

# Liang-Yih Chen

## List of Publications by Citations

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53

papers

2,336

citations

21

h-index

48

g-index

56

ext. papers

2,594

ext. citations

5.1

avg, IF

4.88

L-index

#	Paper	IF	Citations
53	Organometal halide perovskite solar cells: degradation and stability. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 323-356	35.4	1188
52	Hydrogen-doped high conductivity ZnO films deposited by radio-frequency magnetron sputtering. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 5628-5630	3.4	148
51	Visible electroluminescence from silicon nanocrystals embedded in amorphous silicon nitride matrix. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 193506	3.4	80
50	Hot-injection synthesis of monodispersed Cu <sub>2</sub> ZnSn(S <sub>x</sub> Se <sub>1-x</sub> ) <sub>4</sub> nanocrystals: tunable composition and optical properties. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14667		76
49	Influence of Polyethyleneimine and Ammonium on the Growth of ZnO Nanowires by Hydrothermal Method. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20913-20919	3.8	63
48	Diamond-like carbon nanocomposite films. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 3526-3528	3.4	62
47	Surface tension studies of (Si, N)-containing diamond-like carbon films deposited by hexamethyldisilazane. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 968-973	3.5	46
46	Facile Synthesis of [101]-Oriented Rutile TiO <sub>2</sub> Nanorod Array on FTO Substrate with a Tunable Anatase/Rutile Heterojunction for Efficient Solar Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 5963-5971	8.3	43
45	Controlled synthesis of CdSe quantum dots by a microwave-enhanced process: a green approach for mass production. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 5737-44	4.8	38
44	Hierarchically assembled ZnO nanoparticles on high diffusion coefficient ZnO nanowire arrays for high efficiency dye-sensitized solar cells. <i>Nanoscale</i> , <b>2013</b> , 5, 1777-80	7.7	34
43	Effect of the Compact TiO <sub>2</sub> Layer on Charge Transfer between N3 Dyes and TiO <sub>2</sub> Investigated by Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3185-3189	3.8	34
42	Facile Continuous Flow Injection Process for High Quality Long ZnO Nanowire Arrays Synthesis. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 1055-1059	3.5	32
41	Effects of SiO <sub>x</sub> -incorporation hydrocarbons on the tribological properties of DLC films. <i>Diamond and Related Materials</i> , <b>2001</b> , 10, 1058-1062	3.5	31
40	Surface Related Emission in CdS Quantum Dots. DFT Simulation Studies. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 20856-20863	3.8	30
39	Control of Seed Detachment in Au-Assisted GaN Nanowire Growths. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 990-994	3.5	30
38	Cascade quantum dots sensitized TiO <sub>2</sub> nanorod arrays for solar cell applications. <i>Nanoscale</i> , <b>2011</b> , 3, 4940	7.7	29
37	Innovative fabrication of a Au nanoparticle-decorated SiO <sub>2</sub> mask and its activity on surface-enhanced Raman scattering. <i>Analyst, The</i> , <b>2014</b> , 139, 1929-37	5	27

36	Effect of sodium acetate additive in successive ionic layer adsorption and reaction on the performance of CdS quantum-dot-sensitized solar cells. <i>Journal of Power Sources</i> , <b>2016</b> , 325, 706-713	8.9	24
35	Outperformed electrochromic behavior of poly(ethylene glycol)-template nanostructured tungsten oxide films with enhanced charge transfer/transport characteristics. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 9751-8	3.6	23
34	Catalyst-Free Growth of Vertical Alignment ZnO Nanowire Arrays by a Two-Stage Process. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 21572-21576	3.8	21
33	The study of carrier transfer mechanism for nanostructural hematite photoanode for solar water splitting. <i>Applied Energy</i> , <b>2016</b> , 164, 924-933	10.7	21
32	Efficient electron transport in ZnO nanowire/nanoparticle dye-sensitized solar cells via continuous flow injection process. <i>RSC Advances</i> , <b>2013</b> , 3, 8480	3.7	20
31	The study of wet etching on GaN surface by potassium hydroxide solution. <i>Research on Chemical Intermediates</i> , <b>2017</b> , 43, 3563-3572	2.8	19
30	Quantitative evaluation on activated property-tunable bulk liquid water with reduced hydrogen bonds using deconvoluted Raman spectroscopy. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 808-15	7.8	18
29	Efficient surface enhanced Raman scattering on confeito-like gold nanoparticle-adsorbed self-assembled monolayers. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 32328-34	3.6	16
28	Fabrication of gallium nitride nanowires by nitrogen plasma. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 1780-1784	3.5	16
27	Synthesis CdSe(x)S(1-x) core/shell type quantum dots via one injection method. <i>Chemical Communications</i> , <b>2011</b> , 47, 1592-4	5.8	13
26	ZnO/Al <sub>2</sub> O <sub>3</sub> core/shell nanorods array as excellent anti-reflection layers on silicon solar cells. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 180, 195-202	4.4	12
25	The influence of length of one-dimensional photoanode on the performance of dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 24591		12
24	Adsorption and binding of capping molecules for highly luminescent CdSe nanocrystals--DFT simulation studies. <i>Nanoscale</i> , <b>2010</b> , 2, 2679-84	7.7	12
23	Properties of diamond-like carbon films deposited by ion plating with a pulsed substrate bias. <i>Diamond and Related Materials</i> , <b>1998</b> , 7, 884-891	3.5	11
22	Triggering comprehensive enhancement in oxygen evolution reaction by using newly created solvent. <i>Scientific Reports</i> , <b>2016</b> , 6, 28456	4.9	10
21	Identification of the physical origin behind disorder, heterogeneity, and reconstruction and their correlation with the photoluminescence lifetime in hybrid perovskite thin films. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21002-21015	13	9
20	Fabrication of ZnO Nanorods in One Pot via Solvothermal Method. <i>Journal of the Chinese Chemical Society</i> , <b>2011</b> , 58, 749-755	1.5	9
19	Enhancing the insulation of wide-range spectrum in the PVA/N thin film by doping ZnO nanowires. <i>RSC Advances</i> , <b>2014</b> , 4, 45419-45424	3.7	8

