

# Vijay K Ramani

## List of Publications by Year in descending order

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148  
papers

6,303  
citations

71061

41  
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76872

74  
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156  
all docs

156  
docs citations

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times ranked

6226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bifunctional Cross-Linking Agents Enhance Anion Exchange Membrane Efficacy for Vanadium Redox Flow Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 49446-49453.	4.0	6
2	TaO <sub>x</sub> nanoparticles as radical scavengers to improve the durability of Fe-N-C oxygen reduction catalysts. <i>Nature Energy</i> , 2022, 7, 281-289.	19.8	93
3	Assessing the Oxidative Stability of Anion Exchange Membranes in Oxygen Saturated Aqueous Alkaline Solutions. <i>Frontiers in Energy Research</i> , 2022, 10, .	1.2	2
4	Bidirectional energy & fuel production using RTO-supported-Pt-IrO <sub>2</sub> loaded fixed polarity unitized regenerative fuel cells. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2734-2746.	2.5	5
5	Electrocatalytic hydrogenation of furfural using non-noble-metal electrocatalysts in alkaline medium. <i>Green Chemistry</i> , 2021, 23, 4201-4212.	4.6	34
6	Engineering block co-polymer anion exchange membrane domains for highly efficient electrode-decoupled redox flow batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3606-3616.	2.5	5
7	Ex-solution kinetics of nickel-ceria-doped strontium titanate perovskites. <i>Ionics</i> , 2021, 27, 2527-2536.	1.2	2
8	Binder-free thin graphite fiber mat sandwich electrode architectures for energy-efficient vanadium redox flow batteries. <i>Catalysis Today</i> , 2021, 370, 181-188.	2.2	9
9	Self-Anchored Platinum-Decorated Antimony-Doped-Tin Oxide as a Durable Oxygen Reduction Electrocatalyst. <i>ACS Catalysis</i> , 2021, 11, 7006-7017.	5.5	17
10	Development of Bimetallic PdNi Electrocatalysts toward Mitigation of Catalyst Poisoning in Direct Borohydride Fuel Cells. <i>ACS Catalysis</i> , 2021, 11, 8417-8430.	5.5	28
11	Electrochemical implications of modulating the solvation shell around redox active organic species in aqueous organic redox flow batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
12	Metal-Nitrogen-Carbon Cluster-Decorated Titanium Carbide is a Durable and Inexpensive Oxygen Reduction Reaction Electrocatalyst. <i>ChemSusChem</i> , 2021, 14, 4680-4689.	3.6	2
13	High-performance AEM unitized regenerative fuel cell using Pt-pyrochlore as bifunctional oxygen electrocatalyst. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	12
14	Electrocatalytic hydrogenation of furfural paired with photoelectrochemical oxidation of water and furfural in batch and flow cells. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 2342-2353.	1.9	11
15	Metal-Nitrogen-Carbon Cluster-Decorated Titanium Carbide is a Durable and Inexpensive Oxygen Reduction Reaction Electrocatalyst. <i>ChemSusChem</i> , 2021, 14, 4613-4614.	3.6	0
16	Electrolytic Fuel and Oxygen Harvesting from Ultra-Cold, Hypersaline Martian Regolithic Brines. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1755-1755.	0.0	0
17	Kinetics of methane electrooxidation in pure and composite anodes of La <sub>0.3</sub> Y <sub>0.1</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> . <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 145-156.	1.2	4
18	Fuel and oxygen harvesting from Martian regolithic brine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 31685-31689.	3.3	17

