Tain-Ching Wen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	CH ₃ NH ₃ PbI ₃ Perovskite/Fullerene Planarâ€Heterojunction Hybrid Solar Cells. Advanced Materials, 2013, 25, 3727-3732.	11.1	1,352
2	NiO <i>_x</i> Electrode Interlayer and CH ₃ NH ₂ /CH ₃ NH ₃ PbBr ₃ Interface Treatment to Markedly Advance Hybrid Perovskiteâ€Based Lightâ€Emitting Diodes. Advanced Materials, 2016, 28, 8687-8694.	11.1	147
3	An inverted polymer photovoltaic cell with increased air stability obtained by employing novel hole/electron collecting layers. Journal of Materials Chemistry, 2009, 19, 1643.	6.7	129
4	Influence of Molecular Geometry of Perylene Diimide Dimers and Polymers on Bulk Heterojunction Morphology Toward Highâ€Performance Nonfullerene Polymer Solar Cells. Advanced Functional Materials, 2015, 25, 5326-5332.	7.8	119
5	Manipulating the Hysteresis in Poly(vinyl alcohol)â€Dielectric Organic Fieldâ€Effect Transistors Toward Memory Elements. Advanced Functional Materials, 2013, 23, 4206-4214.	7.8	113
6	Spectroscopic Investigations of Poly(oxypropylene)glycol-Based Waterborne Polyurethane Doped with Lithium Perchlorate. Macromolecules, 1999, 32, 2712-2720.	2.2	77
7	Ultra-low fouling and high antibody loading zwitterionic hydrogel coatings for sensing and detection in complex media. Acta Biomaterialia, 2016, 40, 31-37.	4.1	77
8	Zwitterionic surface grafting of epoxylated sulfobetaine copolymers for the development of stealth biomaterial interfaces. Acta Biomaterialia, 2016, 40, 78-91.	4.1	71
9	Sulfonated poly(diphenylamine) as a novel hole-collecting layer in polymer photovoltaic cells. Journal of Materials Chemistry, 2008, 18, 4478.	6.7	53
10	High-performance hole-transporting layer-free conventional perovskite/fullerene heterojunction thin-film solar cells. Journal of Materials Chemistry A, 2015, 3, 9128-9132.	5.2	52
11	Applying Thermosettable Zwitterionic Copolymers as General Fouling-Resistant and Thermal-Tolerant Biomaterial Interfaces. ACS Applied Materials & Interfaces, 2015, 7, 10096-10107.	4.0	50
12	Organicâ€Oxide Cathode Buffer Layer in Fabricating Highâ€Performance Polymer Lightâ€Emitting Diodes. Advanced Functional Materials, 2008, 18, 3036-3042.	7.8	43
13	Morphology and ionic conductivity of thermoplastic polyurethane electrolytes. Journal of Applied Polymer Science, 2004, 91, 1154-1167.	1.3	37
14	Alkyl Chain-Grafted Poly(<scp> </scp> -lysine) Vesicles with Tunable Molecular Assembly and Membrane Permeability. ACS Macro Letters, 2014, 3, 220-223.	2.3	37
15	Enhanced performance of polymer solar cells using solution-processed tetra-n-alkyl ammonium bromides as electron extraction layers. Journal of Materials Chemistry A, 2013, 1, 2582.	5.2	36
16	Core Dominated Surface Activity of Core–Shell Nanocatalysts on Methanol Electrooxidation. Journal of Physical Chemistry C, 2012, 116, 16969-16978.	1.5	32
17	Direct7Li NMR Spectral Evidence for Different Li+Local Environments in a Polyether Poly(urethane) Tj ETQq1 1	0.784314 r 2.2	gBT /Overlock
18	Simultaneous synthesis of silver nanoparticles and poly(2,5-dimethoxyaniline) in poly(styrene) Tj ETQq0 0 0 rg	BT /Qverloc	k 10 Tf 50 62

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19	Self-assembled tetraoctylammonium bromide as an electron-injection layer for cathode-independent high-efficiency polymer light-emitting diodes. Journal of Materials Chemistry, 2011, 21, 8715.	6.7	29
20	Single-Layered Hybrid DBPPV-CdSe–ZnS Quantum-Dot Light-Emitting Diodes. IEEE Photonics Technology Letters, 2008, 20, 282-284.	1.3	28
