

# Biljana Sljukic

## List of Publications by Year in Descending Order

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**Version:** 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111  
papers

2,754  
citations

29  
h-index

48  
g-index

126  
ext. papers

3,139  
ext. citations

4.7  
avg, IF

5.28  
L-index

#	Paper	IF	Citations
111	Steps towards highly-efficient water splitting and oxygen reduction using nanostructured ENi(OH) <sub>2</sub> . <i>RSC Advances</i> , <b>2022</b> , 12, 10020-10028	3.7	0
110	Boosting oxygen electrode kinetics by addition of cost-effective transition metals (Ni, Fe, Cu) to platinum on graphene nanoplatelets. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 905, 164156	5.7	1
109	Sodium-pillared vanadium oxides as next-gen materials: Does co-inserted water control the cyclic stability of vanadates in an aqueous electrolyte?. <i>Electrochimica Acta</i> , <b>2022</b> , 140603	6.7	0
108	Benzimidazole Schiff base copper(II) complexes as catalysts for environmental and energy applications: VOC oxidation, oxygen reduction and water splitting reactions. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> ,	6.7	1
107	Tailoring metal-oxide-supported PtNi as bifunctional catalysts of superior activity and stability for unitised regenerative fuel cell applications. <i>Electrochemistry Communications</i> , <b>2021</b> , 124, 106963	5.1	4
106	Carbon-Supported Trimetallic Catalysts (PdAuNi/C) for Borohydride Oxidation Reaction. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
105	Ionic Liquid-Derived Carbon-Supported Metal Electrocatalysts as Anodes in Direct Borohydride-Peroxide Fuel Cells. <i>Catalysts</i> , <b>2021</b> , 11, 632	4	3
104	A Pt/MnV <sub>2</sub> O <sub>6</sub> nanocomposite for the borohydride oxidation reaction. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 55, 428-436	12	4
103	Direct borohydride fuel cells (DBFCs) <b>2021</b> , 203-232		2
102	Enhanced borohydride oxidation kinetics at gold-rare earth alloys. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 857, 158273	5.7	3
101	Impact of Mixing on the Structural Diversity of Serbian Spruce and Macedonian Pine Endemic to Relict Forest Communities in the Balkan Peninsula. <i>Forests</i> , <b>2021</b> , 12, 1095	2.8	
100	Highly efficient and fast batch adsorption of orange G dye from polluted water using superb organo-montmorillonite: Experimental study and molecular dynamics investigation. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 335, 116560	6	12
99	Tailoring gold-conducting polymer nanocomposites for sensors applications: Proof of concept for As(III) sensing in aqueous media. <i>Synthetic Metals</i> , <b>2021</b> , 278, 116834	3.6	3
98	Corrigendum to: Bimetallic PdM (M: Fe, Ag, Au) alloy nanoparticles assembled on reduced graphene oxide as catalysts for direct borohydride fuel cells[J. Alloy. Compd. 718 (2017) 204-214]. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 884, 161309	5.7	
97	Performance of Au/Ti and Au/TiO <sub>2</sub> Nanotube Array Electrodes for Borohydride Oxidation and Oxygen Reduction Reaction in Alkaline Media. <i>Electroanalysis</i> , <b>2020</b> , 32, 1867-1874	3	2
96	Simple design of PVA-based blend doped with SO <sub>4</sub> (PO <sub>4</sub> )-functionalised TiO <sub>2</sub> as an effective membrane for direct borohydride fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 15226-15238	6.7	19
95	Bimetallic Co-Based (CoM, M = Mo, Fe, Mn) Coatings for High-Efficiency Water Splitting. <i>Materials</i> , <b>2020</b> , 14,	3.5	5

