Jing-Jong Shyue

List of Publications by Year in Descending Order

166 papers	3,840 citations	36 h-index	51 g-index
171 ext. papers	4,349 ext. citations	7.8 avg, IF	5.16 L-index

#	Paper	IF	Citations
166	Chemical Polishing of Perovskite Surface Enhances Photovoltaic Performances.. *Journal of the American Chemical Society*, **2022**,	16.4	11
165	Atomic layer annealing for modulation of the work function of TiN metal gate for n-type MOS devices. *Applied Surface Science*, **2022**, 585, 152748	6.7	1
164	Cesium Lead Halide Perovskite Nanocrystals Assembled in Metal-Organic Frameworks for Stable Blue Light Emitting Diodes.. *Advanced Science*, **2022**, e2105850	13.6	1
163	Seed-Assisted Growth of Methylammonium-Free Perovskite for Efficient Inverted Perovskite Solar Cells.. *Small Methods*, **2022**, e2200048	12.8	1
162	Coupling Lipid Labeling and Click Chemistry Enables Isolation of Extracellular Vesicles for Noninvasive Detection of Oncogenic Gene Alterations.. *Advanced Science*, **2022**, e2105853	13.6	3
161	Conformal atomic layer etching for Ge based on sacrificial oxide with higher Gibbs free energy of formation. *Surfaces and Interfaces*, **2022**, 30, 101893	4.1	
160	Improving Thermal and Photostability of Polymer Solar Cells by Robust Interface Engineering.. *Small*, **2022**, e2107834	11	1
159	Large area and rapid electron beam annealing for high-quality epitaxial GaN layer. *Materials Research Bulletin*, **2022**, 153, 111903	5.1	
158	Slow Passivation and Inverted Hysteresis for Hybrid Tin Perovskite Solar Cells Attaining 13.5% via Sequential Deposition. *Journal of Physical Chemistry Letters*, **2021**, 12, 10106-10111	6.4	14
157	Heterocyclic-Additive-Activated Dinuclear Dysprosium Electrocatalysts for Heterogeneous Water Oxidation. *Inorganic Chemistry*, **2021**, 60, 6930-6938	5.1	0
156	Atomic Layer Nucleation Engineering: Inhibitor-Free Area-Selective Atomic Layer Deposition of Oxide and Nitride. *Chemistry of Materials*, **2021**, 33, 5584-5590	9.6	3
155	Chloride gradient render carrier extraction of hole transport layer for high Voc and efficient inverted organometal halide perovskite solar cell. *Chemical Engineering Journal*, **2021**, 409, 128100	14.7	5
154	Perfluorinated ionomer and poly(3,4-ethylenedioxythiophene) colloid as a hole transporting layer for optoelectronic devices. *Journal of Materials Chemistry A*, **2021**, 9, 17967-17977	13	4
153	The adsorption of anionic [Ptx(CO)y]n□clusters on an Au(111) electrode and its oxidative conversion to an atomic Pt adlayer. *Electrochimica Acta*, **2021**, 369, 137693	6.7	
152	Robust Unencapsulated Perovskite Solar Cells Protected by a Fluorinated Fullerene Electron Transporting Layer. *ACS Energy Letters*, **2021**, 6, 3376-3385	20.1	8
151	Sandwich Evaporation-Solvent Annealing Fabrication of Highly Crystalline MAPbICl Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 45355-45364	9.5	1
150	Atomic layer deposited TiN capping layer for sub-10 nm ferroelectric Hf0.5Zr0.5O2 with large remnant polarization and low thermal budget. *Applied Surface Science*, **2021**, 570, 151152	6.7	1

149	Formamide iodide: a new cation additive for inhibiting □phase formation of formamidinium lead iodide perovskite. *Materials Advances*, **2021**, 2, 2272-2277	3.3	2
148	Acetamidinium Cation to Confer Ion Immobilization and Structure Stabilization of Organometal Halide Perovskite Toward Long Life and High-Efficiency p-i-n Planar Solar Cell via Air-Processable Method. *Solar Rrl*, **2020**, 4, 2000197	7.1	5
147	Atomic Layer Densification of AlN Passivation Layer on Epitaxial Ge for Enhancement of Reliability and Electrical Performance of High-K Gate Stacks. *ACS Applied Electronic Materials*, **2020**, 2, 891-897	4	2
