î²-Ni(OH)‹sub›2‹/sub›. RSC Advances, 2022, 12, 10020-10028.	1.7	5
2	Boosting electrocatalysis of oxygen reduction and evolution reactions with cost-effective cobalt and nitrogen-doped carbons prepared by simple carbonization of ionic liquids. International Journal of Hydrogen Energy, 2022, 47, 14847-14858.	3.8	7
3	Boosting oxygen electrode kinetics by addition of cost-effective transition metals (Ni, Fe, Cu) to platinum on graphene nanoplatelets. Journal of Alloys and Compounds, 2022, 905, 164156.	2.8	8
4	Sodium-pillared vanadium oxides as next-gen materials: Does co-inserted water control the cyclic stability of vanadates in an aqueous electrolyte?. Electrochimica Acta, 2022, 425, 140603.	2.6	2
5	Benzimidazole Schiff base copper(II) complexes as catalysts for environmental and energy applications: VOC oxidation, oxygen reduction and water splitting reactions. International Journal of Hydrogen Energy, 2022, 47, 23175-23190.	3.8	8
6	Platinumâ€"Dysprosium Alloys as Oxygen Electrodes in Alkaline Media: An Experimental and Theoretical Study. Nanomaterials, 2022, 12, 2318.	1.9	1
7	A Pt/MnV2O6 nanocomposite for the borohydride oxidation reaction. Journal of Energy Chemistry, 2021, 55, 428-436.	7.1	8
8	Direct borohydride fuel cells (DBFCs). , 2021, , 203-232.		5
9	Enhanced borohydride oxidation kinetics at gold-rare earth alloys. Journal of Alloys and Compounds, 2021, 857, 158273.	2.8	9
10	Tailoring metal-oxide-supported PtNi as bifunctional catalysts of superior activity and stability for unitised regenerative fuel cell applications. Electrochemistry Communications, 2021, 124, 106963.	2.3	22
11	Carbon-Supported Trimetallic Catalysts (PdAuNi/C) for Borohydride Oxidation Reaction. Nanomaterials, 2021, 11, 1441.	1.9	8
12	Full-Self-Powered Humidity Sensor Based on Electrochemical Aluminumâ€"Water Reaction. Sensors, 2021, 21, 3486.	2.1	4
13	Ionic Liquid-Derived Carbon-Supported Metal Electrocatalysts as Anodes in Direct Borohydride-Peroxide Fuel Cells. Catalysts, 2021, 11, 632.	1.6	4
14	Impact of Mixing on the Structural Diversity of Serbian Spruce and Macedonian Pine Endemic to Relict Forest Communities in the Balkan Peninsula. Forests, 2021, 12, 1095.	0.9	2
15	Highly efficient and fast batch adsorption of orange G dye from polluted water using superb organo-montmorillonite: Experimental study and molecular dynamics investigation. Journal of Molecular Liquids, 2021, 335, 116560.	2.3	58
16	Tailoring gold-conducting polymer nanocomposites for sensors applications: Proof of concept for As(III) sensing in aqueous media. Synthetic Metals, 2021, 278, 116834.	2.1	8
17	Corrigendum to: â€œBimetallic PdM (M: Fe, Ag, Au) alloy nanoparticles assembled on reduced graphene oxide as catalysts for direct borohydride fuel cellsâ€•[J. Alloy. Compd. 718 (2017) 204â€"214]. Journal of Alloys and Compounds, 2021, 884, 161309.	2.8	0
18	Bimetallic Co-Based (CoM, M = Mo, Fe, Mn) Coatings for High-Efficiency Water Splitting. Materials, 2021, 14, 92.	1.3	19

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19	Advanced Materials for Electrochemical Energy Conversion and Storage Devices. Materials, 2021, 14, 7711.	1.3	6
20	Palladium-nickel on tin oxide-carbon composite supports for electrocatalytic hydrogen evolution. Catalysis Today, 2020, 357, 302-310.	2.2	6
