

Chong-Yong Lee

List of Publications by Year in descending order

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73
papers

2,452
citations

186265
28
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214800
47
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77
all docs

77
docs citations

77
times ranked

3679
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Earth-abundant electrocatalysts for sustainable energy conversion. , 2022, , 131-168. | | 0 |
| 2 | A high-performance capillary-fed electrolysis cell promises more cost-competitive renewable hydrogen. Nature Communications, 2022, 13, 1304. | 12.8 | 111 |
| 3 | Cathodic exfoliation of graphite into graphene nanoplatelets in aqueous solution of alkali metal salts. Journal of Materials Science, 2021, 56, 3612-3622. | 3.7 | 15 |
| 4 | Boosting Formate Production from CO ₂ at High Current Densities Over a Wide Electrochemical Potential Window on a SnS Catalyst. Advanced Science, 2021, 8, e2004521. | 11.2 | 27 |
| 5 | Simultaneous Anodic and Cathodic Exfoliation of Graphite Electrodes in an Aqueous Solution of Inorganic Salt. ChemElectroChem, 2021, 8, 3168-3173. | 3.4 | 5 |
| 6 | A Non-Noble Metal Catalyst-Based Electrolyzer for Efficient CO ₂ -to-Formate Conversion. ACS Sustainable Chemistry and Engineering, 2021, 9, 16394-16402. | 6.7 | 9 |
| 7 | A Self-Assembled CO ₂ Reduction Electrocatalyst: Posy-Bouquet-Shaped Gold-Polyaniline Core-Shell Nanocomposite. ChemSusChem, 2020, 13, 5023-5030. | 6.8 | 10 |
| 8 | Energy materials for transient power sources. MRS Bulletin, 2020, 45, 121-128. | 3.5 | 7 |
| 9 | A robust 3D printed multilayer conductive graphene/polycaprolactone composite electrode. Materials Chemistry Frontiers, 2020, 4, 1664-1670. | 5.9 | 18 |
| 10 | Hierarchical architectures of mesoporous Pd on highly ordered TiO ₂ nanotube arrays for electrochemical CO ₂ reduction. Journal of Materials Chemistry A, 2020, 8, 8041-8048. | 10.3 | 15 |
| 11 | Neural Tissue Engineering: Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer Microelectrode Arrays for 3D Electrical Stimulation (Adv. Healthcare Mater. 15/2019). Advanced Healthcare Materials, 2019, 8, 1970062. | 7.6 | 1 |
| 12 | 3D Printing for Electrocatalytic Applications. Joule, 2019, 3, 1835-1849. | 24.0 | 80 |
| 13 | Reversible and Selective Interconversion of Hydrogen and Carbon Dioxide into Formate by a Semiartificial Formate Hydrogenlyase Mimic. Journal of the American Chemical Society, 2019, 141, 17498-17502. | 13.7 | 32 |
| 14 | A 3D-Printed Electrochemical Water Splitting Cell. Advanced Materials Technologies, 2019, 4, 1900433. | 5.8 | 20 |
| 15 | Beyond artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 422-438. | 3.2 | 0 |
| 16 | Biological approaches to artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 66-83. | 3.2 | 0 |
| 17 | Demonstrator devices for artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 345-363. | 3.2 | 2 |
| 18 | Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer Microelectrode Arrays for 3D Electrical Stimulation. Advanced Healthcare Materials, 2019, 8, e1900425. | 7.6 | 62 |

