Biljana Sljukic

List of Publications by Year
in descending order

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123 papers	3,527 citations	136950 32 h-index	161849 54 g-index
126 all docs	126 docs citations	126 times ranked	4161 citing authors

#	Article	IF	Citations
1	Iron Oxide Particles Are the Active Sites for Hydrogen Peroxide Sensing at Multiwalled Carbon Nanotube Modified Electrodes. Nano Letters, 2006, 6, 1556-1558.	9.1	373
2	An overview of the electrochemical reduction of oxygen at carbon-based modified electrodes. Journal of the Iranian Chemical Society, 2005, 2, 1-25.	2.2	173
3	Organic Electrosynthesis: From Laboratorial Practice to Industrial Applications. Organic Process Research and Development, 2017, 21, 1213-1226.	2.7	172
4	Electrochemistry in Room-Temperature Ionic Liquids: Potential Windows at Mercury Electrodes. Journal of Chemical & Engineering Data, 2009, 54, 2049-2053.	1.9	88
5	Enhancement of hydrogen evolution in alkaline water electrolysis by using nickel-rare earth alloys. International Journal of Hydrogen Energy, 2015, 40, 4295-4302.	7.1	86
6	Carbon-supported Mo₂C electrocatalysts for hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 15505-15512.	10.3	85
7	Iron(III) Oxide Graphite Composite Electrodes: Application to the Electroanalytical Detection of Hydrazine and Hydrogen Peroxide. Electroanalysis, 2006, 18, 1757-1762.	2.9	83
8	Platinum/polypyrrole-carbon electrocatalysts for direct borohydride-peroxide fuel cells. Applied Catalysis B: Environmental, 2018, 238, 454-464.	20.2	76
9	Electrocatalytic performance of Ptâ€“Dy alloys for direct borohydride fuel cells. Journal of Power Sources, 2014, 272, 335-343.	7.8	71
10	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.	3.5	67
11	Lead(IV) oxideâ€“graphite composite electrodes: Application to sensing of ammonia, nitrite and phenols. Analytica Chimica Acta, 2007, 587, 240-246.	5.4	66
12	Physics of Electrolytic Gas Evolution. Brazilian Journal of Physics, 2013, 43, 199-208.	1.4	66
13	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.	5.5	66
14	Copper Oxide â€“ Graphite Composite Electrodes: Application to Nitrite Sensing. Electroanalysis, 2007, 19, 79-84.	2.9	63
15	Manganese Dioxide Graphite Composite Electrodes: Application to the Electroanalysis of Hydrogen Peroxide, Ascorbic Acid and Nitrite. Analytical Sciences, 2007, 23, 165-170.	1.6	60
16	Carbon-supported Pt0.75M0.25 (M = Ni or Co) electrocatalysts for borohydride oxidation. Electrochimica Acta, 2013, 107, 577-583.	5.2	60
17	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.	4.9	58
18	Molybdenum Carbide Nanoparticles on Carbon Nanotubes and Carbon Xerogel: Lowâ€Cost Cathodes for Hydrogen Production by Alkaline Water Electrolysis. ChemSusChem, 2016, 9, 1200-1208.	6.8	56

