

Tain-Ching Wen

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.

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	Characterize and Retard the Impact of the Bias-Induced Mobile Ions in CH ₃ NH ₃ PbBr ₃ Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2022 , 10, 2101439	8.1	1
81	A Ternary-Mixture-Based Counter Electrode for Quantum-Dot-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7121-7128	6.1	3
80	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> , 2020 , 12, 1075-1082	7.7	10
79	Sol-gel ZnO modified by organic dye molecules for efficient inverted polymer solar cells. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 107, 72-78	5.3	4
78	Chitosan production from <i>Paecilomyces saturatus</i> using three monosaccharides via mixture design. <i>International Journal of Biological Macromolecules</i> , 2019 , 141, 307-312	7.9	1
77	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> , 2019 , 96, 131-136	5.3	4
76	Zwitterionic polypeptides bearing carboxybetaine and sulfobetaine: synthesis, self-assembly, and their interactions with proteins. <i>Polymer Chemistry</i> , 2018 , 9, 1178-1189	4.9	15
75	Modulating the line shape of magnetoconductance by varying the charge injection in polymer light-emitting diodes. <i>AIP Advances</i> , 2018 , 8, 025209	1.5	3
74	Surfactant-Enriched ZnO Surface via Sol-Gel Process for the Efficient Inverted Polymer Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26805-26811	9.5	13
73	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> , 2018 , 219, 90-95	4.4	5
72	Enhancement of Inverted Polymer Solar Cells Performances Using Cetyltrimethylammonium-Bromide Modified ZnO. <i>Materials</i> , 2018 , 11,	3.5	16
71	Efficient inverted polymer solar cells via pyridine-based organic molecules as interfacial modification layer on sol-gel zinc oxide surface. <i>Organic Electronics</i> , 2018 , 63, 93-97	3.5	4
70	An anti-fouling nanoplasmonic SERS substrate for trapping and releasing a cationic fluorescent tag from human blood solution. <i>Nanoscale</i> , 2017 , 9, 2865-2874	7.7	19
69	Ternary electron injection layers for highly efficient polymer light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8559-8564	7.1	8
68	The size effect of silver nanocubes on gap-mode surface enhanced Raman scattering substrate. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016 , 69, 146-150	5.3	9
67	Amide-Functionalized Small Molecules as Solution-Processed Electron Injection Layers in Highly Efficient Polymer Light-Emitting Diodes. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500621	4.6	4
66	Ultra-low fouling and high antibody loading zwitterionic hydrogel coatings for sensing and detection in complex media. <i>Acta Biomaterialia</i> , 2016 , 40, 31-37	10.8	67

65	Zwitterionic surface grafting of epoxytated sulfobetaine copolymers for the development of stealth biomaterial interfaces. <i>Acta Biomaterialia</i> , 2016 , 40, 78-91	10.8	49
64	NiO Electrode Interlayer and CH ₃ NH ₂ /CH ₃ NH ₂ PbBr Interface Treatment to Markedly Advance Hybrid Perovskite-Based Light-Emitting Diodes. <i>Advanced Materials</i> , 2016 , 28, 8687-8694	24	134
63	High-performance hole-transporting layer-free conventional perovskite/fullerene heterojunction thin-film solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9128-9132	13	48
62	Applying thermosettable zwitterionic copolymers as general fouling-resistant and thermal-tolerant biomaterial interfaces. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10096-107	9.5	42
61	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> , 2015 , 25, 5326-5332	15.6	106
60	Role of self-assembled tetraoctylammonium bromide on various conjugated polymers in polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 272-276	7.1	6
59	Significance of ions with an ordered arrangement for enhancing the electron injection/extraction in polymer optoelectronic devices. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4805-4811	7.1	8
58	Plasmonic cavities derived from silver nanoparticles atop a massed silver surface for surface enhancement Raman scattering. <i>RSC Advances</i> , 2014 , 4, 44457-44461	3.7	3
57	Alkyl Chain-Grafted Poly(L-lysine) Vesicles with Tunable Molecular Assembly and Membrane Permeability.. <i>ACS Macro Letters</i> , 2014 , 3, 220-223	6.6	33
56	Role of Solution-Processable Polyethylenimine Electrode Interlayer in Fabricating Air-Stable Polymer Light-Emitting Diodes. <i>Israel Journal of Chemistry</i> , 2014 , 54, 935-941	3.4	1
55	Breakdown of the Bretherton law due to wall slippage. <i>Journal of Fluid Mechanics</i> , 2014 , 741, 200-227	3.7	8
54	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> , 2014 , 143, 1331-1337	4.4	9
53	Manipulating the Hysteresis in Poly(vinyl alcohol)-Dielectric Organic Field-Effect Transistors Toward Memory Elements. <i>Advanced Functional Materials</i> , 2013 , 23, 4206-4214	15.6	98
52	Ruthenium core-activated platinum monolayer shell high redox activity cathodic electrocatalysts for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5660	13	11
51	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> , 2013 , 1, 2582	13	34
50	Nanostructured Conducting Polymers for Sensor Development 2013 , 489-521		1
49	Enhancing the hole injection ability of indium tin oxide via ammonium salts in polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 531-535	7.1	7
48	CH ₃ NH ₃ PbI ₃ perovskite/fullerene planar-heterojunction hybrid solar cells. <i>Advanced Materials</i> , 2013 , 25, 3727-32	24	1189