146	Validated Analysis of Component Distribution Inside Perovskite Solar Cells and Its Utility in Unveiling Factors of Device Performance and Degradation. *ACS Applied Materials & Interfaces*, **2020**, 12, 22730-22740	9.5	11
145	Engineering Antifouling and Antibacterial Stainless Steel for Orthodontic Appliances through Layer-by-Layer Deposition of Nanocomposite Coatings.. *ACS Applied Bio Materials*, **2020**, 3, 486-494	4.1	7
144	Enhanced thermoelectric properties of atomic-layer-deposited Hf:Zn16O/18O superlattice films by interface-engineering. *Ceramics International*, **2020**, 46, 7122-7130	5.1	5
143	Low Nickel-doped copper as the electrocatalyst for oxidation of formaldehyde and evolution of hydrogen. *Electrochimica Acta*, **2020**, 333, 135542	6.7	1
142	Perfluoro-Functionalized Conducting Polymers Enhance Electrocatalytic Oxygen Reduction. *ACS Applied Energy Materials*, **2020**, 3, 1171-1180	6.1	2
141	Growth process control produces high-crystallinity and complete-reaction perovskite solar cells.. *RSC Advances*, **2020**, 10, 35898-35905	3.7	4
140	Fast growth of large-grain and continuous MoS films through a self-capping vapor-liquid-solid method. *Nature Communications*, **2020**, 11, 3682	17.4	36
139	In situ unraveling of the effect of the dynamic chemical state on selective CO reduction upon zinc electrocatalysts. *Nanoscale*, **2020**, 12, 18013-18021	7.7	5
138	Acetamidinium Cation to Confer Ion Immobilization and Structure Stabilization of Organometal Halide Perovskite Toward Long Life and High-Efficiency p-i-n Planar Solar Cell via Air-Processable Method. *Solar Rrl*, **2020**, 4, 2070092	7.1	
137	Work-Function-Tunable Electron Transport Layer of Molecule-Capped Metal Oxide for a High-Efficiency and Stable p-i-n Perovskite Solar Cell. *ACS Applied Materials & Interfaces*, **2020**, 12, 45936-45949	9.5	14
136	Superior Stability and Emission Quantum Yield (23% □ 3%) of Single-Layer 2D Tin Perovskite TEA SnI via Thiocyanate Passivation. *Small*, **2020**, 16, e2000903	11	8
135	High-Safety and High-Energy-Density Lithium Metal Batteries in a Novel Ionic-Liquid Electrolyte. *Advanced Materials*, **2020**, 32, e2001741	24	81
134	Suppression of GeO interfacial layer and enhancement of the electrical performance of the high-gate stack by the atomic-layer-deposited AlN buffer layer on Ge metal-oxide-semiconductor devices.. *RSC Advances*, **2019**, 9, 592-598	3.7	4
133	Plausible degradation mechanisms in organic light-emitting diodes. *Organic Electronics*, **2019**, 67, 222-234	3.5	8
132	Enhancing the Catalytic Activity of Tri-iodide Reduction by Tuning the Surface Electronic Structure of PtPd Alloy Nanocrystals. *Journal of Physical Chemistry C*, **2019**,	3.8	6

131	Effect of energy per atom (E/n) on the Ar gas cluster ion beam (Ar-GCIB) and O cosputter process. *Analyst, The*, **2019**, 144, 3323-3333	5	3
130	Covalent chemistry on nanostructured substrates enables noninvasive quantification of gene rearrangements in circulating tumor cells. *Science Advances*, **2019**, 5, eaav9186	14.3	25
129	Fabricating copper and copper/nickel alloy single crystal bead electrodes with a hydrogen□oxygen torch in ambient air. *Electrochemistry Communications*, **2019**, 109, 106563	5.1	5
128	Random and aligned electrospun PLGA nanofibers embedded in microfluidic chips for cancer cell isolation and integration with air foam technology for cell release. *Journal of Nanobiotechnology*, **2019**, 17, 31	9.4	20
