

Liang-Yih Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Preparation of SrTiO ₃ /Bi ₂ S ₃ Heterojunction for Efficient Photocatalytic Hydrogen Production. <i>Energy & Fuels</i> , 2021 , 35, 14995-15004	4.1	5
52	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> , 2021 , 13,	4.5	2
51	Improving the Lifetime of CsPbBr Perovskite in Water Using Self-Healing and Transparent Elastic Polymer Matrix. <i>Frontiers in Chemistry</i> , 2020 , 8, 766	5	1
50	High chemical resistance and Raman enhancement in Ag/Al ₂ O ₃ core-shell plasmonic nanostructures tailored by atomic layer deposition. <i>Materials Chemistry and Physics</i> , 2019 , 223, 441-446	4.4	6
49	Photoinduced electron transfer dynamics in dye-sensitized ZnO nanowire photoanodes. <i>International Journal of Modern Physics B</i> , 2018 , 32, 1840049	1.1	
48	The study of wet etching on GaN surface by potassium hydroxide solution. <i>Research on Chemical Intermediates</i> , 2017 , 43, 3563-3572	2.8	19
47	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> , 2017 , 5, 21002-21015	13	9
46	Organometal halide perovskite solar cells: degradation and stability. <i>Energy and Environmental Science</i> , 2016 , 9, 323-356	35.4	1188
45	Dual Functional Polymer Interlayer for Facilitating Ion Transport and Reducing Charge Recombination in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 33666-33672	9.5	2
44	Facile Synthesis of [101]-Oriented Rutile TiO ₂ Nanorod Array on FTO Substrate with a Tunable Anatase/Rutile Heterojunction for Efficient Solar Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5963-5971	8.3	43
43	ZnO/Al ₂ O ₃ core/shell nanorods array as excellent anti-reflection layers on silicon solar cells. <i>Materials Chemistry and Physics</i> , 2016 , 180, 195-202	4.4	12
42	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> , 2016 , 325, 706-713	8.9	24
41	Triggering comprehensive enhancement in oxygen evolution reaction by using newly created solvent. <i>Scientific Reports</i> , 2016 , 6, 28456	4.9	10
40	The study of carrier transfer mechanism for nanostructural hematite photoanode for solar water splitting. <i>Applied Energy</i> , 2016 , 164, 924-933	10.7	21
39	Surface-enhanced Raman scattering on a silver film-modified Au nanoparticle-decorated SiO ₂ mask array. <i>RSC Advances</i> , 2015 , 5, 66096-66103	3.7	2
38	Efficient surface enhanced Raman scattering on confiteito-like gold nanoparticle-adsorbed self-assembled monolayers. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 32328-34	3.6	16
37	Quantitative evaluation on activated property-tunable bulk liquid water with reduced hydrogen bonds using deconvoluted Raman spectroscopy. <i>Analytical Chemistry</i> , 2015 , 87, 808-15	7.8	18

36	Innovative fabrication of a Au nanoparticle-decorated SiO ₂ mask and its activity on surface-enhanced Raman scattering. <i>Analyst, The</i> , 2014 , 139, 1929-37	5	27
35	Enhancing the insulation of wide-range spectrum in the PVA/N thin film by doping ZnO nanowires. <i>RSC Advances</i> , 2014 , 4, 45419-45424	3.7	8
34	Yarn ball-like tungsten oxide microspheres synthesized via solvothermal process. <i>Materials Chemistry and Physics</i> , 2014 , 148, 1089-1094	4.4	2
33	The Study of Cu ₂ ZnSnS ₄ Nanocrystal/TiO ₂ Nanorod Heterojunction Photoelectrochemical Cell for Hydrogen Generation. <i>Energy Procedia</i> , 2014 , 61, 2050-2053	2.3	5
32	Promising Surface Modification Strategies for High Power Conversion Efficiency Dye Sensitized Solar Cell Based on ZnO Composite Photoanode. <i>Energy Procedia</i> , 2014 , 61, 2042-2045	2.3	5
31	Effect of Morphology Control on Hematite Nanostructures for Solar Water Splitting. <i>Energy Procedia</i> , 2014 , 61, 2046-2049	2.3	7
30	Preparation of polymers with submicron topography with different functionalities for the evaluation of biocompatibility. <i>Biochemical Engineering Journal</i> , 2013 , 78, 170-174	4.2	3
29	Efficient electron transport in ZnO nanowire/nanoparticle dye-sensitized solar cells via continuous flow injection process. <i>RSC Advances</i> , 2013 , 3, 8480	3.7	20
28	Hierarchically assembled ZnO nanoparticles on high diffusion coefficient ZnO nanowire arrays for high efficiency dye-sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 1777-80	7.7	34
27	The influence of length of one-dimensional photoanode on the performance of dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24591		12
26	PolyMethyl Methacrylate Thin-Film-Based Field Emission Microscope. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 441-443	2.6	5
25	Facile Continuous Flow Injection Process for High Quality Long ZnO Nanowire Arrays Synthesis. <i>Crystal Growth and Design</i> , 2012 , 12, 1055-1059	3.5	32
24	Hot-injection synthesis of monodispersed Cu ₂ ZnSn(S _x Se _{1-x}) ₄ nanocrystals: tunable composition and optical properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14667		76
23	Internal structure of tunable ternary CdS _x Se _{1-x} quantum dots unraveled by x-ray absorption spectroscopy. <i>Applied Physics Letters</i> , 2012 , 100, 163113	3.4	8
22	Surface Related Emission in CdS Quantum Dots. DFT Simulation Studies. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20856-20863	3.8	30
21	Influence of Polyethyleneimine and Ammonium on the Growth of ZnO Nanowires by Hydrothermal Method. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20913-20919	3.8	63
20	Fabrication of ZnO Nanorods in One Pot via Solvothermal Method. <i>Journal of the Chinese Chemical Society</i> , 2011 , 58, 749-755	1.5	9
19	The Growth Mechanism of Vertically Aligned ZnO Nanowire Arrays on Non-epitaxial Si(100) Substrates. <i>Journal of the Chinese Chemical Society</i> , 2011 , 58, 817-821	1.5	3

