

# Tain-Ching Wen

## List of Publications by Citations

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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.

82

papers

2,815

citations

22

h-index

52

g-index

83

ext. papers

3,008

ext. citations

5.9

avg, IF

4.96

L-index

#	Paper	IF	Citations
82	CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite/fullerene planar-heterojunction hybrid solar cells. <i>Advanced Materials</i> , <b>2013</b> , 25, 3727-32	24	1189
81	NiO Electrode Interlayer and CH <sub>3</sub> NH <sub>2</sub> /CH <sub>3</sub> NH <sub>2</sub> PbBr Interface Treatment to Markedly Advance Hybrid Perovskite-Based Light-Emitting Diodes. <i>Advanced Materials</i> , <b>2016</b> , 28, 8687-8694	24	134
80	An inverted polymer photovoltaic cell with increased air stability obtained by employing novel hole/electron collecting layers. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 1643		126
79	Influence of Molecular Geometry of Perylene Diimide Dimers and Polymers on Bulk Heterojunction Morphology Toward High-Performance Nonfullerene Polymer Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5326-5332	15.6	106
78	Manipulating the Hysteresis in Poly(vinyl alcohol)-Dielectric Organic Field-Effect Transistors Toward Memory Elements. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4206-4214	15.6	98
77	Spectroscopic Investigations of Poly(oxypropylene)glycol-Based Waterborne Polyurethane Doped with Lithium Perchlorate. <i>Macromolecules</i> , <b>1999</b> , 32, 2712-2720	5.5	70
76	Ultra-low fouling and high antibody loading zwitterionic hydrogel coatings for sensing and detection in complex media. <i>Acta Biomaterialia</i> , <b>2016</b> , 40, 31-37	10.8	67
75	Sulfonated poly(diphenylamine) as a novel hole-collecting layer in polymer photovoltaic cells. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 4478		50
74	Zwitterionic surface grafting of epoxytated sulfobetaine copolymers for the development of stealth biomaterial interfaces. <i>Acta Biomaterialia</i> , <b>2016</b> , 40, 78-91	10.8	49
73	High-performance hole-transporting layer-free conventional perovskite/fullerene heterojunction thin-film solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9128-9132	13	48
72	Applying thermosettable zwitterionic copolymers as general fouling-resistant and thermal-tolerant biomaterial interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10096-107	9.5	42
71	Organic-Oxide Cathode Buffer Layer in Fabricating High-Performance Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3036-3042	15.6	42
70	Enhanced performance of polymer solar cells using solution-processed tetra-n-alkyl ammonium bromides as electron extraction layers. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2582	13	34
69	Alkyl Chain-Grafted Poly(L-lysine) Vesicles with Tunable Molecular Assembly and Membrane Permeability.. <i>ACS Macro Letters</i> , <b>2014</b> , 3, 220-223	6.6	33
68	Morphology and ionic conductivity of thermoplastic polyurethane electrolytes. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 91, 1154-1167	2.9	33
67	Simultaneous synthesis of silver nanoparticles and poly(2,5-dimethoxyaniline) in poly(styrene sulfonic acid). <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 3843-3852	2.5	29
66	Core Dominated Surface Activity of Core-Shell Nanocatalysts on Methanol Electrooxidation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 16969-16978	3.8	28

65	The Roles of Poly(Ethylene Oxide) Electrode Buffers in Efficient Polymer Photovoltaics. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 1192-1198	21.8	28
64	Direct <sup>7</sup> Li NMR Spectral Evidence for Different Li <sup>+</sup> Local Environments in a Polyether Poly(urethane urea) Electrolyte. <i>Macromolecules</i> , <b>2000</b> , 33, 6910-6912	5.5	27
63	Self-assembled tetraoctylammonium bromide as an electron-injection layer for cathode-independent high-efficiency polymer light-emitting diodes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 8715		26
62	Improvement of transparent organic thin film transistor performance by inserting a lithium fluoride buffer layer. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 043305	3.4	22
61	Single-Layered Hybrid DBPPV-CdSe/ZnS Quantum-Dot Light-Emitting Diodes. <i>IEEE Photonics Technology Letters</i> , <b>2008</b> , 20, 282-284	2.2	22
60	Magnetoconductance responses in organic charge-transfer-complex molecules. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 073307	3.4	21
59	Modulations of photoinduced magnetoconductance for polymer diodes. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 153303	3.4	20
58	An anti-fouling nanoplasmonic SERS substrate for trapping and releasing a cationic fluorescent tag from human blood solution. <i>Nanoscale</i> , <b>2017</b> , 9, 2865-2874	7.7	19
57	Benzo[k]fluoranthene-based linear acenes for efficient deep blue organic light-emitting devices. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 11032		18
56	Application of Statistical Experimental Strategies to H <sub>2</sub> O <sub>2</sub> Production on Au/Graphite in Alkaline Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1996</b> , 35, 4767-4771	3.9	18
55	Studies on Composite Electrolytes Composed of Thermoplastic Polyurethane and Polyacrylonitrile. <i>Macromolecules</i> , <b>2001</b> , 34, 2958-2963	5.5	17
54	Selective manipulation of microparticles using polymer-based optically induced dielectrophoretic devices. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 113302	3.4	16
53	Chemical Oxidative Polymerization and in situ Spectroelectrochemical Studies of a Sulfonated Aniline Derivative by UV-Visible Spectroscopy. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 40-51	3.9	16
52	Enhancement of Inverted Polymer Solar Cells Performances Using Cetyltrimethylammonium-Bromide Modified ZnO. <i>Materials</i> , <b>2018</b> , 11,	3.5	16
51	Zwitterionic polypeptides bearing carboxybetaine and sulfobetaine: synthesis, self-assembly, and their interactions with proteins. <i>Polymer Chemistry</i> , <b>2018</b> , 9, 1178-1189	4.9	15
50	Surfactant-Enriched ZnO Surface via Sol-Gel Process for the Efficient Inverted Polymer Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 26805-26811	9.5	13
49	The metal interlayer in the charge generation layer of tandem organic light-emitting diodes. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 154512	2.5	13
48	Poly(ethylene oxide)-functionalized Al cathodes of tunable electron-injection capabilities for efficient polymer light-emitting diodes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 18840		13

