

# Katlin I B Eguiluz

## List of Publications by Year in descending order

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99  
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2,005  
citations

201674

27  
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330143

37  
g-index

100  
all docs

100  
docs citations

100  
times ranked

2152  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fullerene applications in fuel cells: A review. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 17944-17959.	7.1	90
2	Boron-doped diamond powder as catalyst support for fuel cell applications. <i>Electrochemistry Communications</i> , 2007, 9, 59-64.	4.7	73
3	Vinasse degradation using <i>Pleurotus sajor-caju</i> in a combined biological & Electrochemical oxidation treatment. <i>Separation and Purification Technology</i> , 2018, 192, 287-296.	7.9	61
4	Carbon black supported Au-Pd core-shell nanoparticles within a dihexadecylphosphate film for the development of hydrazine electrochemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2018, 256, 535-542.	7.8	59
5	AuPd/C core-shell and alloy nanoparticles with enhanced catalytic activity toward the electro-oxidation of ethanol in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2019, 251, 313-325.	20.2	57
6	Developments in electrode materials for wastewater treatment. <i>Current Opinion in Electrochemistry</i> , 2021, 26, 100663.	4.8	55
7	Platinum-tin/carbon catalysts for ethanol oxidation: Influence of Sn content on the electroactivity and structural characteristics. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 12674-12686.	7.1	45
8	Electrochemical mineralization of cephalixin using a conductive diamond anode: A mechanistic and toxicity investigation. <i>Chemosphere</i> , 2017, 168, 638-647.	8.2	43
9	Enhanced stability and electrocatalytic properties of Ti/Ru Ir <sub>1</sub> O <sub>2</sub> anodes produced by a new laser process. <i>Chemical Engineering Journal</i> , 2019, 355, 439-447.	12.7	43
10	Effect of the catalyst composition in the Pt <sub>x</sub> (Ru-Ir) <sub>1-x</sub> /C system on the electro-oxidation of methanol in acid media. <i>Journal of Power Sources</i> , 2008, 179, 42-49.	7.8	42
11	Synthesis and characterization of highly active Pb <sub>x</sub> @Pt <sub>y</sub> /C core-shell nanoparticles toward glycerol electrooxidation. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 38-48.	20.2	42
12	Pt-Sn/C catalysts prepared by sodium borohydride reduction for alcohol oxidation in fuel cells: Effect of the precursor addition order. <i>Journal of Power Sources</i> , 2014, 268, 225-232.	7.8	38
13	Highly active Pt <sub>3</sub> Rh/C nanoparticles towards ethanol electrooxidation. Influence of the catalyst structure. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 113-127.	20.2	38
14	The processes involved in the Se electrodeposition and dissolution on Au electrode: the H <sub>2</sub> Se formation. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 679-686.	2.5	37
15	Development of Ti/(RuO <sub>2</sub> ) <sub>0.8</sub> (MO <sub>2</sub> ) <sub>0.2</sub> (M=Ce, Sn or Ir) anodes for atrazine electro-oxidation. Influence of the synthesis method. <i>Materials Letters</i> , 2015, 146, 4-8.	2.6	37
16	Wet chemical synthesis of rare earth-doped barium titanate nanoparticles. <i>Journal of Materials Science</i> , 2016, 51, 4709-4727.	3.7	35
17	Influence of the doping level of boron-doped diamond anodes on the removal of penicillin G from urine matrixes. <i>Science of the Total Environment</i> , 2020, 736, 139536.	8.0	35
18	Effective removal of Orange-G azo dye from water by electro-Fenton and photoelectro-Fenton processes using a boron-doped diamond anode. <i>Separation and Purification Technology</i> , 2016, 160, 145-151.	7.9	34

