# Lawrence Yoon Suk Lee

List of Publications by Year
in descending order

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|---|---|---|---|
| 90<br>papers | 6,203<br>citations | 109137<br>35<br>h-index | 69108<br>77<br>g-index |
| 95<br>all docs | 95<br>docs citations | 95<br>times ranked | 7468<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Recent Advances in Electrocatalytic Hydrogen Evolution Using Nanoparticles. Chemical Reviews, 2020, 120, 851-918. | 23.0 | 1,767 |
| 2 | Recent advance in MXenes: A promising 2D material for catalysis, sensor and chemical adsorption. Coordination Chemistry Reviews, 2017, 352, 306-327. | 9.5 | 484 |
| 3 | Electrochemical Instability of Metalâ€“Organic Frameworks: In Situ Spectroelectrochemical Investigation of the Real Active Sites. ACS Catalysis, 2020, 10, 81-92. | 5.5 | 248 |
| 4 | Significant Enhancement in Photocatalytic Reduction of Water to Hydrogen by Au/Cu<sub>2</sub>ZnSnS<sub>4</sub> Nanostructure. Advanced Materials, 2014, 26, 3496-3500. | 11.1 | 171 |
| 5 | Metalâ€“Organic Frameworks for Electrocatalysis: Catalyst or Precatalyst?. ACS Energy Letters, 2021, 6, 2838-2843. | 8.8 | 171 |
| 6 | Ferrocenylalkylthiolates as a Probe of Heterogeneity in Binary Self-Assembled Monolayers on Gold. Langmuir, 2006, 22, 4438-4444. | 1.6 | 145 |
| 7 | 2H/1T Phase Transition of Multilayer MoS<sub>2</sub> by Electrochemical Incorporation of S Vacancies. ACS Applied Energy Materials, 2018, 1, 4754-4765. | 2.5 | 141 |
| 8 | Interface engineered NiFe2O4â^'x/NiMoO4 nanowire arrays for electrochemical oxygen evolution. Applied Catalysis B: Environmental, 2021, 286, 119857. | 10.8 | 138 |
| 9 | Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. Nano Energy, 2018, 52, 360-368. | 8.2 | 135 |
| 10 | 1H Fast MAS NMR Studies of Hydrogen-Bonding Interactions in Self-Assembled Monolayers. Journal of the American Chemical Society, 2003, 125, 4174-4184. | 6.6 | 127 |
| 11 | Vanadium carbide nanoparticles encapsulated in graphitic carbon network nanosheets: A high-efficiency electrocatalyst for hydrogen evolution reaction. Nano Energy, 2016, 26, 603-609. | 8.2 | 120 |
| 12 | Transition metal-doped nickel phosphide nanoparticles as electro- and photocatalysts for hydrogen generation reactions. Applied Catalysis B: Environmental, 2019, 242, 186-193. | 10.8 | 120 |
| 13 | Interfacing or Doping? Role of Ce in Highly Promoted Water Oxidation of NiFeâ€Layered Double Hydroxide. Advanced Energy Materials, 2021, 11, 2101281. | 10.2 | 120 |
| 14 | Best Practices in Using Foam-Type Electrodes for Electrocatalytic Performance Benchmark. ACS Energy Letters, 2020, 5, 3260-3264. | 8.8 | 112 |
| 15 | Two-dimensional metal-organic framework and covalent-organic framework: synthesis and their energy-related applications. Materials Today Chemistry, 2019, 12, 34-60. | 1.7 | 105 |
| 16 | Photocatalytic CO<sub>2</sub> Reduction Enabled by Interfacial S-Scheme Heterojunction between Ultrasmall Copper Phosphosulfide and g-C<sub>3</sub>N<sub>4</sub>. ACS Applied Materials & Interfaces, 2021, 13, 9762-9770. | 4.0 | 99 |
| 17 | Copper nanoparticles/polyaniline/graphene composite as a highly sensitive electrochemical glucose sensor. Journal of Electroanalytical Chemistry, 2016, 781, 155-160. | 1.9 | 92 |