21	The Roles of Poly(Ethylene Oxide) Electrode Buffers in Efficient Polymer Photovoltaics. Advanced Energy Materials, 2011, 1, 1192-1198.	10.2	28
22	An anti-fouling nanoplasmonic SERS substrate for trapping and releasing a cationic fluorescent tag from human blood solution. Nanoscale, 2017, 9, 2865-2874.	2.8	28
23	Magnetoconductance responses in organic charge-transfer-complex molecules. Applied Physics Letters, 2011, 99, .	1.5	23
24	Improvement of transparent organic thin film transistor performance by inserting a lithium fluoride buffer layer. Applied Physics Letters, 2008, 93, 043305.	1.5	22
25	Modulations of photoinduced magnetoconductance for polymer diodes. Applied Physics Letters, 2008, 92, 153303.	1.5	22
26	Benzo[k]fluoranthene-based linear acenes for efficient deep blue organic light-emitting devices. Journal of Materials Chemistry, 2012, 22, 11032.	6.7	22
27	Zwitterionic polypeptides bearing carboxybetaine and sulfobetaine: synthesis, self-assembly, and their interactions with proteins. Polymer Chemistry, 2018, 9, 1178-1189.	1.9	22
28	Selective manipulation of microparticles using polymer-based optically induced dielectrophoretic devices. Applied Physics Letters, 2010, 96, 113302.	1.5	21
29	Studies on Composite Electrolytes Composed of Thermoplastic Polyurethane and Polyacrylonitrile. Macromolecules, 2001, 34, 2958-2963.	2.2	20
30	Application of Statistical Experimental Strategies to H2O2Production on Au/Graphite in Alkaline Solution. Industrial & Engineering Chemistry Research, 1996, 35, 4767-4771.	1.8	18
31	Chemical Oxidative Polymerization and in situ Spectroelectrochemical Studies of a Sulfonated Aniline Derivative by UVâ^'Visible Spectroscopy. Industrial & Engineering Chemistry Research, 2001, 40, 40-51.	1.8	18
32	Enhancement of Inverted Polymer Solar Cells Performances Using Cetyltrimethylammonium-Bromide Modified ZnO. Materials, 2018, 11, 378.	1.3	18
33	Ion-modulated electrical conduction in polyaniline-based field-effect transistors. Applied Physics Letters, 2008, 92, .	1.5	17
34	The surface-enhanced Raman scattering detection of <i>N</i> -nitrosodimethylamine and <i>N</i> -nitrosodiethylamine <i>via</i> gold nanorod arrays with a chemical linkage of zwitterionic copolymer. Nanoscale, 2020, 12, 1075-1082.	2.8	16
35	Blending poly(methyl methacrylate) and poly(styrene-co-acrylonitrile) as composite polymer electrolyte. Journal of Applied Polymer Science, 2001, 80, 1319-1328.	1.3	15
36	Characteristics of PPG-based thermoplastic polyurethane doped with lithium perchlorate. Journal of Applied Polymer Science, 2001, 82, 389-399.	1.3	15

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37	The metal interlayer in the charge generation layer of tandem organic light-emitting diodes. Journal of Applied Physics, 2013, 114, .	1.1	15
38	Surfactant-Enriched ZnO Surface via Sol–Gel Process for the Efficient Inverted Polymer Solar Cell. ACS Applied Materials & Interfaces, 2018, 10, 26805-26811.	4.0	15
39	Chemical grafting of polyaniline onto nylon66 fiber in different media. Journal of Applied Polymer Science, 2001, 79, 1283-1296.	1.3	14
40	Composite electrodes consisting of platinum particles and polyaniline nanowires as electrocatalysts for methanol oxidation. Polymer Composites, 2007, 28, 650-656.	2.3	14
41	Soft segmental effect of methylene bis(p-cyclohexyl isocyanate) based thermoplastic polyurethane impregnated with lithium perchlorate/propylene carbonate on ionic conductivity. Journal of Applied Polymer Science, 2001, 80, 935-942.	1.3	13