21	Mesoporous graphitic carbon nitride-supported binary MPt (M: Co, Ni, Cu) nanoalloys as electrocatalysts for borohydride oxidation and hydrogen evolution reaction. Catalysis Today, 2020, 357, 291-301.	2.2	26
22	Ruthenium(0) nanoparticles stabilized by metal-organic framework as an efficient electrocatalyst for borohydride oxidation reaction. International Journal of Hydrogen Energy, 2020, 45, 27056-27066.	3.8	5
23	Versatility of Amide-Functionalized Co(II) and Ni(II) Coordination Polymers: From Thermochromic-Triggered Structural Transformations to Supercapacitors and Electrocatalysts for Water Splitting. Inorganic Chemistry, 2020, 59, 16301-16318.	1.9	19
24	Electroanalytical sensing of trace amounts of As(III) in water resources by Goldâ€"Rare Earth alloys. Journal of Electroanalytical Chemistry, 2020, 872, 114232.	1.9	4
25	Carbon-Supported Mo2C for Oxygen Reduction Reaction Electrocatalysis. Nanomaterials, 2020, 10, 1805.	1.9	9
26	Performance of Au/Ti and Au/TiO 2 Nanotube Array Electrodes for Borohydride Oxidation and Oxygen Reduction Reaction in Alkaline Media. Electroanalysis, 2020, 32, 1867-1874.	1.5	4
27	Simple design of PVA-based blend doped with SO4(PO4)-functionalised TiO2 as an effective membrane for direct borohydride fuel cells. International Journal of Hydrogen Energy, 2020, 45, 15226-15238.	3.8	28
28	Mn2O3-MO (MO = ZrO2, V2O5, WO3) supported PtNi nanoparticles: Designing stable and efficient electrocatalysts for oxygen reduction and borohydride oxidation. Microporous and Mesoporous Materials, 2019, 273, 286-293.	2.2	19
29	Evaluation of silver-incorporating zeolites as bifunctional electrocatalysts for direct borohydride fuel cells. New Journal of Chemistry, 2019, 43, 14270-14280.	1.4	7
30	Gold nanorod-polyaniline composites: Synthesis and evaluation as anode electrocatalysts for direct borohydride fuel cells. Electrochimica Acta, 2019, 328, 135115.	2.6	20
31	PdNi alloy nanoparticles assembled on cobalt ferrite-carbon black composite as a fuel cell catalyst. International Journal of Hydrogen Energy, 2019, 44, 14193-14200.	3.8	16
32	Poly(vinyl alcohol)-based crosslinked ternary polymer blend doped with sulfonated graphene oxide as a sustainable composite membrane for direct borohydride fuel cells. Journal of Power Sources, 2019, 432, 92-101.	4.0	54
33	The influence of oxygen vacancy concentration in nanodispersed non-stoichiometric CeO2-Î´ oxides on the physico-chemical properties of conducting polyaniline/CeO2 composites. Electrochimica Acta, 2019, 306, 506-515.	2.6	11
34	Electrochemical investigation of ionic liquid-derived porous carbon materials for supercapacitors: pseudocapacitance versus electrical double layer. Electrochimica Acta, 2019, 298, 541-551.	2.6	32
35	Electrochemistry of hydrogen evolution in ionic liquids aqueous mixtures. Materials Research Bulletin, 2019, 112, 407-412.	2.7	17
36	Performance assessment of a direct borohydride-peroxide fuel cell with Pd-impregnated faujasite X zeolite as anode electrocatalyst. Electrochimica Acta, 2018, 269, 517-525.	2.6	32

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37	Monodisperse Pd nanoparticles assembled on reduced graphene oxide-Fe 3 O 4 nanocomposites asÂelectrocatalysts for borohydride fuel cells. International Journal of Hydrogen Energy, 2018, 43, 10686-10697.	3.8	21
38	Electrocatalytic Activity of Ionicâ€Liquidâ€Derived Porous Carbon Materials for the Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 1037-1046.	1.7	22
