

Chih-I Wu

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.

174
papers

7,223
citations

41
h-index

81
g-index

185
ext. papers

8,315
ext. citations

6.9
avg, IF

5.72
L-index

#	Paper	IF	Citations
174	Boosting photocatalytic CO ₂ reduction in a ZnS/ZnIn ₂ S ₄ heterostructure through strain-induced direct Z-scheme and a mechanistic study of molecular CO ₂ interaction thereon. <i>Nano Energy</i> , 2022 , 93, 106809	17.1	9
173	Atomic-Layer Controlled Interfacial Band Engineering at Two-Dimensional Layered PtSe/Si Heterojunctions for Efficient Photoelectrochemical Hydrogen Production. <i>ACS Nano</i> , 2021 , 15, 4627-4635	16.7	12
172	Ultrathin amorphous Ge film enabling stabilized femtosecond fiber laser pulsation. <i>Optics and Laser Technology</i> , 2021 , 136, 106761	4.2	2
171	Organic Lead Halide Nanocrystals Providing an Ultra-Wide Color Gamut with Almost-Unity Photoluminescence Quantum Yield. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 25202-25213	9.5	1
170	Ultralow contact resistance between semimetal and monolayer semiconductors. <i>Nature</i> , 2021 , 593, 211-214	30.4	154
169	Transparent and Flexible Inorganic Perovskite Photonic Artificial Synapses with Dual-Mode Operation. <i>Advanced Functional Materials</i> , 2021 , 31, 2008259	15.6	34
168	Enhanced Electrical Performance of Van der Waals Heterostructure. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001850	4.6	3
167	Through-Space Exciton Delocalization in Segregated HJ-Crystalline Molecular Aggregates. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 943-953	2.8	6
166	Vertical 2D/3D Heterojunction of Tin Perovskites for Highly Efficient HTM-Free Perovskite Solar Cell. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2041-2048	6.1	7
165	High On-State Current in Chemical Vapor Deposited Monolayer MoS ₂ nFETs With Sn Ohmic Contacts. <i>IEEE Electron Device Letters</i> , 2021 , 42, 272-275	4.4	12
164	Enhancement of Mobility and Modulation of Carrier Concentration in Graphene Field-Effect Transistors via Molecular Doping. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100748	4.6	2
163	A highly responsive hybrid photodetector based on all-inorganic 2D heterojunction consisting of Cs ₂ Pb(SCN) ₂ Br ₂ and MoS ₂ . <i>Chemical Engineering Journal</i> , 2021 , 422, 130112	14.7	3
162	Direct large-area growth of graphene on silicon for potential ultra-low-friction applications and silicon-based technologies. <i>Nanotechnology</i> , 2020 , 31, 335602	3.4	6
161	Highly Emissive Dinuclear Platinum(III) Complexes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 7469-7479	16.4	36
160	Delayed Charge Recombination by Open-Shell Organics: Its Application in Achieving Superb Photodetectors with Broadband (400-160 nm) Ultrahigh Sensitivity and Stability. <i>Advanced Optical Materials</i> , 2020 , 8, 1902179	8.1	3
159	Forming-Free, Nonvolatile, and Flexible Resistive Random-Access Memory Using Bismuth Iodide/van der Waals Materials Heterostructures. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2001146	4.6	5
158	Van der Waals Epitaxy of Horizontally Orientated Bismuth Iodide/Silicon Heterostructure for Nonvolatile Resistive-Switching Memory with Multistate Data Storage. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000630	4.6	4

