

# Paweł, J Kulesza

## List of Publications by Year in descending order

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228  
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8,338  
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36203

51  
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60497

81  
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235  
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235  
docs citations

235  
times ranked

7172  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal oxide photoanodes for solar hydrogen production. <i>Journal of Materials Chemistry</i> , 2008, 18, 2298.	6.7	460
2	Electron Hopping Conductivity and Vapor Sensing Properties of Flexible Network Polymer Films of Metal Nanoparticles. <i>Journal of the American Chemical Society</i> , 2002, 124, 8958-8964.	6.6	328
3	Hybrid organic-inorganic nanocomposite materials for application in solid state electrochemical supercapacitors. <i>Electrochemistry Communications</i> , 2003, 5, 149-153.	2.3	226
4	Polyoxometallate-Based Layered Composite Films on Electrodes: Preparation Through Alternate Immersions in Modification Solutions. <i>Journal of the Electrochemical Society</i> , 1994, 141, 140-147.	1.3	211
5	Electrocatalysis at a novel electrode coating of nonstoichiometric tungsten(VI,V) oxide aggregates. <i>Journal of the American Chemical Society</i> , 1988, 110, 4905-4913.	6.6	163
6	Electrocatalytic oxidation and determination of arsenic(III) on a glassy carbon electrode modified with a thin film of mixed-valent ruthenium(III, II) cyanide. <i>Analytical Chemistry</i> , 1984, 56, 1021-1025.	3.2	160
7	Network Films Composed of Conducting Polymer-Linked and Polyoxometalate-Stabilized Platinum Nanoparticles. <i>Chemistry of Materials</i> , 2004, 16, 4128-4134.	3.2	148
8	Electrochemical Charging, Countercation Accommodation, and Spectrochemical Identity of Microcrystalline Solid Cobalt Hexacyanoferrate. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1870-1876.	1.2	147
9	In Situ FT-IR/ATR Spectroelectrochemistry of Prussian Blue in the Solid State. <i>Analytical Chemistry</i> , 1996, 68, 2442-2446.	3.2	140
10	Electrocatalytic properties of bifunctional Pt/W(VI,V) oxide microstructures electrodeposited on carbon substrates. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 259, 81-98.	0.3	126
11	Top-Down Approach for the Preparation of Colloidal Carbon Nanoparticles. <i>Chemistry of Materials</i> , 2004, 16, 2984-2986.	3.2	114
12	Electroanalysis with electrodes modified by inorganic films. <i>Electroanalysis</i> , 1991, 3, 869-877.	1.5	111
13	Application of chelate-forming resin and modified glassy carbon electrode for selective determination of iron(III) by liquid chromatography with electrochemical detection. <i>Analytical Chemistry</i> , 1987, 59, 2776-2780.	3.2	104
14	Electrocatalytic properties of conducting polymer based composite film containing dispersed platinum microparticles towards oxidation of methanol. <i>Electrochimica Acta</i> , 1999, 44, 2131-2137.	2.6	104
15	Polyoxometallates as inorganic templates for monolayers and multilayers of ultrathin polyaniline. <i>Electrochemistry Communications</i> , 2002, 4, 510-515.	2.3	103
16	Electrolyte-cation-dependent coloring, electrochromism and thermochromism of cobalt(II) hexacyanoferrate(III, II) films. <i>Journal of Electroanalytical Chemistry</i> , 1995, 397, 287-292.	1.9	102
17	Fabrication of network films of conducting polymer-linked polyoxometalate-stabilized carbon nanostructures. <i>Electrochimica Acta</i> , 2006, 51, 2373-2379.	2.6	101
18	Electrocatalytic oxidation of small organic molecules in acid medium: Enhancement of activity of noble metal nanoparticles and their alloys by supporting or modifying them with metal oxides. <i>Electrochimica Acta</i> , 2013, 110, 474-483.	2.6	99

