

Yung-Eun Sung

List of Publications by Year in Descending Order

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

489
papers

21,995
citations

77
h-index

126
g-index

513
ext. papers

25,044
ext. citations

8.5
avg, IF

7
L-index

#	Paper	IF	Citations
489	High-performance and durable water electrolysis using a highly conductive and stable anion-exchange membrane. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 9115-9126	6.7	2
488	Structural Insights into Multi-Metal Spinel Oxide Nanoparticles for Boosting Oxygen Reduction Electrocatalysis (Adv. Mater. 8/2022). <i>Advanced Materials</i> , 2022 , 34, 2270065	24	
487	High-performance long-term driving proton exchange membrane fuel cell implemented with chemically ordered Pt-based alloy catalyst at ultra-low Pt loading. <i>Journal of Power Sources</i> , 2022 , 533, 231378	8.9	1
486	Hierarchical porous single-wall carbon nanohorns with atomic-level designed single-atom Co sites toward oxygen reduction reaction. <i>Nano Energy</i> , 2022 , 97, 107206	17.1	1
485	Structural modification of electrode for anion exchange membrane fuel cell by controlling ionomer dispersion. <i>International Journal of Energy Research</i> , 2022 , 46, 6471-6479	4.5	1
484	Operando Visualization of Morphological Evolution in Mg Metal Anode: Insight into Dendrite Suppression for Stable Mg Metal Batteries. <i>ACS Energy Letters</i> , 2022 , 7, 162-170	20.1	6
483	Three-Dimensional Unified Electrode Design Using a NiFeOOH Catalyst for Superior Performance and Durable Anion-Exchange Membrane Water Electrolyzers. <i>ACS Catalysis</i> , 2022 , 12, 135-145	13.1	3
482	Effect of Precursor Status on the Transition from Complex to Carbon Shell in a Platinum Core-Carbon Shell Catalyst.. <i>ACS Omega</i> , 2022 , 7, 15615-15624	3.9	
481	Understandings about functionalized porous carbon via scanning transmission x-ray microscopy (STXM) for high sulfur utilization in lithium-sulfur batteries. <i>Nano Energy</i> , 2022 , 107446	17.1	0
480	Differences in the Electrochemical Performance of Pt-Based Catalysts Used for Polymer Electrolyte Membrane Fuel Cells in Liquid Half- and Full-Cells. <i>Chemical Reviews</i> , 2021 ,	68.1	15
479	Effect of iridium oxide as an additive on catalysts with different Pt contents in cell reversal conditions of polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 1863-1863	6.7	0
478	Structural Insights into Multi-Metal Spinel Oxide Nanoparticles for Boosting Oxygen Reduction Electrocatalysis. <i>Advanced Materials</i> , 2021 , e2107868	24	4
477	The impact of the catalyst layer structure on the performance of anion exchange membrane fuel cell. <i>Electrochimica Acta</i> , 2021 , 400, 139439	6.7	1
476	Electrochemical behavior of residual salts and an effective method to remove impurities in the formation of porous copper electrode for lithium metal batteries. <i>International Journal of Energy Research</i> , 2021 , 45, 10738-10745	4.5	0
475	Amphiphilic Ti porous transport layer for highly effective PEM unitized regenerative fuel cells. <i>Science Advances</i> , 2021 , 7,	14.3	5
474	Nonprecious Metal Bifunctional Catalysts for Oxygen Electrocatalysis Using a Metal-Organic Framework. <i>Bulletin of the Korean Chemical Society</i> , 2021 , 42, 919	1.2	3
473	Effect of anode iridium oxide content on the electrochemical performance and resistance to cell reversal potential of polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 14713-14723	6.7	2

