

# Yun Jeong Hwang

## 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.

111  
papers

5,596  
citations

35  
h-index

73  
g-index

120  
ext. papers

6,870  
ext. citations

10.9  
avg, IF

6.16  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 111 | Microfluidics-Assisted Synthesis of Hierarchical Cu O Nanocrystal as C -Selective CO Reduction Electrocatalyst.. <i>Small Methods</i> , <b>2022</b> , e2200074  | 12.8 | 3         |
| 110 | Electrochemical conversion of CO to value-added chemicals over bimetallic Pd-based nanostructures: Recent progress and emerging trends.. <i>Environmental Research</i> , <b>2022</b> , 113116                 | 7.9  | 0         |
| 109 | Microfluidics-Assisted Synthesis of Hierarchical Cu 2 O Nanocrystal as C 2 -Selective CO 2 Reduction Electrocatalyst (Small Methods 5/2022). <i>Small Methods</i> , <b>2022</b> , 6, 2270031                  | 12.8 |           |
| 108 | Designing Atomically Dispersed Au on Tensile-Strained Pd for Efficient CO Electroreduction to Formate. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 5386-5395                         | 16.4 | 23        |
| 107 | Understanding morphological degradation of Ag nanoparticle during electrochemical CO2 reduction reaction by identical location observation. <i>Electrochimica Acta</i> , <b>2021</b> , 371, 137795            | 6.7  | 6         |
| 106 | (Invited) Electrochemical CO2 Reduction Reaction to C2 Chemicals with Cu-Based Nanocatalysts. <i>ECS Meeting Abstracts</i> , <b>2021</b> , MA2021-01, 1282-1282   | 0    |           |
| 105 | Highly selective and stackable electrode design for gaseous CO2 electroreduction to ethylene in a zero-gap configuration. <i>Nano Energy</i> , <b>2021</b> , 84, 105859                                       | 17.1 | 7         |
| 104 | High crystallinity design of Ir-based catalysts drives catalytic reversibility for water electrolysis and fuel cells. <i>Nature Communications</i> , <b>2021</b> , 12, 4271                                   | 17.4 | 17        |
| 103 | Electrocatalytic methane oxidation on Co3O4- incorporated ZrO2 nanotube powder. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 283, 119653   | 21.8 | 15        |
| 102 | New strategies for economically feasible CO2 electroreduction using a porous membrane in zero-gap configuration. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 16169-16177                       | 13   | 3         |
| 101 | Material strategies in the electrochemical nitrate reduction reaction to ammonia production. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 6803-6823  | 7.8  | 6         |
| 100 | A catalyst design for selective electrochemical reactions: direct production of hydrogen peroxide in advanced electrochemical oxidation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 9859-9870 | 13   | 11        |
| 99  | Catalyst design strategies for stable electrochemical CO2 reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 15341-15357  | 13   | 24        |
| 98  | Highly selective and scalable CO2 to CO - Electrolysis using coral-nanostructured Ag catalysts in zero-gap configuration. <i>Nano Energy</i> , <b>2020</b> , 76, 105030                                       | 17.1 | 32        |
| 97  | Electroactivation-induced IrNi nanoparticles under different pH conditions for neutral water oxidation. <i>Nanoscale</i> , <b>2020</b> , 12, 14903-14910  | 7.7  | 4         |
| 96  | Potential Link between Cu Surface and Selective CO Electroreduction: Perspective on Future Electrocatalyst Designs. <i>Advanced Materials</i> , <b>2020</b> , 32, e1908398                                    | 24   | 78        |
| 95  | Carbon-Supported IrCoO nanoparticles as an efficient and stable OER electrocatalyst for practicable CO2 electrolysis. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 269, 118820                   | 21.8 | 25        |