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19	Pd/c-PANI electrocatalysts for direct borohydride fuel cells. Electrochimica Acta, 2016, 213, 298-305.	5.2	55
20	Electrocatalytic approach for the efficiency increase of electrolytic hydrogen production: Proof-of-concept using platinum--dysprosium alloys. Energy, 2013, 50, 486-492.	8.8	54
21	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.	7.8	54
22	Development of an Electrochemical Sensor Nanoarray for Hydrazine Detection Using a Combinatorial Approach. Electroanalysis, 2007, 19, 1062-1068.	2.9	52
23	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.	2.8	50
24	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.	8.8	50
25	Manganese Dioxide Graphite Composite Electrodes Formed via a Low Temperature Method: Detection of Hydrogen Peroxide, Ascorbic Acid and Nitrite. Electroanalysis, 2007, 19, 1275-1280.	2.9	46
26	Nickelâ€“rare earth electrodes for sodium borohydride electrooxidation. Electrochimica Acta, 2016, 190, 1050-1056.	5.2	45
27	Electrochemical behaviour of carbon supported Pt electrocatalysts for H2O2 reduction. International Journal of Hydrogen Energy, 2012, 37, 14143-14151.	7.1	44
28	Electrocatalytic Activity of Nickel-Cerium Alloys for Hydrogen Evolution in Alkaline Water Electrolysis. Journal of the Electrochemical Society, 2014, 161, F386-F390.	2.9	44
29	Nickel and Nickel-Cerium Alloy Anodes for Direct Borohydride Fuel Cells. Journal of the Electrochemical Society, 2014, 161, F594-F599.	2.9	41
30	Electrosynthesis of hydrogen peroxide via the reduction of oxygen assisted by power ultrasound. Ultrasonics Sonochemistry, 2007, 14, 405-412.	8.2	37
31	Exploration of MnO2/carbon composites and their application to simultaneous electroanalytical determination of Pb(II) and Cd(II). Electrochimica Acta, 2012, 74, 158-164.	5.2	34
32	Electrochemical detection of arsenic on a gold nanoparticle array. Russian Journal of Physical Chemistry A, 2007, 81, 1443-1447.	0.6	33
33	Analytical monitoring of sodium borohydride. Analytical Methods, 2013, 5, 829.	2.7	32
34	Performance assessment of a direct borohydride-peroxide fuel cell with Pd-impregnated faujasite X zeolite as anode electrocatalyst. Electrochimica Acta, 2018, 269, 517-525.	5.2	32
35	Electrochemical investigation of ionic liquid-derived porous carbon materials for supercapacitors: pseudocapacitance versus electrical double layer. Electrochimica Acta, 2019, 298, 541-551.	5.2	32
36	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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37	Electrochemical Determination of Oxalate at Pyrolytic Graphite Electrodes. Electroanalysis, 2007, 19, 918-922.	2.9	29
38	Electrocatalytic Activity of Carbonized Nanostructured Polyanilines for Oxidation Reactions: Sensing of Nitrite Ions and Ascorbic Acid. Electrochimica Acta, 2014, 120, 147-158.	5.2	28
39	Platinum-rare earth cathodes for direct borohydride-peroxide fuel cells. Journal of Power Sources, 2016, 307, 251-258.	7.8	28
40	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.	7.1	28
41	On the performance of commercially available corrosion-resistant nickel alloys: a review. Corrosion Reviews, 2016, 34, 187-200.	2.0	27
42	Efficient hydrogen evolution electrocatalysis in alkaline medium using Pd-modified zeolite X. Electrochimica Acta, 2018, 259, 882-892.	5.2	27
43	Anion- or Cation-Exchange Membranes for NaBH4/H2O2 Fuel Cells?. Membranes, 2012, 2, 478-492.	3.0	26
44	Biobased carbon-supported palladium electrocatalysts for borohydride fuel cells. International Journal of Hydrogen Energy, 2016, 41, 10914-10922.	7.1	26
45	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.	4.4	26
46	Combinatorial electrochemistry using metal nanoparticles: From proof-of-concept to practical realisation for bromide detection. Analytica Chimica Acta, 2007, 590, 67-73.	5.4	25
47	Manganese dioxide electrocatalysts for borohydride fuel cell cathodes?. Journal of Electroanalytical Chemistry, 2013, 694, 77-83.	3.8	25
48	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.	5.2	25
49	Exploration of Stable Sonoelectrocatalysis for the Electrochemical Reduction of Oxygen. Electroanalysis, 2005, 17, 1025-1034.	2.9	24
50	Three-dimensional nanostructured Niâ€“Cu foams for borohydride oxidation. Russian Journal of Physical Chemistry A, 2015, 89, 2449-2454.	0.6	23
51	Nanostructured 3D metallic foams for H2O2 electroreduction. International Journal of Hydrogen Energy, 2016, 41, 14370-14376.	7.1	22
52	Electrocatalytic Activity of Ionicâ€Liquidâ€Derived Porous Carbon Materials for the Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 1037-1046.	3.4	22
53	Tailoring metal-oxide-supported PtNi as bifunctional catalysts of superior activity and stability for unitised regenerative fuel cell applications. Electrochemistry Communications, 2021, 124, 106963.	4.7	22
54	Disposable manganese oxide screen printed electrodes for electroanalytical sensing. Analytical Methods, 2011, 3, 105-109.	2.7	21