472	Synthesis of Heteroatom (B, N, and O)-Doped Carbons via Chlorination of a Carbonitride-Boride Mixture: Influence of Boron Addition on Structure and Electrochemical Properties of Carbon. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 13850-13861	3.8	0
471	Electrochemical Regeneration of Free Chlorine Treated Nickel Oxide Catalysts for Oxidation of Aqueous Pollutants. <i>Catalysis Today</i> , 2021 , 375, 514-521	5.3	2
470	High-performance proton-exchange membrane water electrolysis using a sulfonated poly(arylene ether sulfone) membrane and ionomer. <i>Journal of Membrane Science</i> , 2021 , 620, 118871	9.6	22
469	Anionic Redox Reactions in Cathodes for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2021 , 8, 625-643	4.3	4
468	Electrochemical recovery of LiOH from used CO ₂ adsorbents. <i>Catalysis Today</i> , 2021 , 359, 83-89	5.3	2
467	Self-supported mesoscopic tin oxide nanofilms for electrocatalytic reduction of carbon dioxide to formate. <i>Chemical Communications</i> , 2021 , 57, 3445-3448	5.8	2
466	Maximizing the Active Site Densities of Single-Atomic Fe ^{II} Electrocatalysts for High-Performance Anion Membrane Fuel Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1459-1466	6.1	7
465	Recent progress in in situ/operando analysis tools for oxygen electrocatalysis. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 173001	3	6
464	Effects of Photochemical Oxidation of the Carbonaceous Additives on Li-S Cell Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41517-41523	9.5	1
463	Origami-Based Flexible and Simple Tubular Polymer Electrolyte Membrane Fuel Cell Stack. <i>ACS Energy Letters</i> , 2021 , 6, 3195-3202	20.1	2
462	Single-atom Mn ^{II} catalysts for oxygen reduction electrocatalysis. <i>Trends in Chemistry</i> , 2021 , 3, 779-794	14.8	13
461	Polymer electrolyte membrane unitized regenerative fuel cells: Operational considerations for achieving high round trip efficiency at low catalyst loading. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120458	21.8	3
460	End-group cross-linked membranes based on highly sulfonated poly(arylene ether sulfone) with vinyl functionalized graphene oxide as a cross-linker and a filler for proton exchange membrane fuel cell application. <i>Journal of Polymer Science</i> , 2020 , 58, 3456-3466	2.4	2
459	Recent Advances in Electrochemical Oxygen Reduction to H ₂ O ₂ : Catalyst and Cell Design. <i>ACS Energy Letters</i> , 2020 , 5, 1881-1892	20.1	74
458	Sn(salen)-derived SnS nanoparticles embedded in N-doped carbon for high performance lithium-ion battery anodes. <i>Chemical Communications</i> , 2020 , 56, 8095-8098	5.8	17
457	Correction to Recent Advances in Electrochemical Oxygen Reduction to H ₂ O ₂ : Catalyst and Cell Design. <i>ACS Energy Letters</i> , 2020 , 5, 2130-2130	20.1	2
456	Integrated porous cobalt oxide/cobalt anode with micro- and nano-pores for lithium ion battery. <i>Applied Surface Science</i> , 2020 , 525, 146592	6.7	10
455	Bi-MOF derived micro/meso-porous Bi@C nanoplates for high performance lithium-ion batteries. <i>Nanoscale</i> , 2020 , 12, 15214-15221	7.7	12