47	Ion-modulated electrical conduction in polyaniline-based field-effect transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 093508	3.4	13
46	Solid polymer electrolytes I, preparation, characterization, and ionic conductivity of gelled polymer electrolytes based on novel crosslinked siloxane/poly(ethylene glycol) polymers. <i>Journal of Polymer Science Part A</i> , <b>2004</b> , 42, 2051-2059	2.5	13
45	Chemical grafting of polyaniline onto nylon66 fiber in different media. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 79, 1283-1296	2.9	13
44	Soft segmental effect of methylene bis(p-cyclohexyl isocyanate) based thermoplastic polyurethane impregnated with lithium perchlorate/propylene carbonate on ionic conductivity. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 80, 935-942	2.9	13
43	Blending poly(methyl methacrylate) and poly(styrene-co-acrylonitrile) as composite polymer electrolyte. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 80, 1319-1328	2.9	13
42	Characteristics of PPG-based thermoplastic polyurethane doped with lithium perchlorate. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 82, 389-399	2.9	13
41	Ruthenium core-activated platinum monolayer shell high redox activity cathodic electrocatalysts for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5660	13	11
40	Composite electrodes consisting of platinum particles and polyaniline nanowires as electrocatalysts for methanol oxidation. <i>Polymer Composites</i> , <b>2007</b> , 28, 650-656	3	11
39	In-situ spectroelectrochemical evidences for the copolymerization of o-toluidine with diphenylamine-4-sulphonic acid by UV-visible spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2002</b> , 58, 167-77	4.4	10
38	Blending thermoplastic polyurethanes and poly(ethylene oxide) for composite electrolytes via a mixture design approach. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 77, 680-692	2.9	10
37	The surface-enhanced Raman scattering detection of N-nitrosodimethylamine and N-nitrosodiethylamine via gold nanorod arrays with a chemical linkage of zwitterionic copolymer. <i>Nanoscale</i> , <b>2020</b> , 12, 1075-1082	7.7	10
36	The size effect of silver nanocubes on gap-mode surface enhanced Raman scattering substrate. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2016</b> , 69, 146-150	5.3	9
35	Robust SERS substrates with massive nanogaps derived from silver nanocubes self-assembled on massed silver mirror via 1,2-ethanedithiol monolayer as linkage and ultra-thin spacer. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 143, 1331-1337	4.4	9
34	Performance improvement in transparent organic thin-film transistors with indium tin oxide/fullerene source/drain contact. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 163303	3.4	9
33	Ternary electron injection layers for highly efficient polymer light emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8559-8564	7.1	8
32	Significance of ions with an ordered arrangement for enhancing the electron injection/extraction in polymer optoelectronic devices. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 4805-4811	7.1	8
31	Breakdown of the Bretherton law due to wall slippage. <i>Journal of Fluid Mechanics</i> , <b>2014</b> , 741, 200-227	3.7	8
30	Electrochemical Leveling Effect on Multi-Aromatic Monomer Films to Prepare Robust Conducting Polymer Nano- and Microfilms by Vapor Deposition Combined with Electropolymerization. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 9227-9234	3.8	8

