

# Chih-I Wu

## List of Publications by Year in descending order

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185  
papers

9,316  
citations

53794

45  
h-index

42399

92  
g-index

185  
all docs

185  
docs citations

185  
times ranked

13930  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dielectric barrier discharge jet processed TiO <sub>2</sub> nanoparticle layer for flexible perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 034003.	2.8	8
2	Low-temperature synthesis of high-quality graphene by controlling the carbon-hydrogen ratio of the precursor. <i>Nano Express</i> , 2022, 3, 015003.	2.4	3
3	Boosting photocatalytic CO <sub>2</sub> reduction in a ZnS/ZnIn <sub>2</sub> S <sub>4</sub> heterostructure through strain-induced direct Z-scheme and a mechanistic study of molecular CO <sub>2</sub> interaction thereon. <i>Nano Energy</i> , 2022, 93, 106809.	16.0	110
4	Enhancing the Performance of Quasi-2D Perovskite Light-Emitting Diodes Using Natural Cyclic Molecules with Distinct Phase Regulation Behaviors. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 9587-9596.	8.0	6
5	A Facile, Fabric Compatible, and Flexible Borophene Nanocomposites for Self-Powered Smart Assistive and Wound Healing Applications. <i>Advanced Science</i> , 2022, 9, .	11.2	19
6	Transparent and Flexible Inorganic Perovskite Photonic Artificial Synapses with Dual-Mode Operation. <i>Advanced Functional Materials</i> , 2021, 31, 2008259.	14.9	83
7	Enhanced Electrical Performance of Van der Waals Heterostructure. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001850.	3.7	5
8	Through-Space Exciton Delocalization in Segregated HJ-Crystalline Molecular Aggregates. <i>Journal of Physical Chemistry A</i> , 2021, 125, 943-953.	2.5	7
9	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.	5.1	26
10	High On-State Current in Chemical Vapor Deposited Monolayer MoS <sub>2</sub> nFETs With Sn Ohmic Contacts. <i>IEEE Electron Device Letters</i> , 2021, 42, 272-275.	3.9	38
11	Atomic-Layer Controlled Interfacial Band Engineering at Two-Dimensional Layered PtSe <sub>2</sub> /Si Heterojunctions for Efficient Photoelectrochemical Hydrogen Production. <i>ACS Nano</i> , 2021, 15, 4627-4635.	14.6	27
12	Ultrathin amorphous Ge film enabling stabilized femtosecond fiber laser pulsation. <i>Optics and Laser Technology</i> , 2021, 136, 106761.	4.6	8
13	Organic Lead Halide Nanocrystals Providing an Ultra-Wide Color Gamut with Almost-Unity Photoluminescence Quantum Yield. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 25202-25213.	8.0	11
14	Ultralow contact resistance between semimetal and monolayer semiconductors. <i>Nature</i> , 2021, 593, 211-217.	27.8	579
15	Enhancement of Mobility and Modulation of Carrier Concentration in Graphene Field-Effect Transistors via Molecular Doping. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100748.	3.7	4
16	A highly responsive hybrid photodetector based on all-inorganic 2D heterojunction consisting of Cs <sub>2</sub> Pb(SCN) <sub>2</sub> Br <sub>2</sub> and MoS <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2021, 422, 130112.	12.7	12
17	The Influence of Helium Dielectric Barrier Discharge Jet (DBDjet) Plasma Treatment on Bathocuproine (BCP) in p-i-n-Structure Perovskite Solar Cells. <i>Polymers</i> , 2021, 13, 4020.	4.5	1
18	Antimony Semimetal Contact with Enhanced Thermal Stability for High Performance 2D Electronics. , 2021, , .		28