39	PtNi supported on binary metal oxides: Potential bifunctional electrocatalysts for low-temperature fuel cells?. Applied Surface Science, 2018, 428, 31-40.	3.1	15
40	Efficient hydrogen evolution electrocatalysis in alkaline medium using Pd-modified zeolite X. Electrochimica Acta, 2018, 259, 882-892.	2.6	27
41	12-phosphotungstic Acid Supported on BEA Zeolite Composite with Carbonized Polyaniline for Electroanalytical Sensing of Phenols in Environmental Samples. Journal of the Electrochemical Society, 2018, 165, H1013-H1020.	1.3	11
42	Reduced Graphene Oxide-Supported Bimetallic M-Platinum (M: Co, Ni, Cu) Alloy Nanoparticles for Hydrogen Evolution Reaction. ECS Transactions, 2018, 86, 701-710.	0.3	3
43	The Impact of Bromide-based Ionic Liquids on Alkaline Water Electrolysis. ECS Transactions, 2018, 86, 711-717.	0.3	1
44	Facile Preparation and High Activity of TiO2 Nanotube Arrays toward Oxygen Reduction in Alkaline Media. Journal of the Electrochemical Society, 2018, 165, J3253-J3258.	1.3	5
45	NiA and NiX zeolites as bifunctional electrocatalysts for water splitting in alkaline media. International Journal of Hydrogen Energy, 2018, 43, 18977-18991.	3.8	15
46	Platinum/polypyrrole-carbon electrocatalysts for direct borohydride-peroxide fuel cells. Applied Catalysis B: Environmental, 2018, 238, 454-464.	10.8	76
47	On the stability in alkaline conditions and electrochemical performance of A₂BO₄-type cathodes for liquid fuel cells. Physical Chemistry Chemical Physics, 2018, 20, 19045-19056.	1.3	11
48	Vine Shoots and Grape Stalks as Carbon Sources for Hydrogen Evolution Reaction Electrocatalyst Supports. Catalysts, 2018, 8, 50.	1.6	8
49	Toward Tailoring of Electrolyte Additives for Efficient Alkaline Water Electrolysis: Salicylate-Based Ionic Liquids. ACS Applied Energy Materials, 2018, 1, 4731-4742.	2.5	8
50	SnO2-C supported PdNi nanoparticles for oxygen reduction and borohydride oxidation. Journal of Electroanalytical Chemistry, 2017, 797, 23-30.	1.9	20
51	Bimetallic PdM (MÂ=ÂFe, Ag, Au) alloy nanoparticles assembled on reduced graphene oxide as catalysts for direct borohydride fuel cells. Journal of Alloys and Compounds, 2017, 718, 204-214.	2.8	66
52	Room Temperature Ionic Liquids as Electrolyte Additives for the HER in Alkaline Media. Journal of the Electrochemical Society, 2017, 164, F427-F432.	1.3	20
53	Organic Electrosynthesis: From Laboratorial Practice to Industrial Applications. Organic Process Research and Development, 2017, 21, 1213-1226.	1.3	172
54	Electroanalytical Sensing of Bromides Using Radiolytically Synthesized Silver Nanoparticle Electrocatalysts. Journal of Analytical Methods in Chemistry, 2017, 2017, 1-9.	0.7	3

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55	Molybdenum Carbide Nanoparticles on Carbon Nanotubes and Carbon Xerogel: Lowâ€Cost Cathodes for Hydrogen Production by Alkaline Water Electrolysis. ChemSusChem, 2016, 9, 1200-1208.	3.6	56
56	Radiolitically synthesized nano Ag/C catalysts for oxygen reduction and borohydride oxidation reactions in alkaline media, for potential applications in fuel cells. Energy, 2016, 101, 79-90.	4.5	50
57	Effect of RTILs on the Hydrogen Evolution Reaction in Alkaline Media. ECS Transactions, 2016, 72, 23-29.	0.3	1