127	Highly active oxygen evolution integrated with efficient CO to CO electroreduction. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 23915-23922	11.5	33
126	Nanoscale GaN Epilayer Grown by Atomic Layer Annealing and Epitaxy at Low Temperature. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 487-495	8.3	17
125	Construction of Schottky junction solar cell using silicon nanowires and multi-layered graphene. *Superlattices and Microstructures*, **2019**, 126, 42-48	2.8	10
124	Back Migration Based Long Lifetime Approach for Organic Light-Emitting Diode. *Physica Status Solidi (A) Applications and Materials Science*, **2019**, 216, 1800390	1.6	
123	Solar Cells: PtCoFe Nanowire Cathodes Boost Short-Circuit Currents of Ru(II)-Based Dye-Sensitized Solar Cells to a Power Conversion Efficiency of 12.29% (Adv. Funct. Mater. 3/2018). *Advanced Functional Materials*, **2018**, 28, 1870020	15.6	
122	Monolayer Semiconductors: Electron Field Emission of Geometrically Modulated Monolayer Semiconductors (Adv. Funct. Mater. 7/2018). *Advanced Functional Materials*, **2018**, 28, 1870046	15.6	1
121	Integration of paper-based microarray and time-of-flight secondary ion mass spectrometry (ToF-SIMS) for parallel detection and quantification of molecules in multiple samples automatically. *Analytica Chimica Acta*, **2018**, 1005, 61-69	6.6	4
120	Electron Field Emission of Geometrically Modulated Monolayer Semiconductors. *Advanced Functional Materials*, **2018**, 28, 1706113	15.6	17
119	Assessment of the Effects of Surface Potential on the Kinetics of HEK293T Cell Adhesion Behavior Using a Quartz Crystal Microbalance with Dissipation Monitoring. *Journal of Physical Chemistry C*, **2018**, 122, 694-704	3.8	3
118	PtCoFe Nanowire Cathodes Boost Short-Circuit Currents of Ru(II)-Based Dye-Sensitized Solar Cells to a Power Conversion Efficiency of 12.29%. *Advanced Functional Materials*, **2018**, 28, 1703282	15.6	45
117	Catalytic metal-induced crystallization of sol□gel metal oxides for high-efficiency flexible perovskite solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 16450-16457	13	12
116	Improved Solar-Driven Photocatalytic Performance of Highly Crystalline Hydrogenated TiO Nanofibers with Core-Shell Structure. *Scientific Reports*, **2017**, 7, 40896	4.9	34
115	DFT mechanistic study of the selective terminal C□H activation of n -pentane with a tungsten allyl nitrosyl complex. *Journal of Saudi Chemical Society*, **2017**, 21, 558-562	4.3	3
114	Emissive nanotubes from templated self-assembly of small molecules. *Chemical Physics Letters*, **2017**, 683, 43-48	2.5	5

113	Demonstration of enhanced carrier transport, charge separation, and long-term stability for photocatalytic water splitting by a rapid hot pressing process. *Journal of Materials Chemistry A*, **2017**, 5, 10687-10695	13	7
112	High efficiency yellow organic light-emitting diodes with a solution-process feasible iridium based emitter. *Journal of Materials Chemistry C*, **2017**, 5, 5478-5486	7.1	13
111	Ag@Au nanoprism-metal organic framework-based paper for extending the glucose sensing range in human serum and urine. *Dalton Transactions*, **2017**, 46, 6985-6993	4.3	23
110	Mesoporous Silica Promoted Deposition of Bioinspired Polydopamine onto Contrast Agent: A Universal Strategy to Achieve Both Biocompatibility and Multiple Scale Molecular Imaging. *Particle and Particle Systems Characterization*, **2017**, 34, 1600415	3.1	12
109	3D In Situ ToF-SIMS Imaging of Perovskite Films under Controlled Humidity Environmental Conditions. *Advanced Materials Interfaces*, **2017**, 4, 1600673	4.6	25