157	Interlayer Charge Transfer Coupled with Acoustic Phonon in Organic/Inorganic van der Waals Stacked Heterostructures: Self-Assembled Pt(II) Complex on a PtSe ₂ Monolayer. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25538-25546	3.8	2
156	Near-Infrared Emission Induced by Shortened Pt-Pt Contact: Diplatinum(II) Complexes with Pyridyl Pyrimidinato Cyclometalates. <i>Inorganic Chemistry</i> , 2019 , 58, 13892-13901	5.1	18
155	Enhancing the Catalytic Activity of Tri-iodide Reduction by Tuning the Surface Electronic Structure of PtPd Alloy Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	6
154	KSCN-induced Interfacial Dipole in Black TiO for Enhanced Photocatalytic CO Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25186-25194	9.5	37
153	Influence of Work Function of Carrier Transport Materials with Perovskite on Switchable Photovoltaic Phenomena. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 28668-28676	3.8	7
152	High-Quality Conformal Homogeneous All-Vacuum Deposited CsPbCl Thin Films and Their UV Photodiode Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47054-47062	9.5	21
151	Ultrasensitive Photoresponsive Devices Based on Graphene/BiI ₃ van der Waals Epitaxial Heterostructures. <i>Advanced Functional Materials</i> , 2018 , 28, 1800179	15.6	28
150	Surface modification of graphene using HBC-6ImBr in solution-processed OLEDs. <i>Journal of Applied Physics</i> , 2018 , 123, 024303	2.5	2
149	Artificial Photosynthesis: Ni-Nanocluster Modified Black TiO ₂ with Dual Active Sites for Selective Photocatalytic CO ₂ Reduction (Small 2/2018). <i>Small</i> , 2018 , 14, 1870008	11	1
148	Biodegradable Electronic Systems in 3D, Heterogeneously Integrated Formats. <i>Advanced Materials</i> , 2018 , 30, 1704955	24	52
147	Carbon-doped SnS nanostructure as a high-efficiency solar fuel catalyst under visible light. <i>Nature Communications</i> , 2018 , 9, 169	17.4	219
146	SiGeC Waveguide for All-Optical Data Switching. <i>ACS Photonics</i> , 2018 , 5, 2251-2260	6.3	12
145	Flexible Electronics: Biodegradable Electronic Systems in 3D, Heterogeneously Integrated Formats (Adv. Mater. 11/2018). <i>Advanced Materials</i> , 2018 , 30, 1870077	24	2
144	Ge-Rich SiGe Mode-Locker for Erbium-Doped Fiber Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-10	3.8	3
143	Ultralow-contact-resistance graphene field-effect transistors fabricated with P-type solution doping. <i>Applied Physics Express</i> , 2018 , 11, 075102	2.4	2
142	Van Der Waals Epitaxy: Ultrasensitive Photoresponsive Devices Based on Graphene/BiI ₃ van der Waals Epitaxial Heterostructures (Adv. Funct. Mater. 23/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870160	15.6	0
141	Solution processable mixed-solvent exfoliated MoS ₂ nanosheets for efficient and robust organic light-emitting diodes. <i>AIP Advances</i> , 2018 , 8, 045006	1.5	6
140	Ni-Nanocluster Modified Black TiO with Dual Active Sites for Selective Photocatalytic CO Reduction. <i>Small</i> , 2018 , 14, 1702928	11	80