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|----|--|------|-----------|
| 19 | Facile electrochemical synthesis of ultrathin iron oxyhydroxide nanosheets for the oxygen evolution reaction. <i>Chemical Communications</i> , 2019, 55, 8808-8811. | 4.1 | 15 |
| 20 | Emerging approach in semiconductor photocatalysis: Towards 3D architectures for efficient solar fuels generation in semi-artificial photosynthetic systems. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019, 39, 142-160. | 11.6 | 34 |
| 21 | Tunable solution-processable anodic exfoliated graphene. <i>Applied Materials Today</i> , 2019, 15, 290-296. | 4.3 | 18 |
| 22 | CO ₂ electrolysis in seawater: calcification effect and a hybrid self-powered concept. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23301-23307. | 10.3 | 15 |
| 23 | Rapid formation of self-organised Ag nanosheets with high efficiency and selectivity in CO ₂ electroreduction to CO. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1023-1027. | 4.9 | 49 |
| 24 | 3D-Printed Conical Arrays of TiO ₂ Electrodes for Enhanced Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2017, 7, 1701060. | 19.5 | 75 |
| 25 | 3D Printing: 3D-Printed Conical Arrays of TiO ₂ Electrodes for Enhanced Photoelectrochemical Water Splitting (Adv. Energy Mater. 21/2017). <i>Advanced Energy Materials</i> , 2017, 7, . | 19.5 | 0 |
| 26 | Electrochemical Oxidation of W(CO) ₄ (LL): Generation, Characterization, and Reactivity of [W(CO) ₄ (LL)] ⁺ (LL=1,2-diimine ligands). <i>Australian Journal of Chemistry</i> , 2017, 70, 1006. | 0.9 | 2 |
| 27 | Photoelectrochemical H ₂ Evolution with a Hydrogenase Immobilized on a TiO ₂ -Protected Silicon Electrode. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5971-5974. | 13.8 | 98 |
| 28 | Photoelectrochemical H ₂ Evolution with a Hydrogenase Immobilized on a TiO ₂ -Protected Silicon Electrode. <i>Angewandte Chemie</i> , 2016, 128, 6075-6078. | 2.0 | 26 |
| 29 | A decahaem cytochrome as an electron conduit in protein-enzyme redox processes. <i>Chemical Communications</i> , 2016, 52, 7390-7393. | 4.1 | 15 |
| 30 | A Decaheme Cytochrome as a Molecular Electron Conduit in Dye-Sensitized Photoanodes. <i>Advanced Functional Materials</i> , 2015, 25, 2308-2315. | 14.9 | 18 |
| 31 | Wiring of Photosystem II to Hydrogenase for Photoelectrochemical Water Splitting. <i>Journal of the American Chemical Society</i> , 2015, 137, 8541-8549. | 13.7 | 228 |
| 32 | Anodic self-organized transparent nanotubular/porous hematite films from Fe thin-films sputtered on FTO and photoelectrochemical water splitting. <i>Research on Chemical Intermediates</i> , 2015, 41, 9333-9341. | 2.7 | 17 |
| 33 | High-power pulsed plasma deposition of hematite photoanode for PEC water splitting. <i>Catalysis Today</i> , 2014, 230, 8-14. | 4.4 | 32 |
| 34 | Self-organized cobalt fluoride nanochannel layers used as a pseudocapacitor material. <i>Chemical Communications</i> , 2014, 50, 7067-7070. | 4.1 | 21 |
| 35 | A significant cathodic shift in the onset potential of photoelectrochemical water splitting for hematite nanostructures grown from Fe-Si alloys. <i>Materials Horizons</i> , 2014, 1, 344-347. | 12.2 | 15 |
| 36 | Mediator Enhanced Water Oxidation Using Rb ₄ [Ru ^{II} (bpy) ₃] ₅ [[Ru ^{III}] ₄ O ₄ (OH) ₂] ₂ Film Modified Electrodes. <i>Inorganic Chemistry</i> , 2014, 53, 7561-7570. | 14.0 | 25 |

