

Chong-Yong Lee

List of Publications by Year in descending order

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73
papers

2,452
citations

185998

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h-index

214527

47
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77
all docs

77
docs citations

77
times ranked

3679
citing authors

#	ARTICLE	IF	CITATIONS
1	Wiring of Photosystem II to Hydrogenase for Photoelectrochemical Water Splitting. <i>Journal of the American Chemical Society</i> , 2015, 137, 8541-8549.	6.6	228
2	Graphene-supported $[\{Ru_4O_4(OH)_2(H_2O)_4\}(\beta-SiW_{10}O_{36})_2]^{10-}$ for highly efficient electrocatalytic water oxidation. <i>Energy and Environmental Science</i> , 2013, 6, 2654.	15.6	124
3	A high-performance capillary-fed electrolysis cell promises more cost-competitive renewable hydrogen. <i>Nature Communications</i> , 2022, 13, 1304.	5.8	111
4	Solar water splitting: preserving the beneficial small feature size in porous $\gamma-Fe_2O_3$ photoelectrodes during annealing. <i>Journal of Materials Chemistry A</i> , 2013, 1, 212-215.	5.2	100
5	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.	7.2	98
6	3D Printing for Electrocatalytic Applications. <i>Joule</i> , 2019, 3, 1835-1849.	11.7	80
7	Photoelectrochemical reduction of aqueous protons with a $CuO CuBi_2O_4$ heterojunction under visible light irradiation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22462-22465.	1.3	78
8	3D-Printed Conical Arrays of TiO_2 Electrodes for Enhanced Photoelectrochemical Water Splitting. <i>Advanced Energy Materials</i> , 2017, 7, 1701060.	10.2	75
9	Anodic Formation of Self-Organized Cobalt Oxide Nanoporous Layers. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2077-2081.	7.2	71
10	Enhanced water splitting activity of M-doped Ta_3N_5 (M = Na, K, Rb, Cs). <i>Chemical Communications</i> , 2012, 48, 8685.	2.2	67
11	Anodic Nanotubular/porous Hematite Photoanode for Solar Water Splitting: Substantial Effect of Iron Substrate Purity. <i>ChemSusChem</i> , 2014, 7, 934-940.	3.6	64
12	Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer Microelectrode Arrays for 3D Electrical Stimulation. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900425.	3.9	62
13	Electrochemical-assisted photodegradation of mixed dye and textile effluents using TiO_2 thin films. <i>Journal of Hazardous Materials</i> , 2007, 146, 73-80.	6.5	59
14	Influence of annealing temperature on photoelectrochemical water splitting of $\gamma-Fe_2O_3$ films prepared by anodic deposition. <i>Electrochimica Acta</i> , 2013, 91, 307-313.	2.6	55
15	Ti and Sn co-doped anodic $\gamma-Fe_2O_3$ films for efficient water splitting. <i>Electrochemistry Communications</i> , 2013, 30, 21-25.	2.3	51
16	Enhancing the Water Splitting Efficiency of Sn -Doped Hematite Nanoflakes by Flame Annealing. <i>Chemistry - A European Journal</i> , 2014, 20, 77-82.	1.7	51
17	The formation of gold nanoparticles using hydroquinone as a reducing agent through a localized pH change upon addition of NaOH to a solution of $HAuCl_4$. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 370, 35-41.	2.3	50
18	Thermal air oxidation of Fe: rapid hematite nanowire growth and photoelectrochemical water splitting performance. <i>Electrochemistry Communications</i> , 2012, 23, 59-62.	2.3	50

