

# Lawrence Yoon Suk Lee

## List of Publications by Citations

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79  
papers

3,192  
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29  
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95  
ext. papers

4,619  
ext. citations

11.6  
avg, IF

6.32  
L-index

#	Paper	IF	Citations
79	Recent Advances in Electrocatalytic Hydrogen Evolution Using Nanoparticles. <i>Chemical Reviews</i> , <b>2020</b> , 120, 851-918	68.1	722
78	Recent advance in MXenes: A promising 2D material for catalysis, sensor and chemical adsorption. <i>Coordination Chemistry Reviews</i> , <b>2017</b> , 352, 306-327	23.2	315
77	Significant enhancement in photocatalytic reduction of water to hydrogen by Au/Cu <sub>2</sub> ZnSnS <sub>4</sub> nanostructure. <i>Advanced Materials</i> , <b>2014</b> , 26, 3496-500	24	150
76	Ferrocenylalkylthiolates as a probe of heterogeneity in binary self-assembled monolayers on gold. <i>Langmuir</i> , <b>2006</b> , 22, 4438-44	4	126
75	<sup>1</sup> H fast MAS NMR studies of hydrogen-bonding interactions in self-assembled monolayers. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 4174-84	16.4	114
74	Electrochemical Instability of Metal-Organic Frameworks: In Situ Spectroelectrochemical Investigation of the Real Active Sites. <i>ACS Catalysis</i> , <b>2020</b> , 10, 81-92	13.1	113
73	Vanadium carbide nanoparticles encapsulated in graphitic carbon network nanosheets: A high-efficiency electrocatalyst for hydrogen evolution reaction. <i>Nano Energy</i> , <b>2016</b> , 26, 603-609	17.1	92
72	Ni/Co-based nanosheet arrays for efficient oxygen evolution reaction. <i>Nano Energy</i> , <b>2018</b> , 52, 360-368	17.1	88
71	Transition metal-doped nickel phosphide nanoparticles as electro- and photocatalysts for hydrogen generation reactions. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 242, 186-193	21.8	84
70	Two-dimensional metal-organic framework and covalent-organic framework: synthesis and their energy-related applications. <i>Materials Today Chemistry</i> , <b>2019</b> , 12, 34-60	6.2	69
69	Copper nanoparticles/polyaniline/graphene composite as a highly sensitive electrochemical glucose sensor. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 781, 155-160	4.1	66
68	2H/1T Phase Transition of Multilayer MoS <sub>2</sub> by Electrochemical Incorporation of S Vacancies. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 4754-4765	6.1	65
67	Interface engineered NiFe <sub>2</sub> O <sub>4</sub> /NiMoO <sub>4</sub> nanowire arrays for electrochemical oxygen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 286, 119857	21.8	53
66	Tailored transition metal-doped nickel phosphide nanoparticles for the electrochemical oxygen evolution reaction (OER). <i>Chemical Communications</i> , <b>2018</b> , 54, 8630-8633	5.8	52
65	Direct anodic exfoliation of graphite onto high-density aligned graphene for large capacity supercapacitors. <i>Nano Energy</i> , <b>2017</b> , 34, 515-523	17.1	49
64	Morphology-Controlled Synthesis of Au/Cu <sub>2</sub> BeSnS <sub>4</sub> Core-Shell Nanostructures for Plasmon-Enhanced Photocatalytic Hydrogen Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 9072-7	9.5	47
63	Electrochemical desorption of n-alkylthiol SAMs on polycrystalline gold: studies using a ferrocenylalkylthiol probe. <i>Langmuir</i> , <b>2007</b> , 23, 292-6	4	46

