

Siyu Ye

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4494845/siyu-ye-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

9,133
citations

42
h-index

95
g-index

128
ext. papers

10,366
ext. citations

9
avg, IF

6.39
L-index

#	Paper	IF	Citations
116	Bridging the gap between highly active oxygen reduction reaction catalysts and effective catalyst layers for proton exchange membrane fuel cells. <i>Nature Energy</i> , 2021 , 6, 475-486	62.3	58
115	Doped Ceria Nanoparticles with Reduced Solubility and Improved Peroxide Decomposition Activity for PEM Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 024507	3.9	4
114	A penalized blind likelihood Kriging method for surrogate modeling. <i>Structural and Multidisciplinary Optimization</i> , 2020 , 61, 457-474	3.6	9
113	Pt/Pd Single-Atom Alloys as Highly Active Electrochemical Catalysts and the Origin of Enhanced Activity. <i>ACS Catalysis</i> , 2019 , 9, 9350-9358	13.1	61
112	Ultralow Loading and High-Performing Pt Catalyst for a Polymer Electrolyte Membrane Fuel Cell Anode Achieved by Atomic Layer Deposition. <i>ACS Catalysis</i> , 2019 , 9, 5365-5374	13.1	21
111	Rational design of porous structures via molecular layer deposition as an effective stabilizer for enhancing Pt ORR performance. <i>Nano Energy</i> , 2019 , 60, 111-118	17.1	41
110	Tailoring Carbon Nanotube Microsphere Architectures with Controlled Porosity. <i>Advanced Functional Materials</i> , 2019 , 29, 1903983	15.6	8
109	Selective exposure of platinum catalyst embedded in protective oxide layer on conductive titanium carbide support. <i>Materials Today Energy</i> , 2019 , 13, 353-361	7	
108	Top-down bottom-up graphene synthesis. <i>Nano Futures</i> , 2019 , 3, 042003	3.6	12
107	An Effective Surrogate Ensemble Modeling Method for Satellite Coverage Traffic Volume Prediction. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3689	2.6	2
106	Integrating PGM-Free Catalysts into Catalyst Layers and Proton Exchange Membrane Fuel Cell Devices. <i>Advanced Materials</i> , 2019 , 31, e1804846	24	77
105	A regularization method for constructing trend function in Kriging model. <i>Structural and Multidisciplinary Optimization</i> , 2019 , 59, 1221-1239	3.6	14
104	Improving the corrosion resistance of proton exchange membrane fuel cell carbon supports by pentafluorophenyl surface functionalization. <i>Journal of Power Sources</i> , 2018 , 378, 732-741	8.9	25
103	Understanding the Corrosion Resistance of Meso- and Micro-Porous Carbons for Application in PEM Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2018 , 165, F3230-F3240	3.9	23
102	Batteries and fuel cells for emerging electric vehicle markets. <i>Nature Energy</i> , 2018 , 3, 279-289	62.3	1176
101	Cavitation Mediated 3D Microstructured Architectures from Nanocarbon. <i>Advanced Functional Materials</i> , 2018 , 28, 1706832	15.6	7
100	Critical advancements in achieving high power and stable nonprecious metal catalyst-based MEAs for real-world proton exchange membrane fuel cell applications. <i>Science Advances</i> , 2018 , 4, eaar7180	14.3	117