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55	Perovskite cathodes for NaBH 4 /H 2 O 2 direct fuel cells. Electrochimica Acta, 2015, 178, 163-170.	5.2	21
56	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.	7.1	21
57	SnO2-C supported PdNi nanoparticles for oxygen reduction and borohydride oxidation. Journal of Electroanalytical Chemistry, 2017, 797, 23-30.	3.8	20
58	Room Temperature Ionic Liquids as Electrolyte Additives for the HER in Alkaline Media. Journal of the Electrochemical Society, 2017, 164, F427-F432.	2.9	20
59	Gold nanorod-polyaniline composites: Synthesis and evaluation as anode electrocatalysts for direct borohydride fuel cells. Electrochimica Acta, 2019, 328, 135115.	5.2	20
60	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.	4.4	19
61	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.	4.0	19
62	Bimetallic Co-Based (CoM, M = Mo, Fe, Mn) Coatings for High-Efficiency Water Splitting. Materials, 2021, 14, 92.	2.9	19
63	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.	2.8	17
64	Simultaneous oxidation of aniline and tannic acid with peroxydisulfate: Self-assembly of oxidation products from nanorods to microspheres. Synthetic Metals, 2012, 162, 843-856.	3.9	17
65	Electrochemistry of hydrogen evolution in ionic liquids aqueous mixtures. Materials Research Bulletin, 2019, 112, 407-412.	5.2	17
66	PdNi alloy nanoparticles assembled on cobalt ferrite-carbon black composite as a fuel cell catalyst. International Journal of Hydrogen Energy, 2019, 44, 14193-14200.	7.1	16
67	Screen Printed Electrodes and Screen Printed Modified Electrodes Benefit from Insonation. Electroanalysis, 2006, 18, 928-930.	2.9	15
68	PtNi supported on binary metal oxides: Potential bifunctional electrocatalysts for low-temperature fuel cells?. Applied Surface Science, 2018, 428, 31-40.	6.1	15
69	NiA and NiX zeolites as bifunctional electrocatalysts for water splitting in alkaline media. International Journal of Hydrogen Energy, 2018, 43, 18977-18991.	7.1	15
70	Composite zeolite/carbonized polyaniline electrodes for pâ€“nitrophenol sensing. Journal of Electroanalytical Chemistry, 2016, 778, 137-147.	3.8	14
71	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.	8.2	12
72	Hydrogen peroxide sensing at MnO2/carbonized nanostructured polyaniline electrode. Russian Journal of Physical Chemistry A, 2011, 85, 2406-2409.	0.6	11

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73	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.	2.9	11
74	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.	2.8	11
75	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.	5.2	11
76	Carbon-Supported Mo2C for Oxygen Reduction Reaction Electrocatalysis. Nanomaterials, 2020, 10, 1805.	4.1	9
77	Enhanced borohydride oxidation kinetics at gold-rare earth alloys. Journal of Alloys and Compounds, 2021, 857, 158273.	5.5	9
78	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.	0.8	8
79	Vine Shoots and Grape Stalks as Carbon Sources for Hydrogen Evolution Reaction Electrocatalyst Supports. Catalysts, 2018, 8, 50.	3.5	8
80	Toward Tailoring of Electrolyte Additives for Efficient Alkaline Water Electrolysis: Salicylate-Based Ionic Liquids. ACS Applied Energy Materials, 2018, 1, 4731-4742.	5.1	8
81	A Pt/MnV2O6 nanocomposite for the borohydride oxidation reaction. Journal of Energy Chemistry, 2021, 55, 428-436.	12.9	8
82	Carbon-Supported Trimetallic Catalysts (PdAuNi/C) for Borohydride Oxidation Reaction. Nanomaterials, 2021, 11, 1441.	4.1	8
83	Tailoring gold-conducting polymer nanocomposites for sensors applications: Proof of concept for As(III) sensing in aqueous media. Synthetic Metals, 2021, 278, 116834.	3.9	8
84	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.	5.5	8
85	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.	7.1	8
86	Adsorption of bismuth ions on graphite chemically modified with gallic acid. Physical Chemistry Chemical Physics, 2012, 14, 10027.	2.8	7
87	Evaluation of silver-incorporating zeolites as bifunctional electrocatalysts for direct borohydride fuel cells. New Journal of Chemistry, 2019, 43, 14270-14280.	2.8	7
88	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.	7.1	7
89	Nickel-Cerium Electrodes for Hydrogen Evolution in Alkaline Water Electrolysis. ECS Transactions, 2013, 58, 113-121.	0.5	6
90	Palladium-nickel on tin oxide-carbon composite supports for electrocatalytic hydrogen evolution. Catalysis Today, 2020, 357, 302-310.	4.4	6