62	Overall Water-Splitting Electrocatalysts Based on 2D CoNi-Metal-Organic Frameworks and Its Derivative. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800849	4.6	43
61	Best Practices in Using Foam-Type Electrodes for Electrocatalytic Performance Benchmark. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3260-3264	20.1	42
60	CuZnSnS/MoS-Reduced Graphene Oxide Heterostructure: Nanoscale Interfacial Contact and Enhanced Photocatalytic Hydrogen Generation. <i>Scientific Reports</i> , <b>2017</b> , 7, 39411	4.9	40
59	Tuning the Morphology and Chiroptical Properties of Discrete Gold Nanorods with Amino Acids. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 16452-16457	16.4	39
58	Sulfuric Acid-Catalyzed Conversion of Alkynes to Ketones in an Ionic Liquid Medium under Mild Reaction Conditions. <i>ACS Catalysis</i> , <b>2011</b> , 1, 116-119	13.1	38
57	Photocatalytic CO Reduction Enabled by Interfacial S-Scheme Heterojunction between Ultrasmall Copper Phosphosulfide and g-CN. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 9762-9770	9.5	38
56	Disordered layers on WO <sub>3</sub> nanoparticles enable photochemical generation of hydrogen from water. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 221-227	13	37
55	Co/Co <sub>3</sub> O <sub>4</sub> -embedded N-doped hollow carbon composite derived from a bimetallic MOF/ZnO Core-shell template as a sulfur host for Li-S batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 126967	14.7	36
54	Metal-Organic Frameworks for Electrocatalysis: Catalyst or Precatalyst?. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 2838-2843	20.1	31
53	A Dopamine Electrochemical Sensor Based on Molecularly Imprinted Poly(acrylamidophenylboronic acid) Film. <i>Electroanalysis</i> , <b>2013</b> , 25, 1085-1094	3	30
52	Electrocatalytic reduction of carbon dioxide by a polymeric film of rhenium tricarbonyl dipyridylamine. <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 2842-2845	2.3	30
51	Interfacing or Doping? Role of Ce in Highly Promoted Water Oxidation of NiFe-Layered Double Hydroxide. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101281	21.8	30
50	A green catalysis of CO <sub>2</sub> fixation to aliphatic cyclic carbonates by a new ionic liquid system. <i>Applied Catalysis A: General</i> , <b>2014</b> , 472, 160-166	5.1	28
49	Designing charge transfer route at the interface between WP nanoparticle and g-C <sub>3</sub> N <sub>4</sub> for highly enhanced photocatalytic CO <sub>2</sub> reduction reaction. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 286, 119879	21.8	27
48	Use of carbon supports with copper ion as a highly sensitive non-enzymatic glucose sensor. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 282, 187-196	8.5	25
47	Synergies of Fe Single Atoms and Clusters on N-Doped Carbon Electrocatalyst for pH-Universal Oxygen Reduction.. <i>Small Methods</i> , <b>2021</b> , 5, e2001165	12.8	24
46	Highly Enhanced Pseudocapacitive Performance of Vanadium-Doped MXenes in Neutral Electrolytes. <i>Small</i> , <b>2019</b> , 15, e1902649	11	23
45	Laser-Assisted Ultrafast Exfoliation of Black Phosphorus in Liquid with Tunable Thickness for Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1903490	21.8	22

44	Ferrocenylalkylthiolate labeling of defects in alkylthiol self-assembled monolayers on gold. <i>Physical Chemistry Chemical Physics</i> , <b>2007</b> , 9, 1013-20	3.6	22
43	Ni nanoparticles on active (001) facet-exposed rutile TiO <sub>2</sub> nanopyramid arrays for efficient hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 282, 119548	21.8	21
42	Highly promoted hydrogen production enabled by interfacial P N chemical bonds in copper phosphosulfide Z-scheme composite. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 283, 119624	21.8	20
41	Copper phosphosulfides as a highly active and stable photocatalyst for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 273, 118927	21.8	19
40	Cu <sup>2+</sup> -doped Carbon Nitride/MWCNT as an Electrochemical Glucose Sensor. <i>Electroanalysis</i> , <b>2018</b> , 30, 1446-1454	3	18
39	Surface Engineering of MoS via Laser-Induced Exfoliation in Protic Solvents. <i>Small</i> , <b>2019</b> , 15, e1903791	11	17
38	Electrocatalytic Reduction of Carbon Dioxide. <i>Chem</i> , <b>2017</b> , 3, 717-718	16.2	17
37	Ruthenium terpyridine complexes containing a pyrrole-tagged 2,2'-bipyridylamine ligand-synthesis, crystal structure, and electrochemistry. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 6468-75	5.1	16
36	Insights into the transition metal ion-mediated electrooxidation of glucose in alkaline electrolyte. <i>Electrochimica Acta</i> , <b>2019</b> , 308, 9-19	6.7	14
35	Cu <sup>I</sup> -Mediated Ultra-efficient Electrooxidation of Glucose. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2788-2792	4.3	14
34	Dominant Factors Governing the Electron Transfer Kinetics and Electrochemical Biosensing Properties of Carbon Nanofiber Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 28872-28879	9.5	14
33	Zeolitic imidazolate frameworks derived novel polyhedral shaped hollow Co-B-O@Co <sub>3</sub> O <sub>4</sub> electrocatalyst for oxygen evolution reaction. <i>Electrochimica Acta</i> , <b>2019</b> , 299, 213-221	6.7	14
32	Manganese acetate in pyrrolidinium ionic liquid as a robust and efficient catalytic system for epoxidation of aliphatic terminal alkenes. <i>Chemistry - an Asian Journal</i> , <b>2010</b> , 5, 1970-3	4.5	12
31	Controlling the selectivity of the manganese/bicarbonate/hydrogen peroxide catalytic system by a biphasic pyrrolidinium ionic liquid/n-heptane medium. <i>Applied Catalysis A: General</i> , <b>2013</b> , 453, 244-249	5.1	10
30	Fe <sub>2</sub> O <sub>3</sub> nanoparticles anchored in MWCNT hybrids as efficient sulfur hosts for high-performance lithium-sulfur battery cathode. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 858, 113806	4.1	10
29	Blue ordered/disordered Janus-type TiO <sub>2</sub> nanoparticles for enhanced photocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 22828-22839	13	10
28	Tuning the Electrochemical Properties of Polymeric Cobalt Phthalocyanines for Efficient Water Splitting. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103290	15.6	10
27	Interface Engineering of a 2D-CN/NiFe-LDH Heterostructure for Highly Efficient Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 24723-24733	9.5	9