108	Effect of Surface Potential on the Adhesion Behavior of NIH3T3 Cells Revealed by Quartz Crystal Microbalance with Dissipation Monitoring (QCM-D). *Journal of Physical Chemistry C*, **2017**, 121, 533-541	3.8	20
107	Poly(3,4-ethylenedioxythiophene)-Based Nanofiber Mats as an Organic Bioelectronic Platform for Programming Multiple Capture/Release Cycles of Circulating Tumor Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 30329-30342	9.5	30
106	Interpenetration of CHNHPbI and TiO improves perovskite solar cells while TiO expansion leads to degradation. *Physical Chemistry Chemical Physics*, **2017**, 19, 21407-21413	3.6	6
105	Mechanical properties and microstructure of Zr-Ti-Ni thin film metallic glasses modified with minor SF6. *Composites Part B: Engineering*, **2017**, 129, 243-250	10	7
104	Silver nanoprism-based paper as a ratiometric sensor for extending biothiol detection in serum. *New Journal of Chemistry*, **2017**, 41, 15120-15126	3.6	3
103	Exploitation of a spontaneous spatial charge separation effect in plasmonic polyhedral □-Fe2O3 nanocrystal photoelectrodes for hydrogen production. *Nano Energy*, **2016**, 30, 523-530	17.1	12
102	Tri-iodide Reduction Activity of Shape- and Composition-Controlled PtFe Nanostructures as Counter Electrodes in Dye-Sensitized Solar Cells. *Chemistry of Materials*, **2016**, 28, 2110-2119	9.6	46
101	Effect of surface potential on epithelial cell adhesion, proliferation and morphology. *Colloids and Surfaces B: Biointerfaces*, **2016**, 141, 179-186	6	28
100	Improvement of the gas cluster ion beam-(GCIB)-based molecular secondary ion mass spectroscopy (SIMS) depth profile with O2(+) cosputtering. *Analyst, The*, **2016**, 141, 2523-33	5	7
99	A Versatile Theranostic Delivery Platform Integrating Magnetic Resonance Imaging/Computed Tomography, pH/cis-Diol Controlled Release, and Targeted Therapy. *ACS Nano*, **2016**, 10, 5809-22	16.7	42
98	Solution-Process-Feasible Deep-Red Phosphorescent Emitter. *Journal of Physical Chemistry C*, **2016**, 120, 18794-18802	3.8	20
97	Enhancing performance of P3HT:TiO□solar cells using doped and surface modified TiO□nanorods. *Journal of Colloid and Interface Science*, **2015**, 448, 315-9	9.3	11
96	Hierarchical i□ and i□ porous heterojunction in planar perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 10526-10535	13	13

95	Stable and High-Performance Flexible ZnO Thin-Film Transistors by Atomic Layer Deposition. *ACS Applied Materials & Interfaces*, **2015**, 7, 22610-7	9.5	103
94	Atomic layer deposition of NiO hole-transporting layers for polymer solar cells. *Nanotechnology*, **2015**, 26, 385201	3.4	25
93	Enabling a bright orange□ed emission with a high EQE with a seven-member-ring based fluorescent emitter with a matching host. *Organic Electronics*, **2015**, 26, 285-291	3.5	1
92	Facile Solution Dropping Method: A Green Process for Dyeing TiO2 Electrodes of Dye-Sensitized Solar Cells with Enhanced Power Conversion Efficiency. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 71-81	8.3	10
91	A wet and dry processable phosphorescent green dye based organic light-emitting diodes. *Dyes and Pigments*, **2015**, 113, 341-350	4.6	9
90	Rapid label-free determination of ketamine in whole blood using secondary ion mass spectrometry. *Talanta*, **2015**, 143, 50-55	6.2	5
89	Highly efficient ultra-deep blue organic light-emitting diodes with a wet- and dry-process feasible cyanofluorene acetylene based emitter. *Journal of Materials Chemistry C*, **2015**, 3, 2182-2194	7.1	56
88	Effects of the temperature and beam parameters on depth profiles in X-ray photoelectron spectrometry and secondary ion mass spectrometry under C60(+)-Ar(+) cosputtering. *Analytica Chimica Acta*, **2014**, 852, 129-36	6.6	10