454	Design considerations for lithium-sulfur batteries: mass transport of lithium polysulfides. <i>Nanoscale</i> , 2020 , 12, 15466-15472	7.7	8
453	Understanding the Behaviors of EMnO in Electrochemical Lithium Recovery: Key Limiting Factors and a Route to the Enhanced Performance. <i>Environmental Science & Technology</i> , 2020 , 54, 9044-9051 ^{10.3}	10.3	11
452	Epitaxially Strained CeO /Mn O Nanocrystals as an Enhanced Antioxidant for Radioprotection. <i>Advanced Materials</i> , 2020 , 32, e2001566	24	33
451	Color-switchable electrochromic Co(OH)2/Ni(OH)2 nanofilms with ultrafast kinetics for multifunctional smart windows. <i>Nano Energy</i> , 2020 , 72, 104720	17.1	29
450	Directly integrated all-solid-state flexible lithium batteries on polymer substrate. <i>Journal of Power Sources</i> , 2020 , 455, 227978	8.9	5
449	Operando Identification of the Chemical and Structural Origin of Li-Ion Battery Aging at Near-Ambient Temperature. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13406-13414	16.4	8
448	Sulfonated poly(arylene ether sulfone) composite membrane having sulfonated polytriazole grafted graphene oxide for high-performance proton exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2020 , 612, 118428	9.6	18
447	Structural and Thermodynamic Understandings in Mn-Based Sodium Layered Oxides during Anionic Redox. <i>Advanced Science</i> , 2020 , 7, 2001263	13.6	21
446	Revisiting the strategies for stabilizing lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13874-13895	13	24
445	Capacitive Deionization: Rapid Inversion of Surface Charges in Heteroatom-Doped Porous Carbon: A Route to Robust Electrochemical Desalination (Adv. Funct. Mater. 9/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070054	15.6	
444	Effect of different surface functional groups on carbon supports toward methanol electro-oxidation of Pt nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 875, 113931	4.1	3
443	Atomic-level tuning of Co-N-C catalyst for high-performance electrochemical HO production. <i>Nature Materials</i> , 2020 , 19, 436-442	27	315
442	A small-strain niobium nitride anode with ordered mesopores for ultra-stable potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3119-3127	13	19
441	Design and synthesis of multigrain nanocrystals via geometric misfit strain. <i>Nature</i> , 2020 , 577, 359-363	50.4	36
440	Spirobiindane-Based Poly(arylene ether sulfone) Ionomers for Alkaline Anion Exchange Membrane Fuel Cells. <i>Macromolecular Research</i> , 2020 , 28, 275-281	1.9	4
439	Enhancement of service life of polymer electrolyte fuel cells through application of nanodispersed ionomer. <i>Science Advances</i> , 2020 , 6, eaaw0870	14.3	25
438	Low-loading IrO2 supported on Pt for catalysis of PEM water electrolysis and regenerative fuel cells. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118955	21.8	20
437	Electrokinetic Analysis of Poorly Conductive Electrocatalytic Materials. <i>ACS Catalysis</i> , 2020 , 10, 4990-4996 ^{5.1}	5.1	21