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19	Anisotropy of Pt nanoparticles on carbon- and oxide-support and their structural response to electrochemical oxidation probed by <i>in situ</i> techniques. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22260-22270.	1.3	9
20	A high performance direct borohydride fuel cell using bipolar interfaces and noble metal-free Ni-based anodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20543-20552.	5.2	34
21	Performance enhancement and degradation mechanism identification of a single-atom Co <sup>II</sup> catalyst for proton exchange membrane fuel cells. <i>Nature Catalysis</i> , 2020, 3, 1044-1054.	16.1	443
22	Reactant-Transport Engineering Approach to High-Power Direct Borohydride Fuel Cells. <i>Cell Reports Physical Science</i> , 2020, 1, 100084.	2.8	12
23	Oxidation State and Oxygen-Vacancy-Induced Work Function Controls Bifunctional Oxygen Electrocatalytic Activity. <i>ACS Catalysis</i> , 2020, 10, 7734-7746.	5.5	76
24	Facet-dependent Chlorine and Oxygen Evolution Selectivity on RuO <sub>2</sub> : An <i>Ab initio</i> Atomistic Thermodynamic Study. <i>ChemCatChem</i> , 2020, 12, 4922-4929.	1.8	19
25	Co <sub>3</sub> O <sub>4</sub> -Impregnated Ni <sup>II</sup> /YSZ: An Efficient Catalyst for Direct Methane Electrooxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 32578-32590.	4.0	6
26	Enhanced methane electrooxidation by ceria and nickel oxide impregnated perovskite anodes in solid oxide fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 11287-11296.	3.8	14
27	Selective Seawater Splitting Using Pyrochlore Electrocatalyst. <i>ACS Applied Energy Materials</i> , 2020, 3, 3978-3983.	2.5	80
28	Influence of Water Transport Across Microscale Bipolar Interfaces on the Performance of Direct Borohydride Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 4449-4456.	2.5	32
29	Highly Durable and Active Pt/Sb-Doped SnO <sub>2</sub> Oxygen Reduction Reaction Electrocatalysts Produced by Atomic Layer Deposition. <i>ACS Applied Energy Materials</i> , 2020, 3, 5774-5783.	2.5	27
30	Alkaline Stability of Pure Aliphatic-based Anion Exchange Membranes Containing Cycloaliphatic Quaternary Ammonium Cations. <i>Journal of the Electrochemical Society</i> , 2020, 167, 124504.	1.3	11
31	Understanding the Oxygen Reduction Reaction Activity and Oxidative Stability of Pt Supported on Nb <sup>II</sup> -Doped TiO <sub>2</sub> . <i>ChemSusChem</i> , 2019, 12, 3409-3409.	3.6	0
32	Tuning anion solvation energetics enhances potassium <sup>II</sup> -oxygen battery performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14899-14904.	3.3	28
33	Methanesulfonic acid-based electrode-decoupled vanadium <sup>II</sup> -cerium redox flow battery exhibits significantly improved capacity and cycle life. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2417-2425.	2.5	19
34	Understanding the Oxygen Reduction Reaction Activity and Oxidative Stability of Pt Supported on Nb <sup>II</sup> -Doped TiO <sub>2</sub> . <i>ChemSusChem</i> , 2019, 12, 3468-3480.	3.6	39
35	Efficient pH-gradient-enabled microscale bipolar interfaces in direct borohydride fuel cells. <i>Nature Energy</i> , 2019, 4, 281-289.	19.8	61
36	Impact of Surface Carbonyl- and Hydroxyl-Group Concentrations on Electrode Kinetics in an All-Vanadium Redox Flow Battery. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6370-6378.	1.5	49