99	Embellished hollow spherical catalyst boosting activity and durability for oxygen reduction reaction. <i>Nano Energy</i> , 2018 , 51, 745-753	17.1	27
98	Web-like 3D Architecture of Pt Nanowires and Sulfur-Doped Carbon Nanotube with Superior Electrocatalytic Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 93-98	8.3	36
97	Surface Characteristics of Microporous and Mesoporous Carbons Functionalized with Pentafluorophenyl Groups. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2130-2142	9.5	21
96	New insights into the surface properties of hard-templated ordered mesoporous carbons. <i>Carbon</i> , 2018 , 127, 707-717	10.4	17
95	Composite Carbon Nanotube Microsphere Coatings for Use as Electrode Supports. <i>Advanced Functional Materials</i> , 2018 , 28, 1803713	15.6	9
94	Origin of achieving the enhanced activity and stability of Pt electrocatalysts with strong metal-support interactions via atomic layer deposition. <i>Nano Energy</i> , 2018 , 53, 716-725	17.1	31
93	An active and robust Si-Fe/N/C catalyst derived from waste reed for oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 85-93	21.8	62
92	Graphene modified nanosized Ag electrocomposites. <i>Materials Research Bulletin</i> , 2017 , 89, 42-50	5.1	6
91	New insights into non-precious metal catalyst layer designs for proton exchange membrane fuel cells: Improving performance and stability. <i>Journal of Power Sources</i> , 2017 , 344, 39-45	8.9	31
90	Current Status and Future Development of Catalyst Materials and Catalyst Layers for Proton Exchange Membrane Fuel Cells: An Industrial Perspective. <i>ACS Energy Letters</i> , 2017 , 2, 629-638	20.1	303
89	Atomic layer deposited tantalum oxide to anchor Pt/C for a highly stable catalyst in PEMFCs. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9760-9767	13	33
88	Is the rapid initial performance loss of Fe/N/C non precious metal catalysts due to micropore flooding?. <i>Energy and Environmental Science</i> , 2017 , 10, 296-305	35.4	103
87	3D Porous Fe/N/C Spherical Nanostructures As High-Performance Electrocatalysts for Oxygen Reduction in Both Alkaline and Acidic Media. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36944-36954	9.5	70
86	Atomic-Scale Preparation of Octopod Nanoframes with High-Index Facets as Highly Active and Stable Catalysts. <i>Advanced Materials</i> , 2017 , 29,	24	73
85	Optimization of sulfur-doped graphene as an emerging platinum nanowires support for oxygen reduction reaction. <i>Nano Energy</i> , 2016 , 19, 27-38	17.1	46
84	Carbonaceous Nanowire Supports for Polymer Electrolyte Membrane Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2016 , 163, F115-F121	3.9	
83	Unexpected hydrogen oxidation selectivity of Pt/NbTiO ₂ catalysts. <i>Nano Energy</i> , 2016 , 27, 157-166	17.1	4
82	Electrically Bloomed Platinum Nanoflowers on Exfoliated Graphene: An Efficient Alcohol Oxidation Catalyst. <i>Journal of the Electrochemical Society</i> , 2016 , 163, D615-D621	3.9	11

81	A review of the stability and durability of non-precious metal catalysts for the oxygen reduction reaction in proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2015 , 285, 334-348	8.9	365
80	Evaluation of the Corrosion Resistance of Carbons for Use as PEM Fuel Cell Cathode Supports. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F1333-F1341	3.9	24
79	Multigrain platinum nanowires consisting of oriented nanoparticles anchored on sulfur-doped graphene as a highly active and durable oxygen reduction electrocatalyst. <i>Advanced Materials</i> , 2015 , 27, 1229-34	24	106
78	Extremely stable platinum nanoparticles encapsulated in a zirconia nanocage by area-selective atomic layer deposition for the oxygen reduction reaction. <i>Advanced Materials</i> , 2015 , 27, 277-81	24	206
77	Novel Mesoporous Carbon Supports for PEMFC Catalysts. <i>Catalysts</i> , 2015 , 5, 1046-1067	4	29
76	Accelerated Stress Testing by Rotating Disk Electrode for Carbon Corrosion in Fuel Cell Catalyst Supports. <i>Journal of the Electrochemical Society</i> , 2015 , 162, F783-F788	3.9	51
75	Electrocatalytic Oxygen Reduction Performance of Silver Nanoparticle Decorated Electrochemically Exfoliated Graphene. <i>Langmuir</i> , 2015 , 31, 9718-27	4	24
74	Wettability of colloid-imprinted carbons by contact angle kinetics and water vapor sorption measurements. <i>Carbon</i> , 2015 , 87, 44-60	10.4	19
73	UV-visible spectroscopy method for screening the chemical stability of potential antioxidants for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2015 , 281, 238-242	8.9	15
72	High stability and activity of Pt electrocatalyst on atomic layer deposited metal oxide/nitrogen-doped graphene hybrid support. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 15967-15974	6.7	42
71	Effect of CeOx Crystallite Size on the Chemical Stability of CeOx Nanoparticles. <i>Journal of the Electrochemical Society</i> , 2014 , 161, F1075-F1080	3.9	27
70	Pt/SnO ₂ /nitrogen-doped CNT hybrid catalysts for proton-exchange membrane fuel cells (PEMFC): Effects of crystalline and amorphous SnO ₂ by atomic layer deposition. <i>Journal of Power Sources</i> , 2013 , 238, 144-149	8.9	37
69	Ordered bilayer ruthenium-platinum core-shell nanoparticles as carbon monoxide-tolerant fuel cell catalysts. <i>Nature Communications</i> , 2013 , 4, 2466	17.4	164
68	Effect of carbon support nanostructure on the oxygen reduction activity of Pt/C catalysts. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2812	13	46
67	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , 2013 , 3,	4.9	589
66	Electrocatalytic activity and durability of Pt/NbO ₂ and Pt/Ti ₄ O ₇ nanofibers for PEM fuel cell oxygen reduction reaction. <i>Electrochimica Acta</i> , 2012 , 59, 538-547	6.7	72
65	Nanocrystalline tungsten carbide (WC) synthesis/characterization and its possible application as a PEM fuel cell catalyst support. <i>Electrochimica Acta</i> , 2012 , 61, 198-206	6.7	50
64	Titanium carbide and its core-shelled derivative TiC@TiO ₂ as catalyst supports for proton exchange membrane fuel cells. <i>Electrochimica Acta</i> , 2012 , 69, 397-405	6.7	100