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|----|--|------|-----------|
| 37 | Photoelectrochemical reduction of aqueous protons with a CuO CuBi ₂ O ₄ heterojunction under visible light irradiation. Physical Chemistry Chemical Physics, 2014, 16, 22462-22465. | 2.8 | 78 |
| 38 | Improved photoelectrochemical water splitting of hematite nanorods thermally grown on Fe-Ti alloys. Electrochemistry Communications, 2014, 44, 49-53. | 4.7 | 13 |
| 39 | Anodic Nanotubular/porous Hematite Photoanode for Solar Water Splitting: Substantial Effect of Iron Substrate Purity. ChemSusChem, 2014, 7, 934-940. | 6.8 | 64 |
| 40 | Enhancing the Water Splitting Efficiency of Sn-Doped Hematite Nanoflakes by Flame Annealing. Chemistry - A European Journal, 2014, 20, 77-82. | 3.3 | 51 |
| 41 | Estimation of electrode kinetic and uncompensated resistance parameters and insights into their significance using Fourier transformed ac voltammetry and e-science software tools. Journal of Electroanalytical Chemistry, 2013, 690, 104-110. | 3.8 | 14 |
| 42 | N-Doped lepidocrocite nanotubular arrays: hydrothermal formation from anodic TiO ₂ nanotubes and enhanced visible light photoresponse. Journal of Materials Chemistry A, 2013, 1, 1860-1866. | 10.3 | 13 |
| 43 | Graphene-supported [{Ru ₄ O ₄ (OH) ₂ (H ₂ O) ₄ }(Î ³ -SiW ₁₀ O ₃₆) ₂] ₁₀ for highly efficient electrocatalytic water oxidation. Energy and Environmental Science, 2013, 6, 2654. | 30.8 | 124 |
| 44 | Solar water splitting: preserving the beneficial small feature size in porous Î±-Fe ₂ O ₃ photoelectrodes during annealing. Journal of Materials Chemistry A, 2013, 1, 212-215. | 10.3 | 100 |
| 45 | Si-doped Fe ₂ O ₃ nanotubular/nanoporous layers for enhanced photoelectrochemical water splitting. Electrochemistry Communications, 2013, 34, 308-311. | 4.7 | 46 |
| 46 | Ti and Sn co-doped anodic Î±-Fe ₂ O ₃ films for efficient water splitting. Electrochemistry Communications, 2013, 30, 21-25. | 4.7 | 51 |
| 47 | Influence of annealing temperature on photoelectrochemical water splitting of Î±-Fe ₂ O ₃ films prepared by anodic deposition. Electrochimica Acta, 2013, 91, 307-313. | 5.2 | 55 |
| 48 | Anodic Formation of Self-Organized Cobalt Oxide Nanoporous Layers. Angewandte Chemie - International Edition, 2013, 52, 2077-2081. | 13.8 | 71 |
| 49 | Attributes of Large-Amplitude Fourier Transformed Alternating Current Voltammetry at Array and Single Carbon Fiber Microdisk Electrodes. Electroanalysis, 2013, 25, 931-944. | 2.9 | 5 |
| 50 | Theoretical Analysis of the Two-Electron Transfer Reaction and Experimental Studies with Surface-Confined Cytochrome c Peroxidase Using Large-Amplitude Fourier Transformed AC Voltammetry. Langmuir, 2012, 28, 9864-9877. | 3.5 | 22 |
| 51 | Thermal air oxidation of Fe: rapid hematite nanowire growth and photoelectrochemical water splitting performance. Electrochemistry Communications, 2012, 23, 59-62. | 4.7 | 50 |
| 52 | Enhanced water splitting activity of M-doped Ta ₃ N ₅ (M = Na, K, Rb, Cs). Chemical Communications, 2012, 48, 8685. | 4.1 | 67 |
| 53 | Detailed Electrochemical Studies of the Tetraruthenium Polyoxometalate Water Oxidation Catalyst in Acidic Media: Identification of an Extended Oxidation Series using Fourier Transformed Alternating Current Voltammetry. Inorganic Chemistry, 2012, 51, 11521-11532. | 4.0 | 33 |
| 54 | Strongly enhanced photocurrent response for Na doped Ta ₃ N ₅ -nano porous structure. Electrochemistry Communications, 2012, 17, 67-70. | 4.7 | 38 |