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37	Cobalt-Based Coordination Polymer for Oxygen Reduction Reaction. ACS Omega, 2018, 3, 3830-3834.	1.6	28
38	Unravelling Degradation Pathways of Oxide-Supported Pt Fuel Cell Nanocatalysts under In Situ Operating Conditions. Advanced Energy Materials, 2018, 8, 1701663.	10.2	62
39	Advances in anion exchange membranes for electrochemical energy conversion. Current Opinion in Electrochemistry, 2018, 12, 240-245.	2.5	21
40	Chloromethylbenzoylation as a simple way to poly(aryl ether)s with side-chain-type benzylic cationic groups for anion-exchange membranes. Polymer, 2018, 154, 272-280.	1.8	2
41	<i>In Situ</i> Stability Studies of Platinum Nanoparticles Supported on Ruthenium-Titanium Mixed Oxide (RTO) for Fuel Cell Cathodes. ACS Catalysis, 2018, 8, 9675-9683.	5.5	51
42	Dimethyl Sulfoxide-Based Electrolytes for High-Current Potassium-Oxygen Batteries. Journal of Physical Chemistry C, 2018, 122, 19319-19327.	1.5	28
43	N- and P-doped Graphite Felt Electrode for Improving Positive Electrode Chemistry of the Vanadium Redox Flow Battery. ChemistrySelect, 2018, 3, 8678-8687.	0.7	17
44	Polystyrene-Block-Poly(ethylene-ran-butylene)-Block-Polystyrene Triblock Copolymer Separators for a Vanadium-Cerium Redox Flow Battery. Journal of the Electrochemical Society, 2017, 164, F372-F378.	1.3	27
45	Detection of Reactive Oxygen Species in Anion Exchange Membrane Fuel Cells using In-Situ Fluorescence Spectroscopy. ChemSusChem, 2017, 10, 3056-3062.	3.6	45
46	A non-platinum counter electrode, MnNx/C, for dye-sensitized solar cell applications. Applied Surface Science, 2017, 418, 179-185.	3.1	11
47	Anion Exchange Membranes Based on Polystyrene-Block-Poly(ethylene-ran-butylene)-Block-Polystyrene Triblock Copolymers: Cation Stability and Fuel Cell Performance. Journal of the Electrochemical Society, 2017, 164, F1216-F1225.	1.3	29
48	Î2-Nickel hydroxide cathode material for nano-suspension redox flow batteries. Frontiers in Energy, 2017, 11, 401-409.	1.2	13
49	Pt/RuO <sub>2</sub> -TiO <sub>2</sub> Electrocatalysts Exhibit Excellent Hydrogen Evolution Activity in Alkaline Media. Journal of the Electrochemical Society, 2017, 164, F1234-F1240.	1.3	20
50	Pt/C/Ni(OH) <sub>2</sub> Bi-Functional Electrocatalyst for Enhanced Hydrogen Evolution Reaction Activity under Alkaline Conditions. Journal of the Electrochemical Society, 2017, 164, F1307-F1315.	1.3	41
51	Effect of Protonated Amine Molecules on the Oxygen Reduction Reaction on Metal-Nitrogen-Carbon-Based Catalysts. Electrocatalysis, 2017, 8, 74-85.	1.5	9
52	From the Editor: Perspectives on the Future of <i>Interface</i> . Electrochemical Society Interface, 2017, 26, 3-3.	0.3	0
53	From the Editor: Cash for Papers, and "The Usefulness of Useless Knowledge" Redux. Electrochemical Society Interface, 2017, 26, 3-3.	0.3	0
54	Contribution of Electrocatalyst Support to PEM Oxidative Degradation in an Operating PEFC. Journal of the Electrochemical Society, 2016, 163, F1611-F1617.	1.3	14

