# Biljana Sljukic

## List of Publications by Citations



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| 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 | Iron oxide particles are the active sites for hydrogen peroxide sensing at multiwalled carbon nanotube modified electrodes. *Nano Letters*, **2006**, 6, 1556-8 | 11.5 | 355 |
| 110 | An overview of the electrochemical reduction of oxygen at carbon-based modified electrodes. *Journal of the Iranian Chemical Society*, **2005**, 2, 1-25 | 2 | 152 |
| 109 | Organic Electrosynthesis: From Laboratorial Practice to Industrial Applications. *Organic Process Research and Development*, **2017**, 21, 1213-1226 | 3.9 | 112 |
| 108 | Electrochemistry in Room-Temperature Ionic Liquids: Potential Windows at Mercury Electrodes. *Journal of Chemical & Engineering Data*, **2009**, 54, 2049-2053 | 2.8 | 78 |
| 107 | Iron(III) Oxide Graphite Composite Electrodes: Application to the Electroanalytical Detection of Hydrazine and Hydrogen Peroxide. *Electroanalysis*, **2006**, 18, 1757-1762 | 3 | 77 |
| 106 | Carbon-supported Mo2C electrocatalysts for hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2015**, 3, 15505-15512 | 13 | 68 |
| 105 | Enhancement of hydrogen evolution in alkaline water electrolysis by using nickel-rare earth alloys. *International Journal of Hydrogen Energy*, **2015**, 40, 4295-4302 | 6.7 | 65 |
| 104 | Copper Oxide Graphite Composite Electrodes: Application to Nitrite Sensing. *Electroanalysis*, **2007**, 19, 79-84 | 3 | 61 |
| 103 | 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, 670-7 | 5 | 61 |
| 102 | Electrocatalytic performance of Pt Dy alloys for direct borohydride fuel cells. *Journal of Power Sources*, **2014**, 272, 335-343 | 8.9 | 56 |
| 101 | Manganese dioxide graphite composite electrodes: application to the electroanalysis of hydrogen peroxide, ascorbic acid and nitrite. *Analytical Sciences*, **2007**, 23, 165-70 | 1.7 | 56 |
| 100 | Lead(IV) oxide-graphite composite electrodes: application to sensing of ammonia, nitrite and phenols. *Analytica Chimica Acta*, **2007**, 587, 240-6 | 6.6 | 56 |
| 99 | Carbon-supported Pt0.75M0.25 (M = Ni or Co) electrocatalysts for borohydride oxidation. *Electrochimica Acta*, **2013**, 107, 577-583 | 6.7 | 55 |
| 98 | Physics of Electrolytic Gas Evolution. *Brazilian Journal of Physics*, **2013**, 43, 199-208 | 1.2 | 53 |
| 97 | Development of an Electrochemical Sensor Nanoarray for Hydrazine Detection Using a Combinatorial Approach. *Electroanalysis*, **2007**, 19, 1062-1068 | 3 | 50 |
| 96 | Bimetallic PdM (M = Fe, 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 | 5.7 | 48 |
| 95 | 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 | 3.6 | 47 |

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| 94 | Molybdenum Carbide Nanoparticles on Carbon Nanotubes and Carbon Xerogel: Low-Cost Cathodes for Hydrogen Production by Alkaline Water Electrolysis. *ChemSusChem*, **2016**, 9, 1200-8 | 8.3 | 47 |
| 93 | Manganese Dioxide Graphite Composite Electrodes Formed via a Low Temperature Method: Detection of Hydrogen Peroxide, Ascorbic Acid and Nitrite. *Electroanalysis*, **2007**, 19, 1275-1280 | 3 | 45 |
| 92 | Platinum/polypyrrole-carbon electrocatalysts for direct borohydride-peroxide fuel cells. *Applied Catalysis B: Environmental*, **2018**, 238, 454-464 | 21.8 | 44 |
