Karel Bouzek

List of Publications by Year
in descending order

161 papers	5,657 citations	61984 43 h-index	98798 67 g-index
173 all docs	173 docs citations	173 times ranked	4795 citing authors

#	Article	IF	Citations
1	Generalized Poisson-Nernst-Planck-Based Physical Model of the O₂â^£LSMâ^£YSZ Electrode. Journal of the Electrochemical Society, 2022, 169, 044505.	2.9	1
2	Impact of Preparation Method and Y2O3 Content on the Properties of the YSZ Electrolyte. Energies, 2022, 15, 2565.	3.1	4
3	High-temperature PEM fuel cell electrode catalyst layers Part 2: Experimental validation of its effective transport properties. Electrochimica Acta, 2022, 413, 140121.	5.2	5
4	High-temperature PEM fuel cell electrode catalyst layers part 1: Microstructure reconstructed using FIB-SEM tomography and its calculated effective transport properties. Electrochimica Acta, 2022, 413, 140133.	5.2	6
5	Optimization of the membrane electrode assembly for an alkaline water electrolyser based on the catalyst-coated membrane. Journal of Power Sources, 2022, 539, 231476.	7.8	12
6	Effect of phosphoric acid purity on the electrochemically active surface area of Pt-based electrodes. Journal of Electroanalytical Chemistry, 2022, 918, 116450.	3.8	3
7	Methodology of the PEM FC Gas Diffusion Layer Permeability Determination and Its Description Related to the Fuel Cell Flow Field Design. ECS Meeting Abstracts, 2022, MA2022-01, 2402-2402.	0.0	0
8	Electrode degradation mechanisms in capacitive deionisation. Desalination, 2021, 497, 114622.	8.2	7
9	Evaluation of Diaphragms and Membranes as Separators for Alkaline Water Electrolysis. Journal of the Electrochemical Society, 2021, 168, 014510.	2.9	54
10	Quantification of Electrocatalytic Activity of Glassy Carbon Electrode. Electrochimica Acta, 2021, 379, 138177.	5.2	10
11	Electrocatalysts for the hydrogen evolution reaction in alkaline and neutral media. A comparative review. Journal of Power Sources, 2021, 493, 229708.	7.8	151
12	Two-phase mass transfer in porous transport layers of the electrolysis cell based on a polymer electrolyte membrane: Analysis of the limitations. Electrochimica Acta, 2021, 387, 138541.	5.2	12
13	Electrocatalysts for the oxygen evolution reaction in alkaline and neutral media. A comparative review. Journal of Power Sources, 2021, 507, 230072.	7.8	93
14	Anodic Oxidation of Iodobenzene and Iodobenzoic Acids in Acetic Acid Environment â€“ Electrochemical Investigation and Density Functional Theory Study. ChemElectroChem, 2021, 8, 3755-3761.	3.4	3
15	A review on poly(amidoamine) dendrimer encapsulated nanoparticles synthesis and usage in energy conversion and storage applications. Coordination Chemistry Reviews, 2021, 444, 214062.	18.8	24
16	PBI nanofiber mat-reinforced anion exchange membranes with covalently linked interfaces for use in water electrolysers. Journal of Membrane Science, 2021, 640, 119832.	8.2	23
17	Overview: State-of-the Art Commercial Membranes for Anion Exchange Membrane Water Electrolysis. Journal of Electrochemical Energy Conversion and Storage, 2021, 18, .	2.1	160
18	On the influence of porous transport layers parameters on the performances of polymer electrolyte membrane water electrolysis cells. Electrochimica Acta, 2021, 399, 139436.	5.2	25

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19	Current trends in the description of lanthanum-strontium-manganite oxygen electrode reaction mechanism in a high-temperature solid oxide cell. Current Opinion in Electrochemistry, 2021, , 100852.	4.8	5
20	(Invited) Current Density Distribution In a Pilot-Scale Electrodialysis Unit - 3D Mathematical Modeling and Experimental Investigation. ECS Meeting Abstracts, 2021, MA2021-02, 764-764.	0.0	0
21	Salinity gradient power reverse electrodialysis: Cation exchange membrane design based on polypyrrole-chitosan composites for enhanced monovalent selectivity. Chemical Engineering Journal, 2020, 380, 122461.	12.7	53