436	Rapid Inversion of Surface Charges in Heteroatom-Doped Porous Carbon: A Route to Robust Electrochemical Desalination. <i>Advanced Functional Materials</i> , 2020 , 30, 1909387	15.6	23
435	Boosting electrochemical stability of ultralow-Pt nanoparticle with Matryoshka-like structure in polymer electrolyte membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118450	21.8	5
434	The keys for effective distribution of intergranular voids of peapod-like MnO@C core-shell for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 152760	5.7	4
433	Cross-linked sulfonated poly(ether ether ketone) membranes formed by poly(2,5-benzimidazole)-grafted graphene oxide as a novel cross-linker for direct methanol fuel cell applications. <i>Journal of Power Sources</i> , 2020 , 448, 227427	8.9	25
432	Controlling active sites of FeNi electrocatalysts for oxygen electrocatalysis. <i>Nano Energy</i> , 2020 , 78, 105395	17.1	14
431	Activity-Stability Relationship in [email-protected] Nanoparticles for Electrocatalysis. <i>ACS Energy Letters</i> , 2020 , 5, 2827-2834	20.1	22
430	Direct Synthesis of Intermetallic Platinum-Alloy Nanoparticles Highly Loaded on Carbon Supports for Efficient Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14190-14200	16.4	62
429	Tunable Synthesis of N,C-Codoped Ti ³⁺ -Enriched Titanium Oxide Support for Highly Durable PEMFC Cathode. <i>ACS Catalysis</i> , 2020 , 10, 12080-12090	13.1	14
428	Poly(carbazole)-based anion-conducting materials with high performance and durability for energy conversion devices. <i>Energy and Environmental Science</i> , 2020 , 13, 3633-3645	35.4	52
427	Enhancing the Performance of Lithium-Sulfur Batteries through Electrochemical Impregnation of Sulfur in Hierarchical Mesoporous Carbon Nanoparticles. <i>ChemElectroChem</i> , 2020 , 7, 3653-3655	4.3	4
426	Methanol Tolerant Pt-C Core-Shell Cathode Catalyst for Direct Methanol Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44588-44596	9.5	16
425	Ball mill assisted synthesis of cobalt/iron sulfide/N-doped carbon for high performance asymmetric supercapacitors. <i>Journal of Applied Electrochemistry</i> , 2020 , 50, 1119-1128	2.6	6
424	Marginal Magnesium Doping for High-Performance Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1902278	21.8	26
423	Membrane/Electrode Interface Design for Effective Water Management in Alkaline Membrane Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34805-34811	9.5	15
422	Three-dimensionally interconnected titanium foam anode for an energy-efficient zero gap-type chlor-alkali electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 16079-16086	6.7	6
421	Vertically aligned TiO ₂ /ZnO nanotube arrays prepared by atomic layer deposition for photovoltaic applications. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 1157-1163	2.8	8
420	Antiglare and antireflective coating of layer-by-layer SiO ₂ and TiZrO ₂ on surface-modified glass. <i>Applied Surface Science</i> , 2019 , 490, 278-282	6.7	3
419	Electrodeposited mesh-type dimensionally stable anode for oxygen evolution reaction in acidic and alkaline media. <i>Chemical Engineering Science</i> , 2019 , 206, 424-431	4.4	6

4 ¹⁸	Bi-modified Pt supported on carbon black as electro-oxidation catalyst for 300 W formic acid fuel cell stack. <i>Applied Catalysis B: Environmental</i> , 2019 , 253, 187-195	21.8	31
4 ¹⁷	Changes in the oxidation state of Pt single-atom catalysts upon removal of chloride ligands and their effect for electrochemical reactions. <i>Chemical Communications</i> , 2019 , 55, 6389-6392	5.8	37
4 ¹⁶	Biomass-Derived Air Cathode Materials: Pore-Controlled S,N-Co-doped Carbon for Fuel Cells and Metal-Air Batteries. <i>ACS Catalysis</i> , 2019 , 9, 3389-3398	13.1	69
4 ¹⁵	Freeze Casting is a Facile Method to Create Solid Solution Alloy Foams: CuNi Alloy Foams via Freeze Casting. <i>Advanced Engineering Materials</i> , 2019 , 21, 1801265	3.5	2
4 ¹⁴	Role and Potential of Metal Sulfide Catalysts in Lithium-Sulfur Battery Applications. <i>ChemCatChem</i> , 2019 , 11, 2373-2387	5.2	33
4 ¹³	A study on electrode fabrication and operation variables affecting the performance of anion exchange membrane water electrolysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 76, 410-418	6.3	42
4 ¹²	Cross-linked highly sulfonated poly(arylene ether sulfone) membranes prepared by in-situ casting and thiol-ene click reaction for fuel cell application. <i>Journal of Membrane Science</i> , 2019 , 579, 70-78	9.6	41
4 ¹¹	Alternative Assembly of Synuclein Leading to Protein Film Formation and Its Application for Developing Polydiacetylene-Based Sensing Materials. <i>Langmuir</i> , 2019 , 35, 11923-11931	4	1
4 ¹⁰	Iron sulfides with dopamine-derived carbon coating as superior performance anodes for sodium-ion batteries. <i>Nano Research</i> , 2019 , 12, 2609-2613	10	18
4 ⁰⁹	Achieving breakthrough performance caused by optimized metal foam flow field in fuel cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 22074-22084	6.7	23
4 ⁰⁸	A highly durable carbon-nanofiber-supported Pt core-shell cathode catalyst for ultra-low Pt loading proton exchange membrane fuel cells: facile carbon encapsulation. <i>Energy and Environmental Science</i> , 2019 , 12, 2820-2829	35.4	84
4 ⁰⁷	NaCrO ₂ /Coffee Waste-derived Nitrogen-doped Carbon Composite as High-Performance Cathode Material for Sodium Ion Batteries. <i>Bulletin of the Korean Chemical Society</i> , 2019 , 40, 857-862	1.2	2
4 ⁰⁶	Gas diffusion layer/flow-field unified membrane-electrode assembly in fuel cell using graphene foam. <i>Electrochimica Acta</i> , 2019 , 323, 134808	6.7	16
4 ⁰⁵	Development of high-performance membrane-electrode assembly in unitized regenerative fuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 80, 527-534	6.3	5
4 ⁰⁴	Short-Chain Polyselenosulfide Copolymers as Cathode Materials for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45785-45795	9.5	17
4 ⁰³	Rational Generation of Fe _N x Active Sites in Fe _N C Electro catalysts Facilitated by Fe _N Coordinated Precursors for the Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2019 , 11, 5982-5988	5.2	13
4 ⁰²	Synthesis and growth mechanism of carbon-supported nanoparticle catalysts by physical vapor deposition onto a liquid medium substrate. <i>Applied Surface Science</i> , 2019 , 471, 1083-1087	6.7	4
4 ⁰¹	Acoustic emission analysis of the compressive deformation of iron foams and their biocompatibility study. <i>Materials Science and Engineering C</i> , 2019 , 97, 367-376	8.3	7