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19	Giant Electroresistance Switching of Two-dimensional Ferroelectric $\pm$ -In <sub>2</sub> Se <sub>3</sub> on p+-Si. , 2020, , .		0
20	Forming a Free, Nonvolatile, and Flexible Resistive Random Access Memory Using Bismuth Iodide/van der Waals Materials Heterostructures. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001146.	3.7	13
21	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.	3.7	6
22	Interlayer Charge Transfer Coupled with Acoustic Phonon in Organic/Inorganic van der Waals Stacked Heterostructures: Self-Assembled Pt(II) Complex on a PtSe <sub>2</sub> Monolayer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25538-25546.	3.1	3
23	Direct large-area growth of graphene on silicon for potential ultra-low-friction applications and silicon-based technologies. <i>Nanotechnology</i> , 2020, 31, 335602.	2.6	10
24	Highly Emissive Dinuclear Platinum(III) Complexes. <i>Journal of the American Chemical Society</i> , 2020, 142, 7469-7479.	13.7	76
25	Delayed Charge Recombination by Open Shell Organics: Its Application in Achieving Superb Photodetectors with Broadband (400–1160 nm) Ultrahigh Sensitivity and Stability. <i>Advanced Optical Materials</i> , 2020, 8, 1902179.	7.3	7
26	KSCN-induced Interfacial Dipole in Black TiO <sub>2</sub> for Enhanced Photocatalytic CO <sub>2</sub> Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 25186-25194.	8.0	54
27	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.	3.1	13
28	The Advanced Thin Film Micro LED Array. , 2019, , .		0
29	Near-Infrared Emission Induced by Shortened Pt–Pt Contact: Diplatinum(II) Complexes with Pyridyl Pyrimidinato Cyclometalates. <i>Inorganic Chemistry</i> , 2019, 58, 13892-13901.	4.0	40
30	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, 123, 12722-12729.	3.1	7
31	High-Quality Conformal Homogeneous All-Vacuum Deposited CsPbCl <sub>3</sub> Thin Films and Their UV Photodiode Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47054-47062.	8.0	40
32	Ultrasensitive Photoresponsive Devices Based on Graphene/Bil <sub>3</sub> van der Waals Epitaxial Heterostructures. <i>Advanced Functional Materials</i> , 2018, 28, 1800179.	14.9	44
33	Surface modification of graphene using HBC-6ImBr in solution-processed OLEDs. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	3
34	Artificial Photosynthesis: Ni Nanocluster Modified Black TiO <sub>2</sub> with Dual Active Sites for Selective Photocatalytic CO <sub>2</sub> Reduction (Small 2/2018). <i>Small</i> , 2018, 14, 1870008.	10.0	3
35	Biodegradable Electronic Systems in 3D, Heterogeneously Integrated Formats. <i>Advanced Materials</i> , 2018, 30, 1704955.	21.0	72
36	Carbon-doped SnS <sub>2</sub> nanostructure as a high-efficiency solar fuel catalyst under visible light. <i>Nature Communications</i> , 2018, 9, 169.	12.8	350

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37	SiGeC Waveguide for All-Optical Data Switching. ACS Photonics, 2018, 5, 2251-2260.	6.6	15
38	Flexible Electronics: Biodegradable Electronic Systems in 3D, Heterogeneously Integrated Formats (Adv. Mater. 11/2018). Advanced Materials, 2018, 30, 1870077.	21.0	2
39	Ge-Rich SiGe Mode-Locker for Erbium-Doped Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-10.	2.9	4
40	Ni@Nanocluster Modified Black TiO <sub>2</sub> with Dual Active Sites for Selective Photocatalytic CO <sub>2</sub> Reduction. Small, 2018, 14, 1702928.	10.0	116
41	Realizing multi-functional all-optical data processing on nanoscale SiC waveguides. Scientific Reports, 2018, 8, 14859.	3.3	14
42	Cytotoxicity and in Vitro Degradation Kinetics of Foundry-Compatible Semiconductor Nanomembranes and Electronic Microcomponents. ACS Nano, 2018, 12, 9721-9732.	14.6	18
43	Ultralow-contact-resistance graphene field-effect transistors fabricated with P-type solution doping. Applied Physics Express, 2018, 11, 075102.	2.4	3
44	Van Der Waals Epitaxy: Ultrasensitive Photoresponsive Devices Based on Graphene/Bil3 van der Waals Epitaxial Heterostructures (Adv. Funct. Mater. 23/2018). Advanced Functional Materials, 2018, 28, 1870160.	14.9	1
45	Solution processable mixed-solvent exfoliated MoS <sub>2</sub> nanosheets for efficient and robust organic light-emitting diodes. AIP Advances, 2018, 8, 045006.	1.3	8
46	Amino-Acid-Induced Preferential Orientation of Perovskite Crystals for Enhancing Interfacial Charge Transfer and Photovoltaic Performance. Small, 2017, 13, 1604305.	10.0	103
47	A paper-based electrode using a graphene dot/PEDOT:PSS composite for flexible solar cells. Nano Energy, 2017, 36, 260-267.	16.0	135
48	Ultrahigh Responsivity and Detectivity Graphene@Perovskite Hybrid Phototransistors by Sequential Vapor Deposition. Scientific Reports, 2017, 7, 46281.	3.3	61
49	Improved efficiency of organic light-emitting diodes with self-assembled molybdenum oxide hole injection layers. Journal of Applied Physics, 2017, 121, 195501.	2.5	2
50	Atomic-Scale Structural and Chemical Characterization of Hexagonal Boron Nitride Layers Synthesized at the Wafer-Scale with Monolayer Thickness Control. Chemistry of Materials, 2017, 29, 4700-4707.	6.7	36
51	Boosting thin-film perovskite solar cell efficiency through vacuum-deposited sub-nanometer small-molecule electron interfacial layers. Nano Energy, 2017, 38, 66-71.	16.0	34
52	Investigating and optimizing charge transfer between graphene and metal by using double layer electrode and polymer-free transfer method. Materials Research Express, 2017, 4, 065602.	1.6	4
53	Highly Sensitive Graphene@Semiconducting Polymer Hybrid Photodetectors with Millisecond Response Time. ACS Photonics, 2017, 4, 2335-2344.	6.6	25
54	Two-Photon Absorption-Free Ultrafast Optical Switching in Carbon-Rich SiC <sub>1-x</sub> Microring. Advanced Materials Technologies, 2017, 2, 1700095.	5.8	14

