

# Yung-Eun Sung

## List of Publications by Citations

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L-index

#	Paper	IF	Citations
489	The use of elemental sulfur as an alternative feedstock for polymeric materials. <i>Nature Chemistry</i> , <b>2013</b> , 5, 518-24	17.6	748
488	Chemical and Electronic Effects of Ni in Pt/Ni and Pt/Ru/Ni Alloy Nanoparticles in Methanol Electrooxidation. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 1869-1877	3.4	717
487	Failure Modes of Silicon Powder Negative Electrode in Lithium Secondary Batteries. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A306		513
486	Galvanic replacement reactions in metal oxide nanocrystals. <i>Science</i> , <b>2013</b> , 340, 964-8	33.3	421
485	Highly Durable and Active PtFe Nanocatalyst for Electrochemical Oxygen Reduction Reaction. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15478-85	16.4	393
484	Large-Scale Synthesis of Carbon-Shell-Coated FeP Nanoparticles for Robust Hydrogen Evolution Reaction Electrocatalyst. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 6669-6674	16.4	369
483	Atomic-level tuning of Co-N-C catalyst for high-performance electrochemical HO production. <i>Nature Materials</i> , <b>2020</b> , 19, 436-442	27	315
482	Conversion Reaction-Based Oxide Nanomaterials for Lithium Ion Battery Anodes. <i>Small</i> , <b>2016</b> , 12, 2146-72		310
481	Self-assembled Fe <sub>3</sub> O <sub>4</sub> nanoparticle clusters as high-performance anodes for lithium ion batteries via geometric confinement. <i>Nano Letters</i> , <b>2013</b> , 13, 4249-56	11.5	302
480	Ordered Porous Carbons with Tunable Pore Sizes as Catalyst Supports in Direct Methanol Fuel Cell. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 7074-7079	3.4	302
479	High-performance direct methanol fuel cell electrodes using solid-phase-synthesized carbon nanocoils. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 4352-6	16.4	268
478	Investigation of the Structural and Electrochemical Properties of Size-Controlled SnO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 9815-9820	3.4	244
477	Design Principle of Fe-N-C Electrocatalysts: How to Optimize Multimodal Porous Structures?. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 2035-2045	16.4	240
476	Tungsten Disulfide Catalysts Supported on a Carbon Cloth Interlayer for High Performance LiS Battery. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602567	21.8	233
475	Edge-exposed MoS <sub>2</sub> nano-assembled structures as efficient electrocatalysts for hydrogen evolution reaction. <i>Nanoscale</i> , <b>2014</b> , 6, 2131-6	7.7	225
474	Inverse Vulcanization of Elemental Sulfur to Prepare Polymeric Electrode Materials for Li-S Batteries.. <i>ACS Macro Letters</i> , <b>2014</b> , 3, 229-232	6.6	217
473	Surface Modification of Stretched TiO <sub>2</sub> Nanotubes for Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 9614-9623	3.8	205

472	Pt-based nanoarchitecture and catalyst design for fuel cell applications. <i>Nano Today</i> , <b>2014</b> , 9, 433-456	17.9	204
471	Electrocatalytic activity and stability of Pt supported on Sb-doped SnO <sub>2</sub> nanoparticles for direct alcohol fuel cells. <i>Journal of Catalysis</i> , <b>2008</b> , 258, 143-152	7.3	203
470	Electro-oxidation of methanol and formic acid on PtRu and PtAu for direct liquid fuel cells. <i>Journal of Power Sources</i> , <b>2006</b> , 163, 71-75	8.9	193
469	Methanol Electro-Oxidation on the Pt Surface: Revisiting the Cyclic Voltammetry Interpretation. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 9028-9035	3.8	190
468	Ordered macroporous platinum electrode and enhanced mass transfer in fuel cells using inverse opal structure. <i>Nature Communications</i> , <b>2013</b> , 4, 2473	17.4	184
467	Facile scalable synthesis of magnetite nanocrystals embedded in carbon matrix as superior anode materials for lithium-ion batteries. <i>Chemical Communications</i> , <b>2010</b> , 46, 118-20	5.8	184