400	Recent Progress in the Design and Synthesis of Nitrides for Mesoscopic and Perovskite Solar Cells. <i>ChemSusChem</i> , 2019 , 12, 772-786	8.3	2
399	Ultra-low loading of IrO ₂ with an inverse-opal structure in a polymer-exchange membrane water electrolysis. <i>Nano Energy</i> , 2019 , 58, 158-166	17.1	38
398	Design Principle of Fe-N-C Electrocatalysts: How to Optimize Multimodal Porous Structures?. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2035-2045	16.4	240
397	Spindle-like Fe ₇ S ₈ /N-doped carbon nanohybrids for high-performance sodium ion battery anodes. <i>Nano Research</i> , 2019 , 12, 695-700	10	34
396	High-performance anion-exchange membrane water electrolysis. <i>Electrochimica Acta</i> , 2019 , 295, 99-106	6.7	88
395	Nitrogen and sulfur co-doped graphene-like carbon sheets derived from coir pith bio-waste for symmetric supercapacitor applications. <i>Journal of Applied Electrochemistry</i> , 2019 , 49, 57-66	2.6	25
394	Optimization of cell components and operating conditions in primary and rechargeable zinc-air battery. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 69, 161-170	6.3	10
393	Solvothermal-Derived S-Doped Graphene as an Anode Material for Sodium-Ion Batteries. <i>Advanced Science</i> , 2018 , 5, 1700880	13.6	91
392	Highly Efficient Bifacial Dye-Sensitized Solar Cells Employing Polymeric Counter Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8611-8620	9.5	25
391	Understanding the Roles of Sulfur Dopants in Carbonaceous Electrocatalysts for the Oxygen Reduction Reaction: The Relationship between Catalytic Activity and Work Function. <i>ChemElectroChem</i> , 2018 , 5, 1905-1913	4.3	7
390	Simultaneous etching and transfer of free multilayer graphene sheets derived from C ₆₀ thin films. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 64, 70-75	6.3	1
389	Highly loaded PbS/Mn-doped CdS quantum dots for dual application in solar-to-electrical and solar-to-chemical energy conversion. <i>Applied Catalysis B: Environmental</i> , 2018 , 227, 409-417	21.8	45
388	Enhancement of mass transport in fuel cells using three-dimensional graphene foam as flow field. <i>Electrochimica Acta</i> , 2018 , 265, 488-496	6.7	38
387	Guided cracking of electrodes by stretching prism-patterned membrane electrode assemblies for high-performance fuel cells. <i>Scientific Reports</i> , 2018 , 8, 1257	4.9	24
386	Electrocatalysis: Electrochemically Synthesized Nanoporous Molybdenum Carbide as a Durable Electrocatalyst for Hydrogen Evolution Reaction (Adv. Sci. 1/2018). <i>Advanced Science</i> , 2018 , 5, 1870002	13.6	78
385	Highly Durable and Active Pt-Based Nanoscale Design for Fuel-Cell Oxygen-Reduction Electrocatalysts. <i>Advanced Materials</i> , 2018 , 30, e1704123	24	143
384	Room-Temperature Vapor Deposition of Cobalt Nitride Nanofilms for Mesoscopic and Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1703114	21.8	23
383	A facile approach to improve the performance of alkaline anion exchange membrane fuel cells by reducing ionic resistance. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 61, 437-444	6.3	7