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19	Electroanalytical sensing of indigo carmine dye in water samples using a cathodically pretreated boron-doped diamond electrode. <i>Journal of Electroanalytical Chemistry</i> , 2016, 769, 28-34.	3.8	33
20	Improved ethanol electro-oxidation at Ni@Pd/C and Ni@PdRh/C core-shell catalysts. <i>Journal of Catalysis</i> , 2020, 391, 175-189.	6.2	33
21	Pt and Pt-Rh nanowires supported on carbon and SnO <sub>2</sub> :Sb nanoparticles for ethanol electrochemical oxidation in acidic media. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 178-188.	7.1	32
22	New laser-based method for the synthesis of stable and active Ti/SnO <sub>2</sub> -Sb anodes. <i>Electrochimica Acta</i> , 2020, 332, 135478.	5.2	31
23	Novel eco-friendly method to prepare Ti/RuO <sub>2</sub> -IrO <sub>2</sub> anodes by using polyvinyl alcohol as the solvent. <i>Journal of Electroanalytical Chemistry</i> , 2020, 859, 113822.	3.8	31
24	Influence of the calcination temperature and ionic liquid used during synthesis procedure on the physical and electrochemical properties of Ti/(RuO <sub>2</sub> ) <sub>0.8</sub> (Sb <sub>2</sub> O <sub>4</sub> ) <sub>0.2</sub> anodes. <i>Journal of Electroanalytical Chemistry</i> , 2018, 829, 116-128.	3.8	30
25	Microwave synthesis of Ti/(RuO <sub>2</sub> ) <sub>0.5</sub> (IrO <sub>2</sub> ) <sub>0.5</sub> anodes: Improved electrochemical properties and stability. <i>Journal of Electroanalytical Chemistry</i> , 2020, 874, 114460.	3.8	30
26	The influence of the synthesis method of Ti/RuO <sub>2</sub> electrodes on their stability and catalytic activity for electrochemical oxidation of the pesticide carbaryl. <i>Materials Chemistry and Physics</i> , 2014, 148, 39-47.	4.0	29
27	Unexpected Enhancement of Electrocatalytic Nature of Ti/(RuO <sub>2</sub> ) <sub>2</sub> (Sb <sub>2</sub> O <sub>5</sub> ) <sub>5</sub> Anodes Prepared by the Ionic Liquid-Thermal Decomposition Method. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 3182-3187.	3.7	28
28	Influence of heating rate on the physical and electrochemical properties of mixed metal oxides anodes synthesized by thermal decomposition method applying an ionic liquid. <i>Journal of Electroanalytical Chemistry</i> , 2018, 813, 127-133.	3.8	28
29	Alachlor removal performance of Ti/Ru <sub>0.3</sub> Ti <sub>0.7</sub> O <sub>2</sub> anodes prepared from ionic liquid solution. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1571-1580.	2.5	28
30	Synthesis, Characterization, and Electrocatalytic Activity toward Methanol Oxidation of Carbon-Supported Pt <sub>x</sub> (RuO <sub>2</sub> -M) <sub>1-x</sub> Composite Ternary Catalysts (M = CeO <sub>2</sub> , MoO <sub>3</sub> , or PbO <sub>x</sub> ). <i>Energy &amp; Fuels</i> , 2010, 24, 4012-4024.	5.1	27
31	Photoelectrolysis of clopyralid wastes with a novel laser-prepared MMO-RuO <sub>2</sub> TiO <sub>2</sub> anode. <i>Chemosphere</i> , 2020, 244, 125455.	8.2	27
32	Time and calcination temperature influence on the electrocatalytic efficiency of Ti/SnO <sub>2</sub> :Sb(5%),Gd(2%) electrodes towards the electrochemical oxidation of naphthalene. <i>Journal of Electroanalytical Chemistry</i> , 2018, 816, 232-241.	3.8	24
33	Novel Ti/RuO <sub>2</sub> IrO <sub>2</sub> anode to reduce the dangerousness of antibiotic polluted urines by Fenton-based processes. <i>Chemosphere</i> , 2021, 270, 129344.	8.2	24
34	Square-wave voltammetric determination of rosuvastatin calcium in pharmaceutical and biological fluid samples using a cathodically pretreated boron-doped diamond electrode. <i>Diamond and Related Materials</i> , 2015, 58, 103-109.	3.9	23
35	Testing the role of electrode materials on the electro-Fenton and photoelectro-Fenton degradation of clopyralid. <i>Journal of Electroanalytical Chemistry</i> , 2020, 871, 114291.	3.8	23
36	Lignin-modifying enzymes: a green and environmental responsive technology for organic compound degradation. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 327-342.	3.2	23