94	Ruthenium(0) nanoparticles stabilized by metal-organic framework as an efficient electrocatalyst for borohydride oxidation reaction. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 27056-27066	6.7	2
93	Versatility of Amide-Functionalized Co(II) and Ni(II) Coordination Polymers: From Thermochemical-Triggered Structural Transformations to Supercapacitors and Electrocatalysts for Water Splitting. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 16301-16318	5.1	7
92	Electroanalytical sensing of trace amounts of As(III) in water resources by Gold-Bare Earth alloys. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 872, 114232	4.1	3
91	Carbon-Supported MoC for Oxygen Reduction Reaction Electrocatalysis. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
90	Palladium-nickel on tin oxide-carbon composite supports for electrocatalytic hydrogen evolution. <i>Catalysis Today</i> , <b>2020</b> , 357, 302-310	5.3	2
89	Mesoporous graphitic carbon nitride-supported binary MPt (M: Co, Ni, Cu) nanoalloys as electrocatalysts for borohydride oxidation and hydrogen evolution reaction. <i>Catalysis Today</i> , <b>2020</b> , 357, 291-301	5.3	20
88	PdNi alloy nanoparticles assembled on cobalt ferrite-carbon black composite as a fuel cell catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 14193-14200	6.7	11
87	Poly(vinyl alcohol)-based crosslinked ternary polymer blend doped with sulfonated graphene oxide as a sustainable composite membrane for direct borohydride fuel cells. <i>Journal of Power Sources</i> , <b>2019</b> , 432, 92-101	8.9	35
86	The influence of oxygen vacancy concentration in nanodispersed non-stoichiometric CeO <sub>2</sub> -x oxides on the physico-chemical properties of conducting polyaniline/CeO <sub>2</sub> composites. <i>Electrochimica Acta</i> , <b>2019</b> , 306, 506-515	6.7	5
85	Mn <sub>2</sub> O <sub>3</sub> -MO (MO = ZrO <sub>2</sub> , V <sub>2</sub> O <sub>5</sub> , WO <sub>3</sub> ) supported PtNi nanoparticles: Designing stable and efficient electrocatalysts for oxygen reduction and borohydride oxidation. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 273, 286-293	5.3	10
84	Evaluation of silver-incorporating zeolites as bifunctional electrocatalysts for direct borohydride fuel cells. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 14270-14280	3.6	2
83	Gold nanorod-polyaniline composites: Synthesis and evaluation as anode electrocatalysts for direct borohydride fuel cells. <i>Electrochimica Acta</i> , <b>2019</b> , 328, 135115	6.7	12
82	Electrochemical investigation of ionic liquid-derived porous carbon materials for supercapacitors: pseudocapacitance versus electrical double layer. <i>Electrochimica Acta</i> , <b>2019</b> , 298, 541-551	6.7	25
81	Electrochemistry of hydrogen evolution in ionic liquids aqueous mixtures. <i>Materials Research Bulletin</i> , <b>2019</b> , 112, 407-412	5.1	11
80	Performance assessment of a direct borohydride-peroxide fuel cell with Pd-impregnated faujasite X zeolite as anode electrocatalyst. <i>Electrochimica Acta</i> , <b>2018</b> , 269, 517-525	6.7	19
79	Monodisperse Pd nanoparticles assembled on reduced graphene oxide-Fe <sub>3</sub> O <sub>4</sub> nanocomposites as electrocatalysts for borohydride fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 10686-10697	6.7	18
78	Electrocatalytic Activity of Ionic-Liquid-Derived Porous Carbon Materials for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1037-1046	4.3	18
77	PtNi supported on binary metal oxides: Potential bifunctional electrocatalysts for low-temperature fuel cells?. <i>Applied Surface Science</i> , <b>2018</b> , 428, 31-40	6.7	13

76	On the stability in alkaline conditions and electrochemical performance of ABO-type cathodes for liquid fuel cells. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 19045-19056	3.6	5
75	Vine Shoots and Grape Stalks as Carbon Sources for Hydrogen Evolution Reaction Electrocatalyst Supports. <i>Catalysts</i> , <b>2018</b> , 8, 50	4	6
74	Toward Tailoring of Electrolyte Additives for Efficient Alkaline Water Electrolysis: Salicylate-Based Ionic Liquids. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 4731-4742	6.1	2
73	Efficient hydrogen evolution electrocatalysis in alkaline medium using Pd-modified zeolite X. <i>Electrochimica Acta</i> , <b>2018</b> , 259, 882-892	6.7	22
72	12-phosphotungstic Acid Supported on BEA Zeolite Composite with Carbonized Polyaniline for Electroanalytical Sensing of Phenols in Environmental Samples. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, H1013-H1020	3.9	10
71	Reduced Graphene Oxide-Supported Bimetallic M-Platinum (M: Co, Ni, Cu) Alloy Nanoparticles for Hydrogen Evolution Reaction. <i>ECS Transactions</i> , <b>2018</b> , 86, 701-710	1	2
70	Facile Preparation and High Activity of TiO <sub>2</sub> Nanotube Arrays toward Oxygen Reduction in Alkaline Media. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, J3253-J3258	3.9	3
69	NiA and NiX zeolites as bifunctional electrocatalysts for water splitting in alkaline media. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 18977-18991	6.7	7
68	Platinum/polypyrrole-carbon electrocatalysts for direct borohydride-peroxide fuel cells. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 454-464	21.8	44
67	SnO <sub>2</sub> -C supported PdNi nanoparticles for oxygen reduction and borohydride oxidation. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 797, 23-30	4.1	14
66	Bimetallic PdM (M = Fe, Ag, Au) alloy nanoparticles assembled on reduced graphene oxide as catalysts for direct borohydride fuel cells. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 718, 204-214	5.7	48
65	Room Temperature Ionic Liquids as Electrolyte Additives for the HER in Alkaline Media. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, F427-F432	3.9	14
64	Electroanalytical Sensing of Bromides Using Radiolytically Synthesized Silver Nanoparticle Electrocatalysts. <i>Journal of Analytical Methods in Chemistry</i> , <b>2017</b> , 2017, 2028417	2	2
63	Organic Electrosynthesis: From Laboratorial Practice to Industrial Applications. <i>Organic Process Research and Development</i> , <b>2017</b> , 21, 1213-1226	3.9	112
62	Composite zeolite/carbonized polyaniline electrodes for pñitrophenol sensing. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 778, 137-147	4.1	13
61	Pd/c-PANI electrocatalysts for direct borohydride fuel cells. <i>Electrochimica Acta</i> , <b>2016</b> , 213, 298-305	6.7	43
60	On the performance of commercially available corrosion-resistant nickel alloys: a review. <i>Corrosion Reviews</i> , <b>2016</b> , 34, 187-200	3.2	15
59	Biobased carbon-supported palladium electrocatalysts for borohydride fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 10914-10922	6.7	25