18	Controlled synthesis of CdSe quantum dots by a microwave-enhanced process: a green approach for mass production. <i>Chemistry - A European Journal</i> , 2011 , 17, 5737-44	4.8	38
17	Synthesis CdSe(x)S(1-x) core/shell type quantum dots via one injection method. <i>Chemical Communications</i> , 2011 , 47, 1592-4	5.8	13
16	Cascade quantum dots sensitized TiO ₂ nanorod arrays for solar cell applications. <i>Nanoscale</i> , 2011 , 3, 4940	7.7	29
15	Control of Seed Detachment in Au-Assisted GaN Nanowire Growths. <i>Crystal Growth and Design</i> , 2011 , 11, 990-994	3.5	30
14	Effect of the Compact TiO ₂ Layer on Charge Transfer between N3 Dyes and TiO ₂ Investigated by Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3185-3189	3.8	34
13	Adsorption and binding of capping molecules for highly luminescent CdSe nanocrystals--DFT simulation studies. <i>Nanoscale</i> , 2010 , 2, 2679-84	7.7	12
12	Influence of gas flow rates on the formation of III-nitride nanowires. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 40-43		5
11	Catalyst-Free Growth of Vertical Alignment ZnO Nanowire Arrays by a Two-Stage Process. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21572-21576	3.8	21
10	Outperformed electrochromic behavior of poly(ethylene glycol)-template nanostructured tungsten oxide films with enhanced charge transfer/transport characteristics. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 9751-8	3.6	23
9	Fabrication of gallium nitride nanowires by nitrogen plasma. <i>Diamond and Related Materials</i> , 2008 , 17, 1780-1784	3.5	16
8	Synthesis of aligned zinc oxide nanorods for humidity sensing 2008 ,		1
7	Visible electroluminescence from silicon nanocrystals embedded in amorphous silicon nitride matrix. <i>Applied Physics Letters</i> , 2005 , 86, 193506	3.4	80
6	Hydrogen-doped high conductivity ZnO films deposited by radio-frequency magnetron sputtering. <i>Applied Physics Letters</i> , 2004 , 85, 5628-5630	3.4	148
5	Surface tension studies of (Si, N)-containing diamond-like carbon films deposited by hexamethyldisilazane. <i>Diamond and Related Materials</i> , 2003 , 12, 968-973	3.5	46
4	Diamond-like carbon nanocomposite films. <i>Applied Physics Letters</i> , 2003 , 82, 3526-3528	3.4	62
3	Properties of carbon nitride (CN) films deposited by a high-density plasma ion plating method. <i>Diamond and Related Materials</i> , 2002 , 11, 1172-1177	3.5	8
2	Effects of SiO _x -incorporation hydrocarbons on the tribological properties of DLC films. <i>Diamond and Related Materials</i> , 2001 , 10, 1058-1062	3.5	31
1	Properties of diamond-like carbon films deposited by ion plating with a pulsed substrate bias. <i>Diamond and Related Materials</i> , 1998 , 7, 884-891	3.5	11