63	Carbon/Nb _{0.07} Ti _{0.93} O ₂ composite supported PtPd electrocatalysts for PEM fuel cell oxygen reduction reaction. <i>Electrochimica Acta</i> , 2012 , 75, 220-228	6.7	32
62	Effects of synthesis condition on formation of desired crystal structures of doped-TiO ₂ /carbon composite supports for ORR electrocatalysts. <i>Electrochimica Acta</i> , 2012 , 77, 225-231	6.7	16
61	First time investigation of Pt nanocatalysts deposited inside carbon mesopores of controlled length and diameter. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7164		25
60	Wettability of Nafion and Nafion/Vulcan carbon composite films. <i>Langmuir</i> , 2012 , 28, 6698-705	4	22
59	Nb-doped TiO ₂ /carbon composite supports synthesized by ultrasonic spray pyrolysis for proton exchange membrane (PEM) fuel cell catalysts. <i>Journal of Power Sources</i> , 2012 , 220, 1-9	8.9	20
58	Total synthesis of (+)-asteriscanolide: further exploration of the rhodium(I)-catalyzed [(5+2)+1] reaction of ene-vinylcyclopropanes and CO. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 593-604	4.5	47
57	Facile Aza-Michael Additions of Uracil Derivatives to Acrylates. <i>Journal of Chemical Research</i> , 2012 , 36, 114-117	0.6	4
56	Highly Durable Platinum-Cobalt Nanowires by Microwave Irradiation as Oxygen Reduction Catalyst for PEM Fuel Cell. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, B83		24
55	High oxygen-reduction activity and durability of nitrogen-doped graphene. <i>Energy and Environmental Science</i> , 2011 , 4, 760	35.4	1073
54	Effects of crossover hydrogen on platinum dissolution and agglomeration. <i>Journal of Power Sources</i> , 2011 , 196, 7985-7988	8.9	20
53	Atomic layer deposition assisted Pt-SnO ₂ hybrid catalysts on nitrogen-doped CNTs with enhanced electrocatalytic activities for low temperature fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11085-11092	6.7	53
52	TfOH-catalyzed tandem cyclopropane ring enlargement/C-C formation/etherification of alkynylcyclopropanes and 1,3-diketones to cyclobutane-fused dihydrofurans. <i>Chemical Communications</i> , 2011 , 47, 794-6	5.8	26
51	3D boron doped carbon nanorods/carbon-microfiber hybrid composites: synthesis and applications in a highly stable proton exchange membrane fuel cell. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18195		36
50	Nitrogen Doping Effects on Carbon Nanotubes and the Origin of the Enhanced Electrocatalytic Activity of Supported Pt for Proton-Exchange Membrane Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3769-3776	3.8	211
49	Controlling the deposition of Pt nanoparticles within the surface region of Nafion. <i>Journal of Membrane Science</i> , 2011 , 376, 162-169	9.6	17
48	Nitrogen doping effects on the structure of graphene. <i>Applied Surface Science</i> , 2011 , 257, 9193-9198	6.7	400
47	Measurement of effective gas diffusion coefficients of catalyst layers of PEM fuel cells with a Loschmidt diffusion cell. <i>Journal of Power Sources</i> , 2011 , 196, 674-678	8.9	75
46	Non-noble metal oxygen reduction electrocatalysts based on carbon nanotubes with controlled nitrogen contents. <i>Journal of Power Sources</i> , 2011 , 196, 1795-1801	8.9	102