382	Electrochemically Synthesized Nanoporous Molybdenum Carbide as a Durable Electrocatalyst for Hydrogen Evolution Reaction. <i>Advanced Science</i> , 2018 , 5, 1700601	13.6	35
381	Design of structural and functional nanomaterials for lithium-sulfur batteries. <i>Nano Today</i> , 2018 , 18, 35-64	17.9	82
380	Na/Vacancy Disordered P2-NaCoTiO: High-Energy and High-Power Cathode Materials for Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3562-3570	9.5	63
379	Effect of N-doped carbon coatings on the durability of highly loaded platinum and alloy catalysts with different carbon supports for polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10070-10081	6.7	9
378	Nitrogen-rich hollow carbon spheres decorated with FeCo/fluorine-rich carbon for high performance symmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7522-7531	13	25
377	Influence of TiO ₂ Particle Size on Dye-Sensitized Solar Cells Employing an Organic Sensitizer and a Cobalt(III/II) Redox Electrolyte. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7051-7060	3.8	24
376	Soft-template synthesis of mesoporous non-precious metal catalyst with Fe-N x /C active sites for oxygen reduction reaction in fuel cells. <i>Applied Catalysis B: Environmental</i> , 2018 , 222, 191-199	21.8	90
375	Electrochemically Synthesized Mesoscopic Nickel Oxide Films as Photocathodes for Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4178-4185	6.1	6
374	Direct formation of Pt catalyst on gas diffusion layer using sonochemical deposition method for the application in polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 10431-10439	6.7	4
373	Edge-Terminated MoS Nanoassembled Electrocatalyst via In Situ Hybridization with 3D Carbon Network. <i>Small</i> , 2018 , 14, e1802191	11	12
372	Cross-Linked Sulfonated Poly(arylene ether sulfone) Containing a Flexible and Hydrophobic Bishydroxy Perfluoropolyether Cross-Linker for High-Performance Proton Exchange Membrane. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21788-21793	9.5	30
371	Electrochemically synthesized nanostructured iron carbide/carbon composite as a low-cost counter electrode for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2018 , 396, 213-219	8.9	16
370	Biomass Waste, Coffee Grounds-derived Carbon for Lithium Storage. <i>Journal of Electrochemical Science and Technology</i> , 2018 , 9, 163-168	3.2	5
369	In-Situ Analysis of Overpotentials in Direct Methanol Fuel Cell by Using Membrane Electrode Assembly Composed of Three Electrodes. <i>Korean Journal of Materials Research</i> , 2018 , 28, 330-336	0.2	
368	Excellent Performances of Modified RuOs Bimetallic Materials as Anode Catalysts for Polymer Electrolyte Membrane Fuel Cells. <i>Electrocatalysis</i> , 2018 , 9, 352-358	2.7	2
367	Bioinspired Synthesis of Melaninlike Nanoparticles for Highly N-Doped Carbons Utilized as Enhanced CO ₂ Adsorbents and Efficient Oxygen Reduction Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2324-2333	8.3	10
366	Interface engineering for high-performance direct methanol fuel cells using multiscale patterned membranes and guided metal cracked layers. <i>Nano Energy</i> , 2018 , 43, 149-158	17.1	17
365	Porosity- and content-controlled metal/metal oxide/metal carbide@carbon (M/MO/MC@C) composites derived from MOFs: mechanism study and application for lithium-ion batteries. <i>New Journal of Chemistry</i> , 2018 , 42, 18678-18689	3.6	4