466	Electrochemical Synthesis of NH <sub>3</sub> at Low Temperature and Atmospheric Pressure Using a Fe <sub>2</sub> O <sub>3</sub> Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 10986-10995	8.3	183
465	Y <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> :Ce <sub>0.05</sub> Phosphor Coatings on Gallium Nitride for White Light Emitting Diodes. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, H47	3.9	180
464	Role of electronic perturbation in stability and activity of Pt-based alloy nanocatalysts for oxygen reduction. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19508-11	16.4	176
463	Origin of the Enhanced Catalytic Activity of Carbon Nanocoil-Supported PtRu Alloy Electrocatalysts. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 939-944	3.4	170
462	Hyaluronic acid-quantum dot conjugates for in vivo lymphatic vessel imaging. <i>ACS Nano</i> , <b>2009</b> , 3, 1389-986.7	14.6	
461	Highly Durable and Active Pt-Based Nanoscale Design for Fuel-Cell Oxygen-Reduction Electrocatalysts. <i>Advanced Materials</i> , <b>2018</b> , 30, e1704123	24	143
460	Structural, Chemical, and Electronic Properties of Pt/Ni Thin Film Electrodes for Methanol Electrooxidation. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 5851-5856	3.4	126
459	Methanol Oxidation on Pt/Ru, Pt/Ni, and Pt/Ru/Ni Anode Electrocatalysts at Different Temperatures for DMFCs. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, A973	3.9	126
458	Nanoparticle Synthesis and Electrocatalytic Activity of Pt Alloys for Direct Methanol Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, A1299	3.9	126
457	Electrochemical behavior of carbon-coated SnS <sub>2</sub> for use as the anode in lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 3606-3610	6.7	125
456	In Situ Hydrothermal Synthesis of Mn <sub>3</sub> O <sub>4</sub> Nanoparticles on Nitrogen-doped Graphene as High-Performance Anode materials for Lithium Ion Batteries. <i>Electrochimica Acta</i> , <b>2014</b> , 120, 452-459	6.7	124
455	A Pd-impregnated nanocomposite Nafion membrane for use in high-concentration methanol fuel in DMFC. <i>Electrochemistry Communications</i> , <b>2003</b> , 5, 571-574	5.1	122

454	PtRuRhNi nanoparticle electrocatalyst for methanol electrooxidation in direct methanol fuel cell. <i>Journal of Catalysis</i> , <b>2004</b> , 224, 236-242	7.3	121
453	Surface Structure of Pt-Modified Au Nanoparticles and Electrocatalytic Activity in Formic Acid Electro-Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 19126-19133	3.8	120
452	Highly selective lithium recovery from brine using a $\text{MnO}_2$ -Ag battery. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 7690-5	3.6	119
451	Uniform hematite nanocapsules based on an anode material for lithium ion batteries. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 382-385	5.1	115
450	A facile hydrazine-assisted hydrothermal method for the deposition of monodisperse $\text{SnO}_2$ nanoparticles onto graphene for lithium ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 2520-2525		113
449	Facile and economical synthesis of hierarchical carbon-coated magnetite nanocomposite particles and their applications in lithium ion battery anodes. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9528	35.4	109
448	A chemically activated graphene-encapsulated $\text{LiFePO}_4$ composite for high-performance lithium ion batteries. <i>Nanoscale</i> , <b>2013</b> , 5, 8647-55	7.7	106
447	Lithium recovery from brine using a $\text{MnO}_2$ /activated carbon hybrid supercapacitor system. <i>Chemosphere</i> , <b>2015</b> , 125, 50-6	8.4	105
446	Simultaneous phase- and size-controlled synthesis of $\text{TiO}_2$ nanorods via non-hydrolytic sol-gel reaction of syringe pump delivered precursors. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 24318-23	3.4	105