42	Solid polymer electrolytes I, preparation, characterization, and ionic conductivity of gelled polymer electrolytes based on novel crosslinked siloxane/poly(ethylene glycol) polymers. Journal of Polymer Science Part A, 2004, 42, 2051-2059.	2.5	13
43	Poly(ethylene oxide)-functionalized Al cathodes of tunable electron-injection capabilities for efficient polymer light-emitting diodes. Journal of Materials Chemistry, 2011, 21, 18840.	6.7	13
44	Ruthenium core-activated platinum monolayer shell high redox activity cathodic electrocatalysts for dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 5660.	5.2	12
45	In-situ spectroelectrochemical evidences for the copolymerization of o-toluidine with diphenylamine-4-sulphonic acid by UV-visible spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 167-177.	2.0	11
46	Interfacial engineering of ZnO surface modified with poly-vinylpyrrolidone and p-aminobenzoic acid for high-performance perovskite solar cells. Materials Chemistry and Physics, 2018, 219, 90-95.	2.0	11
47	Blending thermoplastic polyurethanes and poly(ethylene oxide) for composite electrolytes via a mixture design approach. Journal of Applied Polymer Science, 2000, 77, 680-692.	1.3	10
48	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. Materials Chemistry and Physics, 2014, 143, 1331-1337.	2.0	10
49	The size effect of silver nanocubes on gap-mode surface enhanced Raman scattering substrate. Journal of the Taiwan Institute of Chemical Engineers, 2016, 69, 146-150.	2.7	10
50	Performance improvement in transparent organic thin-film transistors with indium tin oxide/fullerene source/drain contact. Applied Physics Letters, 2009, 95, .	1.5	9
51	Enhancing the hole injection ability of indium tin oxide viaammonium salts in polymer light-emitting diodes. Journal of Materials Chemistry C, 2013, 1, 531-535.	2.7	9
52	Breakdown of the Bretherton law due to wallÂslippage. Journal of Fluid Mechanics, 2014, 741, 200-227.	1.4	9
53	Composite Electrolytes Comprising Polytetramethylene/Polypropylene Glycol-Based Waterborne Polyurethanes and Polyethylene Oxide via a Mixture Design Approach. Industrial & Engineering Chemistry Research, 2000, 39, 72-78.	1.8	8
54	Deposition of poly(diphenylamine-co-o-chloroaniline) by pulse potentiostatic method: Growth equation and characterization. Journal of Applied Polymer Science, 2003, 88, 389-397.	1.3	8

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55	Electrochemical Leveling Effect on Multi-Aromatic Monomer Films to Prepare Robust Conducting Polymer Nano- and Microfilms by Vapor Deposition Combined with Electropolymerization. Journal of Physical Chemistry C, 2007, 111, 9227-9234.	1.5	8
56	Significance of ions with an ordered arrangement for enhancing the electron injection/extraction in polymer optoelectronic devices. Journal of Materials Chemistry C, 2014, 2, 4805-4811.	2.7	8
57	Ternary electron injection layers for highly efficient polymer light emitting diodes. Journal of Materials Chemistry C, 2016, 4, 8559-8564.	2.7	8
58	Identifying the magnetoconductance responses by the induced charge transfer complex states in pentacene-based diodes. Applied Physics Letters, 2012, 101, 053307.	1.5	7
59	Magnetoconductance responses of triplet polaron pair charge reaction in hyperfine coupling regime. Applied Physics Letters, 2013, 103, 253304.	1.5	7
60	Role of self-assembled tetraoctylammonium bromide on various conjugated polymers in polymer light-emitting diodes. Journal of Materials Chemistry C, 2014, 2, 272-276.	2.7	7
61	Improvement in inverted polymer solar cells via 1-benzoyl-2-thiourea as surface modifier on sol-gel ZnO. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 131-136.	2.7	7