364	Tailoring the porosity of MOF-derived N-doped carbon electrocatalysts for highly efficient solar energy conversion. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20170-20183	13	18
363	Engineering Titanium Dioxide Nanostructures for Enhanced Lithium-Ion Storage. <i>Journal of the American Chemical Society</i> , 2018 , 140, 16676-16684	16.4	53
362	Vapor-Deposited Tungsten Carbide Nano-Dendrites as Sulfur-Tolerant Electrocatalysts for Quantum Dot-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H954-H961	3.9	
361	From grass to battery anode: agricultural biomass hemp-derived carbon for lithium storage.. <i>RSC Advances</i> , 2018 , 8, 32231-32240	3.7	23
360	Application of spirobiindane-based microporous poly(ether sulfone)s as polymeric binder on solid alkaline exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2018 , 568, 67-75	9.6	21
359	Electrocatalysts: Highly Durable and Active Pt-Based Nanoscale Design for Fuel-Cell Oxygen-Reduction Electrocatalysts (Adv. Mater. 42/2018). <i>Advanced Materials</i> , 2018 , 30, 1870316	24	3
358	Graphitic carbon nitride-carbon nanofiber as oxygen catalyst in anion-exchange membrane water electrolyzer and rechargeable metal-air cells. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 140-148	21.8	42
357	SnS/C nanocomposites for high-performance sodium ion battery anodes.. <i>RSC Advances</i> , 2018 , 8, 23847-23853	3.7	20
356	Tungsten Disulfide Catalysts Supported on a Carbon Cloth Interlayer for High Performance Li-S Battery. <i>Advanced Energy Materials</i> , 2017 , 7, 1602567	21.8	233
355	Morphology and Gas-Sensing Properties of Tin Oxide Foams with Dual Pore Structure. <i>Journal of Electronic Materials</i> , 2017 , 46, 3748-3756	1.9	12
354	Factors in electrode fabrication for performance enhancement of anion exchange membrane water electrolysis. <i>Journal of Power Sources</i> , 2017 , 347, 283-290	8.9	35
353	The role of pre-defined microporosity in catalytic site formation for the oxygen reduction reaction in iron- and nitrogen-doped carbon materials. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4199-4206	13	24
352	A hierarchical cathode catalyst layer architecture for improving the performance of direct methanol fuel cell. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 91-97	21.8	13
351	High-Density Single-Layer Coating of Gold Nanoparticles onto Multiple Substrates by Using an Intrinsically Disordered Protein of Synuclein for Nanoapplications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8519-8532	9.5	8
350	Large-Scale Synthesis of Carbon-Shell-Coated FeP Nanoparticles for Robust Hydrogen Evolution Reaction Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2017 , 139, 6669-6674	16.4	369
349	Iron Oxide Photoelectrode with Multidimensional Architecture for Highly Efficient Photoelectrochemical Water Splitting. <i>Angewandte Chemie</i> , 2017 , 129, 6683-6688	3.6	15
348	Iron Oxide Photoelectrode with Multidimensional Architecture for Highly Efficient Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6583-6588	16.4	53
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