| 18 | Synergies of Fe Single Atoms and Clusters on Nâ€Doped Carbon Electrocatalyst for pHâ€Universal Oxygen Reduction. Small Methods, 2021, 5, e2001165. | 4.6 | 90 |

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|---|---|---|---|
| 19 | Tuning the Morphology and Chiroptical Properties of Discrete Gold Nanorods with Amino Acids. Angewandte Chemie - International Edition, 2018, 57, 16452-16457. | 7.2 | 86 |
| 20 | Co/Co3O4-embedded N-doped hollow carbon composite derived from a bimetallic MOF/ZnO Core-shell template as a sulfur host for Li-S batteries. Chemical Engineering Journal, 2021, 407, 126967. | 6.6 | 86 |
| 21 | Designing charge transfer route at the interface between WP nanoparticle and g-C3N4 for highly enhanced photocatalytic CO2 reduction reaction. Applied Catalysis B: Environmental, 2021, 286, 119879. | 10.8 | 77 |
| 22 | Tailored transition metal-doped nickel phosphide nanoparticles for the electrochemical oxygen evolution reaction (OER). Chemical Communications, 2018, 54, 8630-8633. | 2.2 | 73 |
| 23 | Overall Waterâ€Splitting Electrocatalysts Based on 2D CoNiâ€Metalâ€Organic Frameworks and Its Derivative. Advanced Materials Interfaces, 2018, 5, 1800849. | 1.9 | 66 |
| 24 | Direct anodic exfoliation of graphite onto high-density aligned graphene for large capacity supercapacitors. Nano Energy, 2017, 34, 515-523. | 8.2 | 56 |
| 25 | Morphology-Controlled Synthesis of Au/Cu<sub>2</sub>FeSnS<sub>4</sub> Coreâ€“Shell Nanostructures for Plasmon-Enhanced Photocatalytic Hydrogen Generation. ACS Applied Materials & Interfaces, 2015, 7, 9072-9077. | 4.0 | 54 |
| 26 | Disordered layers on WO<sub>3</sub> nanoparticles enable photochemical generation of hydrogen from water. Journal of Materials Chemistry A, 2019, 7, 221-227. | 5.2 | 54 |
| 27 | Interface Engineering of a 2D-C<sub>3</sub>N<sub>4</sub>/NiFe-LDH Heterostructure for Highly Efficient Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2021, 13, 24723-24733. | 4.0 | 54 |
| 28 | Cu2ZnSnS4/MoS2-Reduced Graphene Oxide Heterostructure: Nanoscale Interfacial Contact and Enhanced Photocatalytic Hydrogen Generation. Scientific Reports, 2017, 7, 39411. | 1.6 | 53 |
| 29 | Electrochemical Desorption of n-Alkylthiol SAMs on Polycrystalline Gold:â€‰ Studies Using A Ferrocenylalkylthiol Probe. Langmuir, 2007, 23, 292-296. | 1.6 | 49 |
| 30 | Improving the performance stability of direct seawater electrolysis: from catalyst design to electrode engineering. Nanoscale, 2021, 13, 15177-15187. | 2.8 | 48 |
| 31 | Highly Enhanced Pseudocapacitive Performance of Vanadiumâ€Doped MXenes in Neutral Electrolytes. Small, 2019, 15, e1902649. | 5.2 | 46 |
| 32 | Highly promoted hydrogen production enabled by interfacial P N chemical bonds in copper phosphosulfide Z-scheme composite. Applied Catalysis B: Environmental, 2021, 283, 119624. | 10.8 | 45 |
| 33 | Sulfuric Acid-Catalyzed Conversion of Alkynes to Ketones in an Ionic Liquid Medium under Mild Reaction Conditions. ACS Catalysis, 2011, 1, 116-119. | 5.5 | 43 |
| 34 | Ni nanoparticles on active (001) facet-exposed rutile TiO2 nanopyramid arrays for efficient hydrogen evolution. Applied Catalysis B: Environmental, 2021, 282, 119548. | 10.8 | 40 |
| 35 | Laserâ€Assisted Ultrafast Exfoliation of Black Phosphorus in Liquid with Tunable Thickness for Liâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 1903490. | 10.2 | 39 |
