

# Julia W P Hsu

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	ZrHfO <sub>2</sub> -PMMA hybrid dielectric layers for high-performance all solution-processed In <sub>2</sub> O <sub>3</sub> -based TFTs. Materials Research Bulletin, 2022, 150, 111768.	5.2	3
2	How Optical and Electrical Properties of ITO Coated Willow Glass Affect Photonic Curing Outcome for Upscaling Perovskite Solar Cell Manufacturing. IEEE Journal of Photovoltaics, 2022, 12, 722-727.	2.5	4
3	Color-temperature dependence of indoor organic photovoltaic performance. Organic Electronics, 2022, 104, 106477.	2.6	2
4	Accelerate process optimization in perovskite solar cell manufacturing with machine learning. Matter, 2022, 5, 1334-1336.	10.0	6
5	Re-Examining Open-Circuit Voltage in Dilute-Donor Organic Photovoltaics. Journal of Physical Chemistry C, 2022, 126, 9275-9283.	3.1	1
6	Elucidating Diiodomethane-Induced Improvement in Photonically Cured MAPbI <sub>3</sub> Solar Cells. ACS Applied Energy Materials, 2022, 5, 7328-7334.	5.1	3
7	Stable and Bright Electroluminescent Devices utilizing Emissive 0D Perovskite Nanocrystals Incorporated in a 3D CsPbBr <sub>3</sub> Matrix. Advanced Materials, 2022, 34, .	21.0	18
8	Change in Stability and Degradation Pathway of MAPbI <sub>3</sub> Arising from Contact with Oxide Transport Layer Materials. , 2021, , .		0
9	Photonic Curing for High Throughput Halide Perovskite Solar Cell Fabrication. , 2021, , .		0
10	Intrinsic Stability and Degradation Pathway of Formamidinium Iodide (HC(NH <sub>2</sub> ) <sub>2</sub> I) in Contact with Metal Oxide. , 2021, , .		0
11	Photonic curing for High Throughput Fabrication of Perovskite Solar cells. , 2021, , .		0
12	Photonic Curing Enabled High-Speed Processing for Perovskite Solar Cells. , 2021, , .		0
13	Origin of Hole Transport in Small Molecule Dilute Donor Solar Cells. Advanced Energy and Sustainability Research, 2021, 2, 2000042.	5.8	7
14	Tuning the electrical performance of solution-processed In <sub>2</sub> O <sub>3</sub> TFTs by low-temperature with HfO <sub>2</sub> -PVP hybrid dielectric. Materials Today Communications, 2021, 26, 102120.	1.9	4
15	Photonic Curing of Nickel Oxide Transport Layer and Perovskite Active Layer for Flexible Perovskite Solar Cells: A Path Towards High-Throughput Manufacturing. Frontiers in Energy Research, 2021, 9, .	2.3	15
16	Earth-Abundant Transition Metal-Based Mullite-Type Oxide Catalysts for Heterogeneous Oxidation Reactions. Advanced Energy and Sustainability Research, 2021, 2, 2000075.	5.8	8
17	Earth-Abundant Transition Metal-Based Mullite-Type Oxide Catalysts for Heterogeneous Oxidation Reactions. Advanced Energy and Sustainability Research, 2021, 2, 2170011.	5.8	4
18	Energy levels in dilute-donor organic solar cell photocurrent generation: A thienothiophene donor molecule study. Organic Electronics, 2021, 92, 106137.	2.6	9