58	Platinum-rare earth cathodes for direct borohydride-peroxide fuel cells. <i>Journal of Power Sources</i> , <b>2016</b> , 307, 251-258	8.9	24
57	Nickel-rare earth electrodes for sodium borohydride electrooxidation. <i>Electrochimica Acta</i> , <b>2016</b> , 190, 1050-1056	6.7	29
56	Nanostructured 3D metallic foams for H <sub>2</sub> O <sub>2</sub> electroreduction. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 14370-14376	6.7	19
55	Glass-like carbon, pyrolytic graphite or nanostructured carbon for electrochemical sensing of bismuth ion?. <i>Processing and Application of Ceramics</i> , <b>2016</b> , 10, 87-95	1.4	2
54	Molybdenum Carbide Nanoparticles on Carbon Nanotubes and Carbon Xerogel: Low-Cost Cathodes for Hydrogen Production by Alkaline Water Electrolysis. <i>ChemSusChem</i> , <b>2016</b> , 9, 1200-8	8.3	47
53	Radiolitically synthesized nano Ag/C catalysts for oxygen reduction and borohydride oxidation reactions in alkaline media, for potential applications in fuel cells. <i>Energy</i> , <b>2016</b> , 101, 79-90	7.9	36
52	Effect of RTILs on the Hydrogen Evolution Reaction in Alkaline Media. <i>ECS Transactions</i> , <b>2016</b> , 72, 23-29	1	1
51	Nickel-Rare Earth (RE = Ce, Sm, Dy) Electrodes for H <sub>2</sub> O <sub>2</sub> Reduction in Fuel Cells. <i>ECS Transactions</i> , <b>2016</b> , 72, 31-40	1	2
50	Enhancement of hydrogen evolution in alkaline water electrolysis by using nickel-rare earth alloys. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 4295-4302	6.7	65
49	Carbon-supported Mo <sub>2</sub> C electrocatalysts for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15505-15512	13	68
48	THE INFLUENCE OF INTERCALATED IONS ON CYCLIC STABILITY OF V <sub>2</sub> O <sub>5</sub> /GRAPHITE COMPOSITE IN AQUEOUS ELECTROLYTIC SOLUTIONS: EXPERIMENTAL AND THEORETICAL APPROACH. <i>Electrochimica Acta</i> , <b>2015</b> , 176, 130-140	6.7	19
47	Perovskite cathodes for NaBH <sub>4</sub> /H <sub>2</sub> O <sub>2</sub> direct fuel cells. <i>Electrochimica Acta</i> , <b>2015</b> , 178, 163-170	6.7	16
46	Three-dimensional nanostructured NiCu foams for borohydride oxidation. <i>Russian Journal of Physical Chemistry A</i> , <b>2015</b> , 89, 2449-2454	0.7	20
45	Analysis of the growth characteristics of a 450-year-old silver fir tree. <i>Archives of Biological Sciences</i> , <b>2015</b> , 67, 155-160	0.7	1
44	Nickel and Nickel-Cerium Alloy Anodes for Direct Borohydride Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, F594-F599	3.9	35
43	Electrocatalytic performance of PtDy alloys for direct borohydride fuel cells. <i>Journal of Power Sources</i> , <b>2014</b> , 272, 335-343	8.9	56
42	Electrocatalytic Activity of Nickel-Cerium Alloys for Hydrogen Evolution in Alkaline Water Electrolysis. <i>Journal of the Electrochemical Society</i> , <b>2014</b> , 161, F386-F390	3.9	31
41	Electrocatalytic Activity of Carbonized Nanostructured Polyanilines for Oxidation Reactions: Sensing of Nitrite Ions and Ascorbic Acid. <i>Electrochimica Acta</i> , <b>2014</b> , 120, 147-158	6.7	27