| 36 | Tuning the Electrochemical Properties of Polymeric Cobalt Phthalocyanines for Efficient Water Splitting. Advanced Functional Materials, 2021, 31, 2103290. | 7.8 | 38 |

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|---|---|---|---|
| 37 | A Dopamine Electrochemical Sensor Based on Molecularly Imprinted Poly(acrylamidophenylboronic) Tj ETQq1 1 0.784314 rgBT /Overlo | 1.5 | 36 |
| 38 | A green catalysis of CO2 fixation to aliphatic cyclic carbonates by a new ionic liquid system. Applied Catalysis A: General, 2014, 472, 160-166. | 2.2 | 34 |
| 39 | Use of carbon supports with copper ion as a highly sensitive non-enzymatic glucose sensor. Sensors and Actuators B: Chemical, 2019, 282, 187-196. | 4.0 | 33 |
| 40 | Beyond sonication: Advanced exfoliation methods for scalable production of 2D materials. Matter, 2022, 5, 515-545. | 5.0 | 33 |
| 41 | Electrocatalytic reduction of carbon dioxide by a polymeric film of rhenium tricarbonyl dipyridylamine. Journal of Organometallic Chemistry, 2009, 694, 2842-2845. | 0.8 | 31 |
| 42 | Tuning the Site-to-Site Interaction in Ruâ€“M (MÂ=ÂCo, Fe, Ni) Diatomic Electrocatalysts to Climb up the Volcano Plot of Oxygen Electroreduction. ACS Nano, 2022, 16, 10657-10666. | 7.3 | 31 |
| 43 | Surface Engineering of MoS<sub>2</sub> via Laserâ€Induced Exfoliation in Protic Solvents. Small, 2019, 15, e1903791. | 5.2 | 28 |
| 44 | Copper phosphosulfides as a highly active and stable photocatalyst for hydrogen evolution reaction. Applied Catalysis B: Environmental, 2020, 273, 118927. | 10.8 | 28 |
| 45 | Metallated terpolymer donors with strongly absorbing iridium complex enables polymer solar cells with 16.71% efficiency. Chemical Engineering Journal, 2022, 430, 132832. | 6.6 | 27 |
| 46 | Ferrocenylalkylthiolate labeling of defects in alkylthiol self-assembled monolayers on gold. Physical Chemistry Chemical Physics, 2007, 9, 1013-1020. | 1.3 | 26 |
| 47 | Electrocatalytic Reduction of Carbon Dioxide. CheM, 2017, 3, 717-718. | 5.8 | 25 |
| 48 | Cu<sup>2+</sup>â€doped Carbon Nitride/MWCNT as an Electrochemical Glucose Sensor. Electroanalysis, 2018, 30, 1446-1454. | 1.5 | 25 |
| 49 | Insights into the transition metal ion-mediated electrooxidation of glucose in alkaline electrolyte. Electrochimica Acta, 2019, 308, 9-19. | 2.6 | 25 |
| 50 | Blue ordered/disordered Janus-type TiO<sub>2</sub> nanoparticles for enhanced photocatalytic hydrogen generation. Journal of Materials Chemistry A, 2020, 8, 22828-22839. | 5.2 | 24 |
| 51 | TiO2 film supported by vertically aligned gold nanorod superlattice array for enhanced photocatalytic hydrogen evolution. Chemical Engineering Journal, 2021, 417, 127900. | 6.6 | 23 |
| 52 | Impacts of boron doping on the atomic structure, stability, and photocatalytic activity of Cu3P nanocrystals. Applied Catalysis B: Environmental, 2021, 298, 120515. | 10.8 | 22 |
| 53 | Î³-Fe2O3 nanoparticles anchored in MWCNT hybrids as efficient sulfur hosts for high-performance lithiumâ€sulfur battery cathode. Journal of Electroanalytical Chemistry, 2020, 858, 113806. | 1.9 | 21 |
| 54 | Cu<sup>II</sup>â€Mediated Ultraâ€efficient Electrooxidation of Glucose. ChemElectroChem, 2017, 4, 2788-2792. | 1.7 | 20 |