139	Realizing multi-functional all-optical data processing on nanoscale SiC waveguides. <i>Scientific Reports</i> , 2018 , 8, 14859	4.9	8
138	Cytotoxicity and in Vitro Degradation Kinetics of Foundry-Compatible Semiconductor Nanomembranes and Electronic Microcomponents. <i>ACS Nano</i> , 2018 , 12, 9721-9732	16.7	13
137	Amino-Acid-Induced Preferential Orientation of Perovskite Crystals for Enhancing Interfacial Charge Transfer and Photovoltaic Performance. <i>Small</i> , 2017 , 13, 1604305	11	76
136	A paper-based electrode using a graphene dot/PEDOT:PSS composite for flexible solar cells. <i>Nano Energy</i> , 2017 , 36, 260-267	17.1	115
135	Ultrahigh Responsivity and Detectivity Graphene-Perovskite Hybrid Phototransistors by Sequential Vapor Deposition. <i>Scientific Reports</i> , 2017 , 7, 46281	4.9	49
134	Improved efficiency of organic light-emitting diodes with self-assembled molybdenum oxide hole injection layers. <i>Journal of Applied Physics</i> , 2017 , 121, 195501	2.5	2
133	Atomic-Scale Structural and Chemical Characterization of Hexagonal Boron Nitride Layers Synthesized at the Wafer-Scale with Monolayer Thickness Control. <i>Chemistry of Materials</i> , 2017 , 29, 4700-4707	8.6	29
132	Boosting thin-film perovskite solar cell efficiency through vacuum-deposited sub-nanometer small-molecule electron interfacial layers. <i>Nano Energy</i> , 2017 , 38, 66-71	17.1	29
131	Investigating and optimizing charge transfer between graphene and metal by using double layer electrode and polymer-free transfer method. <i>Materials Research Express</i> , 2017 , 4, 065602	1.7	2
130	Highly Sensitive Graphene-Semiconducting Polymer Hybrid Photodetectors with Millisecond Response Time. <i>ACS Photonics</i> , 2017 , 4, 2335-2344	6.3	18
129	Two-Photon Absorption-Free Ultrafast Optical Switching in Carbon-Rich SixC1 ₈ Microring. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700095	6.8	9
128	Germanium-doped Metallic Ohmic Contacts in Black Phosphorus Field-Effect Transistors with Ultra-low Contact Resistance. <i>Scientific Reports</i> , 2017 , 7, 16857	4.9	12
127	Stabilization of hybrid perovskite CH ₃ NH ₃ PbI ₃ thin films by graphene passivation. <i>Nanoscale</i> , 2017 , 9, 19227-19235	7.1	33
126	Band Alignment of 2D Transition Metal Dichalcogenide Heterojunctions. <i>Advanced Functional Materials</i> , 2017 , 27, 1603756	15.6	55
125	Data Retention Characterization of Gate-Injected Gold-Nanoparticle Non-Volatile Memory with Low-Damage CF ₄ Plasma-Treated Blocking Oxide Layer. <i>Nanomaterials</i> , 2017 , 7,	5.4	1
124	An energy-efficient nonvolatile microprocessor considering software-hardware interaction for energy harvesting applications 2016 ,		5
123	All-Optical Cross-Absorption-Modulation Based Gb/s Switching With Silicon Quantum Dots. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016 , 22, 57-69	3.8	5
122	Easy Access to NO ₂ -Containing Donor-Acceptor-Acceptor Electron Donors for High Efficiency Small-Molecule Organic Solar Cells. <i>ChemSusChem</i> , 2016 , 9, 1433-41	8.3	10