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|----|---|------|-----|
| 94 | Controlling the C <sub>2</sub> + product selectivity of electrochemical CO <sub>2</sub> reduction on an electrosprayed Cu catalyst. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6210-6218                          | 13   | 23  |
| 93 | Mass Transport Control by Surface Graphene Oxide for Selective CO Production from Electrochemical CO <sub>2</sub> Reduction. <i>ACS Catalysis</i> , <b>2020</b> , 10, 3222-3231   | 13.1 | 29  |
| 92 | (Keynote) Understanding Selective C-C Coupling Reaction on Cu Based Nanoparticle from Electrochemical CO <sub>2</sub> Reduction Reaction. <i>ECS Meeting Abstracts</i> , <b>2020</b> , MA2020-02, 3230-3230                       | 0    |     |
| 91 | Progress in development of electrocatalyst for CO <sub>2</sub> conversion to selective CO production <b>2020</b> , 2, 72-98   |      | 53  |
| 90 | A perspective on practical solar to carbon monoxide production devices with economic evaluation. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 199-212   | 5.8  | 20  |
| 89 | Data-driven pilot optimization for electrochemical CO mass production. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 16943-16950   | 13   | 5   |
| 88 | Catalyst-electrolyte interface chemistry for electrochemical CO reduction. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 6632-6665  | 58.5 | 104 |
| 87 | Time-resolved observation of C <sub>1</sub> C <sub>1</sub> coupling intermediates on Cu electrodes for selective electrochemical CO <sub>2</sub> reduction. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 4301-4311 | 35.4 | 63  |
| 86 | Oxygen Vacancies Induced NiFe-Hydroxide as a Scalable, Efficient, and Stable Electrode for Alkaline Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 14071-14081                      | 8.3  | 14  |
| 85 | Single-atom catalysts for the oxygen evolution reaction: recent developments and future perspectives. <i>Chemical Communications</i> , <b>2020</b> , 56, 12687-12697  | 5.8  | 24  |
| 84 | Thermal Transformation of Molecular Ni <sup>2+</sup> to Ni <sup>4+</sup> Sites for Enhanced CO <sub>2</sub> Electroreduction Activity. <i>ACS Catalysis</i> , <b>2020</b> , 10, 10920-10931                                       | 13.1 | 32  |
| 83 | Turning Harmful Deposition of Metal Impurities into Activation of Nitrogen-Doped Carbon Catalyst toward Durable Electrochemical CO <sub>2</sub> Reduction. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2343-2350                 | 20.1 | 15  |
| 82 | Cyclic two-step electrolysis for stable electrochemical conversion of carbon dioxide to formate. <i>Nature Communications</i> , <b>2019</b> , 10, 3919  | 17.4 | 45  |
| 81 | Electrochemical Fragmentation of CuO Nanoparticles Enhancing Selective C-C Coupling from CO Reduction Reaction. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4624-4633                                    | 16.4 | 232 |
| 80 | Effect of Pt introduced on Ru-based electrocatalyst for oxygen evolution activity and stability. <i>Electrochemistry Communications</i> , <b>2019</b> , 104, 106469   | 5.1  | 31  |
| 79 | Metal Oxide Interfaces for Selective Electrochemical C <sub>1</sub> C <sub>1</sub> Coupling Reactions. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2241-2248   | 20.1 | 34  |
| 78 | Achieving tolerant CO <sub>2</sub> electro-reduction catalyst in real water matrix. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 258, 117961   | 21.8 | 13  |
| 77 | Cu(In,Ga)(S,Se) <sub>2</sub> Photocathodes with a Grown-In Cu <sub>x</sub> S Catalyst for Solar Water Splitting. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2937-2944   | 20.1 | 16  |