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55	The performance of all vanadium redox flow batteries at below-ambient temperatures. <i>Energy</i> , 2016, 107, 784-790.	4.5	28
56	Composite anion exchange membranes based on quaternized cardo-poly(etherketone) and quaternized inorganic fillers for vanadium redox flow battery applications. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 10766-10775.	3.8	36
57	Hierarchically Structured Nanomaterials for Electrochemical Energy Conversion. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 122-148.	7.2	207
58	Study on tunable crosslinking anion exchange membranes fabrication and degradation mechanism. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 16264-16274.	3.8	20
59	Alkaline Stability of Poly(Phenylene Oxide) Based Anion Exchange Membranes Containing Imidazolium Cations. <i>Journal of the Electrochemical Society</i> , 2016, 163, F824-F831.	1.3	25
60	Proton Conducting Self-Assembled Metal-Organic Framework/Polyelectrolyte Hollow Hybrid Nanostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 23015-23021.	4.0	46
61	Reactive oxygen species accelerate degradation of anion exchange membranes based on polyphenylene oxide in alkaline environments. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 19705-19712.	1.3	59
62	Probing oxygen reduction and oxygen evolution reactions on bifunctional non-precious metal catalysts for metal-air batteries. <i>RSC Advances</i> , 2016, 6, 71122-71133.	1.7	20
63	X-ray photoelectron spectroscopy study of the degradation of Pt/ITO electrocatalyst in an operating polymer electrolyte fuel cell. <i>Chemical Engineering Science</i> , 2016, 154, 81-89.	1.9	12
64	Evaluation of Polycrystalline Platinum and Rhodium Surfaces for the Electro-Oxidation of Aqueous Sulfur Dioxide. <i>Electrocatalysis</i> , 2016, 7, 50-59.	1.5	12
65	Highly Active and Durable Non-Precious Metal Catalyst for the Oxygen Reduction Reaction in Acidic Medium. <i>Journal of the Electrochemical Society</i> , 2016, 163, F539-F547.	1.3	32
66	Optimization of Inactive Material Content in Lithium Iron Phosphate Electrodes for High Power Applications. <i>Electrochimica Acta</i> , 2016, 191, 173-182.	2.6	16
67	Indium Tin Oxide as Catalyst Support for PEM Fuel Cell: RDE and MEA Performance. <i>ECS Transactions</i> , 2015, 69, 1179-1205.	0.3	7
68	Controlling the Nitrogen Content of Metal-Nitrogen-Carbon Based Non-Precious-Metal Electrocatalysts via Selenium Addition. <i>Journal of the Electrochemical Society</i> , 2015, 162, F475-F482.	1.3	28
69	Mechanically Stable Poly(arylene ether) Anion Exchange Membranes Prepared from Commercially Available Polymers for Alkaline Electrochemical Devices. <i>Journal of the Electrochemical Society</i> , 2015, 162, F686-F693.	1.3	51
70	Synthesis and Alkaline Stability of Solubilized Anion Exchange Membrane Binders Based on Poly(phenylene oxide) Functionalized with Quaternary Ammonium Groups via a Hexyl Spacer. <i>Journal of the Electrochemical Society</i> , 2015, 162, F1236-F1242.	1.3	47
71	Pyrochlore electrocatalysts for efficient alkaline water electrolysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10819-10828.	5.2	100
72	A Vanadium-Cerium Redox Flow Battery with an Anion Exchange Membrane Separator. <i>ChemPlusChem</i> , 2015, 80, 412-421.	1.3	30

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73	Stability of Poly(2,6-dimethyl 1,4-phenylene)Oxide-Based Anion Exchange Membrane Separator and Solubilized Electrode Binder in Solid-State Alkaline Water Electrolyzers. <i>Journal of the Electrochemical Society</i> , 2014, 161, F1015-F1020.	1.3	32
74	Simple and facile synthesis of water-soluble poly(phosphazene) polymer electrolytes. <i>RSC Advances</i> , 2014, 4, 61869-61876.	1.7	9
75	Microstructure-Property Relationships in Sulfonated Polyether Ether Ketone/Silsesquioxane Composite Membranes for Direct Methanol Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, F815-F822.	1.3	9
76	Density functional theory study of hydroxide-ion induced degradation of imidazolium cations. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14355-14361.	3.8	42
77	Electrochemical and Thermal Studies of LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.015</sub> O <sub>2</sub> under Fluorinated Electrolytes. <i>Electrochimica Acta</i> , 2014, 123, 7-13.	2.6	37
78	Platinum supported on titanium-ruthenium oxide is a remarkably stable electrocatalyst for hydrogen fuel cell vehicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 45-50.	3.3	123
79	Strong Metal-Support Interactions Enhance the Activity and Durability of Platinum Supported on Tantalum-Modified Titanium Dioxide Electrocatalysts. <i>ACS Catalysis</i> , 2014, 4, 1516-1525.	5.5	158
80	Kinetic and Mechanistic Investigation of Methanol Oxidation on a Smooth Polycrystalline Pt Surface. <i>Journal of the Electrochemical Society</i> , 2014, 161, F252-F258.	1.3	27
81	Degradation of anion exchange membranes used for hydrogen production by ultrapure water electrolysis. <i>RSC Advances</i> , 2014, 4, 9875.	1.7	128
82	X-ray micro-tomography as a diagnostic tool for the electrode degradation in vanadium redox flow batteries. <i>Electrochemistry Communications</i> , 2014, 48, 155-159.	2.3	69
83	Derivatized cardo-polyetherketone anion exchange membranes for all-vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6605-6615.	5.2	70
84	Structurally-Tuned Nitrogen-Doped Cerium Oxide Exhibits Exceptional Regenerative Free Radical Scavenging Activity in Polymer Electrolytes. <i>Journal of the Electrochemical Society</i> , 2014, 161, F1-F9.	1.3	34
85	Bipolar polymer electrolyte interfaces for hydrogen-oxygen and direct borohydride fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14312-14321.	3.8	40
86	Hydroxide-ion induced degradation pathway for dimethylimidazolium groups in anion exchange membranes. <i>Journal of Membrane Science</i> , 2014, 462, 112-118.	4.1	40
87	Study of Side-chain Effects on the Properties of Anion-exchange Membrane with In Situ Photoswitch. <i>Chemistry Letters</i> , 2014, 43, 1493-1495.	0.7	2
88	The Activity of Benzyl and Allyl $\alpha$ -H Sites in <i>p</i> -Cresol-grafted Fluorinated Poly(aryl ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	0.7	2
89	RuO <sub>2</sub> -SiO <sub>2</sub> mixed oxides as corrosion-resistant catalyst supports for polymer electrolyte fuel cells. <i>Applied Catalysis B: Environmental</i> , 2013, 138-139, 43-50.	10.8	42
90	Polysulfone-based anion exchange membranes demonstrate excellent chemical stability and performance for the all-vanadium redox flow battery. <i>Journal of Materials Chemistry A</i> , 2013, 1, 10458.	5.2	97