| 91 | Pd/c-PANI electrocatalysts for direct borohydride fuel cells. *Electrochimica Acta*, **2016**, 213, 298-305 | 6.7 | 43 |
| 90 | Electrocatalytic approach for the efficiency increase of electrolytic hydrogen production: Proof-of-concept using platinum--dysprosium alloys. *Energy*, **2013**, 50, 486-492 | 7.9 | 38 |
| 89 | Electrochemical behaviour of carbon supported Pt electrocatalysts for H2O2 reduction. *International Journal of Hydrogen Energy*, **2012**, 37, 14143-14151 | 6.7 | 36 |
| 88 | 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 | 7.9 | 36 |
| 87 | 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 | 8.9 | 35 |
| 86 | Nickel and Nickel-Cerium Alloy Anodes for Direct Borohydride Fuel Cells. *Journal of the Electrochemical Society*, **2014**, 161, F594-F599 | 3.9 | 35 |
| 85 | Electrosynthesis of hydrogen peroxide via the reduction of oxygen assisted by power ultrasound. *Ultrasonics Sonochemistry*, **2007**, 14, 405-12 | 8.9 | 33 |
| 84 | Electrocatalytic Activity of Nickel-Cerium Alloys for Hydrogen Evolution in Alkaline Water Electrolysis. *Journal of the Electrochemical Society*, **2014**, 161, F386-F390 | 3.9 | 31 |
| 83 | Nickel□are earth electrodes for sodium borohydride electrooxidation. *Electrochimica Acta*, **2016**, 190, 1050-1056 | 6.7 | 29 |
| 82 | Exploration of MnO2/carbon composites and their application to simultaneous electroanalytical determination of Pb(II) and Cd(II). *Electrochimica Acta*, **2012**, 74, 158-164 | 6.7 | 29 |
| 81 | Electrochemical detection of arsenic on a gold nanoparticle array. *Russian Journal of Physical Chemistry A*, **2007**, 81, 1443-1447 | 0.7 | 28 |
| 80 | Electrocatalytic Activity of Carbonized Nanostructured Polyanilines for Oxidation Reactions: Sensing of Nitrite Ions and Ascorbic Acid. *Electrochimica Acta*, **2014**, 120, 147-158 | 6.7 | 27 |
| 79 | 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 | | 27 |
| 78 | Biobased carbon-supported palladium electrocatalysts for borohydride fuel cells. *International Journal of Hydrogen Energy*, **2016**, 41, 10914-10922 | 6.7 | 25 |
| 77 | Electrochemical investigation of ionic liquid-derived porous carbon materials for supercapacitors: pseudocapacitance versus electrical double layer. *Electrochimica Acta*, **2019**, 298, 541-551 | 6.7 | 25 |

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| 76 | Platinum-rare earth cathodes for direct borohydride-peroxide fuel cells. *Journal of Power Sources*, **2016**, 307, 251-258 | 8.9 | 24 |
| 75 | Analytical monitoring of sodium borohydride. *Analytical Methods*, **2013**, 5, 829 | 3.2 | 24 |
| 74 | Electrochemical Determination of Oxalate at Pyrolytic Graphite Electrodes. *Electroanalysis*, **2007**, 19, 918-922 | 3 | 24 |
| 73 | Exploration of Stable Sonoelectrocatalysis for the Electrochemical Reduction of Oxygen. *Electroanalysis*, **2005**, 17, 1025-1034 | 3 | 24 |
| 72 | Combinatorial electrochemistry using metal nanoparticles: from proof-of-concept to practical realisation for bromide detection. *Analytica Chimica Acta*, **2007**, 590, 67-73 | 6.6 | 22 |
| 71 | Efficient hydrogen evolution electrocatalysis in alkaline medium using Pd-modified zeolite X. *Electrochimica Acta*, **2018**, 259, 882-892 | 6.7 | 22 |
| 70 | Anion- or Cation-Exchange Membranes for NaBH4/H2O2 Fuel Cells?. *Membranes*, **2012**, 2, 478-92 | 3.8 | 21 |
| 69 | Manganese dioxide electrocatalysts for borohydride fuel cell cathodes?. *Journal of Electroanalytical Chemistry*, **2013**, 694, 77-83 | 4.1 | 20 |