26	Laser-Ablated Red Phosphorus on Carbon Nanotube Film for Accelerating Polysulfide Conversion toward High-Performance and Flexible Lithium-Sulfur Batteries.. <i>Small Methods</i> , <b>2021</b> , 5, e2100215	12.8	9
25	Pseudocubic Phase Tungsten Oxide as a Photocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8792-8800	6.1	8
24	TiO <sub>2</sub> film supported by vertically aligned gold nanorod superlattice array for enhanced photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , <b>2021</b> , 417, 127900	14.7	8
23	Comparison of an intercalating dye and an intercalant-enzyme conjugate for DNA detection in a microtiter-based assay. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 1197-200	7.8	6
22	Facilitated Water Adsorption and Dissociation on Ni/Ni <sub>3</sub> S <sub>2</sub> Nanoparticles Embedded in Porous S-doped Carbon Nanosheet Arrays for Enhanced Hydrogen Evolution. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2001665	4.6	6
21	Highly efficient stepwise electrochemical degradation of antibiotics in water by in situ formed Cu(OH) <sub>2</sub> nanowires. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 256, 117824	21.8	5
20	Creating Multiple Parallel Internal Phase Junctions on ZnS Nanoparticles as Highly Active Catalytic Sites. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800611	4.6	5
19	Metallated terpolymer donors with strongly absorbing iridium complex enables polymer solar cells with 16.71% efficiency. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132832	14.7	5
18	Right up protein-protein interaction through bioorthogonal incorporation of a turn-on fluorescent probe into lactamase. <i>Molecular BioSystems</i> , <b>2016</b> , 12, 3544-3549		4
17	Carbon-mediated electron transfer channel between SnO <sub>2</sub> QDs and g-C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic H <sub>2</sub> production. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131512	14.7	4
16	Improving the performance stability of direct seawater electrolysis: from catalyst design to electrode engineering. <i>Nanoscale</i> , <b>2021</b> , 13, 15177-15187	7.7	4
15	Beyond sonication: Advanced exfoliation methods for scalable production of 2D materials. <i>Matter</i> , <b>2022</b> , 5, 515-545	12.7	3
14	Bismuth and metal-doped bismuth nanoparticles produced by laser ablation for electrochemical glucose sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2022</b> , 357, 131334	8.5	3
13	Few-Layer Tellurium: Cathodic Exfoliation and Doping for Collaborative Hydrogen Evolution. <i>Small</i> , <b>2021</b> , 17, e2007768	11	3
12	Impacts of boron doping on the atomic structure, stability, and photocatalytic activity of Cu <sub>3</sub> P nanocrystals. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120515	21.8	3
11	Tuning the Morphology and Chiroptical Properties of Discrete Gold Nanorods with Amino Acids. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 16690-16695	3.6	2
10	Tuning the Electronic Structure and Inverse Degree of Inverse Spinel Ferrites by Integrating Samarium Orthoferrite for Efficient Water Oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 121504	21.8	2
9	Copper-Doped ZnS with Internal Phase Junctions for Highly Selective CO Production from CO <sub>2</sub> Photoreduction. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2586-2592	6.1	1

- 8 Stabilizer-free bismuth nanoparticles for selective polyol electrooxidation. *IScience*, **2021**, 24, 102342 6.1 1
- 7 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 4.6 1
- 6 Hierarchical mesoporous MoS<sub>2</sub> frameworks with conformal carbon coating as a high-rate and stable anode in Li-ion battery. *Journal of Electroanalytical Chemistry*, **2022**, 905, 115965 4.1 0
- 5 Recent Development in Water Oxidation Catalysts Based on Manganese and Cobalt Complexes. *Green Chemistry and Sustainable Technology*, **2015**, 365-394 1.1
- 4 Nanostructured Semiconductors for Photocatalytic CO<sub>2</sub> Reduction **2020**, 1-36
- 3 Highly Efficient Electrocatalytic Water Splitting **2020**, 1-33
- 2 Unexpected Promotional Effects of Alkyl-Tailed Ligands and Anions on the Electrochemical Generation of Ruthenium(IV)-Oxo Complexes. *ChemElectroChem*, **2021**, 8, 2221-2230 4.3
- 1 Highly Efficient Electrocatalytic Water Splitting **2021**, 1335-1367