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55	Germanium-doped Metallic Ohmic Contacts in Black Phosphorus Field-Effect Transistors with Ultra-low Contact Resistance. <i>Scientific Reports</i> , 2017, 7, 16857.	3.3	16
56	Stabilization of hybrid perovskite $\text{CH}_3\text{NH}_3\text{PbI}_3$ thin films by graphene passivation. <i>Nanoscale</i> , 2017, 9, 19227-19235.	5.6	15
57	Band Alignment of 2D Transition Metal Dichalcogenide Heterojunctions. <i>Advanced Functional Materials</i> , 2017, 27, 1603756.	14.9	74
58	Data Retention Characterization of Gate-Injected Gold-Nanoparticle Non-Volatile Memory with Low-Damage $\text{CF}_4$ -Plasma-Treated Blocking Oxide Layer. <i>Nanomaterials</i> , 2017, 7, 385.	4.1	1
59	Rear interface engineering of hybrid organic-silicon nanowire solar cells via blade coating. <i>Optics Express</i> , 2016, 24, A414.	3.4	9
60	Growing GaN LEDs on amorphous SiC buffer with variable C/Si compositions. <i>Scientific Reports</i> , 2016, 6, 19757.	3.3	26
61	Spectroscopic studies of the physical origin of environmental aging effects on doped graphene. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	8
62	Solution p-doped fluorescent polymers for enhanced charge transport of hybrid organic-silicon nanowire photovoltaics. <i>Organic Electronics</i> , 2016, 34, 246-253.	2.6	5
63	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.	3.6	25
64	An energy-efficient nonvolatile microprocessor considering software-hardware interaction for energy harvesting applications. , 2016, , .		9
65	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.	2.9	7
66	Easy Access to $\text{NO}_2$ -Containing Donor-Acceptor-Acceptor Electron Donors for High Efficiency Small-Molecule Organic Solar Cells. <i>ChemSusChem</i> , 2016, 9, 1433-1441.	6.8	18
67	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.	2.1	6
68	Stoichiometry detuned silicon carbide as an orange and white light band solid-state phosphor. <i>RSC Advances</i> , 2016, 6, 7121-7128.	3.6	4
69	Enriching Si quantum dots in a Si-rich $\text{SiN}_x$ matrix for strong $\chi^{(3)}$ optical nonlinearity. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1405-1413.	5.5	32
70	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.	1.8	22
71	Catalytically solid-phase self-organization of nanoporous SnS with optical depolarizability. <i>Nanoscale</i> , 2016, 8, 4579-4587.	5.6	8
72	Si-rich $\text{SiN}_x$ based Kerr switch enables optical data conversion up to 12 Gbit/s. <i>Scientific Reports</i> , 2015, 5, 9611.	3.3	63