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91	Advanced Materials for Electrochemical Energy Conversion and Storage Devices. Materials, 2021, 14, 7711.	2.9	6
92	Mathematical Modelling and Simulation of Adsorption Processes at Spherical Microparticles. ChemPhysChem, 2006, 7, 697-703.	2.1	5
93	Facile Preparation and High Activity of TiO2 Nanotube Arrays toward Oxygen Reduction in Alkaline Media. Journal of the Electrochemical Society, 2018, 165, J3253-J3258.	2.9	5
94	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.	7.1	5
95	Direct borohydride fuel cells (DBFCs). , 2021, , 203-232.		5
96	Novel Ternary Polymer BlendMembranesDopedwith SO4/PO4-TiO2for Low Temperature Fuel Cells. , 0, , .		5
97	Steps towards highly-efficient water splitting and oxygen reduction using nanostructured Î²-Ni(OH)₂. RSC Advances, 2022, 12, 10020-10028.	3.6	5
98	Electroanalytical sensing of trace amounts of As(III) in water resources by Goldâ€“Rare Earth alloys. Journal of Electroanalytical Chemistry, 2020, 872, 114232.	3.8	4
99	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.	2.9	4
100	Full-Self-Powered Humidity Sensor Based on Electrochemical Aluminumâ€“Water Reaction. Sensors, 2021, 21, 3486.	3.8	4
101	Ionic Liquid-Derived Carbon-Supported Metal Electrocatalysts as Anodes in Direct Borohydride-Peroxide Fuel Cells. Catalysts, 2021, 11, 632.	3.5	4
102	La₂NiO₄ Ceramic Electrodes for Hydrogen Peroxide Electroreduction. ECS Transactions, 2014, 64, 1049-1057.	0.5	3
103	Electroanalytical Sensing of Bromides Using Radiolytically Synthesized Silver Nanoparticle Electrocatalysts. Journal of Analytical Methods in Chemistry, 2017, 2017, 1-9.	1.6	3
104	Reduced Graphene Oxide-Supported Bimetallic M-Platinum (M: Co, Ni, Cu) Alloy Nanoparticles for Hydrogen Evolution Reaction. ECS Transactions, 2018, 86, 701-710.	0.5	3
105	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.	2.9	2
106	Investigation of Nickel-Rare Earth Electrodes for Sodium Borohydride Electrooxidation. ECS Transactions, 2014, 64, 1095-1102.	0.5	2
107	Nickel-Rare Earth (RE = Ce, Sm, Dy) Electrodes for H2O2 Reduction in Fuel Cells. ECS Transactions, 2016, 72, 31-40.	0.5	2
108	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.	2.1	2

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109	Glass-like carbon, pyrolytic graphite or nanostructured carbon for electrochemical sensing of bismuth ion?. Processing and Application of Ceramics, 2016, 10, 87-95.	0.8	2
110	Analysis of the growth characteristics of a 450-year-old silver fir tree. Archives of Biological Sciences, 2015, 67, 155-160.	0.5	2
111	Tuning Electrocatalytic Activity of Gold Silver Nanoparticles on Reduced Graphene Oxide for Oxygen Reduction Reaction. Journal of the Electrochemical Society, 0, , .	2.9	2
112	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.	5.2	2
113	Body Ni-Doped Glassy Carbon: Physical and Electrochemical Characterization. Materials Science Forum, 2004, 453-454, 103-108.	0.3	1
114	Nickel-Cerium Alloys for Borohydride Oxidation. ECS Transactions, 2013, 58, 1893-1901.	0.5	1
115	Effect of RTILs on the Hydrogen Evolution Reaction in Alkaline Media. ECS Transactions, 2016, 72, 23-29.	0.5	1
116	The Impact of Bromide-based Ionic Liquids on Alkaline Water Electrolysis. ECS Transactions, 2018, 86, 711-717.	0.5	1
117	The Electrochemical Society Custom-Made Bromide-Based Ionic Liquids as Electrolyte Additives for Enhancing Hydrogen Evolution in Alkaline Water Electrolysis. Journal of the Electrochemical Society, 2019, , .	2.9	1
118	Landscape character of Mladenovac: Value preservation by applying connectivity principle. Zbornik Radova - Geografski Fakultet Univerziteta U Beogradu, 2014, , 91-120.	0.2	1
119	Platinumâ€“Dysprosium Alloys as Oxygen Electrodes in Alkaline Media: An Experimental and Theoretical Study. Nanomaterials, 2022, 12, 2318.	4.1	1
120	PtNi-Decorated Metal Oxide Electrodes for Borohydride Fuel Cells. ECS Transactions, 2016, 72, 57-64.	0.5	0
121	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.	5.5	0
122	High-Performance Metal (Au,Cu)â€“Polypyrrole Nanocomposites for Electrochemical Borohydride Oxidation in Fuel Cell Applications. SSRN Electronic Journal, 0, , .	0.4	0
123	CorrosionÃ¢Â€Â“resistant materials for alkaline water electrolyzers. Corrosion, 0, , .	1.1	0