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37	Influence of the annealing temperature and metal salt precursor on the structural characteristics and anti-corrosion barrier effect of CeO <sub>2</sub> sol-gel protective coatings of carbon steel. <i>Ceramics International</i> , 2014, 40, 13437-13446.	4.8	22
38	Sn@Pt and Rh@Pt core-shell nanoparticles synthesis for glycerol oxidation. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 139-150.	2.9	22
39	Enhancement of wastewater treatment using novel laser-made Ti/SnO <sub>2</sub> -Sb anodes with improved electrocatalytic properties. <i>Chemosphere</i> , 2020, 259, 127475.	8.2	22
40	The influence of different co-catalysts in Pt-based ternary and quaternary electro-catalysts on the electro-oxidation of methanol and ethanol in acid media. <i>Journal of Electroanalytical Chemistry</i> , 2012, 668, 13-25.	3.8	21
41	Testing and scaling-up of a novel Ti/Ru <sub>0.7</sub> Ti <sub>0.3</sub> O <sub>2</sub> mesh anode in a microfluidic flow-through reactor. <i>Chemical Engineering Journal</i> , 2020, 398, 125568.	12.7	21
42	Characterization and comparison of Ti/TiO <sub>2</sub> -NT/SnO <sub>2</sub> -SbBi, Ti/SnO <sub>2</sub> -SbBi and BDD anode for the removal of persistent iodinated contrast media (ICM). <i>Chemosphere</i> , 2020, 253, 126701.	8.2	21
43	Study of electrooxidation and enhanced voltammetric determination of $\beta$ -blocker pindolol using a boron-doped diamond electrode. <i>Diamond and Related Materials</i> , 2018, 82, 109-114.	3.9	20
44	Electrochemical systems equipped with 2D and 3D microwave-made anodes for the highly efficient degradation of antibiotics in urine. <i>Electrochimica Acta</i> , 2021, 392, 139012.	5.2	20
45	Sequence-specific electrochemical detection of <i>Alicyclobacillus acidoterrestris</i> DNA using electroconductive polymer-modified fluorine tin oxide electrodes. <i>Analyst</i> , 2009, 134, 314-319.	3.5	19
46	Outstanding performance of the microwave-made MMO-Ti/RuO <sub>2</sub> IrO <sub>2</sub> anode on the removal of antimicrobial activity of Penicillin G by photoelectrolysis. <i>Chemical Engineering Journal</i> , 2021, 420, 129999.	12.7	19
47	Electrochemical and/or microbiological treatment of pyrolysis wastewater. <i>Chemosphere</i> , 2017, 185, 145-151.	8.2	18
48	Electrochemical oxidation of indanthrene blue dye in a filter-press flow reactor and toxicity analyses with <i>Raphidocelis subcapitata</i> and <i>Lactuca sativa</i> . <i>Ecotoxicology and Environmental Safety</i> , 2020, 198, 110659.	6.0	18
49	Ternary dimensionally stable anodes composed of RuO <sub>2</sub> and IrO <sub>2</sub> with CeO <sub>2</sub> , SnO <sub>2</sub> , or Sb <sub>2</sub> O <sub>3</sub> for efficient naphthalene and benzene electrochemical removal. <i>Journal of Applied Electrochemistry</i> , 2017, 47, 547-561.	2.9	17
50	Superior ethanol electrooxidation activity of Pd supported on Ni(OH) <sub>2</sub> /C. The effect of Ni(OH) <sub>2</sub> nanosheets content. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114683.	3.8	16
51	Influence of the RuO <sub>2</sub> layer thickness on the physical and electrochemical properties of anodes synthesized by the ionic liquid method. <i>Electrochimica Acta</i> , 2020, 354, 136625.	5.2	16
52	Electrodeposition and characterization of undoped and nitrogen-doped ZnSe films. <i>Materials Chemistry and Physics</i> , 2010, 121, 58-62.	4.0	15
53	Effects of temperature and heating method on the performance of Ti/Ru <sub>0.25</sub> Ir <sub>0.25</sub> Ti <sub>0.5</sub> O <sub>2</sub> anodes applied toward Bisphenol S removal. <i>Electrochimica Acta</i> , 2020, 364, 137273.	5.2	15
54	Improving biodegradability of clopyralid wastes by photoelectrolysis: The role of the anode material. <i>Journal of Electroanalytical Chemistry</i> , 2020, 864, 114084.	3.8	15