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19	Quartz crystal microbalance monitoring of mass transport during redox processes of cyanometallate modified electrodes: complex charge transport in nickel hexacyanoferrate films. <i>Electrochimica Acta</i> , 2000, 45, 3777-3784.	2.6	96
20	Solar-Driven Water Oxidation and Decoupled Hydrogen Production Mediated by an Electron-Coupled-Proton Buffer. <i>Journal of the American Chemical Society</i> , 2016, 138, 6707-6710.	6.6	95
21	A polynuclear mixed-valent ruthenium oxide/cyanoruthenate composite that yields thin coatings on a glassy carbon electrode with high catalytic activity toward methanol oxidation. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1987, 220, 295-309.	0.3	94
22	Pd nanoparticles supported on HPMo-PDDA-MWCNT and their activity for formic acid oxidation reaction of fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8508-8517.	3.8	89
23	Electrochemical preparation and characterization of hybrid films composed of Prussian blue type metal hexacyanoferrate and conducting polymer. <i>Electrochimica Acta</i> , 2001, 46, 4065-4073.	2.6	87
24	Electroreduction of oxygen at polyoxometallate-modified glassy carbon-supported Pt nanoparticles. <i>Journal of Power Sources</i> , 2006, 159, 802-809.	4.0	87
25	Electrochemical preparation and characterization of electrodes modified with mixed hexacyanoferrates of nickel and palladium. <i>Journal of Electroanalytical Chemistry</i> , 2000, 487, 57-65.	1.9	83
26	Integration of solid-state dye-sensitized solar cell with metal oxide charge storage material into photoelectrochemical capacitor. <i>Journal of Power Sources</i> , 2013, 234, 91-99.	4.0	83
27	Evaluation of polyaniline films containing traces of dispersed platinum for protection of stainless steel against corrosion. <i>Electrochimica Acta</i> , 1999, 44, 2157-2163.	2.6	82
28	Improved capacitance characteristics during electrochemical charging of carbon nanotubes modified with polyoxometallate monolayers. <i>Electrochimica Acta</i> , 2008, 53, 3862-3869.	2.6	82
29	Influence of experimental conditions on electrochemical behavior of Prussian blue type nickel hexacyanoferrate film. <i>Electrochimica Acta</i> , 2003, 48, 4261-4269.	2.6	81
30	Tungsten Oxides as Active Supports for Highly Dispersed Platinum Microcenters: Electrocatalytic Reactivity Toward Reduction of Hydrogen Peroxide and Oxygen. <i>Journal of the Electrochemical Society</i> , 1997, 144, 1911-1917.	1.3	79
31	Modification of Pt nanoparticles with polyoxometallate monolayers: Competition between activation and blocking of reactive sites for the electrocatalytic oxygen reduction. <i>Electrochimica Acta</i> , 2007, 52, 5574-5581.	2.6	79
32	Electrodeposition and Characterization of Three-Dimensional Tungsten(VI, V) Oxide Films Containing Spherical Pt Microparticles. <i>Journal of the Electrochemical Society</i> , 1989, 136, 707-713.	1.3	74
33	Phosphomolybdate-modified multi-walled carbon nanotubes as effective mediating systems for electrocatalytic reduction of bromate. <i>Analytica Chimica Acta</i> , 2009, 631, 153-160.	2.6	73
34	Review—Copper Oxide-Based Ternary and Quaternary Oxides: Where Solid-State Chemistry Meets Photoelectrochemistry. <i>Journal of the Electrochemical Society</i> , 2018, 165, H3192-H3206.	1.3	70
35	Solid-State Voltammetry—Analytical Prospects. <i>Electroanalysis</i> , 1998, 10, 73-80.	1.5	67
36	Electrochromic features of hybrid films composed of polyaniline and metal hexacyanoferrate. <i>Electrochimica Acta</i> , 2001, 46, 4371-4378.	2.6	67

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37	Polyoxometallates as inorganic templates for electrocatalytic network films of ultra-thin conducting polymers and platinum nanoparticles. <i>Bioelectrochemistry</i> , 2005, 66, 79-87.	2.4	67
38	ABTS-Modified Multiwalled Carbon Nanotubes as an Effective Mediating System for Bioelectrocatalytic Reduction of Oxygen. <i>Analytical Chemistry</i> , 2008, 80, 7643-7648.	3.2	66
39	Solid-state electrochemistry of iron hexacyanoferrate (Prussian Blue type) powders. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 289, 103-116.	0.3	65
40	Enhanced Water Splitting at Thin Film Tungsten Trioxide Photoanodes Bearing Plasmonic Gold-Polyoxometalate Particles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14196-14200.	7.2	65
41	Electrochemical preparation of electrodes modified with non-stoichiometric mixed-valent tungsten(VI, V) oxides. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 248, 305-320.	0.3	64
42	The membrane properties of Prussian Blue films on electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 274, 95-105.	0.3	63
43	Non-aqueous gel polymer electrolyte with phosphoric acid ester and its application for quasi solid-state supercapacitors. <i>Journal of Power Sources</i> , 2015, 274, 1147-1154.	4.0	62
44	Spectroelectrochemical characterization of cobalt hexacyanoferrate films in potassium salt electrolyte. <i>Electrochimica Acta</i> , 1998, 43, 919-923.	2.6	61
45	Combination of Asymmetric Supercapacitor Utilizing Activated Carbon and Nickel Oxide with Cobalt Polypyridyl-Based Dye-Sensitized Solar Cell. <i>Electrochimica Acta</i> , 2014, 143, 390-397.	2.6	61
46	Indium(III)-hexacyanoferrate as a novel polynuclear mixed-valent inorganic material for preparation of thin zeolitic films on conducting substrates. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 252, 461-466.	0.3	60
47	Electrocatalytic reduction of oxygen at electropolymerized films of metalloporphyrins deposited onto multi-walled carbon nanotubes. <i>Electrochimica Acta</i> , 2009, 54, 1954-1960.	2.6	60
48	Hexagonal nanorods of tungsten trioxide: Synthesis, structure, electrochemical properties and activity as supporting material in electrocatalysis. <i>Applied Surface Science</i> , 2011, 257, 8223-8229.	3.1	58
49	Intercalation of metal complex cations in polyoxometallates: formation of composite films with distinct electrocatalytic centers. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1990, 280, 233-240.	0.3	55
50	Electrochemical identity of copper hexacyanoferrate in the solid-state: evidence for the presence and redox activity of both iron and copper ionic sites. <i>Journal of Electroanalytical Chemistry</i> , 2002, 532, 157-164.	1.9	55
51	Solid-state amperometric sensors for gas phase analytes: A review of recent advances. <i>Electroanalysis</i> , 1997, 9, 97-101.	1.5	54
52	Effective Charge Transport in Poly(3,4-ethylenedioxythiophene) Based Hybrid Films Containing Polyoxometalate Redox Centers. <i>Journal of the Electrochemical Society</i> , 2005, 152, E98.	1.3	53
53	Network films of conducting polymer-linked polyoxometalate-modified gold nanoparticles: Preparation and electrochemical characterization. <i>Electrochimica Acta</i> , 2008, 53, 3924-3931.	2.6	52
54	Enhancement of the Electrocatalytic Oxidation of Methanol at Pt-Ru Nanoparticles Immobilized in Different WO <sub>3</sub> Matrices. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, E13.	2.2	51