22	Degradation kinetics of Pt during high-temperature PEM fuel cell operation part II: Dissolution kinetics of Pt incorporated in a catalyst layer of a gas-diffusion electrode. Electrochimica Acta, 2020, 333, 135509.	5.2	18
23	Degradation kinetics of Pt during high-temperature PEM fuel cell operation Part III: Voltage-dependent Pt degradation rate in single-cell experiments. Electrochimica Acta, 2020, 363, 137165.	5.2	17
24	Hydrogen production by electrolysis. , 2020, , 91-117.		3
25	Green hydrogen from anion exchange membrane water electrolysis: a review of recent developments in critical materials and operating conditions. Sustainable Energy and Fuels, 2020, 4, 2114-2133.	4.9	367
26	Review of the experimental study and prediction of Pt-based catalyst degradation during PEM fuel cell operation. Current Opinion in Electrochemistry, 2020, 20, 20-27.	4.8	43
27	Anisotropic properties of gas transport in non-woven gas diffusion layers of polymer electrolyte fuel cells. Journal of Power Sources, 2020, 452, 227828.	7.8	10
28	Recent advances in hydrogen technologies in the Czech Republic. International Journal of Hydrogen Energy, 2019, 44, 19055-19060.	7.1	13
29	Integrated membrane distillation-reverse electrodialysis system for energy-efficient seawater desalination. Applied Energy, 2019, 253, 113551.	10.1	68
30	Thermodynamic analysis of high temperature steam and carbon dioxide systems in solid oxide cells. Sustainable Energy and Fuels, 2019, 3, 2076-2086.	4.9	11
31	Development and testing of a novel catalyst-coated membrane with platinum-free catalysts for alkaline water electrolysis. International Journal of Hydrogen Energy, 2019, 44, 17493-17504.	7.1	45
32	Degradation kinetics of Pt during high-temperature PEM fuel cell operation part I: Kinetics of Pt surface oxidation and dissolution in concentrated H3PO4 electrolyte at elevated temperatures. Electrochimica Acta, 2019, 313, 352-366.	5.2	14
33	Design of a Zeroâ€Gap Laboratoryâ€Scale Polymer Electrolyte Membrane Alkaline Water Electrolysis Stack. Chemie-Ingenieur-Technik, 2019, 91, 821-832.	0.8	15
34	Nanocrystalline Fe60Co20Si10B10 as a cathode catalyst for alkaline water electrolysis: Impact of surface activation. Electrochimica Acta, 2019, 306, 688-697.	5.2	9
35	Mathematical Modeling of Electromembrane Processes. , 2019, , 285-326.		1
36	Cost-efficient improvement of coking wastewater biodegradability by multi-stages flow through peroxi-coagulation under low current load. Water Research, 2019, 154, 336-348.	11.3	59

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37	Impact of Morphological and Structural Changes on Performance of Solid Oxide Cells. ECS Transactions, 2019, 95, 255-263.	0.5	0
38	The hydrogen context and vulnerabilities in the central and Eastern European countries. International Journal of Hydrogen Energy, 2019, 44, 19036-19054.	7.1	16
39	Glassy carbon electrode activation â€“ A way towards highly active, reproducible and stable electrode surface. Electrochimica Acta, 2019, 299, 963-970.	5.2	27
40	Chapter 3. Proton Exchange Membrane Water Electrolysers: Materials, Construction and Performance. RSC Energy and Environment Series, 2019, , 59-93.	0.5	2
41	Effect of the MEA design on the performance of PEMWE single cells with different sizes. Journal of Applied Electrochemistry, 2018, 48, 701-711.	2.9	29
42	Three-dimensional macrohomogeneous mathematical model of an industrial-scale high-temperature PEM fuel cell stack. Electrochimica Acta, 2018, 273, 432-446.	5.2	14
43	Changes in NafionÂ® 117 internal structure and related properties during exposure to elevated temperature and pressure in an aqueous environment. Electrochimica Acta, 2018, 262, 264-275.	5.2	15
44	Enhancing PEM water electrolysis efficiency by reducing the extent of Ti gas diffusion layer passivation. Journal of Applied Electrochemistry, 2018, 48, 713-723.	2.9	47
45	Experimental characterization of inhomogeneity in current density and temperature distribution along a single-channel PEM water electrolysis cell. Electrochimica Acta, 2018, 260, 582-588.	5.2	45