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19	Optical and Electrical Properties of ITO Coated Willow Glass for Upscaling Perovskite Solar Cell Manufacturing Using Photonic Curing. , 2021, , .		1
20	Metal Oxide-Induced Instability and Its Mitigation in Halide Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2021, 12, 8495-8506.	4.6	22
21	Effects of atmosphere composition during direct ultraviolet-light patterning of solution-deposited In <sub>2</sub> O <sub>3</sub> thin film transistors. Thin Solid Films, 2021, 733, 138829.	1.8	0
22	Opposite Polarity Surface Photovoltage of MoS <sub>2</sub> Monolayers on Au Nanodot versus Nanohole Arrays. ACS Applied Materials & Interfaces, 2020, 12, 48991-48997.	8.0	15
23	Bulk and interfacial decomposition of formamidinium iodide (HC(NH <sub>2</sub> ) <sub>2</sub> ) <sub>2</sub> I in contact with metal oxide. Materials Advances, 2020, 1, 3349-3357.	5.4	14
24	Importance of separating contacts from the photosensitive layer in heterojunction phototransistors. Superlattices and Microstructures, 2020, 148, 106713.	3.1	2
25	Effects of Photonic Curing Processing Conditions on MAPbI <sub>3</sub> Film Properties and Solar Cell Performance. ACS Applied Energy Materials, 2020, 3, 8636-8645.	5.1	18
26	Photonic curing of solution-deposited ZrO <sub>2</sub> dielectric on PEN: a path towards high-throughput processing of oxide electronics. Npj Flexible Electronics, 2020, 4, .	10.7	25
27	Device Architecture Study in Fullerene-Based Organic Photovoltaics. Journal of Physical Chemistry C, 2020, 124, 12982-12989.	3.1	3
28	Altered Stability and Degradation Pathway of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> in Contact with Metal Oxide. ACS Energy Letters, 2020, 5, 1147-1152.	17.4	51
29	Role of Surface Oxygen Vacancies in Intermediate Formation on Mullite-type Oxides upon NO Adsorption. Journal of Physical Chemistry C, 2020, 124, 15913-15919.	3.1	9
30	Photonic Curing Enabling High-Speed Processing for Perovskite Solar Cells. , 2020, , .		0
31	Integrated Experimental&Theoretical Approach To Determine Reliable Molecular Reaction Mechanisms on Transition-Metal Oxide Surfaces. ACS Applied Materials & Interfaces, 2019, 11, 30460-30469.	8.0	9
32	Mg Doped CuCrO <sub>2</sub> as Efficient Hole Transport Layers for Organic and Perovskite Solar Cells. Nanomaterials, 2019, 9, 1311.	4.1	24
33	Stable and Active Oxidation Catalysis by Cooperative Lattice Oxygen Redox on SmMn <sub>2</sub> O <sub>5</sub> Mullite Surface. Journal of the American Chemical Society, 2019, 141, 10722-10728.	13.7	64
34	Superior low-temperature NO catalytic performance of PrMn <sub>2</sub> O <sub>5</sub> over SmMn <sub>2</sub> O <sub>5</sub> mullite-type catalysts. Catalysis Science and Technology, 2019, 9, 2758-2766.	4.1	16
35	Probing Defect States in Organic Polymers and Bulk Heterojunctions Using Surface Photovoltage Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 10795-10801.	3.1	5
36	Critical Role of Mullite-type Oxides&TM Surface Chemistry on Catalytic NO Oxidation Performance. Journal of Physical Chemistry C, 2019, 123, 5385-5393.	3.1	15

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37	Solution Synthesis, Processing, and Applications of Semiconducting Nanomaterials. <i>Nanomaterials</i> , 2019, 9, 1442.	4.1	1
38	Revealing lattice and photocarrier dynamics of high-quality MAPbBr <sub>3</sub> single crystals by far infrared reflection and surface photovoltage spectroscopy. <i>Journal of Applied Physics</i> , 2019, 125, 025706.	2.5	9
39	Effect of R-site element on crystalline phase and thermal stability of Fe substituted Mn mullite-type oxides: R <sub>2</sub> (Mn <sub>1-x</sub> Fe <sub>x</sub> ) <sub>4</sub> O <sub>10</sub> (R = Y, Sm or Tm). <i>J. Appl. Phys.</i> 101, 114101 (2007)	1.0	178431
40	Combustion Synthesis of p-Type Transparent Conducting CuCrO <sub>2</sub> and Cu:CrO <sub>2</sub> Thin Films at 180 °C. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 3732-3738.	8.0	29
41	Effects of TiO <sub>2</sub> nanoparticle size and concentration on dielectric properties of polypropylene nanocomposites. <i>Journal of Materials Science</i> , 2018, 53, 9149-9159.	3.7	10
42	Minimizing performance degradation induced by interfacial recombination in perovskite solar cells through tailoring of the transport layer electronic properties. <i>APL Materials</i> , 2018, 6, .	5.1	29
43	Superior catalytic performance of Mn-Mullite over Mn-Perovskite for NO oxidation. <i>Catalysis Today</i> , 2018, 310, 195-201.	4.4	52
44	Broadband Terahertz Refraction Index Dispersion and Loss of Polymeric Dielectric Substrate and Packaging Materials. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018, 39, 93-104.	2.2	12
45	Room-temperature fabrication of a delafossite CuCrO <sub>2</sub> hole transport layer for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 469-477.	10.3	91
46	Effects of Environmental Water Absorption by Solution-Deposited Al <sub>2</sub> O <sub>3</sub> Gate Dielectrics on Thin Film Transistor Performance and Mobility. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39435-39440.	8.0	26
47	Tunable Electrical and Optical Properties of Nickel Oxide (NiO) Thin Films for Fully Transparent NiO/Ga <sub>2</sub> O <sub>3</sub> p-n Junction Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38159-38165.	8.0	48
48	Solution-processed oxide thin film transistors on shape memory polymer enabled by photochemical self-patterning. <i>Journal of Materials Research</i> , 2018, 33, 2454-2462.	2.6	22
49	Origin of Photocurrent in Fullerene-Based Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15140-15148.	3.1	24
50	n-Type Doping Induced by Electron Transport Layer in Organic Photovoltaic Devices. <i>Advanced Electronic Materials</i> , 2017, 3, 1600458.	5.1	8
51	Solution synthesis of few-layer 2H MX <sub>2</sub> (M = Mo, W; X = S, Se). <i>Journal of Materials Chemistry C</i> , 2017, 5, 2859-2864.	5.5	32
52	Solution-deposited Al <sub>2</sub> O <sub>3</sub> dielectric towards fully-patterned thin film transistors on shape memory polymer. , 2017, , .		4
53	Structural Order: The Dominant Factor for Nongeminate Recombination in Organic Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9242-9248.	3.1	2
54	Intrinsic air stability mechanisms of two-dimensional transition metal dichalcogenide surfaces: basal versus edge oxidation. <i>2D Materials</i> , 2017, 4, 025050.	4.4	87