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73	A Fully Transparent Resistive Memory for Harsh Environments. <i>Scientific Reports</i> , 2015, 5, 15087.	3.3	17
74	Can silicon carbide serve as a saturable absorber for passive mode-locked fiber lasers?. <i>Scientific Reports</i> , 2015, 5, 16463.	3.3	13
75	A Flexible, Stretchable and Shape-Adaptive Approach for Versatile Energy Conversion and Self-Powered Biomedical Monitoring. <i>Advanced Materials</i> , 2015, 27, 3817-3824.	21.0	227
76	Using n- and p-Type Bi <sub>2</sub> Te <sub>3</sub> Topological Insulator Nanoparticles To Enable Controlled Femtosecond Mode-Locking of Fiber Lasers. <i>ACS Photonics</i> , 2015, 2, 481-490.	6.6	197
77	Composition ratio dependent refractive index and optical bandgap of nonstoichiometric Si <sub>1-x</sub> Ge <sub>x</sub> on silicon. , 2015, , .		0
78	Nearly warm white-light emission of silicon-rich amorphous silicon carbide. <i>RSC Advances</i> , 2015, 5, 105239-105247.	3.6	8
79	Charge storage characteristics of nonvolatile memories with chemically-synthesized and vacuum-deposited gold nanoparticles. <i>Current Applied Physics</i> , 2015, 15, 535-540.	2.4	4
80	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, 4572-4579.	5.6	68
81	Organic Electronics: An Exciplex Forming Host for Highly Efficient Blue Organic Light Emitting Diodes with Low Driving Voltage ( <i>Adv. Funct. Mater.</i> 3/2015). <i>Advanced Functional Materials</i> , 2015, 25, 342-342.	14.9	1
82	Enhancing Optical Nonlinearity in a Nonstoichiometric SiN Waveguide for Cross-Wavelength All-Optical Data Processing. <i>ACS Photonics</i> , 2015, 2, 1141-1154.	6.6	72
83	Graphene Anodes and Cathodes: Tuning the Work Function of Graphene by Nearly 2 eV with an Aqueous Intercalation Process. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 17155-17161.	8.0	40
84	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 &amp; Interfaces</i> , 2015, 7, 6683-6689.	8.0	3
85	Solution-processed transparent blue organic light-emitting diodes with graphene as the top cathode. <i>Scientific Reports</i> , 2015, 5, 9693.	3.3	54
86	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.	3.1	36
87	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.	16.0	97
88	Strong optical nonlinearity of the nonstoichiometric silicon carbide. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10164-10176.	5.5	47
89	Semi-transparent silicon-rich silicon carbide photovoltaic solar cells. <i>RSC Advances</i> , 2015, 5, 36262-36269.	3.6	9
90	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.	14.9	267

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91	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
92	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.	2.6	13
93	Strategic Design of Three-Dimensional (3D) Urchin-Like Pt-Ni 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.	6.7	13
94	Ultra-high sensitivity graphene photosensors. <i>Applied Physics Letters</i> , 2014, 104, 041110.	3.3	16
95	A Direct and Polymer-Free Method for Transferring Graphene Grown by Chemical Vapor Deposition to Any Substrate. <i>ACS Nano</i> , 2014, 8, 1784-1791.	14.6	155
96	Highly Efficient Visible Light Photocatalytic Reduction of CO <sub>2</sub> to Hydrocarbon Fuels by Cu-Nanoparticle Decorated Graphene Oxide. <i>Nano Letters</i> , 2014, 14, 6097-6103.	9.1	312
97	Soliton compression of the erbium-doped fiber laser weakly started mode-locking by nanoscale p-type Bi <sub>2</sub> Te <sub>3</sub> topological insulator particles. <i>Laser Physics Letters</i> , 2014, 11, 055107.	1.4	125
98	Monolayer MoSe <sub>2</sub> Grown by Chemical Vapor Deposition for Fast Photodetection. <i>ACS Nano</i> , 2014, 8, 8582-8590.	14.6	515
99	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.	10.3	5
100	Semi-transparent Si-rich Si <sub>x</sub> C <sub>1-x</sub> photovoltaic solar cell grown by hydrogen-free PECVD. <i>RSC Advances</i> , 2014, 4, 18397.	3.6	12
101	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.	6.7	54
102	Monolayer MoS <sub>2</sub> Heterojunction Solar Cells. <i>ACS Nano</i> , 2014, 8, 8317-8322.	14.6	1,081
103	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.	10.3	17
104	The origins in the transformation of ambipolar to n-type pentacene-based organic field-effect transistors. <i>Organic Electronics</i> , 2014, 15, 1759-1766.	2.6	3
105	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.	2.6	6
106	Formation of perfect ohmic contact at indium tin oxide/N,N'-di(naphthalene-1-yl)-N,N'-diphenyl-benzidine interface using ReO <sub>3</sub> . <i>Scientific Reports</i> , 2014, 4, 3902.	3.3	47
107	Alternating Current Driven Organic Light Emitting Diodes Using Lithium Fluoride Insulating Layers. <i>Scientific Reports</i> , 2014, 4, 7559.	3.3	26
108	Metal-induced molecular diffusion in [6,6]-phenyl-C <sub>61</sub> -butyric acid methyl ester poly(3-hexylthiophene) based bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , 2013, 103, 183506.	3.3	8