| 68 | Three-dimensional nanostructured NiCu foams for borohydride oxidation. *Russian Journal of Physical Chemistry A*, **2015**, 89, 2449-2454 | 0.7 | 20 |
| 67 | 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 | 5.3 | 20 |
| 66 | 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 | 6.7 | 19 |
| 65 | 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 | 6.7 | 19 |
| 64 | Performance assessment of a direct borohydride-peroxide fuel cell with Pd-impregnated faujasite X zeolite as anode electrocatalyst. *Electrochimica Acta*, **2018**, 269, 517-525 | 6.7 | 19 |
| 63 | Nanostructured 3D metallic foams for H2O2 electroreduction. *International Journal of Hydrogen Energy*, **2016**, 41, 14370-14376 | 6.7 | 19 |
| 62 | Monodisperse Pd nanoparticles assembled on reduced graphene oxide-Fe 3 O 4 nanocomposites as electrocatalysts for borohydride fuel cells. *International Journal of Hydrogen Energy*, **2018**, 43, 10686-10697 | 6.7 | 18 |
| 61 | Electrocatalytic Activity of Ionic-Liquid-Derived Porous Carbon Materials for the Oxygen Reduction Reaction. *ChemElectroChem*, **2018**, 5, 1037-1046 | 4.3 | 18 |
| 60 | Disposable manganese oxide screen printed electrodes for electroanalytical sensing. *Analytical Methods*, **2011**, 3, 105-109 | 3.2 | 17 |
| 59 | Perovskite cathodes for NaBH 4 /H 2 O 2 direct fuel cells. *Electrochimica Acta*, **2015**, 178, 163-170 | 6.7 | 16 |

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| 58 | On the performance of commercially available corrosion-resistant nickel alloys: a review. *Corrosion Reviews*, **2016**, 34, 187-200 | 3.2 | 15 |
| 57 | Simultaneous oxidation of aniline and tannic acid with peroxydisulfate: Self-assembly of oxidation products from nanorods to microspheres. *Synthetic Metals*, **2012**, 162, 843-856 | 3.6 | 15 |
| 56 | SnO 2 -C supported PdNi nanoparticles for oxygen reduction and borohydride oxidation. *Journal of Electroanalytical Chemistry*, **2017**, 797, 23-30 | 4.1 | 14 |
| 55 | Room Temperature Ionic Liquids as Electrolyte Additives for the HER in Alkaline Media. *Journal of the Electrochemical Society*, **2017**, 164, F427-F432 | 3.9 | 14 |
| 54 | PtNi supported on binary metal oxides: Potential bifunctional electrocatalysts for low-temperature fuel cells?. *Applied Surface Science*, **2018**, 428, 31-40 | 6.7 | 13 |
| 53 | Composite zeolite/carbonized polyaniline electrodes for p□itrophenol sensing. *Journal of Electroanalytical Chemistry*, **2016**, 778, 137-147 | 4.1 | 13 |
| 52 | 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 | 3.6 | 13 |
| 51 | Gold nanorod-polyaniline composites: Synthesis and evaluation as anode electrocatalysts for direct borohydride fuel cells. *Electrochimica Acta*, **2019**, 328, 135115 | 6.7 | 12 |
| 50 | Screen Printed Electrodes and Screen Printed Modified Electrodes Benefit from Insonation. *Electroanalysis*, **2006**, 18, 928-930 | 3 | 12 |
| 49 | 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 | 6 | 12 |
| 48 | PdNi alloy nanoparticles assembled on cobalt ferrite-carbon black composite as a fuel cell catalyst. *International Journal of Hydrogen Energy*, **2019**, 44, 14193-14200 | 6.7 | 11 |
| 47 | Hydrogen peroxide sensing at MnO2/carbonized nanostructured polyaniline electrode. *Russian Journal of Physical Chemistry A*, **2011**, 85, 2406-2409 | 0.7 | 11 |