45	Effect of Pt-loaded carbon support nanostructure on oxygen reduction catalysis. <i>Journal of Power Sources</i> , 2011 , 196, 5438-5445	8.9	46
44	Low equivalent weight short-side-chain perfluorosulfonic acid ionomers in fuel cell cathode catalyst layers. <i>Journal of Power Sources</i> , 2011 , 196, 6168-6176	8.9	38
43	Structural and Morphological Properties of Carbon Supports: Effect on Catalyst Degradation. <i>ECS Transactions</i> , 2010 , 33, 425-431	1	2
42	Pt-SnO ₂ /Pd/C Electrocatalyst with Enhanced Activity and Durability for the Oxygen Reduction Reaction at Low Pt Loading: The Effect of Carbon Support Type and Activation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16488-16504	3.8	35
41	Gold(I)-catalyzed ring expansions of unactivated alkynylcyclopropanes to (e)-2-alkylidenecyclobutanamines in the presence of sulfonamides. <i>Organic Letters</i> , 2010 , 12, 804-7	6.2	42
40	Nafion Film-Templated Platinum Electrodes for Oxygen Reduction. <i>Electrocatalysis</i> , 2010 , 1, 22-27	2.7	5
39	Oxygen reduction activity dependence on the mesoporous structure of imprinted carbon supports. <i>Electrochemistry Communications</i> , 2010 , 12, 1666-1669	5.1	23
38	Liquid Crystalline Phase Templated Platinum Catalyst for Oxygen Reduction. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B1169	3.9	6
37	PEM Fuel Cell Catalysts: The Importance of Catalyst Support. <i>ECS Transactions</i> , 2009 , 16, 2101-2113	1	20
36	3-D composite electrodes for high performance PEM fuel cells composed of Pt supported on nitrogen-doped carbon nanotubes grown on carbon paper. <i>Electrochemistry Communications</i> , 2009 , 11, 438-441	5.1	136
35	Enhanced stability of Pt electrocatalysts by nitrogen doping in CNTs for PEM fuel cells. <i>Electrochemistry Communications</i> , 2009 , 11, 2071-2076	5.1	176
34	A Study of the Catalytic Interface for O ₂ Electroreduction on Pt: The Interaction between Carbon Support Meso/Microstructure and Ionomer (Nafion) Distribution. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 298-307	3.8	42
33	Rh(I)-catalyzed intramolecular [3 + 2] cycloaddition of trans-vinylcyclopropane-enes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7178-9	16.4	127
32	Reactive Sensor for Investigation of Gas Diffusion Layer Hydrophobicity in PEM Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, B148		8
31	Mechanisms of Brønsted Acid Catalyzed Additions of Phenols and Protected Amines to Olefins: A DFT Study. <i>European Journal of Organic Chemistry</i> , 2008 , 2008, 4296-4303	3.2	27
30	CO-tolerant Catalysts 2008 , 759-834		5
29	Reversal-tolerant Catalyst Layers 2008 , 835-860		1
28	A transient PEMFC model with CO poisoning and mitigation by O ₂ bleeding and Ru-containing catalyst. <i>Journal of Power Sources</i> , 2007 , 166, 1-21	8.9	52