87	Template-assisted in situ polymerization for forming blue organic light-emitting nanotubes. *Chemical Communications*, **2014**, 50, 8208-10	5.8	4
86	Developing antifouling biointerfaces based on bioinspired zwitterionic dopamine through pH-modulated assembly. *Langmuir*, **2014**, 30, 12638-46	4	38
85	Effect of surface potential on extracellular matrix protein adsorption. *Langmuir*, **2014**, 30, 10328-35	4	30
84	BiFeO3/YSZ bilayer electrolyte for low temperature solid oxide fuel cell. *RSC Advances*, **2014**, 4, 19925-19931	3.7	2
83	Effect of Surface Potential on NIH3T3 Cell Adhesion and Proliferation. *Journal of Physical Chemistry C*, **2014**, 118, 14464-14470	3.8	51
82	Construction of titania□eria nanostructured composites with tailored heterojunction for photocurrent enhancement. *Journal of the European Ceramic Society*, **2014**, 34, 1523-1535	6	10
81	Supramolecular control of electronic properties in aromatic materials. *Pure and Applied Chemistry*, **2014**, 86, 471-481	2.1	4
80	Binary self-assembled monolayers modified Au nanoparticles as carriers in biological applications. *Biointerphases*, **2014**, 9, 041005	1.8	4
79	Highly Efficient Yellow Organic Light Emitting Diode with a Novel Wet- and Dry-Process Feasible Iridium Complex Emitter. *Advanced Functional Materials*, **2014**, 24, 555-562	15.6	60
78	Corrosion Behavior of High Nitrogen Nickel-Free Fe-16Cr-Mn-Mo-N Stainless Steels. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2014**, 45, 381-391	2.5	20

77	Ultraviolet electroluminescence from nitrogen-doped ZnO-based heterojuntion light-emitting diodes prepared by remote plasma in situ atomic layer-doping technique. *ACS Applied Materials & Interfaces*, **2013**, 5, 227-32	9.5	13
76	High-Efficiency Wet- and Dry-Processed Green Organic Light Emitting Diodes with a Novel Iridium Complex-Based Emitter. *Advanced Optical Materials*, **2013**, 1, 657-667	8.1	36
75	Enhanced photochromism of chromen-based colorants near silver nanorods in sol□gel matrix. *CrystEngComm*, **2013**, 15, 5969	3.3	4
74	Light- and solvent-driven morphological transformations of self-assembled hydrogen-bonded nanostructures. *Chemical Communications*, **2013**, 49, 11536-8	5.8	10
73	Excitation-dependent visible fluorescence in decameric nanoparticles with monoacylglycerol cluster chromophores. *Nature Communications*, **2013**, 4, 1544	17.4	52
72	Improving nanowire sensing capability by electrical field alignment of surface probing molecules. *Nano Letters*, **2013**, 13, 2564-9	11.5	44
71	Facile synthesis of wurtzite copper□zinc□tin sulfide nanocrystals from plasmonic djurleite nuclei. *Journal of Materials Chemistry A*, **2013**, 1, 337-341	13	51
70	Highly efficient green organic light emitting diode with a novel solution processable iridium complex emitter. *Journal of Materials Chemistry C*, **2013**, 1, 4201	7.1	26
69	Enhancing the sensitivity of molecular secondary ion mass spectrometry with C60+-O2+ cosputtering. *Analytical Chemistry*, **2013**, 85, 3781-8	7.8	7
68	Solution-processed zinc oxide nanoparticles as interlayer materials for inverted organic solar cells. *Solar Energy Materials and Solar Cells*, **2013**, 108, 156-163	6.4	81
67	P-type Conductivity of MgZnO:(N:Ga) Thin Films Prepared by Remote Plasma In-Situ Atomic Layer Doping. *ECS Journal of Solid State Science and Technology*, **2013**, 2, R249-R253	2	4
66	Tunable Optical and Structural Properties of MgxZn1□O Films Prepared by In Situ Atomic Layer Doping Technique. *ECS Journal of Solid State Science and Technology*, **2013**, 2, P31-P35	2	2