121	Effects of amorphous poly(3-hexylthiophene) on active-layer structure and solar cells performance. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 975-985	2.6	3
120	Stoichiometry detuned silicon carbide as an orange and white light band solid-state phosphor. <i>RSC Advances</i> , 2016 , 6, 7121-7128	3.7	3
119	Enriching Si quantum dots in a Si-rich SiN _x matrix for strong (B) optical nonlinearity. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1405-1413	7.1	24
118	Effects of Ga concentration and rapid thermal annealing on the structural, optoelectronic and photoluminescence properties of Ga-doped ZnO thin films. <i>Thin Solid Films</i> , 2016 , 605, 30-36	2.2	17
117	Catalytically solid-phase self-organization of nanoporous SnS with optical depolarizability. <i>Nanoscale</i> , 2016 , 8, 4579-87	7.7	7
116	Rear interface engineering of hybrid organic-silicon nanowire solar cells via blade coating. <i>Optics Express</i> , 2016 , 24, A414-23	3.3	7
115	Growing GaN LEDs on amorphous SiC buffer with variable C/Si compositions. <i>Scientific Reports</i> , 2016 , 6, 19757	4.9	22
114	Spectroscopic studies of the physical origin of environmental aging effects on doped graphene. <i>Journal of Applied Physics</i> , 2016 , 119, 235301	2.5	7
113	Solution p-doped fluorescent polymers for enhanced charge transport of hybrid organic-silicon nanowire photovoltaics. <i>Organic Electronics</i> , 2016 , 34, 246-253	3.5	3
112	Low-Power MCU With Embedded ReRAM Buffers as Sensor Hub for IoT Applications. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2016 , 6, 247-257	5.2	18
111	Enhancing Optical Nonlinearity in a Nonstoichiometric SiN Waveguide for Cross-Wavelength All-Optical Data Processing. <i>ACS Photonics</i> , 2015 , 2, 1141-1154	6.3	58
110	Graphene Anodes and Cathodes: Tuning the Work Function of Graphene by Nearly 2 eV with an Aqueous Intercalation Process. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17155-61	9.5	37
109	The effects of fluorine-contained molecules on improving the polymer solar cell by curing the anomalous S-shaped I-V curve. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6683-9	9.5	3
108	Solution-processed transparent blue organic light-emitting diodes with graphene as the top cathode. <i>Scientific Reports</i> , 2015 , 5, 9693	4.9	45
107	Shape-Dependent Light Harvesting of 3D Gold Nanocrystals on Bulk Heterojunction Solar Cells: Plasmonic or Optical Scattering Effect?. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7554-7564	3.8	31
106	Economical low-light photovoltaics by using the Pt-free dye-sensitized solar cell with graphene dot/PEDOT:PSS counter electrodes. <i>Nano Energy</i> , 2015 , 18, 109-117	17.1	85
105	Strong optical nonlinearity of the nonstoichiometric silicon carbide. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10164-10176	7.1	35
104	Semi-transparent silicon-rich silicon carbide photovoltaic solar cells. <i>RSC Advances</i> , 2015 , 5, 36262-36269	3.7	7

103	An Exciplex Forming Host for Highly Efficient Blue Organic Light Emitting Diodes with Low Driving Voltage. <i>Advanced Functional Materials</i> , 2015 , 25, 361-366	15.6	224
102	Si-rich SiNx based Kerr switch enables optical data conversion up to 12 Gbit/s. <i>Scientific Reports</i> , 2015 , 5, 9611	4.9	54
101	A Fully Transparent Resistive Memory for Harsh Environments. <i>Scientific Reports</i> , 2015 , 5, 15087	4.9	17
100	Can silicon carbide serve as a saturable absorber for passive mode-locked fiber lasers?. <i>Scientific Reports</i> , 2015 , 5, 16463	4.9	11
99	A flexible, stretchable and shape-adaptive approach for versatile energy conversion and self-powered biomedical monitoring. <i>Advanced Materials</i> , 2015 , 27, 3817-24	24	199
98	Using n- and p-Type Bi2Te3 Topological Insulator Nanoparticles To Enable Controlled Femtosecond Mode-Locking of Fiber Lasers. <i>ACS Photonics</i> , 2015 , 2, 481-490	6.3	168
97	Nearly warm white-light emission of silicon-rich amorphous silicon carbide. <i>RSC Advances</i> , 2015 , 5, 105239-105247	3.7	105247
96	Charge storage characteristics of nonvolatile memories with chemically-synthesized and vacuum-deposited gold nanoparticles. <i>Current Applied Physics</i> , 2015 , 15, 535-540	2.6	3
95	A solution-processed molybdenum oxide treated silver nanowire network: a highly conductive transparent conducting electrode with superior mechanical and hole injection properties. <i>Nanoscale</i> , 2015 , 7, 4572-9	7.7	61
94	Organic Electronics: An Exciplex Forming Host for Highly Efficient Blue Organic Light Emitting Diodes with Low Driving Voltage (Adv. Funct. Mater. 3/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 342-342	15.6	1
93	Alternating current driven organic light emitting diodes using lithium fluoride insulating layers. <i>Scientific Reports</i> , 2014 , 4, 7559	4.9	18
92	Ultra-high sensitivity graphene photosensors. <i>Applied Physics Letters</i> , 2014 , 104, 041110	3.4	13
91	A direct and polymer-free method for transferring graphene grown by chemical vapor deposition to any substrate. <i>ACS Nano</i> , 2014 , 8, 1784-91	16.7	137
90	Highly efficient visible light photocatalytic reduction of CO2 to hydrocarbon fuels by Cu-nanoparticle decorated graphene oxide. <i>Nano Letters</i> , 2014 , 14, 6097-103	11.5	254
89	Soliton compression of the erbium-doped fiber laser weakly started mode-locking by nanoscale p-type Bi2Te3 topological insulator particles. <i>Laser Physics Letters</i> , 2014 , 11, 055107	1.5	114
88	Monolayer MoSe2 grown by chemical vapor deposition for fast photodetection. <i>ACS Nano</i> , 2014 , 8, 8582-8597	10.7	413
87	Correlation of the electronic structure of an interconnection unit with the device performance of tandem organic solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5450-5454	13	5
86	Semi-transparent Si-rich SixC1-x p-i-n photovoltaic solar cell grown by hydrogen-free PECVD. <i>RSC Advances</i> , 2014 , 4, 18397	3.7	10