46	Air Purification and Filter Design for Mobile APU Based on PEM Fuel Cell. ECS Transactions, 2018, 87, 189-196.	0.5	0
47	Preface on the special issue 2nd workshop on electrochemical engineering: new bridges for a new knowledge on electrochemical engineering. Journal of Applied Electrochemistry, 2018, 48, 1305-1306.	2.9	0
48	Hydrogen production from industrial wastewaters: An integrated reverse electrodialysis - Water electrolysis energy system. Journal of Cleaner Production, 2018, 203, 418-426.	9.3	43
49	Investigation of electrocatalytic activity on a N-doped reduced graphene oxide surface for the oxygen reduction reaction in an alkaline medium. International Journal of Hydrogen Energy, 2018, 43, 12129-12139.	7.1	33
50	Progress and prospects in reverse electrodialysis for salinity gradient energy conversion and storage. Applied Energy, 2018, 225, 290-331.	10.1	214
51	Optimization of synthesis of the nickel-cobalt oxide based anode electrocatalyst and of the related membrane-electrode assembly for alkaline water electrolysis. Journal of Power Sources, 2017, 347, 247-258.	7.8	48
52	Investigation of processes occurring at cathodically protected underground installations: Mathematical modeling of reaction transport processes in soil. Corrosion Science, 2017, 120, 28-41.	6.6	11
53	A rotating rod electrode disk as an alternative to the rotating disk electrode for medium-temperature electrolytes, Part II: An example of the application in an investigation of the oxygen reduction reaction on a Pt/C catalyst by the thin film method in hot concentrated H3PO4. Electrochimica Acta, 2017, 245, 597-606.	5.2	3
54	Investigation of processes occurring at cathodically protected underground installations: Experimental study of pH alteration and mathematical modeling of oxygen transport in soil. Corrosion Science, 2017, 120, 14-27.	6.6	14

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55	A rotating rod electrode disk as an alternative to the rotating disk electrode for medium-temperature electrolytes, Part I: The effect of the absence of cylindrical insulation. Electrochimica Acta, 2017, 245, 634-642.	5.2	7
56	Anion-selective materials with 1,4-diazabicyclo[2.2.2]octane functional groups for advanced alkaline water electrolysis. Electrochimica Acta, 2017, 248, 547-555.	5.2	56
57	Anodic microporous layer for polymer electrolyte membrane water electrolysers. Journal of Applied Electrochemistry, 2017, 47, 1137-1146.	2.9	18
58	Stability of Ferrate(VI) in 14 M NaOH-KOH Mixtures at Different Temperatures. ACS Symposium Series, 2016, , 241-253.	0.5	2
59	Nafion 117 stability under conditions of PEM water electrolysis at elevated temperature and pressure. International Journal of Hydrogen Energy, 2016, 41, 2177-2188.	7.1	58
60	Salinity gradient power-reverse electrodialysis and alkaline polymer electrolyte water electrolysis for hydrogen production. Journal of Membrane Science, 2016, 514, 155-164.	8.2	66
61	H3PO3 electrochemical behaviour on a bulk Pt electrode: adsorption and oxidation kinetics. Electrochimica Acta, 2016, 212, 465-472.	5.2	16
62	Ultralow Degradation Rates in HT-PEM Fuel Cells. ECS Transactions, 2016, 75, 301-315.	0.5	10
63	Membrane electrolysisâ€"History, current status and perspective. Electrochimica Acta, 2016, 209, 737-756.	5.2	256
64	Alkali doped poly (2,5-benzimidazole) membrane for alkaline water electrolysis: Characterization and performance. Journal of Power Sources, 2016, 312, 128-136.	7.8	54
65	Poissonâ€"Nernstâ€"Planck model of multiple ion transport across an ion-selective membrane under conditions close to chlor-alkali electrolysis. Journal of Applied Electrochemistry, 2016, 46, 679-694.	2.9	14
66	Electroosmosis. , 2016, , 649-650.		0
67	Polysulfoneâ€based anion exchange polymers for catalyst binders in alkaline electrolyzers. Journal of Applied Polymer Science, 2015, 132, .	2.6	9
68	Electrochemistry of Phosphorous and Hypophosphorous Acid on a Pt electrode. Electrochimica Acta, 2015, 160, 214-218.	5.2	24