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|----|---|------|-----|
| 76 | General technoeconomic analysis for electrochemical coproduction coupling carbon dioxide reduction with organic oxidation. <i>Nature Communications</i> , <b>2019</b> , 10, 5193  | 17.4 | 109 |
| 75 | Charge transportation at cascade energy structure interfaces of $\text{CuIn}_x\text{Ga}_{1-x}\text{Se}_y\text{S}_{2-y}/\text{CdS}/\text{ZnS}$ for spontaneous water splitting. <i>Electrochimica Acta</i> , <b>2019</b> , 297, 633-640        | 6.7  | 8   |
| 74 | Cluster Expansion Method for Simulating Realistic Size of Nanoparticle Catalysts with an Application in $\text{CO}_2$ Electroreduction. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 9245-9254                                 | 3.8  | 12  |
| 73 | Toward an Effective Control of the $\text{H}_2$ to $\text{CO}$ Ratio of Syngas through $\text{CO}_2$ Electroreduction over Immobilized Gold Nanoparticles on Layered Titanate Nanosheets. <i>ACS Catalysis</i> , <b>2018</b> , 8, 4364-4374   | 13.1 | 46  |
| 72 | Charge separation properties of TaN photoanodes synthesized via a simple metal-organic-precursor decomposition process. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 2865-2871  | 3.6  | 3   |
| 71 | A highly efficient $\text{Cu}(\text{In,Ga})(\text{S,Se})$ photocathode without a hetero-materials overlayer for solar-hydrogen production. <i>Scientific Reports</i> , <b>2018</b> , 8, 5182  | 4.9  | 8   |
| 70 | How do plants see the world? - UV imaging with a $\text{TiO}_2$ nanowire array by artificial photosynthesis. <i>Nanoscale</i> , <b>2018</b> , 10, 8443-8450   | 7.7  | 0   |
| 69 | Understanding Selective Reduction of $\text{CO}_2$ to $\text{CO}$ on Modified Carbon Electrocatalysts. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1615-1621  | 4.3  | 11  |
| 68 | Achieving 14.4% Alcohol-Based Solution-Processed $\text{Cu}(\text{In,Ga})(\text{S,Se})$ Thin Film Solar Cell through Interface Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 9894-9899                       | 9.5  | 31  |
| 67 | New challenges of electrokinetic studies in investigating the reaction mechanism of electrochemical $\text{CO}_2$ reduction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 14043-14057   | 13   | 83  |
| 66 | Insight into water oxidation activity enhancement of Ni-based electrocatalysts interacting with modified carbon supports. <i>Electrochimica Acta</i> , <b>2018</b> , 281, 684-691   | 6.7  | 3   |
| 65 | Mixed Copper States in Anodized Cu Electrocatalyst for Stable and Selective Ethylene Production from $\text{CO}$ Reduction. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 8681-8689                                    | 16.4 | 238 |
| 64 | Facile and Cost Effective Synthesis of Oxide-Derived Silver Catalyst Electrodes via Chemical Solution Deposition for $\text{CO}_2$ Electro-Reduction. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 389-396                                  | 2.3  | 5   |
| 63 | Comparative study of catalytic activities among transition metal-doped $\text{IrO}_2$ nanoparticles. <i>Scientific Reports</i> , <b>2018</b> , 8, 16777   | 4.9  | 23  |
| 62 | Effect of halides on nanoporous Zn-based catalysts for highly efficient electroreduction of $\text{CO}_2$ to $\text{CO}$ . <i>Catalysis Communications</i> , <b>2018</b> , 114, 109-113   | 3.2  | 35  |
| 61 | Sloughing a Precursor Layer to Expose Active Stainless Steel Catalyst for Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 24499-24507  | 9.5  | 16  |
| 60 | Investigation of Surface Sulfurization in $\text{CuInGaSSe}$ Thin Films by Using Kelvin Probe Force Microscopy. <i>ChemPhysChem</i> , <b>2018</b> , 19, 261-265   | 3.2  | 3   |
| 59 | Multiple-Color-Generating $\text{Cu}(\text{In,Ga})(\text{S,Se})$ Thin-Film Solar Cells via Dichroic Film Incorporation for Power-Generating Window Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 14817-14826 | 9.5  | 22  |