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55	Solid-state electroanalysis of silicotungstic acid single crystals at an ultramicrodisk electrode. <i>Journal of the American Chemical Society</i> , 1993, 115, 11878-11884.	6.6	49
56	Network electrocatalytic films of conducting polymer-linked polyoxometallate-stabilized platinum nanoparticles. <i>Electrochimica Acta</i> , 2005, 50, 5155-5162.	2.6	49
57	Switching between solid-state electroactivity, coupled with ionic conductivity, and semiconducting or dielectric properties in dry mixed-metal hexacyanoferrate powders. <i>Inorganic Chemistry</i> , 1990, 29, 2395-2397.	1.9	48
58	Electrochemical charging and electrocatalysis at hybrid films of polymer-interconnected polyoxometallate-stabilized carbon submicroparticles. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 168-175.	1.2	47
59	Hybrid Metal Cyanometallates Electrochemical Charging and Spectrochemical Identity of Heteronuclear Nickel/Cobalt Hexacyanoferrate. <i>Journal of the Electrochemical Society</i> , 1999, 146, 3757-3761.	1.3	45
60	Enhanced oxygen reduction at Pd catalytic nanoparticles dispersed onto heteropolytungstate-assembled poly(diallyldimethylammonium)-functionalized carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4400.	1.3	45
61	A new development in polynuclear inorganic films: Silver(I)/crosslinked nickel(II)-hexacyanoferrate(III, II) microstructures. <i>Electrochimica Acta</i> , 1989, 34, 851-853.	2.6	44
62	Spectroelectrochemical identity of Prussian blue films in various electrolytes: comparison of time-derivative voltabsorptometric responses with conventional cyclic voltammetry. <i>Journal of Solid State Electrochemistry</i> , 1997, 1, 88-93.	1.2	44
63	Oxidation of methanol at an electrocatalytic film containing platinum and polynuclear oxocyanoruthenium microcenters dispersed within tungsten oxide matrix. <i>Journal of Electroanalytical Chemistry</i> , 2001, 512, 110-118.	1.9	44
64	Counteranion intercalation and kinetics of charge transport during redox reactions of nickel hexacyanoferrate. <i>Electrochimica Acta</i> , 2004, 49, 4253-4258.	2.6	44
65	Toward Pt-Free Anion-Exchange Membrane Fuel Cells: Fe-Sn Carbon Nitride-Graphene Core-Shell Electrocatalysts for the Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2018, 30, 2651-2659.	3.2	44
66	Enhanced photoelectrochemical CO <sub>2</sub> -reduction system based on mixed Cu <sub>2</sub> O nonstoichiometric TiO <sub>2</sub> photocathode. <i>Catalysis Today</i> , 2018, 300, 145-151.	2.2	44
67	Fabrication of composite coatings of 4-(pyrrole-1-yl) benzoate-modified poly-3,4-ethylenedioxythiophene with phosphomolybdate and their application in corrosion protection. <i>Electrochimica Acta</i> , 2011, 56, 3649-3655.	2.6	43
68	CO <sub>2</sub> Electroreduction at Bare and Cu-Decorated Pd Pseudomorphic Layers: Catalyst Tuning by Controlled and Indirect Supporting onto Au(111). <i>Langmuir</i> , 2014, 30, 14314-14321.	1.6	43
69	Mixed-valence electron hopping, redox conduction and migration effects in solid-state electrochemistry of transition metal hexacyanoferrates. <i>Journal of Electroanalytical Chemistry</i> , 1992, 323, 261-274.	1.9	42
70	Hybrid bioelectrocatalyst for hydrogen peroxide reduction: Immobilization of enzyme within organically inorganic film of structured Prussian Blue and PEDOT. <i>Bioelectrochemistry</i> , 2007, 71, 23-28.	2.4	42
71	Cathodic fabrication of platinum microparticles via anodic dissolution of a platinum counter-electrode: Electrocatalytic probing and surface analysis of dispersed platinum. <i>Journal of Electroanalytical Chemistry</i> , 1992, 336, 35-44.	1.9	41
72	Oxygen permeation through Nafion 117 membrane and its impact on efficiency of polymer membrane ethanol fuel cell. <i>Journal of Power Sources</i> , 2011, 196, 4714-4718.	4.0	40