27	Recent advances in activity and durability enhancement of Pt/C catalytic cathode in PEMFC. <i>Journal of Power Sources</i> , 2007 , 172, 145-154	8.9	638
26	Recent advances in activity and durability enhancement of Pt/C catalytic cathode in PEMFC. <i>Journal of Power Sources</i> , 2007 , 172, 133-144	8.9	403
25	Degradation Resistant Cathodes in Polymer Electrolyte Membrane Fuel Cells. <i>ECS Transactions</i> , 2006 , 3, 657-666	1	18
24	Characterization of Catalyst Layer Structural Changes in PEMFC as a Function of Durability Testing. <i>ECS Transactions</i> , 2006 , 3, 743-751	1	17
23	Cobalt-carbonized aerogel nanocomposites electrocatalysts for the oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2005 , 30, 1011-1015	6.7	45
22	Oxygen reduction on an iron-carbonized aerogel nanocomposite electrocatalyst. <i>Journal of Solid State Electrochemistry</i> , 2005 , 9, 146-153	2.6	17
21	Non-noble metal-carbonized aerogel composites as electrocatalysts for the oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2003 , 5, 272-275	5.1	70
20	A New Fuel Cell Electrocatalyst Based on Carbonized Polyacrylonitrile Foam: The Nature of Platinum-Support Interactions. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 90-95	3.9	50
19	A new electrocatalyst consisting of a molecularly homogeneous platinum-aerogel nanocomposite. <i>Canadian Journal of Chemistry</i> , 1997 , 75, 1666-1673	0.9	12
18	Fractal Dimension of Platinum Particles Dispersed in Highly Porous Carbonized Polyacrylonitrile Microcellular Foam. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 1734-1738	3.9	22
17	Electrochemical preparation and characterization of conducting copolymers: poly (aniline-co-N-butylaniline). <i>Synthetic Metals</i> , 1997 , 88, 65-72	3.6	35
16	A New Polypyrrole/Disulfide Electrode Studied by Electrochemistry and the Electrochemical Quartz Crystal Microbalance. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 15848-15855		13
15	Oxygen evolution on titanium anodes coated with conductive metallic oxides: Kinetics and mechanism in alkaline solution. <i>Electrochimica Acta</i> , 1996 , 41, 827-834	6.7	20
14	Oxygen reduction on a new electrocatalyst based on highly porous carbonized polyacrylonitrile microcellular foam with very low platinum loading. <i>Journal of Electroanalytical Chemistry</i> , 1996 , 415, 115-121	4.1	27
13	A New Fuel Cell Electrocatalyst Based on Highly Porous Carbonized Polyacrylonitrile Foam with Very Low Platinum Loading. <i>Journal of the Electrochemical Society</i> , 1996 , 143, L7-L9	3.9	38
12	Electrochemistry of poly(aniline-co-N-butylaniline) copolymer: Comparison with polyaniline and poly(N-butylaniline). <i>Journal of Electroanalytical Chemistry</i> , 1995 , 381, 71-80	4.1	26
11	Spectroscopic Investigation of a Polypyrrole / MoS ₄ ²⁻ / MoS ₃ Composite Film Electrode in Aqueous KCl Solution. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 2296-2301	3.9	49
10	Electrochemical properties and stabilization of conducting poly(diarylanilines) in acetonitrile. <i>Synthetic Metals</i> , 1995 , 73, 157-164	3.6	3

9	Electrochemical and In Situ Spectroelectrochemical Study on Polypyrrole/Disulfide Composite Electrode. <i>Journal of the Electrochemical Society</i> , 1994 , 141, L49-L50	3.9	18
8	Impedance study of polypyrrole films doped with tetrathiomolybdate anions and containing molybdenum trisulfide. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 12373-12378		47
7	Lateral growth of polypyrrole at an ionically conducting polymer coated dual electrode assembly. <i>Journal of Electroanalytical Chemistry</i> , 1993 , 344, 395-400	4.1	10
6	Anodic Oxidation of 1,3-Cyclohexanedione to 1,2,3-Cyclohexanetrione. <i>Chemistry Letters</i> , 1992 , 21, 609-612		2
5	Anodic Oxidation of Norcamphor in Aqueous Electrolytes. <i>Journal für Praktische Chemie, Chemiker-Zeitung</i> , 1992 , 334, 37-40		
4	Polypyrrole film electrodes electrochemically doped with tetrathiomolybdate anions: preparation and characterization. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 334, 35-55	4.1	42
3	Anodic oxidation of cyclic 1,3-diketones. <i>Electrochimica Acta</i> , 1991 , 36, 597-603	6.7	6
2	Selective anodic oxidation of camphor. <i>Tetrahedron</i> , 1991 , 47, 5463-5470	2.4	4
1	Polynomial Response Surface based on basis function selection by multitask optimization and ensemble modeling. <i>Complex & Intelligent Systems</i> , 1	7.1	0