58	PtNi-Decorated Metal Oxide Electrodes for Borohydride Fuel Cells. ECS Transactions, 2016, 72, 57-64.	0.3	0
59	Nickel-Rare Earth (RE = Ce, Sm, Dy) Electrodes for H2O2 Reduction in Fuel Cells. ECS Transactions, 2016, 72, 31-40.	0.3	2
60	Composite zeolite/carbonized polyaniline electrodes for pâ€“nitrophenol sensing. Journal of Electroanalytical Chemistry, 2016, 778, 137-147.	1.9	14
61	Pd/c-PANI electrocatalysts for direct borohydride fuel cells. Electrochimica Acta, 2016, 213, 298-305.	2.6	55
62	On the performance of commercially available corrosion-resistant nickel alloys: a review. Corrosion Reviews, 2016, 34, 187-200.	1.0	27
63	Biobased carbon-supported palladium electrocatalysts for borohydride fuel cells. International Journal of Hydrogen Energy, 2016, 41, 10914-10922.	3.8	26
64	Platinum-rare earth cathodes for direct borohydride-peroxide fuel cells. Journal of Power Sources, 2016, 307, 251-258.	4.0	28
65	Nickelâ€“rare earth electrodes for sodium borohydride electrooxidation. Electrochimica Acta, 2016, 190, 1050-1056.	2.6	45
66	Nanostructured 3D metallic foams for H2O2 electroreduction. International Journal of Hydrogen Energy, 2016, 41, 14370-14376.	3.8	22
67	Glass-like carbon, pyrolytic graphite or nanostructured carbon for electrochemical sensing of bismuth ion?. Processing and Application of Ceramics, 2016, 10, 87-95.	0.4	2
68	Three-dimensional nanostructured Niâ€“Cu foams for borohydride oxidation. Russian Journal of Physical Chemistry A, 2015, 89, 2449-2454.	0.1	23
69	Enhancement of hydrogen evolution in alkaline water electrolysis by using nickel-rare earth alloys. International Journal of Hydrogen Energy, 2015, 40, 4295-4302.	3.8	86
70	Carbon-supported Mo₂C electrocatalysts for hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 15505-15512.	5.2	85
71	THE INFLUENCE OF INTERCALATED IONS ON CYCLIC STABILITY OF V2O5/GRAPHITE COMPOSITE IN AQUEOUS ELECTROLYTIC SOLUTIONS: EXPERIMENTAL AND THEORETICAL APPROACH. Electrochimica Acta, 2015, 176, 130-140.	2.6	25
72	Perovskite cathodes for NaBH 4 /H 2 O 2 direct fuel cells. Electrochimica Acta, 2015, 178, 163-170.	2.6	21

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73	Analysis of the growth characteristics of a 450-year-old silver fir tree. Archives of Biological Sciences, 2015, 67, 155-160.	0.2	2
74	Investigation of Nickel-Rare Earth Electrodes for Sodium Borohydride Electrooxidation. ECS Transactions, 2014, 64, 1095-1102.	0.3	2
75	La₂NiO₄ Ceramic Electrodes for Hydrogen Peroxide Electroreduction. ECS Transactions, 2014, 64, 1049-1057.	0.3	3
76	Nickel and Nickel-Cerium Alloy Anodes for Direct Borohydride Fuel Cells. Journal of the Electrochemical Society, 2014, 161, F594-F599.	1.3	41
77	Electrocatalytic performance of Ptâ€"Dy alloys for direct borohydride fuel cells. Journal of Power Sources, 2014, 272, 335-343.	4.0	71
78	Electrocatalytic Activity of Nickel-Cerium Alloys for Hydrogen Evolution in Alkaline Water Electrolysis. Journal of the Electrochemical Society, 2014, 161, F386-F390.	1.3	44
79	Electrocatalytic Activity of Carbonized Nanostructured Polyanilines for Oxidation Reactions: Sensing of Nitrite Ions and Ascorbic Acid. Electrochimica Acta, 2014, 120, 147-158.	2.6	28
80	Landscape character of Mladenovac: Value preservation by applying connectivity principle. Zbornik Radova - Geografski Fakultet Univerziteta U Beogradu, 2014, , 91-120.	0.1	1