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73	Protection of Steel Against Corrosion in Aggressive Medium by Surface Modification with Multilayer Polyaniline-Based Composite Film. <i>Journal of the Electrochemical Society</i> , 2003, 150, B249.	1.3	39
74	Voltammetry of phosphotungstic acid immobilized in templated silica gel. <i>Journal of Electroanalytical Chemistry</i> , 1998, 456, 239-243.	1.9	38
75	Enhancement of oxygen reduction by incorporation of heteropolytungstate into the electrocatalytic ink of carbon supported platinum nanoparticles. <i>Electrochimica Acta</i> , 2007, 52, 3958-3964.	2.6	38
76	Solid-state electrochemistry: voltammetric monitoring of redox transitions in single crystals of silicotungstic acid. <i>Journal of the American Chemical Society</i> , 1991, 113, 379-381.	6.6	37
77	Enhancement of catalytic activity of platinum-based nanoparticles towards electrooxidation of ethanol through interfacial modification with heteropolymolybdates. <i>Journal of Power Sources</i> , 2010, 195, 2507-2513.	4.0	37
78	Effective charge propagation and storage in hybrid films of tungsten oxide and poly(3,4-ethylenedioxythiophene). <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 2049-2056.	1.2	37
79	Evaluation of reduced-graphene-oxide-supported gold nanoparticles as catalytic system for electroreduction of oxygen in alkaline electrolyte. <i>Electrochimica Acta</i> , 2017, 233, 113-122.	2.6	35
80	Elucidation of role of graphene in catalytic designs for electroreduction of oxygen. <i>Current Opinion in Electrochemistry</i> , 2018, 9, 257-264.	2.5	35
81	Multi-walled carbon nanotube-supported tungsten oxide-containing multifunctional hybrid electrocatalytic system for oxygen reduction in acid medium. <i>Electrochimica Acta</i> , 2009, 54, 4682-4687.	2.6	34
82	Activation of carbon-supported platinum nanoparticles by zeolite-type cesium salts of polyoxometallates of molybdenum and tungsten towards more efficient electrocatalytic oxidation of methanol and ethanol. <i>Journal of Electroanalytical Chemistry</i> , 2010, 649, 238-247.	1.9	33
83	Application of SECM in tracing of hydrogen peroxide at multicomponent non-noble electrocatalyst films for the oxygen reduction reaction. <i>Catalysis Today</i> , 2013, 202, 55-62.	2.2	33
84	Protective properties of hexacyanoferrate containing polypyrrole films on stainless steel. <i>Corrosion Science</i> , 2005, 47, 771-783.	3.0	32
85	Preparation, spectroscopic characterization and electrochemical charging of the sodium-containing analogue of Prussian Blue. <i>Electrochimica Acta</i> , 1995, 40, 681-688.	2.6	30
86	Activation of dispersed PtSn/C nanoparticles by tungsten oxide matrix towards more efficient oxidation of ethanol. <i>Journal of Power Sources</i> , 2011, 196, 2595-2601.	4.0	30
87	Enhancement of bio-electrocatalytic oxygen reduction at the composite film of cobalt porphyrin immobilized within the carbon nanotube-supported peroxidase enzyme. <i>Electrochimica Acta</i> , 2008, 53, 2408-2415.	2.6	29
88	Admixing palladium nanoparticles with tungsten oxide nanorods toward more efficient electrocatalytic oxidation of formic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 439, 200-206.	2.3	29
89	Reactivity and charge transfer at the tungsten oxide/sulfuric acid interfaces: Nonstoichiometric tungsten(VI,V) oxide films as powerful electroreduction catalysts. <i>Colloids and Surfaces</i> , 1989, 41, 123-134.	0.9	28
90	Electrochemistry of Prussian Blue in silica sol-gel electrolytes doped with polyamidoamine dendrimers. <i>Journal of Solid State Electrochemistry</i> , 2002, 6, 528-533.	1.2	28