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|----|---|------|-----------|
| 55 | Silicon Nanowires for Innovative Energy Applications. ECS Meeting Abstracts, 2012, , . | 0.0 | 0 |
| 56 | Leveraging e-Science infrastructure for electrochemical research. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3336-3352. | 3.4 | 14 |
| 57 | Theoretical and experimental investigation of surface-confined two-center metalloproteins by large-amplitude Fourier transformed ac voltammetry. Journal of Electroanalytical Chemistry, 2011, 656, 293-303. | 3.8 | 16 |
| 58 | Comparison of the electrochemical behaviour of buckypaper and polymer-intercalated buckypaper electrodes. Journal of Electroanalytical Chemistry, 2011, 652, 52-59. | 3.8 | 12 |
| 59 | A Comparison of the Higher Order Harmonic Components Derived from Large-Amplitude Fourier Transformed ac Voltammetry of Myoglobin and Heme in DDAB Films at a Pyrolytic Graphite Electrode. Langmuir, 2010, 26, 5243-5253. | 3.5 | 20 |
| 60 | The formation of gold nanoparticles using hydroquinone as a reducing agent through a localized pH change upon addition of NaOH to a solution of HAuCl ₄ . Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 370, 35-41. | 4.7 | 50 |
| 61 | Effects of Coupled Homogeneous Chemical Reactions on the Response of Large-Amplitude AC Voltammetry: Extraction of Kinetic and Mechanistic Information by Fourier Transform Analysis of Higher Harmonic Data. Journal of Physical Chemistry A, 2010, 114, 10122-10134. | 2.5 | 19 |
| 62 | Revelation of Multiple Underlying RuO ₂ Redox Processes Associated with Pseudocapacitance and Electrocatalysis. Langmuir, 2010, 26, 16155-16162. | 3.5 | 32 |
| 63 | Electrochemical Parameter Optimization Using Scientific Workflows. , 2010, , . | | 4 |
| 64 | Superior electrochemical platforms based on polymer carbon nanotube composite electrodes. , 2010, , . | | 0 |
| 65 | Probing Second Harmonic Components of pH-Sensitive Redox Processes in a Mesoporous TiO ₂ -Nafion Film Electrode with Fourier-Transformed Large-Amplitude Sinusoidally Modulated Voltammetry. Electroanalysis, 2009, 21, 41-47. | 2.9 | 7 |
| 66 | Systematic evaluation of electrode kinetics and impact of surface heterogeneity for surface-confined proteins using analysis of harmonic components available in sinusoidal large-amplitude Fourier transformed ac voltammetry. Analytica Chimica Acta, 2009, 652, 205-214. | 5.4 | 13 |
| 67 | Evaluation of Levels of Defect Sites Present in Highly Ordered Pyrolytic Graphite Electrodes Using Capacitive and Faradaic Current Components Derived Simultaneously from Large-Amplitude Fourier Transformed ac Voltammetric Experiments. Analytical Chemistry, 2009, 81, 584-594. | 6.5 | 37 |
| 68 | Effect of heterogeneity on the dc and ac voltammetry of the [Fe(CN) ₆] ^{3-/4-} solution-phase process at a highly ordered pyrolytic graphite electrode. Journal of Electroanalytical Chemistry, 2008, 615, 1-11. | 3.8 | 23 |
| 69 | Identification of Surface Heterogeneity Effects in Cyclic Voltammograms Derived from Analysis of an Individually Addressable Gold Array Electrode. Analytical Chemistry, 2008, 80, 3873-3881. | 6.5 | 28 |
| 70 | Electrochemical-assisted photodegradation of mixed dye and textile effluents using TiO ₂ thin films. Journal of Hazardous Materials, 2007, 146, 73-80. | 12.4 | 59 |
| 71 | Properties and Photoelectrocatalytic Behaviour of Sol-Gel Derived TiO ₂ Thin Films. Journal of Sol-Gel Science and Technology, 2006, 37, 19-25. | 2.4 | 21 |
| 72 | Effect of supporting electrolytes in electrochemically-assisted photodegradation of an azo dye. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 172, 316-321. | 3.9 | 31 |

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|----|---|------|-----------|
| 73 | Electrochemical-assisted photodegradation of dye on TiO2 thin films: investigation on the effect of operational parameters. Journal of Hazardous Materials, 2005, 118, 197-203. | 12.4 | 38 |