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| 58 | Facile CO <sub>2</sub> Electro-Reduction to Formate via Oxygen Bidentate Intermediate Stabilized by High-Index Planes of Bi Dendrite Catalyst. <i>ACS Catalysis</i> , <b>2017</b> , 7, 5071-5077                           | 13.1 | 182 |
| 57 | Insight into Charge Separation in WO <sub>3</sub> /BiVO <sub>4</sub> Heterojunction for Solar Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 19780-19790                                | 9.5  | 118 |
| 56 | Insight into Electrochemical CO <sub>2</sub> Reduction on Surface-Molecule-Mediated Ag Nanoparticles. <i>ACS Catalysis</i> , <b>2017</b> , 7, 779-785  | 13.1 | 151 |
| 55 | Surface-Morphology-Dependent Electrolyte Effects on Gold-Catalyzed Electrochemical CO <sub>2</sub> Reduction. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 22637-22643                                      | 3.8  | 23  |
| 54 | Selective CO <sub>2</sub> Reduction on Zinc Electrocatalyst: The Effect of Zinc Oxidation State Induced by Pretreatment Environment. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 11377-11386       | 8.3  | 70  |
| 53 | A self-generated and degradation-resistive cratered stainless steel electrocatalyst for efficient water oxidation in a neutral electrolyte. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19210-19219         | 13   | 18  |
| 52 | 3-D architecture between indium tin oxide nano-rods and a solution processed CuInGaS <sub>2</sub> absorber layer for thin film solar cells. <i>Thin Solid Films</i> , <b>2017</b> , 636, 506-511                           | 2.2  | 1   |
| 51 | Stable surface oxygen on nanostructured silver for efficient CO <sub>2</sub> electroreduction. <i>Catalysis Today</i> , <b>2017</b> , 288, 48-53   | 5.3  | 27  |
| 50 | Surface analysis of N-doped TiO <sub>2</sub> nanorods and their enhanced photocatalytic oxidation activity. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 204, 209-215   | 21.8 | 67  |
| 49 | Photocatalytic oxidation activities of TiO <sub>2</sub> nanorod arrays: A surface spectroscopic analysis. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 480-486   | 21.8 | 12  |
| 48 | Enhancement in carbon dioxide activity and stability on nanostructured silver electrode and the role of oxygen. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 372-378                                     | 21.8 | 59  |
| 47 | Tandem Architecture of Perovskite and Cu(In,Ga)(S,Se) <sub>2</sub> Created by Solution Processes for Solar Cells. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 2102-2108   | 8.1  | 12  |
| 46 | Highly stable tandem solar cell monolithically integrating dye-sensitized and CIGS solar cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 30868   | 4.9  | 19  |
| 45 | D-sorbitol-induced phase control of TiO <sub>2</sub> nanoparticles and its application for dye-sensitized solar cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 20103  | 4.9  | 67  |
| 44 | Enhanced Photocurrents with ZnS Passivated Cu(In,Ga)(Se,S) Photocathodes Synthesized Using a Nonvacuum Process for Solar Water Splitting. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15673-15681 | 16.4 | 65  |
| 43 | Water Oxidation by Manganese Oxide Electrocatalytic Films Synthesized by Chemical Solution Deposition Method. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, F3113-F3118                               | 3.9  | 14  |
| 42 | A Comparative Study of Nanoparticle-Ink-Based CIGS <sub>Se</sub> Thin Film Solar Cells on Different Back Contact Substrates. <i>Bulletin of the Korean Chemical Society</i> , <b>2016</b> , 37, 361-365                    | 1.2  | 1   |
| 41 | Semi-transparent thin film solar cells by a solution process. <i>Korean Journal of Chemical Engineering</i> , <b>2016</b> , 33, 880-884  | 2.8  | 12  |