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91	Integration of supercapacitors with enzymatic biobatteries toward more effective pulse-powered use in small-scale energy harvesting devices. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 497-507.	1.5	28
92	Polyoxometalate/hydroquinone dual redox electrolyte for hybrid energy storage systems. <i>Energy Storage Materials</i> , 2019, 21, 427-438.	9.5	28
93	Enhancement of activity of platinum towards oxidation of ethanol by supporting on titanium dioxide containing phosphomolybdate-modified gold nanoparticles. <i>Applied Surface Science</i> , 2011, 257, 8205-8210.	3.1	27
94	Hybrid materials utilizing polyelectrolyte-derivatized carbon nanotubes and vanadium-mixed addenda heteropolytungstate for efficient electrochemical charging and electrocatalysis. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1631-1640.	1.2	27
95	Electron Self-Exchange Dynamics of Hexacyanoferrate in Redox Polyether Hybrid Molten Salts Containing Polyether-Tailed Counterions. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5833-5838.	1.2	26
96	Electrochemical characterization of Prussian blue type nickel hexacyanoferrate redox mediator for potential application as charge relay in dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 2545-2552.	1.2	26
97	Solid-state electrochemistry of silicotungstic acid immobilized by sol-gel chemistry. <i>Journal of Solid State Electrochemistry</i> , 1998, 2, 247-252.	1.2	25
98	Oxidation of methanol at the network film of polyoxometallate-linked ruthenium-stabilized platinum nanoparticles. <i>Journal of Solid State Electrochemistry</i> , 2004, 8, 854-860.	1.2	25
99	Formation of ultra-thin prussian blue layer on carbon steel that promotes adherence of hybrid polypyrrole based protective coating. <i>Journal of Solid State Electrochemistry</i> , 2005, 9, 403-411.	1.2	25
100	Influence of polyoxometallate on oxidation state of tin in Pt/Sn nanoparticles and its importance during electrocatalytic oxidation of ethanol – Combined electrochemical and XPS study. <i>Journal of Electroanalytical Chemistry</i> , 2011, 662, 93-99.	1.9	25
101	Fe <sup>III</sup> <sub>48</sub> – Containing 96 Tungsto 16 Phosphate: Synthesis, Structure, Magnetism and Electrochemistry. <i>Chemistry - A European Journal</i> , 2020, 26, 15821-15824.	1.7	25
102	Preparation and electrochemical characterization of O-transfer catalytic centers in thin films of mixed-valence ruthenium oxide cross-linked with cyanide. <i>Journal of Electroanalytical Chemistry</i> , 1992, 323, 131-147.	1.9	24
103	Solid state voltammetric characterization of iron hexacyanoferrate encapsulated in silica. <i>Journal of Solid State Electrochemistry</i> , 2000, 4, 199-204.	1.2	24
104	The effect of modification of carbon electrodes with hybrid inorganic/organic monolayers on morphology and electrocatalytic activity of platinum deposits. <i>Electrochimica Acta</i> , 2001, 46, 4197-4204.	2.6	24
105	Electronic-level interactions of tungsten oxide with unsupported Se/Ru electrocatalytic nanoparticles. <i>Electrochimica Acta</i> , 2010, 55, 7603-7609.	2.6	24
106	Palladium Content Effect on the Electrocatalytic Activity of Palladium – Polypyrrole Nanocomposite for Cathodic Reduction of Oxygen. <i>Electrocatalysis</i> , 2014, 5, 23-40.	1.5	24
107	Electroanalysis of Ethanol Oxidation and Reactivity of Platinum-Ruthenium Catalysts Supported onto Nanostructured Titanium Dioxide Matrices. <i>Journal of the Electrochemical Society</i> , 2016, 163, H3052-H3060.	1.3	24
108	Toward More Efficient Bioelectrocatalytic Oxidation of Ethanol for Amperometric Sensing and Biofuel Cell Technology. <i>Analytical Chemistry</i> , 2012, 84, 9564-9571.	3.2	23