| 46 | At point of use sono-electrochemical generation of hydrogen peroxide for chemical synthesis: the green oxidation of benzonitrile to benzamide. *Ultrasonics Sonochemistry*, **2007**, 14, 113-6 | 8.9 | 11 |
| 45 | Electrochemistry of hydrogen evolution in ionic liquids aqueous mixtures. *Materials Research Bulletin*, **2019**, 112, 407-412 | 5.1 | 11 |
| 44 | 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 | 5.3 | 10 |
| 43 | 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 | 3.9 | 10 |
| 42 | 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 | 0.9 | 8 |
| 41 | Adsorption of bismuth ions on graphite chemically modified with gallic acid. *Physical Chemistry Chemical Physics*, **2012**, 14, 10027-31 | 3.6 | 7 |

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| 40 | 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 | 5.1 | 7 |
| 39 | NiA and NiX zeolites as bifunctional electrocatalysts for water splitting in alkaline media. *International Journal of Hydrogen Energy*, **2018**, 43, 18977-18991 | 6.7 | 7 |
| 38 | Vine Shoots and Grape Stalks as Carbon Sources for Hydrogen Evolution Reaction Electrocatalyst Supports. *Catalysts*, **2018**, 8, 50 | 4 | 6 |
| 37 | The influence of oxygen vacancy concentration in nanodispersed non-stoichiometric CeO2-□xides on the physico-chemical properties of conducting polyaniline/CeO2 composites. *Electrochimica Acta*, **2019**, 306, 506-515 | 6.7 | 5 |
| 36 | On the stability in alkaline conditions and electrochemical performance of ABO-type cathodes for liquid fuel cells. *Physical Chemistry Chemical Physics*, **2018**, 20, 19045-19056 | 3.6 | 5 |
| 35 | Nickel-Cerium Electrodes for Hydrogen Evolution in Alkaline Water Electrolysis. *ECS Transactions*, **2013**, 58, 113-121 | 1 | 5 |
| 34 | Mathematical modelling and simulation of adsorption processes at spherical microparticles. *ChemPhysChem*, **2006**, 7, 697-703 | 3.2 | 5 |
| 33 | Novel Ternary Polymer BlendMembranesDopedwith SO4/PO4-TiO2for Low Temperature Fuel Cells | | 5 |
| 32 | Bimetallic Co-Based (CoM, M = Mo, Fe, Mn) Coatings for High-Efficiency Water Splitting. *Materials*, **2020**, 14, | 3.5 | 5 |
| 31 | Carbon-Supported MoC for Oxygen Reduction Reaction Electrocatalysis. *Nanomaterials*, **2020**, 10, | 5.4 | 4 |
| 30 | Tailoring metal-oxide-supported PtNi as bifunctional catalysts of superior activity and stability for unitised regenerative fuel cell applications. *Electrochemistry Communications*, **2021**, 124, 106963 | 5.1 | 4 |
| 29 | A Pt/MnV2O6 nanocomposite for the borohydride oxidation reaction. *Journal of Energy Chemistry*, **2021**, 55, 428-436 | 12 | 4 |
| 28 | Electroanalytical sensing of trace amounts of As(III) in water resources by Gold□Rare Earth alloys. *Journal of Electroanalytical Chemistry*, **2020**, 872, 114232 | 4.1 | 3 |
| 27 | Carbon-Supported Trimetallic Catalysts (PdAuNi/C) for Borohydride Oxidation Reaction. *Nanomaterials*, **2021**, 11, | 5.4 | 3 |
| 26 | Ionic Liquid-Derived Carbon-Supported Metal Electrocatalysts as Anodes in Direct Borohydride-Peroxide Fuel Cells. *Catalysts*, **2021**, 11, 632 | 4 | 3 |
| 25 | Enhanced borohydride oxidation kinetics at gold-rare earth alloys. *Journal of Alloys and Compounds*, **2021**, 857, 158273 | 5.7 | 3 |
| 24 | Facile Preparation and High Activity of TiO2 Nanotube Arrays toward Oxygen Reduction in Alkaline Media. *Journal of the Electrochemical Society*, **2018**, 165, J3253-J3258 | 3.9 | 3 |