65	Transparent conductive gas-permeation barriers on plastics by atomic layer deposition. *Advanced Materials*, **2013**, 25, 1750-4	24	29
64	Adsorption behavior of plasmid DNA on binary self-assembled monolayers modified gold substrates. *Journal of Colloid and Interface Science*, **2012**, 382, 97-104	9.3	9
63	High-efficiency low color temperature organic light emitting diodes with solution-processed emissive layer. *Organic Electronics*, **2012**, 13, 899-904	3.5	14
62	Organic light-emitting diodes with direct contact-printed red, green, blue, and white light-emitting layers. *Applied Physics Letters*, **2012**, 101, 153304	3.4	6
61	Diketopyrrolopyrrole-based oligomer modified TiO2 nanorods for air-stable and all solution processed poly(3-hexylthiophene):TiO2 bulk heterojunction inverted solar cell. *Journal of Materials Chemistry*, **2012**, 22, 10589		39
60	Manipulating the nanostructure of organogels generated from molecules with a 3-dimensional truxene core. *Chemical Communications*, **2012**, 48, 3515-7	5.8	15

59	The use of a polarity matching and high-energy exciton generating host in fabricating efficient purplish-blue OLEDs from a sky-blue emitter. *Journal of Materials Chemistry*, **2012**, 22, 15500		25
58	Local electronic structures and electrical characteristics of well-controlled nitrogen-doped ZnO thin films prepared by remote plasma in situ atomic layer doping. *ACS Applied Materials & Interfaces* , **2012**, 4, 3471-5	9.5	26
57	Dramatically enhanced oxygen uptake and ionization yield of positive secondary ions with C60+ sputtering. *Analytical Chemistry*, **2012**, 84, 3355-61	7.8	5
56	Effect of cosputtering and sample rotation on improving C60(+) depth profiling of materials. *Analytical Chemistry*, **2012**, 84, 9318-23	7.8	6
55	Parallel detection, quantification, and depth profiling of peptides with dynamic-secondary ion mass spectrometry (D-SIMS) ionized by C60(+)-Ar(+) co-sputtering. *Analytica Chimica Acta*, **2012**, 718, 64-9	6.6	14
54	Surfactant-Directed Synthesis of Ternary Nanostructures: Nanocubes, Polyhedrons, Octahedrons, and Nanowires of PtNiFe. Their Shape-Dependent Oxygen Reduction Activity. *Chemistry of Materials*, **2012**, 24, 2527-2533	9.6	48
53	In situ reversible conversion of porphyrin aggregate morphology. *Chemical Communications*, **2012**, 48, 8051-3	5.8	13
52	Improving the electron mobility of TiO2 nanorods for enhanced efficiency of a polymer□anoparticle solar cell. *CrystEngComm*, **2012**, 14, 4772	3.3	23
51	Electron tomography of HEK293T cells using scanning electron microscope-based scanning transmission electron microscopy. *Microscopy and Microanalysis*, **2012**, 18, 1037-42	0.5	1
50	Effect of the chemical composition on the work function of gold substrates modified by binary self-assembled monolayers. *Physical Chemistry Chemical Physics*, **2011**, 13, 4335-9	3.6	21
49	Highly efficient blue organic light-emitting diode with an oligomeric host having high triplet-energy and high electron mobility. *Journal of Materials Chemistry*, **2011**, 21, 9546		45
48	A new and facile method to prepare uniform hollow MnO/functionalized mSiO□core/shell nanocomposites. *ACS Nano*, **2011**, 5, 4177-87	16.7	119
47	Effect of surface chemical composition on the surface potential and iso-electric point of silicon substrates modified with self-assembled monolayers. *Physical Chemistry Chemical Physics*, **2011**, 13, 3649-53	3.6	32
46	Influence of as on the Morphologies and Optical Characteristics of GaSb/GaAs Quantum Dots. *IEEE Journal of Quantum Electronics*, **2011**, 47, 335-339	2	19