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109	Reduction of carbon dioxide at copper(I) oxide photocathode activated and stabilized by over-coating with oligoaniline. <i>Electrochimica Acta</i> , 2018, 265, 400-410.	2.6	23
110	Preparation and characterization of Ag-intercalated copper hexacyanoferrate films on electrodes. <i>Electroanalysis</i> , 1996, 8, 113-116.	1.5	22
111	Platinization assisted by Keggin-type heteropolytungstates. <i>Electrochimica Acta</i> , 2003, 48, 3797-3804.	2.6	22
112	Preparation and spectroelectrochemical characterization of composite films of poly(3,4-ethylenedioxythiophene) with 4-(pyrrole-1-yl) benzoic acid. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1023-1030.	1.2	22
113	Fabrication of polyoxometallate-modified gold nanoparticles and their utilization as supports for dispersed platinum in electrocatalysis. <i>Electrochimica Acta</i> , 2011, 56, 10744-10750.	2.6	22
114	Hierarchical oxygen reduction reaction electrocatalysts based on FeSn <sub>0.5</sub> species embedded in carbon nitride-graphene based supports. <i>Electrochimica Acta</i> , 2018, 280, 149-162.	2.6	22
115	Enhancement of ethanol oxidation at Pt and PtRu nanoparticles dispersed over hybrid zirconia-rhodium supports. <i>Journal of Power Sources</i> , 2014, 272, 681-688.	4.0	21
116	Evaluation of kinetic constants on porous, non-noble catalyst layers for oxygen reduction – A comparative study between SECM and hydrodynamic methods. <i>Catalysis Today</i> , 2016, 262, 74-81.	2.2	20
117	Carbon Dioxide Electroreduction at Highly Porous Nitrogen and Sulfur Co-Doped Iron-Containing Heterogeneous Carbon Gel. <i>Journal of the Electrochemical Society</i> , 2017, 164, H484-H490.	1.3	20
118	Discrete, Cationic Palladium(II) Oxo Clusters via Metal Ion Incorporation and their Macrocyclic Host-Guest Interactions with Sulfonatocalixarenes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	20
119	Activation of methanol-tolerant carbon-supported RuSex electrocatalytic nanoparticles towards more efficient oxygen reduction. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 915-921.	1.2	19
120	Mixed layered WO <sub>3</sub> /ZrO <sub>2</sub> films (with and without rhodium) as active supports for PtRu nanoparticles: enhancement of oxidation of ethanol. <i>Electrochimica Acta</i> , 2016, 210, 575-587.	2.6	19
121	Electrocatalytic Oxygen Reduction in Alkaline Medium at Graphene-Supported Silver-Iron Carbon Nitride Sites Generated During Thermal Decomposition of Silver Hexacyanoferrate. <i>Electrocatalysis</i> , 2019, 10, 112-124.	1.5	19
122	Films of mixed nickel(II) and thallium(I) hexacyanoferrates(III,II): voltammetric preparation and characterization. <i>Electrochimica Acta</i> , 2001, 46, 4057-4063.	2.6	18
123	Controlled fabrication of multilayered 4-(pyrrole-1-yl) benzoate supported poly(3,4-ethylenedioxythiophene) linked hybrid films of Prussian blue type nickel hexacyanoferrate. <i>Electrochimica Acta</i> , 2007, 53, 1235-1243.	2.6	18
124	Nanocomposite Semi-Solid Redox Ionic Liquid Electrolytes with Enhanced Charge Transport Capabilities for Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2015, 8, 2560-2568.	3.6	18
125	Elucidation of activity of copper and copper oxide nanomaterials for electrocatalytic and photoelectrochemical reduction of carbon dioxide. <i>Current Opinion in Electrochemistry</i> , 2020, 23, 131-138.	2.5	18
126	Solid-state electrochemical cell for characterization of thin films in the absence of liquid electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 1993, 347, 417-423.	1.9	17