| 23 | Tailoring gold-conducting polymer nanocomposites for sensors applications: Proof of concept for As(III) sensing in aqueous media. *Synthetic Metals*, **2021**, 278, 116834 | 3.6 | 3 |

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| 22 | Performance of Au/Ti and Au/TiO2 Nanotube Array Electrodes for Borohydride Oxidation and Oxygen Reduction Reaction in Alkaline Media. *Electroanalysis*, **2020**, 32, 1867-1874 | 3 | 2 |
| 21 | Electroanalytical Sensing of Bromides Using Radiolytically Synthesized Silver Nanoparticle Electrocatalysts. *Journal of Analytical Methods in Chemistry*, **2017**, 2017, 2028417 | 2 | 2 |
| 20 | Toward Tailoring of Electrolyte Additives for Efficient Alkaline Water Electrolysis: Salicylate-Based Ionic Liquids. *ACS Applied Energy Materials*, **2018**, 1, 4731-4742 | 6.1 | 2 |
| 19 | Evaluation of silver-incorporating zeolites as bifunctional electrocatalysts for direct borohydride fuel cells. *New Journal of Chemistry*, **2019**, 43, 14270-14280 | 3.6 | 2 |
| 18 | Investigation of Nickel-Rare Earth Electrodes for Sodium Borohydride Electrooxidation. *ECS Transactions*, **2014**, 64, 1095-1102 | 1 | 2 |
| 17 | La2NiO4 Ceramic Electrodes for Hydrogen Peroxide Electroreduction. *ECS Transactions*, **2014**, 64, 1049-1057 | 1 | 2 |
| 16 | Electrochemical Determination of Manganese Solubility in Mercury via Amalgamation and Stripping in the Room Temperature Ionic Liquid n-Hexyltriethylammonium Bis(trifluoromethanesulfonyl)imide, [N6,2,2,2][NTf2]. *Electroanalysis*, **2008**, 20, 2603-2607 | 3 | 2 |
| 15 | Glass-like carbon, pyrolytic graphite or nanostructured carbon for electrochemical sensing of bismuth ion?. *Processing and Application of Ceramics*, **2016**, 10, 87-95 | 1.4 | 2 |
| 14 | 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 | 6.7 | 2 |
| 13 | Nickel-Rare Earth (RE = Ce, Sm, Dy) Electrodes for H2O2 Reduction in Fuel Cells. *ECS Transactions*, **2016**, 72, 31-40 | 1 | 2 |
| 12 | Palladium-nickel on tin oxide-carbon composite supports for electrocatalytic hydrogen evolution. *Catalysis Today*, **2020**, 357, 302-310 | 5.3 | 2 |
| 11 | Direct borohydride fuel cells (DBFCs) **2021**, 203-232 | | 2 |
| 10 | Reduced Graphene Oxide-Supported Bimetallic M-Platinum (M: Co, Ni, Cu) Alloy Nanoparticles for Hydrogen Evolution Reaction. *ECS Transactions*, **2018**, 86, 701-710 | 1 | 2 |
| 9 | Body Ni-Doped Glassy Carbon: Physical and Electrochemical Characterization. *Materials Science Forum*, **2004**, 453-454, 103-108 | 0.4 | 1 |
| 8 | Analysis of the growth characteristics of a 450-year-old silver fir tree. *Archives of Biological Sciences*, **2015**, 67, 155-160 | 0.7 | 1 |
| 7 | Effect of RTILs on the Hydrogen Evolution Reaction in Alkaline Media. *ECS Transactions*, **2016**, 72, 23-29 | 1 | 1 |
| 6 | 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 | 5.7 | 1 |
| 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**, | 6.7 | 1 |

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| 4 | Steps towards highly-efficient water splitting and oxygen reduction using nanostructured Ni(OH).. *RSC Advances*, **2022**, 12, 10020-10028 | 3.7 | 0 |
| 3 | 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**, 140603 | 6.7 | 0 |
| 2 | 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 | 2.8 | |
| 1 | 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) 204214]. *Journal of Alloys and Compounds*, **2021**, 884, 161309 | 5.7 | |