445	Nano-composite of PtRu alloy electrocatalyst and electronically conducting polymer for use as the anode in a direct methanol fuel cell. <i>Electrochimica Acta</i> , <b>2003</b> , 48, 2781-2789	6.7	105
444	Hybrid Cellular Nanosheets for High-Performance Lithium-Ion Battery Anodes. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 11954-61	16.4	100
443	Structure dependent active sites of $\text{Ni}_x\text{S}_y$ as electrocatalysts for hydrogen evolution reaction. <i>Nanoscale</i> , <b>2015</b> , 7, 5157-63	7.7	100
442	Copolymerization of Polythiophene and Sulfur To Improve the Electrochemical Performance in Lithium/Sulfur Batteries. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 7011-7017	9.6	99
441	Continuous activation of $\text{Li}_2\text{MnO}_3$ component upon cycling in $\text{Li}_{1.167}\text{Ni}_{0.233}\text{Co}_{0.100}\text{Mn}_{0.467}\text{Mo}_{0.033}\text{O}_2$ cathode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2833	13	99
440	PtRu Alloy and $\text{PtRu/WO}_3$ Nanocomposite Electrodes for Methanol Electrooxidation Fabricated by a Sputtering Deposition Method. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 5989-5994	3.4	98
439	Flexible dye-sensitized solar cells using ZnO coated $\text{TiO}_2$ nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2005</b> , 171, 269-273	4.7	98
438	Electrophoretically deposited $\text{TiO}_2$ photo-electrodes for use in flexible dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2005</b> , 173, 1-6	4.7	98
437	Electrocatalytic activity of carbon-supported PtAu nanoparticles for methanol electro-oxidation. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 5599-5605	6.7	97

436	Methanol electro-oxidation and direct methanol fuel cell using Pt/Rh and Pt/Ru/Rh alloy catalysts. <i>Electrochimica Acta</i> , <b>2004</b> , 50, 787-790	6.7	93
435	Single source precursor-based solvothermal synthesis of heteroatom-doped graphene and its energy storage and conversion applications. <i>Scientific Reports</i> , <b>2014</b> , 4, 5639	4.9	92
434	Highly dispersed Pt nanoparticles on nitrogen-doped magnetic carbon nanoparticles and their enhanced activity for methanol oxidation. <i>Carbon</i> , <b>2007</b> , 45, 2496-2501	10.4	92
433	Characteristics of PVdF copolymer/Nafion blend membrane for direct methanol fuel cell (DMFC). <i>Electrochimica Acta</i> , <b>2004</b> , 50, 583-588	6.7	92
432	Elemental Sulfur and Molybdenum Disulfide Composites for Li-S Batteries with Long Cycle Life and High-Rate Capability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 13437-48	9.5	92
431	Solvothermal-Derived S-Doped Graphene as an Anode Material for Sodium-Ion Batteries. <i>Advanced Science</i> , <b>2018</b> , 5, 1700880	13.6	91
430	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> , <b>2018</b> , 222, 191-199	21.8	90
429	Alveoli-Inspired Facile Transport Structure of N-Doped Porous Carbon for Electrochemical Energy Applications. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401309	21.8	89
428	Electrocatalytic enhancement of methanol oxidation by graphite nanofibers with a high loading of PtRu alloy nanoparticles. <i>Carbon</i> , <b>2007</b> , 45, 28-33	10.4	89
427	Co-sensitization of vertically aligned TiO <sub>2</sub> nanotubes with two different sizes of CdSe quantum dots for broad spectrum. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 1579-1582	5.1	89
426	A facile and green strategy for the synthesis of MoS <sub>2</sub> nanospheres with excellent Li-ion storage properties. <i>CrystEngComm</i> , <b>2012</b> , 14, 8323	3.3	88
425	Pd-based PdPt(19:1)/C electrocatalyst as an electrode in PEM fuel cell. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 378-381	5.1	88
424	High-performance anion-exchange membrane water electrolysis. <i>Electrochimica Acta</i> , <b>2019</b> , 295, 99-106	6.7	88
423	Electrocatalytic Enhancement of Methanol Oxidation at Pt/WO <sub>x</sub> Nanophase Electrodes and In-Situ Observation of Hydrogen Spillover Using Electrochromism. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 4352-4355	3.4	86