69	Novel approach to mathematical modeling of the complex electrochemical systems with multiple phase interfaces. Electrochimica Acta, 2015, 179, 538-555.	5.2	19
70	Synthesis and characterization of NiFe2O4 electrocatalyst for the hydrogen evolution reaction in alkaline water electrolysis using different polymer binders. Journal of Power Sources, 2015, 285, 217-226.	7.8	69
71	Spatially two-dimensional mathematical model of the flow hydrodynamics in a spacer-filled channel â€" The effect of inertial forces. Journal of Membrane Science, 2015, 492, 588-599.	8.2	12
72	The effect of surface modification by reduced graphene oxide on the electrocatalytic activity of nickel towards the hydrogen evolution reaction. Physical Chemistry Chemical Physics, 2015, 17, 26864-26874.	2.8	86

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73	Anionic catalyst binders based on trimethylamine-quaternized poly(2,6-dimethyl-1,4-phenylene oxide) for alkaline electrolyzers. Journal of Membrane Science, 2015, 473, 267-273.	8.2	26
74	Determination of the ion-exchange capacity of anion-selective membranes. International Journal of Hydrogen Energy, 2014, 39, 5054-5062.	7.1	77
75	Investigation of Î²-SiC as an anode catalyst support for PEM water electrolysis. Journal of Solid State Electrochemistry, 2014, 18, 2325-2332.	2.5	15
76	Polymer anion-selective membrane for electrolytic water splitting: The impact of a liquid electrolyte composition on the process parameters and long-term stability. International Journal of Hydrogen Energy, 2014, 39, 4779-4787.	7.1	24
77	Performance of a PEM water electrolyser using a TaC-supported iridium oxide electrocatalyst. International Journal of Hydrogen Energy, 2014, 39, 3072-3078.	7.1	55
78	Evolution of physicochemical and electrocatalytic properties of NiCo2O4 (AB2O4) spinel oxide with the effect of Fe substitution at the A site leading to efficient anodic O2 evolution in an alkaline environment. International Journal of Hydrogen Energy, 2014, 39, 5713-5722.	7.1	70
79	Highlights during the development of electrochemical engineering. Chemical Engineering Research and Design, 2013, 91, 1998-2020.	5.6	97
80	Polymer-supported 1-butyl-3-methylimidazolium trifluoromethanesulfonate and 1-ethylimidazolium trifluoromethanesulfonate as electrolytes for the high temperature PEM-type fuel cell. International Journal of Hydrogen Energy, 2013, 38, 4697-4704.	7.1	30
81	Ionic Liquids as Potential Supporting Electrolytes for the Anodic Oxidation of 4-methylanisole. Journal of the Electrochemical Society, 2013, 160, G117-G123.	2.9	5
82	Macrohomogeneous approach to a two-dimensional mathematical model of an industrial-scale electrodialysis unit. Journal of Applied Electrochemistry, 2012, 42, 645-666.	2.9	17
83	Non-conductive TiO2 as the anode catalyst support for PEM water electrolysis. International Journal of Hydrogen Energy, 2012, 37, 12081-12088.	7.1	110
84	Electrochemical Microreactor Design for Alkoxylation Reactionsâ€"Experiments and Simulations. Industrial & Engineering Chemistry Research, 2012, 51, 1515-1524.	3.7	13
85	Polymer anion-selective membranes for electrolytic splitting of water. Part II: Enhancement of ionic conductivity and performance under conditions of alkaline water electrolysis. Journal of Applied Electrochemistry, 2012, 42, 545-554.	2.9	39
86	The influence of electrolyte composition on electrochemical ferrate(VI) synthesis. Part III: anodic dissolution kinetics of a white cast iron anode rich in iron carbide. Journal of Applied Electrochemistry, 2012, 42, 615-626.	2.9	19
87	Tantalum carbide as a novel support material for anode electrocatalysts in polymer electrolyte membrane water electrolysers. International Journal of Hydrogen Energy, 2012, 37, 2173-2181.	7.1	82
88	Heterogeneous anion-selective membranes: Influence of a water-soluble component in the membrane on the morphology and ionic conductivity. Journal of Membrane Science, 2012, 401-402, 83-88.	8.2	19
89	Cationâ€exchange membranes: Comparison of homopolymer, block copolymer, and heterogeneous membranes. Journal of Applied Polymer Science, 2012, 124, E66.	2.6	16