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127	Enhancement of the oxidation of methyl formate at multifunctional electrocatalyst composed of Pt/Pd and Pt/Ru nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2007, 600, 80-86.	1.9	17
128	15-Copper(II)-containing 36-tungsto-4-silicates [Cu <sub>15</sub> O <sub>2</sub> (OH) <sub>10</sub> X(A±SiW <sub>9</sub> O <sub>34</sub> ) <sub>4</sub> ] <sup>25±</sup> Dalton Transactions, 2018, 47, 12439-12448.	1.6	17
129	Solid-state electroanalytical characterization of the nonaqueous proton-conducting redox gel containing polyoxometallates. <i>Analytica Chimica Acta</i> , 2005, 536, 275-281.	2.6	16
130	Monitoring of Conductivity Changes in Passive Layers by Scanning Electrochemical Microscopy in Feedback Mode: Localization of Pitting Precursor Sites on Surfaces of Multimetalllic Phase Materials. <i>Analytical Chemistry</i> , 2007, 79, 3996-4005.	3.2	16
131	The effect of Nafion ionomer on electroactivity of palladium-polypyrrole catalysts for oxygen reduction reaction. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 639-653.	1.2	16
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146	Solid-State Electrocatalytic Oxidation of Methanol Vapor. <i>Journal of the Electrochemical Society</i> , 1993, 140, L66-L68.	1.3	11
147	Solid state electrochemical characterization of tungsten oxides and related heteropoly-12-tungstic acid single crystals. <i>Electroanalysis</i> , 1995, 7, 1005-1009.	1.5	11
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150	Carbon supported Pd:Pt nanoparticles for oxygen reduction. The effect of Pd:Pt ratio. <i>Electrochimica Acta</i> , 2016, 222, 1220-1233.	2.6	11
151	Enhancement of oxidative electrocatalytic properties of platinum nanoparticles by supporting onto mixed WO <sub>3</sub> /ZrO <sub>2</sub> matrix. <i>Applied Surface Science</i> , 2016, 388, 616-623.	3.1	11
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155	Microelectrochemical electronic effects in two-layer structures of distinct Prussian blue type metal hexacyanoferrates. <i>Journal of Solid State Electrochemistry</i> , 2004, 8, 868.	1.2	10
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157	Electrocatalytic effects during redox reactions of arsenic at platinum nanoparticles in acid medium: Possibility of preconcentration, electroactive film formation, and detection of As(III) and As(V). <i>Electrochimica Acta</i> , 2019, 319, 499-510.	2.6	10
158	Critical Review "Electrocatalytic Sensors for Arsenic Oxo Species. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037565.	1.3	10
159	Protective properties of redox polymer film deposited on stainless steel. <i>Journal of Solid State Electrochemistry</i> , 2004, 8, 430-434.	1.2	9
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164	Low-Noble-Metal-Loading Hybrid Catalytic System for Oxygen Reduction Utilizing Reduced-Graphene-Oxide-Supported Platinum Aligned with Carbon-Nanotube-Supported Iridium. <i>Catalysts</i> , 2020, 10, 689.	1.6	9
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167	Heteropolytungstate-assisted fabrication and deposition of catalytic silver nanoparticles on different reduced graphene oxide supports: Electroreduction of oxygen in alkaline electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2020, 875, 114694.	1.9	8
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176	Enhancement of Activity of PtRu Nanoparticles Towards Oxidation of Ethanol by Supporting on Poly(diallyldimethylammonium)-Functionalized Carbon Nanotubes and Modification with Phosphomolybdate. <i>Electrocatalysis</i> , 2011, 2, 52-59.	1.5	5
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182	Iodide Electrolyte-Based Hybrid Supercapacitor for Compact Photo-Rechargeable Energy Storage System Utilising Silicon Solar Cells. <i>Energies</i> , 2021, 14, 2708.	1.6	5
183	Stabilization and activation of Pd nanoparticles for efficient CO <sub>2</sub> -reduction: Importance of their generation within supramolecular network of tridentate Schiff-base ligands with N,N coordination sites. <i>Electrochimica Acta</i> , 2021, 388, 138550.	2.6	5
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185	Bacterial-biofilm enhanced design for improved electrocatalytic reduction of oxygen in neutral medium. <i>Electrochimica Acta</i> , 2016, 213, 314-323.	2.6	4
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187	Enhancement of oxidation of dimethyl ether through application of zirconia matrix for immobilization of noble metal catalytic nanoparticles. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 3173-3183.	1.2	4
188	Visible-light-driven CO <sub>2</sub> reduction on dye-sensitized NiO photocathodes decorated with palladium nanoparticles. <i>RSC Advances</i> , 2020, 10, 31680-31690.	1.7	4
189	Activation of bimetallic PtFe nanoparticles with zeolite-type cesium salts of vanadium-substituted polyoxometallates toward electroreduction of oxygen at low Pt loadings for fuel cells. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 3-16.	1.2	4
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193	Electrocatalytic properties of platinum nanocenters electrogenerated at ultra-trace levels within zeolitic phosphododecatungstate cesium salt matrices. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2993-3001.	1.2	3
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200	Multifunctional Nanostructured Materials for Oxidation of Methanol. ECS Transactions, 2013, 53, 1-10.	0.3	1
201	Activation of Platinum-Based Centers through Modification with Metal Oxo Species toward Electrocatalytic Oxidation of Dimethyl Ether and Methanol. ECS Transactions, 2015, 66, 35-44.	0.3	1
202	Enhancement of Activity of Copper Sites Toward Electroreduction of Carbon Dioxide through Hierarchical Deposition of Metal Oxide Cocatalysts. ECS Transactions, 2021, 104, 23-35.	0.3	1
203	Toward Effective CO <sub>2</sub> Reduction in an Acid Medium: Electrocatalysis at Cu <sub>2</sub> O-Derived Polycrystalline Cu Sites Immobilized within the Network of WO <sub>3</sub> Nanowires. ACS Measurement Science Au, 2022, 2, 553-567.	1.9	1
204	The 70th birthday of Zbigniew Galus. Journal of Solid State Electrochemistry, 2004, 8, 681.	1.2	0
205	Comparative Study of Carbon and Conducting Polymer-Based Hybrid Electrochemical Capacitors Using Potassium Iodide Redox Electrolyte. ECS Meeting Abstracts, 2021, MA2021-01, 38-38.	0.0	0
206	Electrocatalytic and Protective Properties of Ruthenium-Derivatized Bacterial Biofilm on Electrodes and Photoelectrodes. ECS Meeting Abstracts, 2021, MA2021-01, 1907-1907.	0.0	0
207	Development of New Cellulose-Based Hydrogel Membranes for Aqueous Electrochemical Capacitors. ECS Meeting Abstracts, 2021, MA2021-01, 1935-1935.	0.0	0
208	Surfactant-Free Preparation of Palladium Nanoparticles: Elucidation of Their Electrocatalytic Activity Toward Reduction of Carbon Dioxide. ECS Meeting Abstracts, 2021, MA2021-01, 1894-1894.	0.0	0
209	(Invited) Enhancement of Oxidation of Dimethyl Ether through Application of Metal-Oxide-Supported Noble Metal Catalytic Nanoparticles: Comparison to Behavior of Other Simple Organic Fuels. ECS Meeting Abstracts, 2021, MA2021-01, 1890-1890.	0.0	0
210	(Invited) Chronocoulometric Approach to Diagnosis of Oxygen Reduction at Low Pt-Content Electrocatalysts. ECS Meeting Abstracts, 2021, MA2021-01, 1899-1899.	0.0	0
211	(Invited) Photoelectrochemical Reduction of CO <sub>2</sub> at Poly(4-vinylpyridine)-Stabilized Copper(I) Oxide Semiconductor Decorated with Palladium Cocatalyst. ECS Meeting Abstracts, 2021, MA2021-01, 1284-1284.	0.0	0
212	(Invited) Interplay between Surface/Porosimetric, Chemical and Electrochemical Characterization of Core-Shell High-Pt ORR Electrocatalysts. ECS Meeting Abstracts, 2021, MA2021-01, 958-958.	0.0	0
213	Organic/Inorganic Hybrid Electrode Materials for Photo-Conversion of Solar Energy. ECS Meeting Abstracts, 2020, MA2020-01, 2562-2562.	0.0	0
214	(Invited) Reduction of Carbon Dioxide and Activation of Nitrogen at Heme Type Porphyrin-Complexes of Iron Existing in Enzymes. ECS Meeting Abstracts, 2021, MA2021-02, 1548-1548.	0.0	0
215	Enhancement of Activity of Copper Sites Toward Electroreduction of Carbon Dioxide through Hierarchical Deposition of Metal Oxide Cocatalysts. ECS Meeting Abstracts, 2021, MA2021-02, 1316-1316.	0.0	0
216	Toward High-Performance and Durable Hierarchical Core-Shell Carbon Nitride Electrocatalysts for the Oxygen Reduction Reaction. ECS Meeting Abstracts, 2021, MA2021-02, 1143-1143.	0.0	0