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55	Improved electrocatalytic activity of Pt supported onto Fe-doped TiO <sub>2</sub> toward ethanol oxidation in acid media. <i>Materials Chemistry and Physics</i> , 2020, 245, 122753.	4.0	14
56	Effect of temperature on the ethanol electrooxidation at PtNi <sub>rich</sub> @Pt <sub>rich</sub> Ni/C catalyst in acidic and alkaline media. <i>Journal of Electroanalytical Chemistry</i> , 2020, 857, 113754.	3.8	13
57	Realising the activity benefits of Pt preferential (111) surfaces for ethanol oxidation in a nanowire electrocatalyst. <i>Electrochimica Acta</i> , 2020, 348, 136206.	5.2	13
58	Towards a higher photostability of ZnO photo-electrocatalysts in the degradation of organics by using MMO substrates. <i>Chemosphere</i> , 2021, 271, 129451.	8.2	13
59	Photoelectrocatalytic degradation of indanthrene blue dye using Ti/Ru-based electrodes prepared by a modified Pechini method. <i>Journal of the Brazilian Chemical Society</i> , 2013, 24, 459-472.	0.6	12
60	An Eco-Friendly Method of BaTiO <sub>3</sub> Nanoparticle Synthesis Using Coconut Water. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-7.	2.7	11
61	Enhanced HCB removal using bacteria from mangrove as post-treatment after electrochemical oxidation using a laser-prepared Ti/RuO <sub>2</sub> @IrO <sub>2</sub> @TiO <sub>2</sub> anode. <i>Chemosphere</i> , 2021, 279, 130875.	8.2	11
62	Environmentally friendly sol - gel-based anticorrosive coatings on aluminum alloy 2024. <i>Materials Research</i> , 2013, 16, 1315-1324.	1.3	10
63	Influence of synthesis conditions on the properties of electrochemically synthesized BaTiO <sub>3</sub> nanoparticles. <i>Ceramics International</i> , 2014, 40, 3603-3609.	4.8	10
64	Morphological dependence of silver electrodeposits investigated by changing the ionic liquid solvent and the deposition parameters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7242-7250.	2.8	10
65	Carbon-Supported Pt and Pt@Ir Nanowires for Methanol Electro-Oxidation in Acidic Media. <i>Catalysis Letters</i> , 2019, 149, 2614-2626.	2.6	10
66	Improved 4-nitrophenol removal at Ti/RuO <sub>2</sub> @Sb <sub>2</sub> O <sub>4</sub> @TiO <sub>2</sub> laser-made anodes. <i>Environmental Science and Pollution Research</i> , 2021, 28, 23634-23646.	5.3	10
67	Ruthenium-tin oxides-coated graphite felt: Enhanced active area and improved efficiency for the electrochemical generation of hydrogen peroxide. <i>Ceramics International</i> , 2015, 41, 10293-10297.	4.8	9
68	Methanol Electro-Oxidation on Carbon-Supported PtRu Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 795-802.	0.9	9
69	Improved carbon dioxide selectivity during ethanol electrooxidation in acid media by Pb@Pt/C and Pb@PtSn/C electrocatalysts. <i>Journal of Electroanalytical Chemistry</i> , 2020, 879, 114741.	3.8	9
70	Ultra-fast synthesis of Ti/Ru <sub>0.3</sub> Ti <sub>0.7</sub> O <sub>2</sub> anodes with superior electrochemical properties using an ionic liquid and laser calcination. <i>Chemical Engineering Journal</i> , 2021, 416, 129011.	12.7	9
71	Synthesis of high-area chemically modified electrodes using microwave heating. <i>Chemical Engineering Communications</i> , 2019, 206, 647-653.	2.6	8
72	Biodegradability improvement of clopyralid wastes through electrolysis using different diamond anodes. <i>Environmental Research</i> , 2020, 188, 109747.	7.5	8