90	A Simple Potentiometric Titration Method to Determine Concentration of Ferrate(VI) in Strong Alkaline Solutions. Analytical Letters, 2011, 44, 1333-1340.	1.8	15

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91	Polymer anion selective membranes for electrolytic splitting of water. Part I: stability of ion-exchange groups and impact of the polymer binder. Journal of Applied Electrochemistry, 2011, 41, 1043-1052.	2.9	33
92	Gas diffusion electrodes for high temperature PEM-type fuel cells: role of a polymer binder and method of the catalyst layer deposition. Journal of Applied Electrochemistry, 2011, 41, 1013-1019.	2.9	44
93	The influence of electrolyte composition on electrochemical ferrate(VI) synthesis. Part II: anodic dissolution kinetics of a steel anode rich in silicon. Journal of Applied Electrochemistry, 2011, 41, 1125-1133.	2.9	18
94	Ion-conductive polymer membranes containing 1-butyl-3-methylimidazolium trifluoromethanesulfonate and 1-ethylimidazolium trifluoromethanesulfonate. Journal of Membrane Science, 2011, 367, 332-339.	8.2	48
95	Spatially two-dimensional mathematical model of the flow hydrodynamics in a channel filled with a net-like spacer. Journal of Membrane Science, 2011, 368, 171-183.	8.2	26
96	Behavior of Nafion membrane at elevated temperature and pressure. Desalination and Water Treatment, 2010, 14, 106-111.	1.0	9
97	Microstructured reactor for electroorganic synthesis. Electrochimica Acta, 2010, 55, 8172-8181.	5.2	31
98	The influence of electrolyte composition on electrochemical ferrate(VI) synthesis. Part I: anodic dissolution kinetics of pure iron. Journal of Applied Electrochemistry, 2010, 40, 1019-1028.	2.9	25
99	Heterogeneous ion-selective membranes: the influence of the inert matrix polymer on the membrane properties. Journal of Applied Electrochemistry, 2010, 40, 1005-1018.	2.9	17
100	Influence of hydrogen contamination by mercury on the lifetime of the PEM-type fuel cell. Electrochimica Acta, 2010, 56, 889-895.	5.2	2
101	Preparation of gas diffusion electrodes for high temperature PEM-type fuel cells. Desalination and Water Treatment, 2010, 14, 101-105.	1.0	6
102	Solubility of Ferrate(VI) in NaOHâˆ'KOH Mixtures at Different Temperatures. Journal of Chemical & Engineering Data, 2010, 55, 5594-5597.	1.9	13
103	The Role of the Supporting Electrolyte in the Electrochemical Methoxylation of 4-Methylanisole. Journal of the Electrochemical Society, 2009, 156, E179.	2.9	6
104	Research progress in the electrochemical synthesis of ferrate(VI). Electrochimica Acta, 2009, 54, 2673-2683.	5.2	129
105	Nonylphenol, octylphenol, and bisphenol-A in the aquatic environment: A review on occurrence, fate, and treatment. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2009, 44, 423-442.	1.7	184
106	The effect of convection in the external diffusion layer on the results of a mathematical model of multiple ion transport across an ion-selective membrane. Journal of Applied Electrochemistry, 2008, 38, 1241-1252.	2.9	21
107	The cyclic voltammetric study of ferrate(VI) formation in a molten Na/K hydroxide mixture. Electrochimica Acta, 2008, 54, 203-208.	5.2	21
108	Electrochemical microreactor and gas-evolving reactions. Electrochemistry Communications, 2008, 10, 204-207.	4.7	22

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109	The Role of the Electrode and Electrolyte Composition in the Anode Dissolution Kinetics. ACS Symposium Series, 2008, , 52-67.	0.5	13
110	Electrochemical Ferrate(VI) Synthesis: A Molten Salt Approach. ACS Symposium Series, 2008, , 68-80.	0.5	7
111	Comparison of Ferrate(VI) Synthesis in Eutectic NaOHâ€“KOH Melts and in Aqueous Solutions. Journal of the Electrochemical Society, 2008, 155, E113.	2.9	16
112	Hybrid inorganicâ€“organic proton conducting membranes for fuel cells and gas sensors. Journal of Physics and Chemistry of Solids, 2007, 68, 775-779.	4.0	18