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91	In situ fluorescence spectroscopy correlates ionomer degradation to reactive oxygen species generation in an operating fuel cell. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18965.	1.3	20
92	Best Practices for Investigating Anion Exchange Membrane Suitability for Alkaline Electrochemical Devices: Case Study Using Quaternary Ammonium Poly(2,6-dimethyl 1,4-phenylene)oxide Anion Exchange Membranes. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1258-F1274.	1.3	85
93	Estimation of electrode ionomer oxygen permeability and ionomer-phase oxygen transport resistance in polymer electrolyte fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14994.	1.3	41
94	TiO <sub>2</sub> @RuO <sub>2</sub> electrocatalyst supports exhibit exceptional electrochemical stability. <i>Applied Catalysis B: Environmental</i> , 2013, 140-141, 133-140.	10.8	41
95	Perfluorinated Polymer Electrolytes Hybridized with In situ Grown Titania Quasi-Networks. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 42-48.	4.0	13
96	Composite Sulfonated Polyether Ether Ketone (SPEEK) Membranes with 3-(Trihydroxysilyl)-1-Propanesulfonic Acid for a Direct Methanol Fuel Cell (DMFC). <i>ECS Transactions</i> , 2013, 50, 1233-1245.	0.3	5
97	Best Practices for Examining Anion Exchange Membrane Alkaline Stability for Solid-State Alkaline Fuel Cells. <i>ECS Transactions</i> , 2013, 58, 1551-1561.	0.3	3
98	Ta <sub>0.3</sub> Ti <sub>0.7</sub> O <sub>2</sub> Electro-catalyst Supports Exhibit Exceptional Electrochemical Stability. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1207-F1215.	1.3	42
99	Investigation of Cation Degradation in Anion Exchange Membranes Using Multi-Dimensional NMR Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2013, 160, F1006-F1021.	1.3	74
100	Mixed Metal Oxides as Corrosion-Resistant Catalyst Supports for Polymer Electrolyte Fuel Cells. <i>ECS Transactions</i> , 2013, 50, 1669-1679.	0.3	3
101	Alkaline Stability and Ion Conductivity of Polysulfone Anion Exchange Membranes (AEMs) with Different Cation Chemistries. <i>ECS Transactions</i> , 2013, 50, 2183-2197.	0.3	6
102	Investigation of PEM Degradation Kinetics and Degradation Mitigation Using In Situ Fluorescence Spectroscopy and Real-Time Monitoring of Fluoride-Ion Release. <i>ECS Transactions</i> , 2013, 50, 935-944.	0.3	1
103	Ta Modified TiO <sub>2</sub> Supports Exhibit Exceptional Durability in Polymer Electrolyte Fuel Cells. <i>ECS Transactions</i> , 2013, 58, 1823-1834.	0.3	5
104	Subzero Degradation Analysis of Membrane Electrode Assemblies Modified with Additives. <i>ECS Transactions</i> , 2013, 50, 531-537.	0.3	2
105	Structurally Tuned Nitrogen Doped Cerium Oxide as a Superior Free Radical Scavenger for Mitigating Polymer Electrolyte Membrane Degradation. <i>ECS Transactions</i> , 2013, 58, 991-998.	0.3	1
106	Two-dimensional NMR spectroscopy reveals cation-triggered backbone degradation in polysulfone-based anion exchange membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2490-2495.	3.3	416
107	Investigation of polymer electrolyte membrane chemical degradation and degradation mitigation using in situ fluorescence spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1029-1034.	3.3	128
108	CeO <sub>2</sub> Surface Oxygen Vacancy Concentration Governs in Situ Free Radical Scavenging Efficacy in Polymer Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 5098-5102.	4.0	182