18	Internal structure of tunable ternary CdSexS1-x quantum dots unraveled by x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 163113	3.4	8
17	Properties of carbon nitride (CN) films deposited by a high-density plasma ion plating method. <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 1172-1177	3.5	8
16	Effect of Morphology Control on Hematite Nanostructures for Solar Water Splitting. <i>Energy Procedia</i> , <b>2014</b> , 61, 2046-2049	2.3	7
15	High chemical resistance and Raman enhancement in Ag/Al2O3 core-shell plasmonic nanostructures tailored by atomic layer deposition. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 223, 441-446	4.4	6
14	The Study of Cu2ZnSnS4 Nanocrystal/TiO2 Nanorod Heterojunction Photoelectrochemical Cell for Hydrogen Generation. <i>Energy Procedia</i> , <b>2014</b> , 61, 2050-2053	2.3	5
13	Promising Surface Modification Strategies for High Power Conversion Efficiency Dye Sensitized Solar Cell Based on ZnO Composite Photoanode. <i>Energy Procedia</i> , <b>2014</b> , 61, 2042-2045	2.3	5
12	PolyMethyl Methacrylate Thin-Film-Based Field Emission Microscope. <i>IEEE Nanotechnology Magazine</i> , <b>2012</b> , 11, 441-443	2.6	5
11	Influence of gas flow rates on the formation of III-nitride nanowires. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2010</b> , 7, 40-43		5
10	Preparation of SrTiO3/Bi2S3 Heterojunction for Efficient Photocatalytic Hydrogen Production. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 14995-15004	4.1	5
9	Preparation of polymers with submicron topography with different functionalities for the evaluation of biocompatibility. <i>Biochemical Engineering Journal</i> , <b>2013</b> , 78, 170-174	4.2	3
8	The Growth Mechanism of Vertically Aligned ZnO Nanowire Arrays on Non-epitaxial Si(100) Substrates. <i>Journal of the Chinese Chemical Society</i> , <b>2011</b> , 58, 817-821	1.5	3
7	Surface-enhanced Raman scattering on a silver film-modified Au nanoparticle-decorated SiO2 mask array. <i>RSC Advances</i> , <b>2015</b> , 5, 66096-66103	3.7	2
6	Dual Functional Polymer Interlayer for Facilitating Ion Transport and Reducing Charge Recombination in Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 33666-33672	9.5	2
5	Yarn ball-like tungsten oxide microspheres synthesized via solvothermal process. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 148, 1089-1094	4.4	2
4	Enhanced Efficiency of Dye-Sensitized Solar Cells Based on Polymer-Assisted Dispersion of Platinum Nanoparticles/Carbon Nanotubes Nanohybrid Films as FTO-Free Counter Electrodes. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
3	Synthesis of aligned zinc oxide nanorods for humidity sensing <b>2008</b> ,		1
2	Improving the Lifetime of CsPbBr Perovskite in Water Using Self-Healing and Transparent Elastic Polymer Matrix. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 766	5	1
1	Photoinduced electron transfer dynamics in dye-sensitized ZnO nanowire photoanodes. <i>International Journal of Modern Physics B</i> , <b>2018</b> , 32, 1840049	1.1	