85	New Molecular Donors with Dithienopyrrole as the Electron-Donating Group for Efficient Small-Molecule Organic Solar Cells. <i>Chemistry of Materials</i> , 2014 , 26, 4361-4367	9.6	45
84	Monolayer MoS ₂ heterojunction solar cells. <i>ACS Nano</i> , 2014 , 8, 8317-22	16.7	891
83	Comprehensive study of medium-bandgap conjugated polymer merging a fluorinated quinoxaline with branched side chains for highly efficient and air-stable polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20203-20212	13	15
82	The origins in the transformation of ambipolar to n-type pentacene-based organic field-effect transistors. <i>Organic Electronics</i> , 2014 , 15, 1759-1766	3.5	2
81	Effect of different p-dopants in an interconnection unit on the performance of tandem organic solar cells. <i>Organic Electronics</i> , 2014 , 15, 1805-1809	3.5	5
80	Formation of perfect ohmic contact at indium tin oxide/N,NQdi(naphthalene-1-yl)-N,NQdiphenyl-benzidine interface using ReO ₃ . <i>Scientific Reports</i> , 2014 , 4, 3902	4.9	41
79	Stability improvement of organic light emitting diodes by the insertion of hole injection materials on the indium tin oxide substrate. <i>Journal of Applied Physics</i> , 2014 , 115, 124510	2.5	9
78	Bridging donor-acceptor energy offset using organic dopants as energy ladders to improve open-circuit voltages in bulk-heterojunction solar cells. <i>Organic Electronics</i> , 2014 , 15, 3458-3464	3.5	12
77	Strategic Design of Three-Dimensional (3D) Urchin-Like PtNi Nanoalloys: How This Unique Nanostructure Boosts the Bulk Heterojunction Polymer Solar Cells Efficiency to 8.48%. <i>Chemistry of Materials</i> , 2014 , 26, 7029-7038	9.6	13
76	Metal-induced molecular diffusion in [6,6]-phenyl-C ₆₁ -butyric acid methyl ester poly(3-hexylthiophene) based bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , 2013 , 103, 183506	3.4	8
75	High-efficiency small-molecule-based organic light emitting devices with solution processes and oxadiazole-based electron transport materials. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10614-22	2.5	21
74	13% efficiency hybrid organic/silicon-nanowire heterojunction solar cell via interface engineering. <i>ACS Nano</i> , 2013 , 7, 10780-7	16.7	175
73	The effects of MoO ₃ treatment on inverted PBDTTT-C:PC71BM solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 119, 235-240	6.4	14
72	Enhancing the incorporation compatibility of molybdenum oxides in organic light emitting diodes with gap state formations. <i>Journal of Applied Physics</i> , 2013 , 114, 063710	2.5	14
71	Performance enhancement in inverted polymer photovoltaics with solution-processed MoO and air-plasma treatment for anode modification. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 178-184	6.4	26
70	Nano-Crystalline Silicon-Based Bottom Gate Thin-Film Transistor Grown by LTPECVD With Hydrogen-Free He Diluted $\{SiH\}_4$. <i>Journal of Display Technology</i> , 2013 , 9, 536-544		10
69	Solution-processed hexaazatriphenylene hexacarbonitrile as a universal hole-injection layer for organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 1204-1210	3.5	36
68	Characterization of gadolinium oxide thin films with CF ₄ plasma treatment for resistive switching memory applications. <i>Applied Surface Science</i> , 2013 , 276, 497-501	6.7	19