62	Morphology and conductivity changes in a thermoplastic polyurethane-based copolymer consisting of different soft segments. Journal of Applied Polymer Science, 2001, 82, 1462-1473.	1.3	6
63	Ionic Conductivity and Morphological Study of a Thermoplastic Polyurethane Based Electrolyte Comprising of Mixed Soft Segments. Polymer Journal, 2000, 32, 921-931.	1.3	5
64	Role of anions in the polymerization of 2,5-dimethoxyaniline in the presence of poly(styrene sulfonic) Tj ETQq0 (0 0 rgBT /C	Dverlock 10 Tr
65	Extension of active region in crossbar-type polymer solar photovoltaics induced by highly conductive PEDOT:PSS buffer layer. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 702-705.	0.6	5
66	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. Soft Matter, 2012, 8, 1977-1990.	1.2	5
67	Amideâ€Functionalized Small Molecules as Solutionâ€Processed Electron Injection Layers in Highly Efficient Polymer Lightâ€Emitting Diodes. Advanced Materials Interfaces, 2016, 3, 1500621.	1.9	5
68	Efficient inverted polymer solar cells via pyridine-based organic molecules as interfacial modification layer on sol-gel zinc oxide surface. Organic Electronics, 2018, 63, 93-97.	1.4	5
69	Chitosan production from Paecilomyces saturatus using three monosaccharides via mixture design. International Journal of Biological Macromolecules, 2019, 141, 307-312.	3.6	5
70	Sol–gel ZnO modified by organic dye molecules for efficient inverted polymer solar cells. Journal of the Taiwan Institute of Chemical Engineers, 2020, 107, 72-78.	2.7	5
71	A Ternary-Mixture-Based Counter Electrode for Quantum-Dot-Sensitized Solar Cells. ACS Applied Energy Materials, 2020, 3, 7121-7128.	2.5	5

Characterize and Retard the Impact of the Biasâ€Induced Mobile Ions in 72 CH₃NH₃PbBr₃ Perovskite Lightâ€Emitting Diodes. Advanced Optical 3.6 5 Materials, 2022, 10, .

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73	Application of Experimental Design to the Conductivity Optimization for Waterborne Polyurethane Electrolytes. Industrial & Engineering Chemistry Research, 1999, 38, 1415-1419.	1.8	4
74	Statistical Design Strategies To Optimize Properties in Emulsion Copolymerization of Methyl Methacrylate and Acrylonitrile. Industrial & Engineering Chemistry Research, 2001, 40, 4536-4542.	1.8	3
75	Plasma treatment on plastic substrates for liquid-phase-deposited SiO[sub 2]. Journal of Vacuum Science & Technology B, 2007, 25, 1635.	1.3	3
76	Plasmonic cavities derived from silver nanoparticles atop a massed silver surface for surface enhancement Raman scattering. RSC Advances, 2014, 4, 44457-44461.	1.7	3
77	Modulating the line shape of magnetoconductance by varying the charge injection in polymer light-emitting diodes. AIP Advances, 2018, 8, 025209.	0.6	3
78	Syntheses of New Azo Dyestuff Containing a Sydnone Ring. Journal of the Chinese Chemical Society, 1998, 45, 209-211.	0.8	2
79	Growth Behavior and Characterizationof Poly(o-toluidine-co-m-bromoaniline)by Cyclic Voltammetry. International Journal of Polymer Analysis and Characterization, 2003, 8, 1-27.	0.9	2
80	Soluble conducting poly(dipropargyl ether) formation studied using ultraviolet-visible spectroscopy. Journal of Materials Science, 2001, 36, 5289-5294.	1.7	1
81	Role of Solutionâ€Processable Polyethylenimine Electrode Interlayer in Fabricating Air‣table Polymer Lightâ€Emitting Diodes. Israel Journal of Chemistry, 2014, 54, 935-941.	1.0	1
82	Fabrication and characterization of hybrid DBPPV-CdSe/ZnS quantum dot light-emitting diodes. , 2008, , .		0