422	Fast switchable electrochromic properties of tungsten oxide nanowire bundles. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 173126	3.4	85
421	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> , <b>2019</b> , 12, 2820-2829	35.4	84
420	Structure-Properties Relationship in Iron Oxide-Reduced Graphene Oxide Nanostructures for Li-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4293-4305	15.6	84
419	Large-Scale Synthesis of Ultrathin Manganese Oxide Nanoplates and Their Applications to T1 MRI Contrast Agents. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 3318-3324	9.6	83

4 <sup>18</sup>	Design of structural and functional nanomaterials for lithium-sulfur batteries. <i>Nano Today</i> , <b>2018</b> , 18, 35-64	17.9	82
4 <sup>17</sup>	Enhanced stability and activity of Pt-Y alloy catalysts for electrocatalytic oxygen reduction. <i>Chemical Communications</i> , <b>2011</b> , 47, 11414-6	5.8	80
4 <sup>16</sup>	Tandem dye-sensitized solar cell-powered electrochromic devices for the photovoltaic-powered smart window. <i>Journal of Power Sources</i> , <b>2007</b> , 168, 533-536	8.9	80
4 <sup>15</sup>	Enhancing p-Type Thermoelectric Performances of Polycrystalline SnSe via Tuning Phase Transition Temperature. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 10887-10896	16.4	79
4 <sup>14</sup>	Electrocatalysis: Electrochemically Synthesized Nanoporous Molybdenum Carbide as a Durable Electrocatalyst for Hydrogen Evolution Reaction (Adv. Sci. 1/2018). <i>Advanced Science</i> , <b>2018</b> , 5, 1870002	13.6	78
4 <sup>13</sup>	Graphene quantum dots: structural integrity and oxygen functional groups for high sulfur/sulfide utilization in lithium sulfur batteries. <i>NPG Asia Materials</i> , <b>2016</b> , 8, e272-e272	10.3	78
4 <sup>12</sup>	A PtAu Nanoparticle Electrocatalyst for Methanol Electro-oxidation in Direct Methanol Fuel Cells. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, A1812	3.9	77
4 <sup>11</sup>	The Importance of Confined Sulfur Nanodomains and Adjoining Electron Conductive Pathways in Subreaction Regimes of Li-S Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700074	21.8	75
4 <sup>10</sup>	Three-dimensional carbon foam/N-doped graphene@MoS <sub>2</sub> hybrid nanostructures as effective electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12720-12725	12.25	75
4 <sup>09</sup>	Recent Advances in Electrochemical Oxygen Reduction to H <sub>2</sub> O <sub>2</sub> : Catalyst and Cell Design. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1881-1892	20.1	74
4 <sup>08</sup>	Exploiting Lithium Ether Co-Intercalation in Graphite for High-Power Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700418	21.8	73
4 <sup>07</sup>	Surfactant-free nonaqueous synthesis of lithium titanium oxide (LTO) nanostructures for lithium ion battery applications. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 806-810		73
4 <sup>06</sup>	A one-pot microwave-assisted non-aqueous sol-gel approach to metal oxide/graphene nanocomposites for Li-ion batteries. <i>RSC Advances</i> , <b>2011</b> , 1, 1687	3.7	72
4 <sup>05</sup>	Influence of light scattering particles in the TiO <sub>2</sub> photoelectrode for solid-state dye-sensitized solar cell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2008</b> , 200, 294-300	4.7	71
4 <sup>04</sup>	Blue TiO <sub>2</sub> Nanotube Array as an Oxidant Generating Novel Anode Material Fabricated by Simple Cathodic Polarization. <i>Electrochimica Acta</i> , <b>2014</b> , 141, 113-119	6.7	70
4 <sup>03</sup>	Characterization of electrodeposited CuInSe <sub>2</sub> (CIS) film. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 4433-4438	6.7	70
4 <sup>02</sup>	Biomass-Derived Air Cathode Materials: Pore-Controlled S,N-Co-doped Carbon for Fuel Cells and Metal-Air Batteries. <i>ACS Catalysis</i> , <b>2019</b> , 9, 3389-3398	13.1	69