67	Improved corrosion resistance of GaN electrodes in NaCl electrolyte for photoelectrochemical hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 14433-14439	6.7	13
66	High density unaggregated Au nanoparticles on ZnO nanorod arrays function as efficient and recyclable photocatalysts for environmental purification. <i>Small</i> , 2013 , 9, 3169-82	11	103
65	Single-layer organic/inorganic-hybrid thin-film encapsulation for organic solar cells. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 435502	3	15
64	Single-Layer Blue Electrophosphorescent Organic Light-Emitting Diodes Based on Small-Molecule Mixed Hosts: Comparison between the Solution and Vacuum Fabrication Processes. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 012101	1.4	12
63	Self-amplitude and self-phase modulation of the charcoal mode-locked erbium-doped fiber lasers. <i>Optics Express</i> , 2013 , 21, 25184-96	3.3	19
62	Hybrid polarity and carrier injection of gold and gadolinium oxide bi-nanocrystals structure. <i>Applied Physics Letters</i> , 2013 , 102, 083507	3.4	1
61	Low-Power and High-Reliability Gadolinium Oxide Resistive Switching Memory with Remote Ammonia Plasma Treatment. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 04CD07	1.4	5
60	A Comparative Study on the Adsorption Behavior of Pentacene and Perfluoropentacene Molecules on Au(111) Surfaces. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 101601	1.4	11
59	SiC and Si Quantum Dots Co-Precipitated Si-Rich SiC Film with n- and p-Type Dopants Grown by Hydrogen-Free PECVD. <i>ECS Journal of Solid State Science and Technology</i> , 2013 , 2, N159-N164	2	5
58	Fabricating graphite nano-sheet powder by slow electrochemical exfoliation of large-scale graphite foil as a mode-locker for fiber lasers. <i>Optical Materials Express</i> , 2013 , 3, 1893	2.6	28
57	Comparison of light out-coupling enhancements in single-layer blue-phosphorescent organic light emitting diodes using small-molecule or polymer hosts. <i>Journal of Applied Physics</i> , 2013 , 114, 173106	2.5	7
56	Enhancements in device efficiency of poly(3-hexylthiophene): [6,6]-phenyl C61-butyric acid methyl ester based solar cells with incorporation of bathocuproine. <i>Thin Solid Films</i> , 2012 , 520, 5413-5416	2.2	4
55	Correlations of impedance/voltage characteristics and carrier mobility in organic light emitting diodes. <i>Organic Electronics</i> , 2012 , 13, 13-17	3.5	64
54	Self-assembled monolayer modification of silver source/drain electrodes for high-performance pentacene organic field-effect transistors. <i>Organic Electronics</i> , 2012 , 13, 593-598	3.5	16
53	. <i>IEEE Photonics Journal</i> , 2012 , 4, 1351-1364	1.8	6
52	Application of F4TCNQ doped spiro-MeOTAD in high performance solid state dye sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11689-94	3.6	74
51	Optimization of polymer light emitting devices using TiOx electron transport layers and prism sheets. <i>Organic Electronics</i> , 2012 , 13, 2667-2670	3.5	4
50	Self-aggregated Si quantum dots in amorphous Si-rich SiC. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2126-2129	3.9	14