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19	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.	2.5	49
20	Si-doped Fe ₂ O ₃ nanotubular/nanoporous layers for enhanced photoelectrochemical water splitting. <i>Electrochemistry Communications</i> , 2013, 34, 308-311.	2.3	46
21	Electrochemical-assisted photodegradation of dye on TiO ₂ thin films: investigation on the effect of operational parameters. <i>Journal of Hazardous Materials</i> , 2005, 118, 197-203.	6.5	38
22	Strongly enhanced photocurrent response for Na doped Ta ₃ N ₅ -nano porous structure. <i>Electrochemistry Communications</i> , 2012, 17, 67-70.	2.3	38
23	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. <i>Analytical Chemistry</i> , 2009, 81, 584-594.	3.2	37
24	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.	5.6	34
25	Detailed Electrochemical Studies of the Tetra-ruthenium Polyoxometalate Water Oxidation Catalyst in Acidic Media: Identification of an Extended Oxidation Series using Fourier Transformed Alternating Current Voltammetry. <i>Inorganic Chemistry</i> , 2012, 51, 11521-11532.	1.9	33
26	Revelation of Multiple Underlying RuO ₂ Redox Processes Associated with Pseudocapacitance and Electrocatalysis. <i>Langmuir</i> , 2010, 26, 16155-16162.	1.6	32
27	High-power pulsed plasma deposition of hematite photoanode for PEC water splitting. <i>Catalysis Today</i> , 2014, 230, 8-14.	2.2	32
28	Reversible and Selective Interconversion of Hydrogen and Carbon Dioxide into Formate by a Semiartificial Formate Hydrogenlyase Mimic. <i>Journal of the American Chemical Society</i> , 2019, 141, 17498-17502.	6.6	32
29	Effect of supporting electrolytes in electrochemically-assisted photodegradation of an azo dye. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 172, 316-321.	2.0	31
30	Identification of Surface Heterogeneity Effects in Cyclic Voltammograms Derived from Analysis of an Individually Addressable Gold Array Electrode. <i>Analytical Chemistry</i> , 2008, 80, 3873-3881.	3.2	28
31	Boosting Formate Production from CO ₂ at High Current Densities Over a Wide Electrochemical Potential Window on a SnS Catalyst. <i>Advanced Science</i> , 2021, 8, e2004521.	5.6	27
32	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.	2.6	26
33	Photoelectrochemical H ₂ Evolution with a Hydrogenase Immobilized on a TiO ₂ -Protected Silicon Electrode. <i>Angewandte Chemie</i> , 2016, 128, 6075-6078.	1.6	26
34	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. <i>Journal of Electroanalytical Chemistry</i> , 2008, 615, 1-11.	1.9	23
35	Theoretical Analysis of the Two-Electron Transfer Reaction and Experimental Studies with Surface-Confined Cytochrome <i>c</i> Peroxidase Using Large-Amplitude Fourier Transformed AC Voltammetry. <i>Langmuir</i> , 2012, 28, 9864-9877.	1.6	22
36	Properties and Photoelectrocatalytic Behaviour of Sol-Gel Derived TiO ₂ Thin Films. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 37, 19-25.	1.1	21

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37	Self-organized cobalt fluoride nanochannel layers used as a pseudocapacitor material. <i>Chemical Communications</i> , 2014, 50, 7067-7070.	2.2	21
38	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. <i>Langmuir</i> , 2010, 26, 5243-5253.	1.6	20
39	A 3D-Printed Electrochemical Water Splitting Cell. <i>Advanced Materials Technologies</i> , 2019, 4, 1900433.	3.0	20
40	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. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10122-10134.	1.1	19
41	A Decaheme Cytochrome as a Molecular Electron Conduit in Dye-Sensitized Photoanodes. <i>Advanced Functional Materials</i> , 2015, 25, 2308-2315.	7.8	18
42	Tunable solution-processable anodic exfoliated graphene. <i>Applied Materials Today</i> , 2019, 15, 290-296.	2.3	18
43	A robust 3D printed multilayer conductive graphene/polycaprolactone composite electrode. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1664-1670.	3.2	18
44	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.	1.3	17
45	Theoretical and experimental investigation of surface-confined two-center metalloproteins by large-amplitude Fourier transformed ac voltammetry. <i>Journal of Electroanalytical Chemistry</i> , 2011, 656, 293-303.	1.9	16
46	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.	6.4	15
47	A decahaem cytochrome as an electron conduit in protein-enzyme redox processes. <i>Chemical Communications</i> , 2016, 52, 7390-7393.	2.2	15
48	CO ₂ electrolysis in seawater: calcification effect and a hybrid self-powered concept. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23301-23307.	5.2	15
49	Facile electrochemical synthesis of ultrathin iron oxyhydroxide nanosheets for the oxygen evolution reaction. <i>Chemical Communications</i> , 2019, 55, 8808-8811.	2.2	15
50	Hierarchical architectures of mesoporous Pd on highly ordered TiO ₂ nanotube arrays for electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8041-8048.	5.2	15
51	Cathodic exfoliation of graphite into graphene nanoplatelets in aqueous solution of alkali metal salts. <i>Journal of Materials Science</i> , 2021, 56, 3612-3622.	1.7	15
52	Leveraging e-Science infrastructure for electrochemical research. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 3336-3352.	1.6	14
53	Estimation of electrode kinetic and uncompensated resistance parameters and insights into their significance using Fourier transformed ac voltammetry and e-science software tools. <i>Journal of Electroanalytical Chemistry</i> , 2013, 690, 104-110.	1.9	14
54	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. <i>Analytica Chimica Acta</i> , 2009, 652, 205-214.	2.6	13