4 <sup>01</sup>	Promoting effects of La for improved oxygen reduction activity and high stability of Pt on PtLa alloy electrodes. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 7521	35.4	68

400	Synthesis of size-controlled CdSe quantum dots and characterization of CdSe-conjugated polymer blends for hybrid solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2006</b> , 179, 135-144	4.7	68
399	Reactively sputtered nickel nitride as electrocatalytic counter electrode for dye- and quantum dot-sensitized solar cells. <i>Scientific Reports</i> , <b>2015</b> , 5, 10450	4.9	66
398	Preparation of highly ordered mesoporous Al <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> and its application in dye-sensitized solar cells. <i>Langmuir</i> , <b>2010</b> , 26, 2864-70	4	66
397	Formation and mechanistic study of self-ordered TiO <sub>2</sub> nanotubes on Ti substrate. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2008</b> , 14, 52-59	6.3	65
396	Understanding the Bifunctional Effect for Removal of CO Poisoning: Blend of a Platinum Nanocatalyst and Hydrous Ruthenium Oxide as a Model System. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2398-2407	13.1	64
395	Influence of Oxide on the Oxygen Reduction Reaction of Carbon-Supported PtNi Alloy Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 19732-19739	3.8	64
394	PtRh alloy nanoparticle electrocatalysts for oxygen reduction for use in direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2006</b> , 163, 82-86	8.9	64
393	Suppressive effect of Li <sub>2</sub> CO <sub>3</sub> on initial irreversibility at carbon anode in Li-ion batteries. <i>Journal of Power Sources</i> , <b>2002</b> , 104, 132-139	8.9	64
392	Na/Vacancy Disordered P2-NaCoTiO: High-Energy and High-Power Cathode Materials for Sodium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 3562-3570	9.5	63
391	High contrast ratio and fast switching polymeric electrochromic films based on water-dispersible polyaniline-poly(4-styrenesulfonate) nanoparticles. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 164-167	5.1	62
390	Direct Synthesis of Intermetallic Platinum-Alloy Nanoparticles Highly Loaded on Carbon Supports for Efficient Electrocatalysis. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 14190-14200	16.4	62
389	High Contrast Ratio and Rapid Switching Organic Polymeric Electrochromic Thin Films Based on Triarylamine Derivatives from Layer-by-Layer Assembly. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 5823-5825	9.6	60
388	All-solid-state supercapacitor using a Nafion <sup>®</sup> polymer membrane and its hybridization with a direct methanol fuel cell. <i>Journal of Power Sources</i> , <b>2002</b> , 109, 500-506	8.9	60
387	Effect of platinum amount in carbon supported platinum catalyst on performance of polymer electrolyte membrane fuel cell. <i>Journal of Power Sources</i> , <b>2007</b> , 172, 89-93	8.9	59
386	New RuO <sub>2</sub> and carbon/RuO <sub>2</sub> composite diffusion layer for use in direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2002</b> , 109, 439-445	8.9	59
385	All-solid-state electrochromic device composed of WO <sub>3</sub> and Ni(OH) <sub>2</sub> with a Ta <sub>2</sub> O <sub>5</sub> protective layer. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 3930-3932	3.4	59
384	TiO <sub>2</sub> nanotubes with a ZnO thin energy barrier for improved current efficiency of CdSe quantum-dot-sensitized solar cells. <i>Nanotechnology</i> , <b>2009</b> , 20, 335706	3.4	58
383	Thermal stability of charged LiNi <sub>0.5</sub> Co <sub>0.2</sub> Mn <sub>0.3</sub> O <sub>2</sub> cathode for Li-ion batteries investigated by synchrotron based in situ X-ray diffraction. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 562, 219-223	5.7	57

382	Hollow Nanostructured Metal Silicates with Tunable Properties for Lithium Ion Battery Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25725-32	9.5	56