47	Magnetoconductance responses of triplet polaron pair charge reaction in hyperfine coupling regime. <i>Applied Physics Letters</i> , 2013 , 103, 253304	3.4	6
46	The metal interlayer in the charge generation layer of tandem organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2013 , 114, 154512	2.5	13
45	Benzo[k]fluoranthene-based linear acenes for efficient deep blue organic light-emitting devices. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11032		18
44	Core Dominated Surface Activity of Core-Shell Nanocatalysts on Methanol Electrooxidation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16969-16978	3.8	28
43	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> , 2012 , 8, 1977-1990	3.6	4
42	Identifying the magnetoconductance responses by the induced charge transfer complex states in pentacene-based diodes. <i>Applied Physics Letters</i> , 2012 , 101, 053307	3.4	5
41	Self-assembled tetraoctylammonium bromide as an electron-injection layer for cathode-independent high-efficiency polymer light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8715		26
40	The Roles of Poly(Ethylene Oxide) Electrode Buffers in Efficient Polymer Photovoltaics. <i>Advanced Energy Materials</i> , 2011 , 1, 1192-1198	21.8	28
39	Poly(ethylene oxide)-functionalized Al cathodes of tunable electron-injection capabilities for efficient polymer light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18840		13
38	Magnetoconductance responses in organic charge-transfer-complex molecules. <i>Applied Physics Letters</i> , 2011 , 99, 073307	3.4	21
37	Selective manipulation of microparticles using polymer-based optically induced dielectrophoretic devices. <i>Applied Physics Letters</i> , 2010 , 96, 113302	3.4	16
36	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> , 2010 , 28, 702-705	1.3	5
35	Performance improvement in transparent organic thin-film transistors with indium tin oxide/fullerene source/drain contact. <i>Applied Physics Letters</i> , 2009 , 95, 163303	3.4	9
34	An inverted polymer photovoltaic cell with increased air stability obtained by employing novel hole/electron collecting layers. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1643		126
33	Improvement of transparent organic thin film transistor performance by inserting a lithium fluoride buffer layer. <i>Applied Physics Letters</i> , 2008 , 93, 043305	3.4	22
32	Sulfonated poly(diphenylamine) as a novel hole-collecting layer in polymer photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4478		50
31	Single-Layered Hybrid DBPPV-CdSe/ZnS Quantum-Dot Light-Emitting Diodes. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 282-284	2.2	22
30	Modulations of photoinduced magnetoconductance for polymer diodes. <i>Applied Physics Letters</i> , 2008 , 92, 153303	3.4	20