45	Polyol synthesis of polycrystalline cuprous oxide nanoribbons and their growth chemistry. *Journal of Nanoparticle Research*, **2011**, 13, 669-682	2.3	6
44	Continuous synthesis of colloidal silver nanoparticles by electrochemical discharge in aqueous solutions. *Journal of Nanoparticle Research*, **2011**, 13, 1865-1872	2.3	42
43	Molecular dynamic-secondary ion mass spectrometry (D-SIMS) ionized by co-sputtering with C60+ and Ar+. *Rapid Communications in Mass Spectrometry*, **2011**, 25, 2897-904	2.2	14
42	Spontaneous generation of highly emissive RGB organic nanospheres. *Angewandte Chemie - International Edition*, **2011**, 50, 7032-6	16.4	52

41	Effect of surface chemical composition on the work function of silicon substrates modified by binary self-assembled monolayers. *Physical Chemistry Chemical Physics*, **2011**, 13, 15122-6	3.6	24
40	ToF-SIMS imaging of the nanoscale phase separation in polymeric light emitting diodes: effect of nanostructure on device efficiency. *Analyst, The*, **2011**, 136, 716-23	5	12
39	The role of the auxiliary atomic ion beam in C60(+)-Ar+ co-sputtering. *Analyst, The*, **2011**, 136, 941-6	5	8
38	Molecular migration behaviors in organic light-emitting diodes with different host structures. *Organic Electronics*, **2011**, 12, 376-382	3.5	12
37	Stable p-type ZnO films grown by atomic layer deposition on GaAs substrates and treated by post-deposition rapid thermal annealing. *Thin Solid Films*, **2011**, 519, 5558-5561	2.2	22
36	Highly efficient orange-red phosphorescent organic light-emitting diode using 2,7-bis(carbazo-9-yl)-9,9-ditolyfluorene as the host. *Applied Physics Letters*, **2010**, 96, 143306	3.4	39
35	High-efficiency blue organic light-emitting diodes using a 3,5-di(9H-carbazol-9-yl)tetraphenylsilane host via a solution-process. *Journal of Materials Chemistry*, **2010**, 20, 8411		109
34	Effect of fabrication parameters on three-dimensional nanostructures of bulk heterojunctions imaged by high-resolution scanning ToF-SIMS. *ACS Nano*, **2010**, 4, 833-40	16.7	43
33	Photooxidation of Amine-Terminated Self-Assembled Monolayers on Gold. *Journal of Physical Chemistry C*, **2010**, 114, 10512-10519	3.8	31
32	Effect of fabrication parameters on three-dimensional nanostructures and device efficiency of polymer light-emitting diodes. *ACS Nano*, **2010**, 4, 2547-54	16.7	20
31	Extraordinarily high efficiency improvement for OLEDs with high surface-charge polymeric nanodots. *ACS Nano*, **2010**, 4, 4054-60	16.7	29
30	Effect of fabrication process on the microstructure and the efficiency of organic light-emitting diode. *Organic Electronics*, **2009**, 10, 459-464	3.5	29
29	Migration of small molecules during the degradation of organic light-emitting diodes. *Organic Electronics*, **2009**, 10, 581-586	3.5	36
28	Tailoring the surface potential of gold nanoparticles with self-assembled monolayers with mixed functional groups. *Journal of Colloid and Interface Science*, **2009**, 340, 126-30	9.3	47
27	Template-based fabrication of SrTiO3 and BaTiO3 nanotubes. *Inorganic Chemistry*, **2009**, 48, 681-6	5.1	51
26	The Influence of Channel Compositions on the Electrical Properties of Solution-Processed Indium-Zinc Oxide Thin-Film Transistors. *Journal of Display Technology*, **2009**, 5, 509-514		19
25	Solution-Processable, High-Molecule-Based Trifluoromethyl-Iridium Complex for Extraordinarily High Efficiency Blue-Green Organic Light-Emitting Diode. *Chemistry of Materials*, **2009**, 21, 2565-2567	9.6	65
24	Three-dimensional nanoscale imaging of polymer bulk-heterojunction by scanning electrical potential microscopy and C60(+) cluster ion slicing. *Analytical Chemistry*, **2009**, 81, 8936-41	7.8	21