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|----|---|------|-----|
| 40 | Electrospun Mo-doped BiVO <sub>4</sub> photoanode on a transparent conductive substrate for solar water oxidation. <i>Catalysis Communications</i> , <b>2016</b> , 75, 18-22  | 3.2  | 19  |
| 39 | Gold catalyst reactivity for CO <sub>2</sub> electro-reduction: From nano particle to layer. <i>Catalysis Today</i> , <b>2016</b> , 260, 107-111  | 5.3  | 53  |
| 38 | Spontaneous solar water splitting by DSSC/CIGS tandem solar cells. <i>Solar Energy</i> , <b>2016</b> , 135, 821-826   | 6.8  | 7   |
| 37 | Radiation-Hard and Ultralightweight Polycrystalline Cadmium Telluride Thin-Film Solar Cells for Space Applications. <i>Energy Technology</i> , <b>2016</b> , 4, 1463-1468   | 3.5  | 2   |
| 36 | Contributors to Enhanced CO <sub>2</sub> Electroreduction Activity and Stability in a Nanostructured Au Electrocatalyst. <i>ChemSusChem</i> , <b>2016</b> , 9, 2097-102   | 8.3  | 33  |
| 35 | A monolithic and standalone solar-fuel device having comparable efficiency to photosynthesis in nature. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 5835-5842  | 13   | 47  |
| 34 | Improved photoelectrochemical water oxidation kinetics using a TiO <sub>2</sub> nanorod array photoanode decorated with graphene oxide in a neutral pH solution. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 7714-9    | 3.6  | 32  |
| 33 | Effect of the Si/TiO <sub>2</sub> /BiVO <sub>4</sub> heterojunction on the onset potential of photocurrents for solar water oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5788-96                           | 9.5  | 49  |
| 32 | Monolithic DSSC/CIGS tandem solar cell fabricated by a solution process. <i>Scientific Reports</i> , <b>2015</b> , 5, 8970  | 4.9  | 22  |
| 31 | Calcium carbonate electronic-insulating layers improve the charge collection efficiency of tin oxide photoelectrodes in dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2015</b> , 167, 379-387                               | 6.7  | 7   |
| 30 | Simple Chemical Solution Deposition of Co <sub>3</sub> O <sub>4</sub> Thin Film Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 24550-5                                   | 9.5  | 80  |
| 29 | Achieving Selective and Efficient Electrocatalytic Activity for CO <sub>2</sub> Reduction Using Immobilized Silver Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13844-50                           | 16.4 | 437 |
| 28 | Chalcogenization-Derived Band Gap Grading in Solution-Processed CuIn <sub>x</sub> Ga <sub>(1-x)</sub> (Se,S) Thin-Film Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 27391-6                              | 9.5  | 30  |
| 27 | Oxygen Plasma Induced Hierarchically Structured Gold Electrocatalyst for Selective Reduction of Carbon Dioxide to Carbon Monoxide. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 883-889                                    | 3.8  | 61  |
| 26 | Photo-oxidation activities on Pd-doped TiO <sub>2</sub> nanoparticles: critical PdO formation effect. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 165, 20-26  | 21.8 | 29  |
| 25 | A simple chemical route for composition graded Cu(In,Ga)S <sub>2</sub> thin film solar cells: multi-stage paste coating. <i>RSC Advances</i> , <b>2015</b> , 5, 103439-103444   | 3.7  | 6   |
| 24 | Design of a Monolithic Photoelectrochemical Tandem Cell for Solar Water Splitting with a Dye-sensitized Solar Cell and WO <sub>3</sub> /BiVO <sub>4</sub> Photoanode. <i>Rapid Communication in Photoscience</i> , <b>2015</b> , 4, 82-85 |      |     |
| 23 | Printable, wide band-gap chalcopyrite thin films for power generating window applications. <i>Scientific Reports</i> , <b>2014</b> , 4, 4408  | 4.9  | 47  |