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217	(Invited) Electrocatalytic Reduction of Highly Inert Redox Probes: Arsenates, Nitrates, Chlorates, As Well As Carbon Dioxide and Nitrogen in Acid Medium. ECS Meeting Abstracts, 2021, MA2021-02, 1537-1537.	0.0	0
218	Hybrid Electrocatalysts Composed of PtSn, Ru or PtRu Nanoparticles for Low-Temperature Oxidation of Dimethyl Ether Fuel. ECS Transactions, 2022, 108, 17-28.	0.3	0
219	(Keynote) A General Electrochemical Formalism for Vanadium Redox Flow Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 2005-2005.	0.0	0
220	Enhancement of Activity Low-Pt-Content O <sub>2</sub> -Reduction Catalysts through Formation of Hybrid Systems with Sub-Stoichiometric Cerium Oxide Nanostructures. ECS Meeting Abstracts, 2022, MA2022-01, 2069-2069.	0.0	0
221	(Invited) Oxygen Reduction at Low-Pt-Content-Catalysts in Acid Media: Development of Systems and Electroanalytical Diagnostic Methodology. ECS Meeting Abstracts, 2022, MA2022-01, 2061-2061.	0.0	0
222	(Invited) Charge Propagation in Highly Concentrated Iodine/Iodide Solutions As Potential Electrolytes for Redox Flow Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 2001-2001.	0.0	0
223	(Invited) Development and Characterization of Polyoxometallate-Based Systems for Aqueous Redox Flow Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 1999-1999.	0.0	0
224	(Invited) Bacterial Biofilms As Active Components of Electrocatalytic and Photoelectrochemical Systems for Reduction of Carbon Dioxide. ECS Meeting Abstracts, 2022, MA2022-01, 1574-1574.	0.0	0
225	A Formalism Adopting Thin-Film Rotating Ring-Disk Electrode Studies to Compare Electrocatalysts for the Oxygen Reduction Reaction (ORR). ECS Meeting Abstracts, 2022, MA2022-01, 2108-2108.	0.0	0
226	Hybrid Electrocatalysts Composed of PtSn, Ru or PtRu Nanoparticles for Low-Temperature Oxidation of Dimethyl Ether Fuel. ECS Meeting Abstracts, 2022, MA2022-01, 1470-1470.	0.0	0
227	Application of Mixed-Metal-Oxides As Active Supports for Dispersed Metal Centers: Enhancement of Electrocatalytic Reduction of Carbon Dioxide. ECS Meeting Abstracts, 2022, MA2022-01, 2085-2085.	0.0	0
228	(Invited) Correlation between the Porosimetric Features, Morphology, <i>in-Situ</i> and <i>in-Situ</i> electrochemical Performance of Hierarchical <i>Core-Shell</i> Carbon Nitride Pt-Alloy ORR Electrocatalysts. ECS Meeting Abstracts, 2022, MA2022-01, 2062-2062.	0.0	0