113	Electrocatalytic activity of copper alloys for NO 3 â^' reduction in a weakly alkaline solution. Journal of Applied Electrochemistry, 2007, 37, 557-566.	2.9	46
114	Potential and current density distributions along a bipolar electrode. Journal of Applied Electrochemistry, 2007, 37, 1303-1312.	2.9	16
115	Homogeneous vs. heterogeneous membranes for the application in PEM type fuel cells. Desalination, 2006, 200, 650-652.	8.2	3
116	Heterogeneous ion-exchange polyethylene-based membranes with sulfonated poly(1,4-phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	8.2	10
117	Electrochemical formation of ferrate(VI) in a molten NaOHâ€“KOH system. Electrochemistry Communications, 2006, 8, 1737-1740.	4.7	35
118	Influence of counter-ions on the permeability of polypyrrole films to hydrogen. Journal of Applied Electrochemistry, 2006, 36, 703-710.	2.9	14
119	Utilization of NafionÂ®/conducting polymer composite in the PEM type fuel cells. Journal of Applied Electrochemistry, 2006, 37, 137-145.	2.9	12
120	Preparation of a Novel Composite Material Based on a NafionÂ® Membrane and Polypyrrole for Potential Application in a PEM Fuel Cell. Journal of Applied Electrochemistry, 2005, 35, 991-997.	2.9	23
121	Electrocatalytic activity of copper alloys for $$hbox{NO}_{3}^{-}$$ reduction in a weakly alkaline solution Part 1: Copperâ€“zinc. Journal of Applied Electrochemistry, 2005, 35, 1203-1211.	2.9	62
122	Modification and Characterization of a Novel Composite Material Based on a Nafion Membrane and Polypyrrole. Journal of the Electrochemical Society, 2005, 152, A2080.	2.9	14
123	Electrocatalytic properties of polypyrrole films prepared with platinate(II) counter-ions. Synthetic Metals, 2005, 155, 501-508.	3.9	9
124	A Combination of Ion Exchange and Electrochemical Reduction for Nitrate Removal from Drinking Water Part I: Nitrate Removal Using a Selective Anion Exchanger in the Bicarbonate Form with Reuse of the Regenerant Solution. Water Environment Research, 2004, 76, 2686-2690.	2.7	19
125	A Combination of Ion Exchange and Electrochemical Reduction for Nitrate Removal from Drinking Water Part II: Electrochemical Treatment of a Spent Regenerant Solution. Water Environment Research, 2004, 76, 2691-2698.	2.7	17
126	Preparation and Properties of Composite Polypyrrole/Pt Catalyst Systems. Russian Journal of Electrochemistry, 2004, 40, 317-325.	0.9	28

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127	Study of mass transfer in a vertically moving particle bed electrode. Journal of Applied Electrochemistry, 2003, 33, 205-215.	2.9	9
128	Title is missing!. Journal of Applied Electrochemistry, 2003, 33, 675-684.	2.9	38
129	Mathematical simulation of a vertically moving particle bed electrochemical cell. Journal of Applied Electrochemistry, 2003, 33, 839-851.	2.9	5
130	Electrochemical treatment of cooling lubricants. Chemical Engineering and Processing: Process Intensification, 2003, 42, 105-119.	3.6	16
131	H[sup +] and Na[sup +] Ion Transport Properties of Sulfonated Poly(2,6-dimethyl-1,4-phenyleneoxide) Membranes. Journal of the Electrochemical Society, 2003, 150, E329.	2.9	21
132	Influence of cell construction on the electrochemical reduction of nitrate. Chemical Engineering Journal, 2002, 85, 99-109.	12.7	53
133	New UV irradiation and direct electrolysisÃ¢Â€Â”promising methods for water disinfection. Chemical Engineering Journal, 2002, 85, 111-117.	12.7	96
134	Platinum distribution and electrocatalytic properties of modified polypyrrole films. Electrochimica Acta, 2001, 46, 661-670.	5.2	104
135	Title is missing!. Journal of Applied Electrochemistry, 2001, 31, 501-507.	2.9	78
136	Electrochemical reduction of nitrate in weakly alkaline solutions. Journal of Applied Electrochemistry, 2001, 31, 1185-1193.	2.9	162
137	Application of a Three-Dimensional Electrode to the Electrochemical Removal of Copper and Zinc Ions from Diluted Solutions. Water Environment Research, 2000, 72, 618-625.	2.7	16
138	Influence of Electrolyte Hydrodynamics on Current Yield in Ferrate(VI) Production by Anodic Iron Dissolution. Collection of Czechoslovak Chemical Communications, 2000, 65, 133-140.	1.0	17