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73	Influence of the Metallic Load of Pt/C and Pt <sub>0.6</sub> -Ru <sub>0.4</sub> /C Nanowires on the Electrochemical Oxidation of Methanol in Acid Medium. <i>International Journal of Electrochemical Science</i> , 2017, 12, 7502-7517.	1.3	7
74	Polyhydroxylated fullerenes: An efficient support for Pt electrocatalysts toward ethanol oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2020, 878, 114663.	3.8	7
75	Recent advances on modified reticulated vitreous carbon for water and wastewater treatment – A mini-review. <i>Chemosphere</i> , 2022, 286, 131573.	8.2	7
76	Tratamentos dos efluentes gerados na produção de biodiesel. <i>Quimica Nova</i> , 2012, 35, 367-378.	0.3	6
77	Indanthrene Blue Dye Degradation by UV/H <sub>2</sub> O <sub>2</sub> Process: H <sub>2</sub> O <sub>2</sub> as a Single or Fractioned Aliquot?. <i>Environmental Engineering Science</i> , 2015, 32, 930-937.	1.6	6
78	Synthesis and characterization of ternary metallic oxide electrodes containing (SnO <sub>2</sub> ) <sub>93</sub> Sb <sub>5</sub> M <sub>2</sub> (M = Ce, Ta, Bi, Gd) using an ionic liquid as the precursor solvent. <i>Chemical Engineering Communications</i> , 2020, 207, 1736-1754.	2.6	6
79	Ti/Ru <sub>0.7</sub> Mo <sub>0.3</sub> O <sub>2</sub> (M = Ir or Ti) anodes made by Pechini and ionic liquid methods: Uneven catalytic activity and stability. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115461.	3.8	6
80	Template-made tailored mesoporous Ti/SnO <sub>2</sub> -Sb <sub>2</sub> O <sub>5</sub> -IrO <sub>2</sub> anodes with enhanced activity towards dye removal. <i>Journal of Electroanalytical Chemistry</i> , 2022, 910, 116153.	3.8	6
81	Toward efficient electrocatalytic degradation of iohexol using active anodes: A laser-made versus commercial anodes. <i>Chemosphere</i> , 2022, 299, 134350.	8.2	6
82	Microwave-prepared Ti/RuO <sub>2</sub> -IrO <sub>2</sub> anodes: Influence of IrO <sub>2</sub> content on atrazine removal. <i>Electrochimica Acta</i> , 2022, 426, 140782.	5.2	6
83	Outstanding electro-catalytic activity of Pt <sub>x</sub> (Ru <sub>y</sub> CeO <sub>2</sub> ) <sub>1-x</sub> /C composites towards ethanol oxidation in acid media. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 953-965.	2.9	5
84	Electroflotation. , 2018, , 77-118.		4
85	Synthesis of Ni@SiO <sub>2</sub> /C Supported Platinum Catalysts for Improved Electrochemical Activity Towards Ethanol Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4590-4598.	0.9	4
86	Understanding the effect of the high hydrophobicity of the laser-prepared Ti/SnO <sub>2</sub> @Sb@La <sub>2</sub> O <sub>3</sub> anode on its electrocatalytic properties. <i>Materials Advances</i> , 2021, 2, 4016-4028.	5.4	4
87	Influence of the composition and morphology of PdNiFe/C nanocatalysts toward ethanol oxidation. <i>Chemical Physics Letters</i> , 2022, 801, 139745.	2.6	4
88	High-Area Ti/Pt Electrodes for the Electrochemically Catalyzed Transesterification of Soybean Oil with Methanol. <i>Chemical Engineering Communications</i> , 2015, 202, 1406-1413.	2.6	3
89	A Comparative Study of the Catalytic Performance of Pt-Based Bi and Trimetallic Nanocatalysts Towards Methanol, Ethanol, Ethylene Glycol, and Glycerol Electro-Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 6274-6285.	0.9	3
90	Agro-industrial Wastes: Environmental Toxicology, Risks, and Biological Treatment Approaches. <i>Microorganisms for Sustainability</i> , 2019, , 1-23.	0.7	3

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91	The Effect of Pt Loading on Catalytic Activity of Pb <sub>0.25</sub> @Pt <sub>x</sub> /C Nanocomposites Toward Ethanol Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 878-889.	0.9	3
92	Scale-up of Ru-based mesh anodes for the degradation of synthetic hospital wastewater. <i>Separation and Purification Technology</i> , 2022, 285, 120260.	7.9	3
93	Pt nanowires as electrocatalysts for proton-exchange membrane fuel cells applications: A review. <i>Journal of Electroanalytical Chemistry</i> , 2022, 910, 116185.	3.8	3
94	Photoelectrocatalytic Degradation of Indanthrene Blue Dye using Ti/Ru-Based Electrodes Prepared by a Modified Pechini Method. <i>Journal of the Brazilian Chemical Society</i> , 2013, , .	0.6	2
95	Electrochemical Synthesis of La-Doped BaTiO <sub>3</sub> Nanopowders. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 1033-1038.	0.9	1
96	Estudo da eletrocristaliza�o de Ni e Ni-P sobre ultramicroeletrodo de platina. <i>Quimica Nova</i> , 2008, 31, 1150-1155.	0.3	1
97	Ultramicroelectrode Array Behavior of Electrochemically Partially Blocked Boron-Doped Diamond Surface. <i>Journal of the Brazilian Chemical Society</i> , 2013, , .	0.6	1
98	Environmental Biotechnology. <i>Revista Peruana De Biologia</i> , 2020, 27, 043-048.	0.3	1
99	Green Technologies for the Treatment of Pharmaceutical Contaminants in Wastewaters. <i>Microorganisms for Sustainability</i> , 2020, , 1-20.	0.7	0