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|---|---|---|---|
| 55 | Dominant Factors Governing the Electron Transfer Kinetics and Electrochemical Biosensing Properties of Carbon Nanofiber Arrays. ACS Applied Materials & Interfaces, 2016, 8, 28872-28879. | 4.0 | 19 |
| 56 | Psesudocubic Phase Tungsten Oxide as a Photocatalyst for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 8792-8800. | 2.5 | 19 |
| 57 | Laserâ€Ablated Red Phosphorus on Carbon Nanotube Film for Accelerating Polysulfide Conversion toward Highâ€Performance and Flexible Lithiumâ€“Sulfur Batteries. Small Methods, 2021, 5, e2100215. | 4.6 | 19 |
| 58 | Surface modulated Fe doping of <scp>Î²â€²Ni</scp>(<scp>OH</scp>)<sub>2</sub> nanosheets for highly promoted oxygen evolution electrocatalysis. EcoMat, 2022, 4, . | 6.8 | 19 |
| 59 | Ruthenium Terpyridine Complexes Containing a Pyrrole-Tagged 2,2â€²-Dipyridylamine Ligandâ€”Synthesis, Crystal Structure, and Electrochemistry. Inorganic Chemistry, 2012, 51, 6468-6475. | 1.9 | 18 |
| 60 | Zeolitic imidazolate frameworks derived novel polyhedral shaped hollow Co-B-O@Co3O4 electrocatalyst for oxygen evolution reaction. Electrochimica Acta, 2019, 299, 213-221. | 2.6 | 18 |
| 61 | Carbon-mediated electron transfer channel between SnO2 QDs and g-C3N4 for enhanced photocatalytic H2 production. Chemical Engineering Journal, 2021, 425, 131512. | 6.6 | 18 |
| 62 | CoFe Prussian blue analogues on 3D porous N-doped carbon nanosheets boost the intercalation kinetics for a high-performance quasi-solid-state hybrid capacitor. Journal of Materials Chemistry A, 2022, 10, 14501-14512. | 5.2 | 18 |
| 63 | Highly efficient stepwise electrochemical degradation of antibiotics in water by in situ formed Cu(OH)2 nanowires. Applied Catalysis B: Environmental, 2019, 256, 117824. | 10.8 | 15 |
| 64 | Tuning the electronic structure and inverse degree of inverse spinel ferrites by integrating samarium orthoferrite for efficient water oxidation. Applied Catalysis B: Environmental, 2022, 315, 121504. | 10.8 | 15 |
| 65 | Manganese Acetate in Pyrrolidinium Ionic Liquid as a Robust and Efficient Catalytic System for Epoxidation of Aliphatic Terminal Alkenes. Chemistry - an Asian Journal, 2010, 5, 1970-1973. | 1.7 | 14 |
| 66 | Copper-Doped ZnS with Internal Phase Junctions for Highly Selective CO Production from CO<sub>2</sub> Photoreduction. ACS Applied Energy Materials, 2021, 4, 2586-2592. | 2.5 | 13 |
| 67 | Bismuth and metal-doped bismuth nanoparticles produced by laser ablation for electrochemical glucose sensing. Sensors and Actuators B: Chemical, 2022, 357, 131334. | 4.0 | 11 |
| 68 | Controlling the selectivity of the manganese/bicarbonate/hydrogen peroxide catalytic system by a biphasic pyrrolidinium ionic liquid/n-heptane medium. Applied Catalysis A: General, 2013, 453, 244-249. | 2.2 | 10 |
| 69 | Facilitated Water Adsorption and Dissociation on Ni/Ni 3 S 2 Nanoparticles Embedded in Porous Sâ€doped Carbon Nanosheet Arrays for Enhanced Hydrogen Evolution. Advanced Materials Interfaces, 2021, 8, 2001665. | 1.9 | 10 |
| 70 | Comparison of an Intercalating Dye and an Intercalantâ€"Enzyme Conjugate for DNA Detection in a Microtiter-Based Assay. Analytical Chemistry, 1996, 68, 1197-1200. | 3.2 | 9 |