40	Investigation of Nickel-Rare Earth Electrodes for Sodium Borohydride Electrooxidation. <i>ECS Transactions</i> , <b>2014</b> , 64, 1095-1102	1	2
39	La <sub>2</sub> NiO <sub>4</sub> Ceramic Electrodes for Hydrogen Peroxide Electroreduction. <i>ECS Transactions</i> , <b>2014</b> , 64, 1049-1057		2
38	Physics of Electrolytic Gas Evolution. <i>Brazilian Journal of Physics</i> , <b>2013</b> , 43, 199-208	1.2	53
37	Analytical monitoring of sodium borohydride. <i>Analytical Methods</i> , <b>2013</b> , 5, 829	3.2	24
36	Carbon-supported Pt <sub>0.75</sub> M <sub>0.25</sub> (M = Ni or Co) electrocatalysts for borohydride oxidation. <i>Electrochimica Acta</i> , <b>2013</b> , 107, 577-583	6.7	55
35	Electrocatalytic approach for the efficiency increase of electrolytic hydrogen production: Proof-of-concept using platinum--dysprosium alloys. <i>Energy</i> , <b>2013</b> , 50, 486-492	7.9	38
34	Manganese dioxide electrocatalysts for borohydride fuel cell cathodes?. <i>Journal of Electroanalytical Chemistry</i> , <b>2013</b> , 694, 77-83	4.1	20
33	Nickel-Cerium Electrodes for Hydrogen Evolution in Alkaline Water Electrolysis. <i>ECS Transactions</i> , <b>2013</b> , 58, 113-121	1	5
32	Nanostructured materials for sensing Pb(II) and Cd(II) ions: Manganese oxohydroxide versus carbonized polyanilines?. <i>Journal of the Serbian Chemical Society</i> , <b>2013</b> , 78, 1717-1727	0.9	8
31	Exploration of MnO <sub>2</sub> /carbon composites and their application to simultaneous electroanalytical determination of Pb(II) and Cd(II). <i>Electrochimica Acta</i> , <b>2012</b> , 74, 158-164	6.7	29
30	Adsorption of bismuth ions on graphite chemically modified with gallic acid. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 10027-31	3.6	7
29	Simultaneous oxidation of aniline and tannic acid with peroxydisulfate: Self-assembly of oxidation products from nanorods to microspheres. <i>Synthetic Metals</i> , <b>2012</b> , 162, 843-856	3.6	15
28	Electrochemical behaviour of carbon supported Pt electrocatalysts for H <sub>2</sub> O <sub>2</sub> reduction. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 14143-14151	6.7	36
27	Anion- or Cation-Exchange Membranes for NaBH <sub>4</sub> /H <sub>2</sub> O <sub>2</sub> Fuel Cells?. <i>Membranes</i> , <b>2012</b> , 2, 478-92	3.8	21
26	Hydrogen peroxide sensing at MnO <sub>2</sub> /carbonized nanostructured polyaniline electrode. <i>Russian Journal of Physical Chemistry A</i> , <b>2011</b> , 85, 2406-2409	0.7	11
25	Disposable manganese oxide screen printed electrodes for electroanalytical sensing. <i>Analytical Methods</i> , <b>2011</b> , 3, 105-109	3.2	17
24	Electrochemistry in Room-Temperature Ionic Liquids: Potential Windows at Mercury Electrodes. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2009</b> , 54, 2049-2053	2.8	78
23	Electrochemical Determination of Manganese Solubility in Mercury via Amalgamation and Stripping in the Room Temperature Ionic Liquid n-Hexyltriethylammonium Bis(trifluoromethanesulfonyl)imide, [N <sub>6</sub> ,2,2,2][NTf <sub>2</sub> ]. <i>Electroanalysis</i> , <b>2008</b> , 20, 2603-2607	3	2