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55	N-Doped lepidocrocite nanotubular arrays: hydrothermal formation from anodic TiO ₂ nanotubes and enhanced visible light photoresponse. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1860-1866.	5.2	13
56	Improved photoelectrochemical water splitting of hematite nanorods thermally grown on Fe-Ti alloys. <i>Electrochemistry Communications</i> , 2014, 44, 49-53.	2.3	13
57	Comparison of the electrochemical behaviour of buckypaper and polymer-intercalated buckypaper electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2011, 652, 52-59.	1.9	12
58	A Self-Assembled CO ₂ Reduction Electrocatalyst: Posy-Bouquet-Shaped Gold-Polyaniline Core-Shell Nanocomposite. <i>ChemSusChem</i> , 2020, 13, 5023-5030.	3.6	10
59	A Non-Noble Metal Catalyst-Based Electrolyzer for Efficient CO ₂ -to-Formate Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16394-16402.	3.2	9
60	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. <i>Electroanalysis</i> , 2009, 21, 41-47.	1.5	7
61	Energy materials for transient power sources. <i>MRS Bulletin</i> , 2020, 45, 121-128.	1.7	7
62	Attributes of Large-Amplitude Fourier Transformed Alternating Current Voltammetry at Array and Single Carbon Fiber Microdisk Electrodes. <i>Electroanalysis</i> , 2013, 25, 931-944.	1.5	5
63	Simultaneous Anodic and Cathodic Exfoliation of Graphite Electrodes in an Aqueous Solution of Inorganic Salt. <i>ChemElectroChem</i> , 2021, 8, 3168-3173.	1.7	5
64	Electrochemical Parameter Optimization Using Scientific Workflows. , 2010, , .		4
65	Electrochemical Oxidation of W(CO) ₄ (LL): Generation, Characterization, and Reactivity of [W(CO) ₄ (LL)] ⁺ (LL=±-diimine ligands). <i>Australian Journal of Chemistry</i> , 2017, 70, 1006.	0.5	2
66	Demonstrator devices for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019, 215, 345-363.	1.6	2
67	Neural Tissue Engineering: Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer Microelectrode Arrays for 3D Electrical Stimulation (<i>Adv. Healthcare Mater.</i> 15/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970062.	3.9	1
68	Superior electrochemical platforms based on polymer carbon nanotube composite electrodes. , 2010, , .		0
69	3D Printing: 3D-Printed Conical Arrays of TiO ₂ Electrodes for Enhanced Photoelectrochemical Water Splitting (<i>Adv. Energy Mater.</i> 21/2017). <i>Advanced Energy Materials</i> , 2017, 7, .	10.2	0
70	Beyond artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019, 215, 422-438.	1.6	0
71	Biological approaches to artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019, 215, 66-83.	1.6	0
72	Silicon Nanowires for Innovative Energy Applications. <i>ECS Meeting Abstracts</i> , 2012, , .	0.0	0

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73	Earth-abundant electrocatalysts for sustainable energy conversion. , 2022, , 131-168.		0