49	A new model for optimization of organic light-emitting device by concurrent incorporation of electrical and optical simulations. <i>Journal of Applied Physics</i> , 2012 , 112, 084507	2.5	4
48	Probing surface band bending of surface-engineered metal oxide nanowires. <i>ACS Nano</i> , 2012 , 6, 9366-72	6.7	136
47	Large AuAg Alloy Nanoparticles Synthesized in Organic Media Using a One-Pot Reaction: Their Applications for High-Performance Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 3975-3984	15.6	74
46	Highly Transparent p-Type ZnO Thin Films Prepared by Non-Toxic Sol-Gel Process. <i>Electrochemical and Solid-State Letters</i> , 2012 , 15, H195		5
45	The investigation of the diffusion length of cathode materials in organic light emitting devices through impedance characteristics. <i>Applied Physics Letters</i> , 2012 , 100, 173302	3.4	7
44	Indium tin oxide sol-gel precursor conversion process using the third harmonics of Nd:YAG laser. <i>Applied Surface Science</i> , 2011 , 257, 10042-10044	6.7	4
43	Tuning energy levels in magnesium modified Alq3. <i>Journal of Applied Physics</i> , 2011 , 109, 083541	2.5	4
42	Investigations of efficiency improvements in poly(3-hexylthiophene) based organic solar cells using calcium cathodes. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3424-3427	6.4	22
41	A high performance inverted organic light emitting diode using an electron transporting material with low energy barrier for electron injection. <i>Organic Electronics</i> , 2011 , 12, 1763-1767	3.5	65
40	Finite Silicon Atom Diffusion Induced Size Limitation on Self-Assembled Silicon Quantum Dots in Silicon-Rich Silicon Carbide. <i>Journal of the Electrochemical Society</i> , 2011 , 159, K35-K41	3.9	31
39	Au nanoparticle modified GaN photoelectrode for photoelectrochemical hydrogen generation. <i>Electrochemistry Communications</i> , 2011 , 13, 530-533	5.1	14
38	Improvements of electron injection efficiency using subphthalocyanine mixed with lithium fluoride in cathode structures of organic light emitting diodes. <i>Organic Electronics</i> , 2011 , 12, 562-565	3.5	9
37	Enhancement of current injection in organic light emitting diodes with sputter treated molybdenum oxides as hole injection layers. <i>Applied Physics Letters</i> , 2011 , 98, 173302	3.4	28
36	Zero Dipole Formation at HfGdO/SiO2 Interface by Hf/Gd Dual-Sputtered Method. <i>Journal of the Electrochemical Society</i> , 2011 , 158, H502	3.9	7
35	Correlation of energy band alignment and turn-on voltage in organic light emitting diodes. <i>Applied Physics Letters</i> , 2010 , 96, 013301	3.4	20
34	Interfacial Reactions and Doping in Organic Light Emitting Diodes Incorporated with Cesium-Based Compounds. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, H203		3
33	Influences of evaporation temperature on electronic structures and electrical properties of molybdenum oxide in organic light emitting devices. <i>Journal of Applied Physics</i> , 2010 , 107, 053703	2.5	23
32	Enhancement of current injection in inverted organic light emitting diodes with thermal annealing. <i>Journal of Applied Physics</i> , 2010 , 108, 103714	2.5	14

31	Formation of gap states and enhanced current injection efficiency in organic light emitting diodes incorporated with subphthalocyanine. <i>Organic Electronics</i> , 2010 , 11, 445-449	3.5	17
30	Effectiveness of tris(8-Hydroxyquinoline)aluminum doped with cesium-derivatives in organic light-emitting diodes. <i>Thin Solid Films</i> , 2010 , 518, 3942-3944	2.2	6
29	Morphological evolution of the poly(3-hexylthiophene)/[6,6]-phenyl-C61-butyric acid methyl ester, oxidation of the silver electrode, and their influences on the performance of inverted polymer solar cells with a sol-gel derived zinc oxide electron selective layer. <i>Thin Solid Films</i> , 2010 , 518, 4964-4969	2.2	23
28	Enhancement in current efficiency in organic light-emitting diodes with incorporation of subphthalocyanine. <i>Applied Physics Letters</i> , 2009 , 95, 133302	3.4	18
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