29	Enhancing the hole injection ability of indium tin oxide via ammonium salts in polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 531-535	7.1	7
28	Composite Electrolytes Comprising Polytetramethylene/Polypropylene Glycol-Based Waterborne Polyurethanes and Polyethylene Oxide via a Mixture Design Approach. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2000</b> , 39, 72-78	3.9	7
27	Role of self-assembled tetraoctylammonium bromide on various conjugated polymers in polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 272-276	7.1	6
26	Magnetoconductance responses of triplet polaron pair charge reaction in hyperfine coupling regime. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 253304	3.4	6
25	Deposition of poly(diphenylamine-co-o-chloroaniline) by pulse potentiostatic method: Growth equation and characterization. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 88, 389-397	2.9	6
24	Interfacial engineering of ZnO surface modified with poly-vinylpyrrolidone and p-aminobenzoic acid for high-performance perovskite solar cells. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 219, 90-95	4.4	5
23	Extension of active region in crossbar-type polymer solar photovoltaics induced by highly conductive PEDOT:PSS buffer layer. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , <b>2010</b> , 28, 702-705	1.3	5
22	Identifying the magnetoconductance responses by the induced charge transfer complex states in pentacene-based diodes. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 053307	3.4	5
21	Role of anions in the polymerization of 2,5-dimethoxyaniline in the presence of poly(styrene sulfonic acid). <i>Journal of Polymer Science Part A</i> , <b>2006</b> , 44, 6624-6632	2.5	5
20	Morphology and conductivity changes in a thermoplastic polyurethane-based copolymer consisting of different soft segments. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 82, 1462-1473	2.9	5
19	Electrophoretic stretching of tethered polymer chains by travelling-wave electric fields: tunable stretching, expedited coil stretch transition, and a new paradigm of dynamic molecular probing. <i>Soft Matter</i> , <b>2012</b> , 8, 1977-1990	3.6	4
18	Ionic Conductivity and Morphological Study of a Thermoplastic Polyurethane Based Electrolyte Comprising of Mixed Soft Segments. <i>Polymer Journal</i> , <b>2000</b> , 32, 921-931	2.7	4
17	Application of Experimental Design to the Conductivity Optimization for Waterborne Polyurethane Electrolytes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 1415-1419	3.9	4
16	Sol-gel ZnO modified by organic dye molecules for efficient inverted polymer solar cells. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2020</b> , 107, 72-78	5.3	4
15	Amide-Functionalized Small Molecules as Solution-Processed Electron Injection Layers in Highly Efficient Polymer Light-Emitting Diodes. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500621	4.6	4
14	Improvement in inverted polymer solar cells via 1-benzoyl-2-thiourea as surface modifier on sol-gel ZnO. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 96, 131-136	5.3	4
13	Efficient inverted polymer solar cells via pyridine-based organic molecules as interfacial modification layer on sol-gel zinc oxide surface. <i>Organic Electronics</i> , <b>2018</b> , 63, 93-97	3.5	4
12	A Ternary-Mixture-Based Counter Electrode for Quantum-Dot-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 7121-7128	6.1	3

11	Modulating the line shape of magnetoconductance by varying the charge injection in polymer light-emitting diodes. <i>AIP Advances</i> , <b>2018</b> , 8, 025209	1.5	3
10	Plasmonic cavities derived from silver nanoparticles atop a massed silver surface for surface enhancement Raman scattering. <i>RSC Advances</i> , <b>2014</b> , 4, 44457-44461	3.7	3
9	Plasma treatment on plastic substrates for liquid-phase-deposited SiO <sub>2</sub> . <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2007</b> , 25, 1635		3
8	Statistical Design Strategies To Optimize Properties in Emulsion Copolymerization of Methyl Methacrylate and Acrylonitrile. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 4536-4542	3.9	3
7	Syntheses of New Azo Dye stuff Containing a Sydnone Ring. <i>Journal of the Chinese Chemical Society</i> , <b>1998</b> , 45, 209-211	1.5	2
6	Chitosan production from <i>Paecilomyces saturatus</i> using three monosaccharides via mixture design. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 141, 307-312	7.9	1
5	Nanostructured Conducting Polymers for Sensor Development <b>2013</b> , 489-521		1
4	Role of Solution-Processable Polyethylenimine Electrode Interlayer in Fabricating Air-Stable Polymer Light-Emitting Diodes. <i>Israel Journal of Chemistry</i> , <b>2014</b> , 54, 935-941	3.4	1
3	Growth Behavior and Characterization of Poly(o-toluidine-co-m-bromoaniline) by Cyclic Voltammetry. <i>International Journal of Polymer Analysis and Characterization</i> , <b>2003</b> , 8, 1-27	1.7	1
2	Soluble conducting poly(dipropargyl ether) formation studied using ultraviolet-visible spectroscopy. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 5289-5294	4.3	1
1	Characterize and Retard the Impact of the Bias-Induced Mobile Ions in CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2101439	8.1	1