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55	Nucleation and growth of WSe <sub>2</sub> : enabling large grain transition metal dichalcogenides. 2D Materials, 2017, 4, 045019.	4.4	96
56	Understanding the source of dielectric loss in Titania/polypropylene nanocomposites up to 220 GHz. Proceedings of SPIE, 2017, , .	0.8	2
57	Inverted OPVs with MoS <sub>2</sub> hole transport layer deposited by spray coating. Materials Today Energy, 2017, 5, 107-111.	4.7	6
58	Transport Effects on Capacitance-Frequency Analysis for Defect Characterization in Organic Photovoltaic Devices. Physical Review Applied, 2016, 6, .	3.8	36
59	Role of Contact Injection, Exciton Dissociation, and Recombination, Revealed through Voltage and Intensity Mapping of the Quantum Efficiency of Polymer:Fullerene Solar Cells. Journal of Physical Chemistry C, 2016, 120, 10146-10155.	3.1	11
60	Effects of synthesis conditions on structure and surface properties of SmMn <sub>2</sub> O <sub>5</sub> mullite-type oxide. Applied Surface Science, 2016, 385, 490-497.	6.1	24
61	Thermal stability of mullite<i>R</i>/Mn<sub>2</sub>O<sub>5</sub> (<i>R</i>/=Bi, Y, Pr, Sm or Gd): combined density functional theory and experimental study. Journal of Physics Condensed Matter, 2016, 28, 125602.	1.8	17
62	Quantitative Analyses of Competing Photocurrent Generation Mechanisms in Fullerene-Based Organic Photovoltaics. Journal of Physical Chemistry C, 2016, 120, 16470-16477.	3.1	15
63	Sub-10 nm copper chromium oxide nanocrystals as a solution processed p-type hole transport layer for organic photovoltaics. Journal of Materials Chemistry C, 2016, 4, 3607-3613.	5.5	50
64	Organicâ€“inorganic hybrid semiconductor thin films deposited using molecular-atomic layer deposition (MALD). Journal of Materials Chemistry C, 2016, 4, 2382-2389.	5.5	14
65	Comparison of conventional and inverted organic photovoltaic devices with controlled illumination area and extraction layers. Solar Energy Materials and Solar Cells, 2016, 144, 592-599.	6.2	11
66	Benzodifuran and benzodithiophene donorâ€“acceptor polymers for bulk heterojunction solar cells. Journal of Materials Chemistry A, 2015, 3, 6980-6989.	10.3	42
67	General method to synthesize ultrasmall metal oxide nanoparticle suspensions for hole contact layers in organic photovoltaic devices. MRS Communications, 2015, 5, 45-50.	1.8	4
68	Solution Synthesized <i>p</i>-Type Copper Gallium Oxide Nanoplates as Hole Transport Layer for Organic Photovoltaic Devices. Journal of Physical Chemistry Letters, 2015, 6, 1071-1075.	4.6	59
69	Effects of Contact-Induced Doping on the Behaviors of Organic Photovoltaic Devices. Nano Letters, 2015, 15, 7627-7632.	9.1	32
70	Relating Nongeminate Recombination to Charge-Transfer States in Bulk Heterojunction Organic Photovoltaic Devices. Journal of Physical Chemistry C, 2015, 119, 19628-19633.	3.1	8
71	Impurities and Electronic Property Variations of Natural MoS<sub>2</sub>Crystal Surfaces. ACS Nano, 2015, 9, 9124-9133.	14.6	240
72	HfSe<sub>2</sub> Thin Films: 2D Transition Metal Dichalcogenides Grown by Molecular Beam Epitaxy. ACS Nano, 2015, 9, 474-480.	14.6	195