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109	Assessing the influence of different cation chemistries on ionic conductivity and alkaline stability of anion exchange membranes. Journal of Materials Chemistry, 2012, 22, 3733.	6.7	156
110	SiO <sub>2</sub> –RuO <sub>2</sub> : A Stable Electrocatalyst Support. ACS Applied Materials & Interfaces, 2012, 4, 6109-6116.	4.0	28
111	Kinetics of the oxygen reduction reaction on Pd <sub>3</sub> M (M=Cu, Ni, Fe) electrocatalysts synthesized at elevated annealing temperatures. Electrochimica Acta, 2012, 75, 254-261.	2.6	17
112	Electrochemical Characterization of the Dye-Sensitized Solar Cells. ECS Transactions, 2011, 33, 159-168.	0.3	2
113	A perfluorinated anion exchange membrane with a 1,4-dimethylpiperazinium cation. Journal of Materials Chemistry, 2011, 21, 6158.	6.7	63
114	Degradation mitigation in PEM fuel cells using metal nanoparticle additives. Journal of Materials Chemistry, 2011, 21, 19381.	6.7	37
115	Functionalized Silica Composite Membranes for Direct Methanol Fuel Cells. ECS Transactions, 2011, 41, 1633-1643.	0.3	2
116	Anion Exchange Membranes (AEMs) with Perfluorinated and Polysulfone Backbones with Different Cation Chemistries. ECS Transactions, 2011, 41, 1795-1816.	0.3	22
117	Platinum supported on CeO <sub>2</sub> effectively scavenges free radicals within the electrolyte of an operating fuel cell. Chemical Communications, 2011, 47, 11549.	2.2	61
118	RRDE Study of ORR Kinetics on a Pd <sub>3</sub> Fe/C Electrocatalyst Annealed at Elevated Temperatures. ECS Transactions, 2011, 35, 113-121.	0.3	0
119	Electrochemical Performance of Carbon-Coated HQ-LiFePO <sub>4</sub> Cathode. ECS Transactions, 2011, 35, 229-236.	0.3	1
120	Proton Conducting Silica Particles: Relation between Morphology and Conductivity. ECS Transactions, 2011, 41, 875-882.	0.3	0
121	RuO <sub>2</sub> ·xH <sub>2</sub> O-TiO <sub>2</sub> as Catalyst Support for PEM Fuel Cells. ECS Transactions, 2011, 41, 1249-1255.	0.3	2
122	Thermal Characterization of LiFePO <sub>4</sub> Cathode in Lithium Ion Cells. ECS Transactions, 2011, 35, 177-183.	0.3	15
123	An In Situ Probe for Investigating PEM Degradation Kinetics and Degradation Mitigation. ECS Transactions, 2011, 41, 1347-1357.	0.3	6
124	The Chalkboard: Anion Exchange Membrane Fuel Cells. Electrochemical Society Interface, 2010, 19, 31-35.	0.3	93
125	Quarternary Ammonium and Phosphonium Based Anion Exchange Membranes for Alkaline Fuel Cells. ECS Transactions, 2010, 33, 1903-1913.	0.3	26
126	Degradation Mitigation in PEM Fuel Cells Using Metal Nanoparticle and Metal Oxide Additives. ACS Symposium Series, 2010, , 187-207.	0.5	6