| 71 | Observing Electrocatalytic Processes via In Situ Electrochemical Scanning Tunneling Microscopy: Latest Advances. Chemistry - an Asian Journal, 2022, 17, . | 1.7 | 9 |
| 72 | Fewâ€Layer Tellurium: Cathodic Exfoliation and Doping for Collaborative Hydrogen Evolution. Small, 2021, 17, e2007768. | 5.2 | 8 |

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|---|---|---|---|
| 73 | Stabilizer-free bismuth nanoparticles for selective polyol electrooxidation. IScience, 2021, 24, 102342. | 1.9 | 8 |
| 74 | Tuning the Morphology and Chiroptical Properties of Discrete Gold Nanorods with Amino Acids. Angewandte Chemie, 2018, 130, 16690-16695. | 1.6 | 7 |
| 75 | Solution-processed metal doping of sub-3 nm SnO<sub>2</sub> quantum wires for enhanced H<sub>2</sub>S sensing at low temperature. Journal of Materials Chemistry A, 2022, 10, 15657-15664. | 5.2 | 7 |
| 76 | â€˜Light upâ€™ proteinâ€“protein interaction through bioorthogonal incorporation of a turn-on fluorescent probe into Î²-lactamase. Molecular BioSystems, 2016, 12, 3544-3549. | 2.9 | 6 |
| 77 | Creating Multiple Parallel Internal Phase Junctions on ZnS Nanoparticles as Highly Active Catalytic Sites. Advanced Materials Interfaces, 2018, 5, 1800611. | 1.9 | 5 |
| 78 | Hierarchical mesoporous MoS2 frameworks with conformal carbon coating as a high-rate and stable anode in Li-ion battery. Journal of Electroanalytical Chemistry, 2022, 905, 115965. | 1.9 | 5 |
| 79 | Electronic modulation of cobalt phosphide by lanthanum doping for efficient overall water splitting in alkaline media. CrystEngComm, 2022, 24, 7283-7291. | 1.3 | 4 |
| 80 | Recent Development in Water Oxidation Catalysts Based on Manganese and Cobalt Complexes. Green Chemistry and Sustainable Technology, 2015, , 365-394. | 0.4 | 2 |
| 81 | Water-Splitting: Overall Water-Splitting Electrocatalysts Based on 2D CoNi-Metal-Organic Frameworks and Its Derivative (Adv. Mater. Interfaces 21/2018). Advanced Materials Interfaces, 2018, 5, 1870106. | 1.9 | 1 |
| 82 | Highly Efficient Electrocatalytic Water Splitting. , 2021, , 1335-1367. | | 1 |
| 83 | Sodiumâ€Coordinated Polymeric Phthalocyanines as Stable Highâ€Capacity Organic Anodes for Sodiumâ€Ion Batteries. Energy and Environmental Materials, 2023, 6, . | 7.3 | 1 |
| 84 | Front Cover: Observing Electrocatalytic Processes via In Situ Electrochemical Scanning Tunneling Microscopy: Latest Advances (Chem. Asian J. 15/2022). Chemistry - an Asian Journal, 2022, 17, . | 1.7 | 1 |
| 85 | Unexpected Promotional Effects of Alkylâ€Tailed Ligands and Anions on the Electrochemical Generation of Ruthenium(IV)â€Oxo Complexes. ChemElectroChem, 2021, 8, 2221-2230. | 1.7 | 0 |
| 86 | Ni- and Co-Based Heterogeneous Nanosheet Array As Efficient Electrocatalysts for Oxygen Evolution Reaction from Water. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 87 | Highly Enhanced Pseudocapacitive Performance of Vanadium-Doped Mxenes in Neutral Electrolytes. ECS Meeting Abstracts, 2020, MA2020-01, 47-47. | 0.0 | 0 |
| 88 | Nanostructured Semiconductors for Photocatalytic CO2 Reduction. , 2020, , 1-36. | | 0 |
| 89 | Highly Efficient Electrocatalytic Water Splitting. , 2020, , 1-33. | | 0 |
| 90 | (Invited) Laser-Assisted Exfoliation of Black Phosphorus with Thickness Control for Li-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 349-349. | 0.0 | 0 |