22	Copper Oxide / Graphite Composite Electrodes: Application to Nitrite Sensing. <i>Electroanalysis</i> , <b>2007</b> , 19, 79-84	3	61
21	Development of an Electrochemical Sensor Nanoarray for Hydrazine Detection Using a Combinatorial Approach. <i>Electroanalysis</i> , <b>2007</b> , 19, 1062-1068	3	50
20	Electrochemical Determination of Oxalate at Pyrolytic Graphite Electrodes. <i>Electroanalysis</i> , <b>2007</b> , 19, 918-922	3	24
19	Manganese Dioxide Graphite Composite Electrodes Formed via a Low Temperature Method: Detection of Hydrogen Peroxide, Ascorbic Acid and Nitrite. <i>Electroanalysis</i> , <b>2007</b> , 19, 1275-1280	3	45
18	At point of use sono-electrochemical generation of hydrogen peroxide for chemical synthesis: the green oxidation of benzonitrile to benzamide. <i>Ultrasonics Sonochemistry</i> , <b>2007</b> , 14, 113-6	8.9	11
17	Electrosynthesis of hydrogen peroxide via the reduction of oxygen assisted by power ultrasound. <i>Ultrasonics Sonochemistry</i> , <b>2007</b> , 14, 405-12	8.9	33
16	Combinatorial electrochemistry using metal nanoparticles: from proof-of-concept to practical realisation for bromide detection. <i>Analytica Chimica Acta</i> , <b>2007</b> , 590, 67-73	6.6	22
15	Electrochemical detection of arsenic on a gold nanoparticle array. <i>Russian Journal of Physical Chemistry A</i> , <b>2007</b> , 81, 1443-1447	0.7	28
14	Manganese dioxide graphite composite electrodes: application to the electroanalysis of hydrogen peroxide, ascorbic acid and nitrite. <i>Analytical Sciences</i> , <b>2007</b> , 23, 165-70	1.7	56
13	Lead(IV) oxide-graphite composite electrodes: application to sensing of ammonia, nitrite and phenols. <i>Analytica Chimica Acta</i> , <b>2007</b> , 587, 240-6	6.6	56
12	Screen Printed Electrodes and Screen Printed Modified Electrodes Benefit from Insonation. <i>Electroanalysis</i> , <b>2006</b> , 18, 928-930	3	12
11	Iron(III) Oxide Graphite Composite Electrodes: Application to the Electroanalytical Detection of Hydrazine and Hydrogen Peroxide. <i>Electroanalysis</i> , <b>2006</b> , 18, 1757-1762	3	77
10	Mathematical modelling and simulation of adsorption processes at spherical microparticles. <i>ChemPhysChem</i> , <b>2006</b> , 7, 697-703	3.2	5
9	The thermodynamics of sequestration of toxic copper(II) metal ion pollutants from aqueous media by L-cysteine methyl ester modified glassy carbon spheres. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 970		27
8	Electrochemically polymerised composites of multi-walled carbon nanotubes and poly(vinylferrocene) and their use as modified electrodes: application to glucose sensing. <i>Analyst</i> , <b>2006</b> , 131, 670-7	5	61
7	Iron oxide particles are the active sites for hydrogen peroxide sensing at multiwalled carbon nanotube modified electrodes. <i>Nano Letters</i> , <b>2006</b> , 6, 1556-8	11.5	355
6	An overview of the electrochemical reduction of oxygen at carbon-based modified electrodes. <i>Journal of the Iranian Chemical Society</i> , <b>2005</b> , 2, 1-25	2	152
5	Exploration of Stable Sonoelectrocatalysis for the Electrochemical Reduction of Oxygen. <i>Electroanalysis</i> , <b>2005</b> , 17, 1025-1034	3	24

4	Body Ni-Doped Glassy Carbon: Physical and Electrochemical Characterization. <i>Materials Science Forum</i> , <b>2004</b> , 453-454, 103-108	0.4	1
3	Modification of carbon electrodes for oxygen reduction and hydrogen peroxide formation: The search for stable and efficient sonoelectrocatalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 992-997 <sup>3,6</sup>	3.6	47
2	The search for stable and efficient sonoelectrocatalysts for oxygen reduction and hydrogen peroxide formation: azobenzene and derivatives. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 4034-4041 <sup>3,6</sup>	3.6	13
1	Novel Ternary Polymer Blend Membranes Doped with SO <sub>4</sub> /PO <sub>4</sub> -TiO <sub>2</sub> for Low Temperature Fuel Cells		5