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109	High-Efficiency Small-Molecule-Based Organic Light Emitting Devices with Solution Processes and Oxadiazole-Based Electron Transport Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 10614-10622.	8.0	24
110	13% Efficiency Hybrid Organic/Silicon-Nanowire Heterojunction Solar Cell <i>via</i> Interface Engineering. <i>ACS Nano</i> , 2013, 7, 10780-10787.	14.6	194
111	The effects of MoO <sub>3</sub> treatment on inverted PBDTTT-C:PC71BM solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 119, 235-240.	6.2	14
112	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	16
113	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.	6.2	28
114	Nano-Crystalline Silicon-Based Bottom Gate Thin-Film Transistor Grown by LTPECVD With Hydrogen-Free He Diluted $\text{SiH}_4$ . <i>Journal of Display Technology</i> , 2013, 9, 536-544.	1.2	11
115	Solution-processed hexaazatriphenylene hexacarbonitrile as a universal hole-injection layer for organic light-emitting diodes. <i>Organic Electronics</i> , 2013, 14, 1204-1210.	2.6	44
116	Characterization of gadolinium oxide thin films with CF <sub>4</sub> plasma treatment for resistive switching memory applications. <i>Applied Surface Science</i> , 2013, 276, 497-501.	6.1	21
117	Improved corrosion resistance of GaN electrodes in NaCl electrolyte for photoelectrochemical hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14433-14439.	7.1	14
118	High Density Unaggregated Au Nanoparticles on ZnO Nanorod Arrays Function as Efficient and Recyclable Photocatalysts for Environmental Purification. <i>Small</i> , 2013, 9, 3169-3182.	10.0	114
119	Single-layer organic-inorganic-hybrid thin-film encapsulation for organic solar cells. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 435502.	2.8	16
120	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.	1.5	15
121	Self-amplitude and self-phase modulation of the charcoal mode-locked erbium-doped fiber lasers. <i>Optics Express</i> , 2013, 21, 25184.	3.4	23
122	Hybrid polarity and carrier injection of gold and gadolinium oxide bi-nanocrystals structure. <i>Applied Physics Letters</i> , 2013, 102, 083507.	3.3	2
123	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.	1.5	6
124	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.	1.5	13
125	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.	1.8	8
126	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.	3.0	31



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127	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	8
128	Highly Transparent p-Type ZnO Thin Films Prepared by Non-Toxic Sol-Gel Process. <i>Electrochemical and Solid-State Letters</i> , 2012, 15, H195.	2.2	7
129	The investigation of the diffusion length of cathode materials in organic light emitting devices through impedance characteristics. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	8
130	Transient UV and Visible Luminescent Dynamics of Si-Rich $\text{SiO}_x$ Metal-Oxide-Semiconductor Light-Emitting Diodes. <i>IEEE Photonics Journal</i> , 2012, 4, 1351-1364.	2.0	9
131	Application of F4TCNQ doped spiro-MeOTAD in high performance solid state dye sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11689.	2.8	75
132	Optimization of polymer light emitting devices using TiOx electron transport layers and prism sheets. <i>Organic Electronics</i> , 2012, 13, 2667-2670.	2.6	4
133	Self-aggregated Si quantum dots in amorphous Si-rich SiC. <i>Journal of Non-Crystalline Solids</i> , 2012, 358, 2126-2129.	3.1	15
134	Inverted OLEDs for flexible displays. <i>Proceedings of SPIE</i> , 2012, , .	0.8	0
135	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, .	2.5	4
136	Probing Surface Band Bending of Surface-Engineered Metal Oxide Nanowires. <i>ACS Nano</i> , 2012, 6, 9366-9372.	14.6	149
137	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.	14.9	82
138	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.	1.8	4
139	Correlations of impedance-voltage characteristics and carrier mobility in organic light emitting diodes. <i>Organic Electronics</i> , 2012, 13, 13-17.	2.6	76
140	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.	2.6	17
141	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.	2.9	36
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