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|----|---|------|-----|
| 22 | Synthesis of Bi <sub>2</sub> WO <sub>6</sub> photoanode on transparent conducting oxide substrate with low onset potential for solar water splitting. <i>RSC Advances</i> , <b>2014</b> , 4, 24032-24037                        | 3.7  | 10  |
| 21 | Embedding covalency into metal catalysts for efficient electrochemical conversion of CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 11355-61  | 16.4 | 157 |
| 20 | Cocktails of paste coatings for performance enhancement of CuInGaS <sub>2</sub> thin-film solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 888-93  | 9.5  | 11  |
| 19 | Morphology control of one-dimensional heterojunctions for highly efficient photoanodes used for solar water splitting. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11408   | 13   | 37  |
| 18 | Fabrication of solution processed 3D nanostructured CuInGaS <sub>2</sub> thin film solar cells. <i>Nanotechnology</i> , <b>2014</b> , 25, 125401  | 3.4  | 12  |
| 17 | Role of HA additive in quantum dot solar cell with Co[(bpy) <sub>3</sub> ] <sup>2+/3+</sup> -based electrolyte. <i>RSC Advances</i> , <b>2014</b> , 4, 26907-26911  | 3.7  | 20  |
| 16 | Experimental demonstration of a ferroelectric FET using paper substrate. <i>IEICE Electronics Express</i> , <b>2014</b> , 11, 20140447-20140447   | 0.5  | 4   |
| 15 | Influence of TiO <sub>2</sub> nanotube morphology and TiCl <sub>4</sub> treatment on the charge transfer in dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 112, 733-737 | 2.6  | 10  |
| 14 | Cobalt sulfide thin films for counter electrodes of dye-sensitized solar cells with cobalt complex based electrolytes. <i>Electrochimica Acta</i> , <b>2013</b> , 114, 745-749  | 6.7  | 16  |
| 13 | Mesoporous Co <sub>3</sub> O <sub>4</sub> as an electrocatalyst for water oxidation. <i>Nano Research</i> , <b>2013</b> , 6, 47-54  | 10   | 242 |
| 12 | Facile growth of aligned WO <sub>3</sub> nanorods on FTO substrate for enhanced photoanodic water oxidation activity. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 3479   | 13   | 236 |
| 11 | Si/InGaN core/shell hierarchical nanowire arrays and their photoelectrochemical properties. <i>Nano Letters</i> , <b>2012</b> , 12, 1678-82   | 11.5 | 195 |
| 10 | Photoelectrochemical properties of TiO <sub>2</sub> nanowire arrays: a study of the dependence on length and atomic layer deposition coating. <i>ACS Nano</i> , <b>2012</b> , 6, 5060-9   | 16.7 | 353 |
| 9  | Epitaxial growth of InGaN nanowire arrays for light emitting diodes. <i>ACS Nano</i> , <b>2011</b> , 5, 3970-6  | 16.7 | 97  |
| 8  | Light-induced charge transport within a single asymmetric nanowire. <i>Nano Letters</i> , <b>2011</b> , 11, 3755-8  | 11.5 | 51  |
| 7  | Atomic and electronic structure of styrene on Ge(100). <i>Surface Science</i> , <b>2011</b> , 605, 1438-1444  | 1.8  | 3   |
| 6  | Discrimination of Chiral Adsorption Configurations: Styrene on Germanium(100). <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 1426-1432  | 3.8  | 10  |
| 5  | High density n-Si/n-TiO <sub>2</sub> core/shell nanowire arrays with enhanced photoactivity. <i>Nano Letters</i> , <b>2009</b> , 9, 410-5   | 11.5 | 512 |

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| 4 | Bidentate Structures of Acetic Acid on Ge(100): The Role of Carboxyl Oxygen. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 5941-5945                 | 3.8  | 23 |
| 3 | Chiral attachment of styrene mediated by surface dimers on Ge100. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 5016-7                      | 16.4 | 28 |
| 2 | Origin of Hydrogen Incorporated into Ethylene during Electrochemical CO <sub>2</sub> Reduction in Membrane Electrode Assembly. <i>ACS Energy Letters</i> , 939-945 | 20.1 | 7  |
| 1 | Electrocatalytic Reduction of Low Concentrations of CO <sub>2</sub> Gas in a Membrane Electrode Assembly Electrolyzer. <i>ACS Energy Letters</i> , 3488-3495       | 20.1 | 17 |