29	Ion-modulated electrical conduction in polyaniline-based field-effect transistors. <i>Applied Physics Letters</i> , 2008 , 92, 093508	3.4	13
28	Organic-Oxide Cathode Buffer Layer in Fabricating High-Performance Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2008 , 18, 3036-3042	15.6	42
27	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> , 2007 , 111, 9227-9234	3.8	8
26	Composite electrodes consisting of platinum particles and polyaniline nanowires as electrocatalysts for methanol oxidation. <i>Polymer Composites</i> , 2007 , 28, 650-656	3	11
25	Plasma treatment on plastic substrates for liquid-phase-deposited SiO ₂ . <i>Journal of Vacuum Science & Technology B</i> , 2007 , 25, 1635		3
24	Simultaneous synthesis of silver nanoparticles and poly(2,5-dimethoxyaniline) in poly(styrene sulfonic acid). <i>Journal of Polymer Science Part A</i> , 2006 , 44, 3843-3852	2.5	29
23	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> , 2006 , 44, 6624-6632	2.5	5
22	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> , 2004 , 42, 2051-2059	2.5	13
21	Morphology and ionic conductivity of thermoplastic polyurethane electrolytes. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 1154-1167	2.9	33
20	Deposition of poly(diphenylamine-co-o-chloroaniline) by pulse potentiostatic method: Growth equation and characterization. <i>Journal of Applied Polymer Science</i> , 2003 , 88, 389-397	2.9	6
19	Growth Behavior and Characterization of Poly(o-toluidine-co-m-bromoaniline) by Cyclic Voltammetry. <i>International Journal of Polymer Analysis and Characterization</i> , 2003 , 8, 1-27	1.7	1
18	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> , 2002 , 58, 167-77	4.4	10
17	Chemical grafting of polyaniline onto nylon66 fiber in different media. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 1283-1296	2.9	13
16	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> , 2001 , 80, 935-942	2.9	13
15	Blending poly(methyl methacrylate) and poly(styrene-co-acrylonitrile) as composite polymer electrolyte. <i>Journal of Applied Polymer Science</i> , 2001 , 80, 1319-1328	2.9	13
14	Characteristics of PPG-based thermoplastic polyurethane doped with lithium perchlorate. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 389-399	2.9	13
13	Morphology and conductivity changes in a thermoplastic polyurethane-based copolymer consisting of different soft segments. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 1462-1473	2.9	5
12	Soluble conducting poly(dipropargyl ether) formation studied using ultraviolet-visible spectroscopy. <i>Journal of Materials Science</i> , 2001 , 36, 5289-5294	4.3	1

11	Studies on Composite Electrolytes Composed of Thermoplastic Polyurethane and Polyacrylonitrile. <i>Macromolecules</i> , 2001 , 34, 2958-2963	5.5	17
10	Statistical Design Strategies To Optimize Properties in Emulsion Copolymerization of Methyl Methacrylate and Acrylonitrile. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 4536-4542	3.9	3
9	Chemical Oxidative Polymerization and in situ Spectroelectrochemical Studies of a Sulfonated Aniline Derivative by UV-Visible Spectroscopy. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 40-51	3.9	16
8	Ionic Conductivity and Morphological Study of a Thermoplastic Polyurethane Based Electrolyte Comprising of Mixed Soft Segments. <i>Polymer Journal</i> , 2000 , 32, 921-931	2.7	4
7	Direct ⁷ Li NMR Spectral Evidence for Different Li ⁺ Local Environments in a Polyether Poly(urethane urea) Electrolyte. <i>Macromolecules</i> , 2000 , 33, 6910-6912	5.5	27
6	Blending thermoplastic polyurethanes and poly(ethylene oxide) for composite electrolytes via a mixture design approach. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 680-692	2.9	10
5	Composite Electrolytes Comprising Polytetramethylene/Polypropylene Glycol-Based Waterborne Polyurethanes and Polyethylene Oxide via a Mixture Design Approach. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 72-78	3.9	7
4	Application of Experimental Design to the Conductivity Optimization for Waterborne Polyurethane Electrolytes. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 1415-1419	3.9	4
3	Spectroscopic Investigations of Poly(oxypropylene)glycol-Based Waterborne Polyurethane Doped with Lithium Perchlorate. <i>Macromolecules</i> , 1999 , 32, 2712-2720	5.5	70
2	Syntheses of New Azo Dye stuff Containing a Sydnone Ring. <i>Journal of the Chinese Chemical Society</i> , 1998 , 45, 209-211	1.5	2
1	Application of Statistical Experimental Strategies to H ₂ O ₂ Production on Au/Graphite in Alkaline Solution. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 4767-4771	3.9	18