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127	Ru <sub>x</sub> Ti <sub>1-x</sub> O <sub>2</sub> as Catalyst Support for PEM Fuel Cell. ECS Transactions, 2010, 33, 493-505.	0.3	5
128	Investigation of Molecular Probes Sensitivity to the Fenton Reaction Using Fluorescence Spectroscopy. ECS Transactions, 2010, 33, 889-897.	0.3	0
129	Influence of binder properties on kinetic and transport processes in polymer electrolyte fuel cell electrodes. Physical Chemistry Chemical Physics, 2010, 12, 6140.	1.3	42
130	In Situ Detection of Reactive Oxygen Species in PEM Fuel Cells. ECS Transactions, 2009, 25, 443-451.	0.3	4
131	Model Studies of the Durability of a Titania-Modified Nafion Fuel Cell Membrane. Journal of the Electrochemical Society, 2009, 156, B1092.	1.3	16
132	In Situ Measurement of Oxygen Permeability in Polymer Electrolyte Membranes. ECS Transactions, 2009, 25, 433-441.	0.3	7
133	Platinum-carbon black-titanium dioxide nanocomposite electrocatalysts for fuel cell applications. Journal of Chemical Sciences, 2009, 121, 655-664.	0.7	21
134	Effect of cathode binder IEC on kinetic and transport losses in all-SPEEK MEAs. Electrochimica Acta, 2008, 53, 6328-6336.	2.6	34
135	Photocatalytically Generated Pt-Ca-TiO <sub>2</sub> Electrocatalysts with Enhanced Catalyst Dispersion for Improved Membrane Durability in Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2008, 155, B1102.	1.3	42
136	Membrane and MEA Development in Polymer Electrolyte Fuel Cells. , 2008, , 1-28.		0
137	Degradation Mitigation in Polymer Electrolyte Membranes Using Cerium Oxide as a Regenerative Free-Radical Scavenger. Electrochemical and Solid-State Letters, 2008, 11, B113.	2.2	170
138	Pt-Ca-WO <sub>3</sub> Electrocatalysts for Degradation Mitigation in Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2008, 155, B696.	1.3	37
139	Membranes and MEAs Based on Sulfonated Poly(ether ketone ketone) and Heteropolyacids for Polymer Electrolyte Fuel Cells. Journal of the Electrochemical Society, 2008, 155, B532.	1.3	33
140	Hybrid Catalysts for Degradation Mitigation in PEFCs. ECS Transactions, 2007, 11, 949-960.	0.3	3
141	SPEEK/functionalized silica composite membranes for polymer electrolyte fuel cells. Journal of Power Sources, 2007, 170, 259-267.	4.0	121
142	Pt/C/MnO <sub>2</sub> hybrid electrocatalysts for degradation mitigation in polymer electrolyte fuel cells. Journal of Power Sources, 2007, 174, 159-163.	4.0	53
143	Metal dioxide supported heteropolyacid/Nafion® composite membranes for elevated temperature/low relative humidity PEFC operation. Journal of Membrane Science, 2006, 279, 506-512.	4.1	64
144	Stabilized composite membranes and membrane electrode assemblies for elevated temperature/low relative humidity PEFC operation. Journal of Power Sources, 2005, 152, 182-188.	4.0	74

#	ARTICLE	IF	CITATIONS
145	Polymer blends based on sulfonated poly(ether ketone ketone) and poly(ether sulfone) as proton exchange membranes for fuel cells. <i>Journal of Membrane Science</i> , 2005, 256, 122-122.	4.1	62
146	Stabilized heteropolyacid/Nafion® composite membranes for elevated temperature/low relative humidity PEFC operation. <i>Electrochimica Acta</i> , 2005, 50, 1181-1187.	2.6	162
147	Effect of particle size reduction on the conductivity of Nafion/phosphotungstic acid composite membranes. <i>Journal of Membrane Science</i> , 2005, 266, 110-114.	4.1	77
148	Investigation of Nafion®/HPA composite membranes for high temperature/low relative humidity PEMFC operation. <i>Journal of Membrane Science</i> , 2004, 232, 31-44.	4.1	282