23	Sputter-induced chemical transformation in oxoanions by combination of C(60)(+) and Ar(+) ion beams analyzed with X-ray photoelectron spectrometry. *Analyst, The*, **2009**, 134, 945-51	5	29
22	Tuning the surface potential of gold substrates arbitrarily with self-assembled monolayers with mixed functional groups. *Physical Chemistry Chemical Physics*, **2009**, 11, 6199-204	3.6	54
21	Morphological and Crystallographic Transformation of ZnO in Solution. *Journal of Physical Chemistry C*, **2008**, 112, 1498-1506	3.8	22
20	Efficient inverted solar cells using TiO(2) nanotube arrays. *Nanotechnology*, **2008**, 19, 255202	3.4	105
19	Site-Selective Deposition of Gold on Photo-Patterned Self-Assembled Monolayers. *Chemistry of Materials*, **2008**, 20, 6606-6610	9.6	26
18	Depth profiling of organic films with X-ray photoelectron spectroscopy using C60+ and Ar+ co-sputtering. *Analytical Chemistry*, **2008**, 80, 3412-5	7.8	61
17	2D self-bundled CdS nanorods with micrometer dimension in the absence of an external directing process. *ACS Nano*, **2008**, 2, 750-6	16.7	54
16	X-ray photoelectron spectrometry depth profiling of organic thin films using C60 sputtering. *Analytical Chemistry*, **2008**, 80, 501-5	7.8	46
15	Nanodot-Enhanced High-Efficiency Pure-White Organic Light-Emitting Diodes with Mixed-Host Structures. *Advanced Functional Materials*, **2008**, 18, 121-126	15.6	44
14	Small polymeric nano-dot enhanced pure-white organic light-emitting diode. *Organic Electronics*, **2008**, 9, 291-295	3.5	38
13	Sputter damage in Si (001) surface by combination of C60+ and Ar+ ion beams. *Applied Surface Science*, **2008**, 255, 2490-2493	6.7	18
12	Solution-Derived ZnO Nanowire Array Film as Photoelectrode in Dye-Sensitized Solar Cells. *Crystal Growth and Design*, **2007**, 7, 2467-2471	3.5	137
11	Template-based, near-ambient synthesis of crystalline metal-oxide nanotubes, nanowires and coaxial nanotubes. *Acta Materialia*, **2007**, 55, 3007-3014	8.4	36
10	Surfactant- and temperature-controlled CdS nanowire formation. *Small*, **2007**, 3, 1882-5	11	34
9	Template-Directed, Near-Ambient Synthesis of Au□TiO2□Au Heterojunction Nanowires Mediated by Self-Assembled Monolayers (SAMs). *Materials Letters*, **2007**, 61, 182-185	3.3	15
8	Individually addressable crystalline conducting polymer nanowires in a microelectrode sensor array. *Nanotechnology*, **2007**, 18, 424021	3.4	27
7	Transparent-conducting, gas-sensing nanostructures (nanotubes, nanowires, and thin films) of titanium oxide synthesized at near-ambient conditions. *Journal of Materials Research*, **2006**, 21, 2894-2903	2.5	26
6	Forces between nitrogen-containing self-assembled monolayers (SAMs) and zirconia particles in aqueous solutions. *Journal of Materials Chemistry*, **2005**, 15, 323		12

5	Deposition of Vanadium(V) Oxide Thin Films on Nitrogen-Containing Self-Assembled Monolayers *Chemistry of Materials*, **2005**, 17, 787-794	9.6	17
4	Deposition of Titanium Vanadium Oxide Thin Films on Organic Self-Assembled Monolayers: Role of Complexing Agents *Chemistry of Materials*, **2005**, 17, 5550-5557	9.6	19
3	Single-step preparation of mesoporous, anatase-based titanium-vanadium oxide and its application. *Journal of the American Chemical Society*, **2005**, 127, 12736-42	16.4	37
2	Acid-base properties and zeta potentials of self-assembled monolayers obtained via in situ transformations. *Langmuir*, **2004**, 20, 8693-8	4	119
1	Depth-dependent defect manipulation in perovskites for high-performance solar cells. *Energy and Environmental Science*,	35.4	29