381	Supported core@shell electrocatalysts for fuel cells: close encounter with reality. <i>Scientific Reports</i> , <b>2013</b> , 3, 1309	4.9	56
380	Enhanced efficiency of dye-sensitized solar cells through TiCl <sub>4</sub> -treated, nanoporous-layer-covered TiO <sub>2</sub> nanotube arrays. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 8904-8908	8.9	56
379	Coadsorption of sulfate anions and silver adatoms on the Au(111) single crystal electrode. Ex situ and in situ comparison. <i>Electrochimica Acta</i> , <b>1995</b> , 40, 17-28	6.7	56
378	Preparation and characteristics of Nafion membrane coated with a PVdF copolymer/recast Nafion blend for direct methanol fuel cell. <i>Journal of Power Sources</i> , <b>2006</b> , 159, 524-528	8.9	55
377	Development of Highly Stable and Mass Transfer-Enhanced Cathode Catalysts: Support-Free Electrospun Intermetallic FePt Nanotubes for Polymer Electrolyte Membrane Fuel Cells. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1402093	21.8	54
376	Porous cobalt oxide thin films from low temperature solution phase synthesis for electrochromic electrode. <i>Thin Solid Films</i> , <b>2008</b> , 516, 8573-8578	2.2	54
375	Iron Oxide Photoelectrode with Multidimensional Architecture for Highly Efficient Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6583-6588	16.4	53
374	Photo and Electrochemical Characteristics Dependent on the Phase Ratio of Nanocolumnar Structured TiO <sub>2</sub> Films by RF Magnetron Sputtering Technique. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2777-2788	8.6	53
373	Enhanced photocurrent of nitrogen-doped TiO <sub>2</sub> film for dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 124, 422-426	4.4	53
372	Influence of Au contents of AuPt anode catalyst on the performance of direct formic acid fuel cell. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 3474-3478	6.7	53
371	Engineering Titanium Dioxide Nanostructures for Enhanced Lithium-Ion Storage. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 16676-16684	16.4	53
370	Inhibition of CO poisoning on Pt catalyst coupled with the reduction of toxic hexavalent chromium in a dual-functional fuel cell. <i>Scientific Reports</i> , <b>2014</b> , 4, 7450	4.9	52
369	Influence of hydrophilicity in micro-porous layer for polymer electrolyte membrane fuel cells. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2450-2457	6.7	52
368	Poly(carbazole)-based anion-conducting materials with high performance and durability for energy conversion devices. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 3633-3645	35.4	52
367	Enhanced Photovoltaic Properties of a Cobalt Bipyridyl Redox Electrolyte in Dye-Sensitized Solar Cells Employing Vertically Aligned TiO <sub>2</sub> Nanotube Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 19979-19985	3.8	51
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236	The Effect of Ar/O <sub>2</sub> Ratio on Electrochromic Response Time of Ni Oxides Grown Using an RF Sputtering System. <i>Japanese Journal of Applied Physics</i> , <b>2002</b> , 41, L212-L215	1.4	21
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233	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> , <b>2018</b> , 568, 67-75	9.6	21
232	Facile synthesis of metal hydroxide nanoplates and their application as lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8744-8751	13	20
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219	Two-dimensional assemblies of ultrathin titanate nanosheets for lithium ion battery anodes. <i>RSC Advances</i> , <b>2014</b> , 4, 12087	3.7	19
218	Novel synthesis of highly durable and active Pt catalyst encapsulated in nitrogen containing carbon for polymer electrolyte membrane fuel cell. <i>Journal of Power Sources</i> , <b>2017</b> , 362, 228-235	8.9	19
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