81	Physics of Electrolytic Gas Evolution. Brazilian Journal of Physics, 2013, 43, 199-208.	0.7	66
82	Analytical monitoring of sodium borohydride. Analytical Methods, 2013, 5, 829.	1.3	32
83	Carbon-supported Pt0.75M0.25 (M = Ni or Co) electrocatalysts for borohydride oxidation. Electrochimica Acta, 2013, 107, 577-583.	2.6	60
84	Electrocatalytic approach for the efficiency increase of electrolytic hydrogen production: Proof-of-concept using platinum--dysprosium alloys. Energy, 2013, 50, 486-492.	4.5	54
85	Manganese dioxide electrocatalysts for borohydride fuel cell cathodes?. Journal of Electroanalytical Chemistry, 2013, 694, 77-83.	1.9	25
86	Nickel-Cerium Electrodes for Hydrogen Evolution in Alkaline Water Electrolysis. ECS Transactions, 2013, 58, 113-121.	0.3	6
87	Nanostructured materials for sensing Pb(II) and Cd(II) ions: Manganese oxohydroxide versus carbonized polyanilines?. Journal of the Serbian Chemical Society, 2013, 78, 1717-1727.	0.4	8
88	Nickel-Cerium Alloys for Borohydride Oxidation. ECS Transactions, 2013, 58, 1893-1901.	0.3	1
89	Anion- or Cation-Exchange Membranes for NaBH4/H2O2 Fuel Cells?. Membranes, 2012, 2, 478-492.	1.4	26
90	Adsorption of bismuth ions on graphite chemically modified with gallic acid. Physical Chemistry Chemical Physics, 2012, 14, 10027.	1.3	7

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91	Simultaneous oxidation of aniline and tannic acid with peroxydisulfate: Self-assembly of oxidation products from nanorods to microspheres. Synthetic Metals, 2012, 162, 843-856.	2.1	17
92	Electrochemical behaviour of carbon supported Pt electrocatalysts for H2O2 reduction. International Journal of Hydrogen Energy, 2012, 37, 14143-14151.	3.8	44
93	Exploration of MnO2/carbon composites and their application to simultaneous electroanalytical determination of Pb(II) and Cd(II). Electrochimica Acta, 2012, 74, 158-164.	2.6	34
94	Disposable manganese oxide screen printed electrodes for electroanalytical sensing. Analytical Methods, 2011, 3, 105-109.	1.3	21
95	Hydrogen peroxide sensing at MnO2/carbonized nanostructured polyaniline electrode. Russian Journal of Physical Chemistry A, 2011, 85, 2406-2409.	0.1	11
96	Electrochemistry in Room-Temperature Ionic Liquids: Potential Windows at Mercury Electrodes. Journal of Chemical & Engineering Data, 2009, 54, 2049-2053.	1.0	88
97	Electrochemical Determination of Manganese Solubility in Mercury via Amalgamation and Stripping in the Room Temperature Ionic Liquid nâ€Hexyltriethylammonium Bis(trifluoromethanesulfonyl)imide, [N_{6,2,2,2}][NTf₂]. Electroanalysis, 2008, 20, 2603-2607.	1.5	2
98	Manganese Dioxide Graphite Composite Electrodes: Application to the Electroanalysis of Hydrogen Peroxide, Ascorbic Acid and Nitrite. Analytical Sciences, 2007, 23, 165-170.	0.8	60
99	Lead(IV) oxideâ€"graphite composite electrodes: Application to sensing of ammonia, nitrite and phenols. Analytica Chimica Acta, 2007, 587, 240-246.	2.6	66
100	Copper Oxide â€" Graphite Composite Electrodes: Application to Nitrite Sensing. Electroanalysis, 2007, 19, 79-84.	1.5	63
101	Development of an Electrochemical Sensor Nanoarray for Hydrazine Detection Using a Combinatorial Approach. Electroanalysis, 2007, 19, 1062-1068.	1.5	52
102	Electrochemical Determination of Oxalate at Pyrolytic Graphite Electrodes. Electroanalysis, 2007, 19, 918-922.	1.5	29