139	Title is missing!. Journal of Applied Electrochemistry, 2000, 30, 1033-1041.	2.9	13
140	In situ MÃ¶ssbauer Study of the Passive Layer Formed on the Iron Anode in Alkaline Electrolyte. Collection of Czechoslovak Chemical Communications, 1999, 64, 2044-2060.	1.0	9
141	Influence of electrolyte composition on current yield during ferrate(VI) production by anodic iron dissolution. Electrochemistry Communications, 1999, 1, 370-374.	4.7	49
142	Heat losses in GrÃtzel solar cells. Solar Energy Materials and Solar Cells, 1999, 57, 359-371.	6.2	6
143	Title is missing!. Journal of Applied Electrochemistry, 1999, 29, 611-617.	2.9	93
144	Title is missing!. Journal of Applied Electrochemistry, 1999, 29, 569-576.	2.9	25

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145	Influence of anode material composition on the stability of electrochemically-prepared ferrate(VI) solutions. Journal of Chemical Technology and Biotechnology, 1999, 74, 1188-1194.	3.2	24
146	Comparison of pure and white cast iron dissolution kinetics in highly alkaline electrolyte. Corrosion Science, 1999, 41, 2113-2128.	6.6	28
147	Electrochemical production of ferrate(VI) using sinusoidal alternating current superimposed on direct current: grey and white cast iron electrodesThis paper is dedicated to the memory of Professor Ivo RouÅ¡ar.. Electrochimica Acta, 1998, 44, 547-557.	5.2	30
148	Evaluation of parameters for anodic polarisation curve from the experimentally measured Uâ€“I dependence for an electrochemical photovoltaic regenerative solar cell. Solar Energy Materials and Solar Cells, 1998, 51, 155-169.	6.2	4
149	The cyclic voltammetric study of ferrate(VI) production. Journal of Electroanalytical Chemistry, 1997, 425, 125-137.	3.8	56
150	Title is missing!. Journal of Applied Electrochemistry, 1997, 27, 679-684.	2.9	45
151	Mass transfer to wall electrodes in a fluidised bed of inert particles. Electrochimica Acta, 1996, 41, 583-589.	5.2	12
152	Influence of anode material on current yields during ferrate(vi) production by anodic iron dissolution Part I: Current efficiency during anodic dissolution of grey cast iron to ferrate(vi) in concentrated alkali hydroxide solutions. Journal of Applied Electrochemistry, 1996, 26, 919-923.	2.9	45
153	Influence of anode material on current yield during ferrate(vi) production by anodic iron dissolution Part II: Current efficiency during anodic dissolution of white cast iron to ferrate(vi) in concentrated alkali hydroxide solutions. Journal of Applied Electrochemistry, 1996, 26, 925-931.	2.9	49
154	Solubility of Potassium Ferrate in 12 M Alkaline Solutions Between 20Â°C and 60Â°C. Journal of Chemical Technology and Biotechnology, 1996, 66, 35-40.	3.2	14
155	Comparison of the Effectiveness Factors for a Reaction at a Pore Wall Calculated on the Assumption of the Langmuir-Hinshelwood Mechanism and According to a Power Equation. Journal of Chemical Technology and Biotechnology, 1996, 66, 131-134.	3.2	3
156	Current Distribution at the Electrodes in Zinc Electrowinning Cells. Journal of the Electrochemical Society, 1995, 142, 64-69.	2.9	13
157	The study of electrochemical preparation of ferrate(VI) using alternating current superimposed on the direct current. Frequency dependence of current yields. Electrochimica Acta, 1993, 38, 1717-1720.	5.2	27
158	Current efficiency during anodic dissolution of iron to ferrate(vi) in concentrated alkali hydroxide solutions. Journal of Applied Electrochemistry, 1993, 23, 1317-1322.	2.9	59
159	Alkaline water electrolyzis with perfluorinated cation-selective membrane. Desalination and Water Treatment, 0, , 1-4.	1.0	0
160	Ion exchange membranes based on vinylphosphonic acid-co-acrylonitrile copolymers for fuel cells. Desalination and Water Treatment, 0, , 1-7.	1.0	0
161	Anion exchange membranes and binders based on polystyrene-block-poly(ethylene-ran-butylene)-block-polystyrene copolymer for alkaline water electrolysis. , 0, 142, 90-97.		5