103	Manganese Dioxide Graphite Composite Electrodes Formed via a Low Temperature Method: Detection of Hydrogen Peroxide, Ascorbic Acid and Nitrite. Electroanalysis, 2007, 19, 1275-1280.	1.5	46
104	At point of use sono-electrochemical generation of hydrogen peroxide for chemical synthesis: The green oxidation of benzonitrile to benzamide. Ultrasonics Sonochemistry, 2007, 14, 113-116.	3.8	12
105	Electrosynthesis of hydrogen peroxide via the reduction of oxygen assisted by power ultrasound. Ultrasonics Sonochemistry, 2007, 14, 405-412.	3.8	37
106	Combinatorial electrochemistry using metal nanoparticles: From proof-of-concept to practical realisation for bromide detection. Analytica Chimica Acta, 2007, 590, 67-73.	2.6	25
107	Electrochemical detection of arsenic on a gold nanoparticle array. Russian Journal of Physical Chemistry A, 2007, 81, 1443-1447.	0.1	33
108	The thermodynamics of sequestration of toxic copper(ii) metal ion pollutants from aqueous media by l-cysteine methyl ester modified glassy carbon spheres. Journal of Materials Chemistry, 2006, 16, 970.	6.7	29

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109	Electrochemically polymerised composites of multi-walled carbon nanotubes and poly(vinylferrocene) and their use as modified electrodes: Application to glucose sensing. Analyst, The, 2006, 131, 670-677.	1.7	67
110	Iron Oxide Particles Are the Active Sites for Hydrogen Peroxide Sensing at Multiwalled Carbon Nanotube Modified Electrodes. Nano Letters, 2006, 6, 1556-1558.	4.5	373
111	Screen Printed Electrodes and Screen Printed Modified Electrodes Benefit from Insonation. Electroanalysis, 2006, 18, 928-930.	1.5	15
112	Iron(III) Oxide Graphite Composite Electrodes: Application to the Electroanalytical Detection of Hydrazine and Hydrogen Peroxide. Electroanalysis, 2006, 18, 1757-1762.	1.5	83
113	Mathematical Modelling and Simulation of Adsorption Processes at Spherical Microparticles. ChemPhysChem, 2006, 7, 697-703.	1.0	5
114	An overview of the electrochemical reduction of oxygen at carbon-based modified electrodes. Journal of the Iranian Chemical Society, 2005, 2, 1-25.	1.2	173
115	Exploration of Stable Sonoelectrocatalysis for the Electrochemical Reduction of Oxygen. Electroanalysis, 2005, 17, 1025-1034.	1.5	24
116	Body Ni-Doped Glassy Carbon: Physical and Electrochemical Characterization. Materials Science Forum, 2004, 453-454, 103-108.	0.3	1
117	Modification of carbon electrodes for oxygen reduction and hydrogen peroxide formation: The search for stable and efficient sonoelectrocatalysts. Physical Chemistry Chemical Physics, 2004, 6, 992-997.	1.3	50
118	The search for stable and efficient sonoelectrocatalysts for oxygen reduction and hydrogen peroxide formation: azobenzene and derivatives. Physical Chemistry Chemical Physics, 2004, 6, 4034-4041.	1.3	17
119	Novel Ternary Polymer BlendMembranesDopedwith SO4/PO4-TiO2for Low Temperature Fuel Cells. , 0, , .		5
120	High-Performance Metal (Au,Cu)â€“Polypyrrole Nanocomposites for Electrochemical Borohydride Oxidation in Fuel Cell Applications. SSRN Electronic Journal, 0, , .	0.4	0
121	CorrosionÃ¢Â€Â“resistant materials for alkaline water electrolyzers. Corrosion, 0, , .	0.5	0
122	Tuning Electrocatalytic Activity of Gold Silver Nanoparticles on Reduced Graphene Oxide for Oxygen Reduction Reaction. Journal of the Electrochemical Society, 0, , .	1.3	2