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73	Charge collection in bulk heterojunction organic photovoltaic devices: An impedance spectroscopy study. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	43
74	Influence of ZnO sol-gel electron transport layer processing on BHJ active layer morphology and OPV performance. <i>Solar Energy Materials and Solar Cells</i> , 2014, 125, 27-32.	6.2	18
75	Role of Charge Transfer States in P3HT-Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27681-27689.	3.1	20
76	Molecular Weight Dependence of the Morphology in P3HT:PCBM Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 19876-19887.	8.0	106
77	Effect of metal/bulk-heterojunction interfacial properties on organic photovoltaic device performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15288.	10.3	11
78	One-Step Synthesis of ZnO Nanocrystals in <i>n</i> -Butanol with Bandgap Control: Applications in Hybrid and Organic Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18417-18423.	3.1	16
79	Solution Processed ZnO Hybrid Nanocomposite with Tailored Work Function for Improved Electron Transport Layer in Organic Photovoltaic Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 9128-9133.	8.0	32
80	Intensity and wavelength dependence of bimolecular recombination in P3HT:PCBM solar cells: A white-light biased external quantum efficiency study. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	65
81	Effect of Plasmonic Au Nanoparticles on Inverted Organic Solar Cell Performance. <i>Journal of Physical Chemistry C</i> , 2013, 117, 85-91.	3.1	61
82	Surface photovoltage characterization of organic photovoltaic devices. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	28
83	In Situ Chemical Oxidation of Ultrasmall $\text{MoO}_3$ Nanoparticles in Suspensions. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-5.	3.4	16
84	Low-Temperature Solution-Processed Molybdenum Oxide Nanoparticle Hole Transport Layers for Organic Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2012, 2, 1193-1197.	19.5	82
85	Effect of Zinc Oxide Electron Transport Layers on Performance and Shelf Life of Organic Bulk Heterojunction Devices. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13471-13475.	3.1	20
86	Molecular-Scale and Nanoscale Morphology of P3HT:PCBM Bulk Heterojunctions: Energy-Filtered TEM and Low-Dose HREM. <i>Chemistry of Materials</i> , 2011, 23, 907-912.	6.7	132
87	Determination of energy level alignment at interfaces of hybrid and organic solar cells under ambient environment. <i>Journal of Materials Chemistry</i> , 2011, 21, 1721-1729.	6.7	145
88	Effect of device architecture on hybrid zinc oxide nanoparticle:poly(3-hexylthiophene) blend solar cell performance and stability. <i>Organic Electronics</i> , 2011, 12, 1258-1263.	2.6	22
89	Hsu, Vaia, and Trionfi Reply:. <i>Physical Review Letters</i> , 2011, 106, .	7.8	1
90	Development of Non-acidic Poly(ethylene dioxythiophene):poly(styrene sulfonate) for Organic and Hybrid Photovoltaic Devices. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1348, 152201.	0.1	0

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91	Open-Circuit Voltage Improvement in Hybrid ZnO/Polymer Photovoltaic Devices With Oxide Engineering. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1587-1594.	2.9	25
92	Preferred heteroepitaxial orientations of ZnO nanorods on Ag. Journal of Materials Research, 2010, 25, 1352-1361.	2.6	7
93	Organic/Inorganic Hybrids for Solar Energy Generation. MRS Bulletin, 2010, 35, 422-428.	3.5	46
94	Electron Beam-Induced Damage of Alkanethiolate Self-Assembled Monolayers Adsorbed on GaAs (001): A Static SIMS Investigation. Journal of Physical Chemistry C, 2010, 114, 5400-5409.	3.1	20
95	Comparison of Chemical Lithography Using Alkanethiolate Self-Assembled Monolayers on GaAs (001) and Au. Langmuir, 2010, 26, 4523-4528.	3.5	14
96	Electron-Beam-Induced Damage of Alkanethiolate Self-Assembled Monolayers (SAMs): Dependence on Monolayer Structure and Substrate Conductivity. Journal of Physical Chemistry C, 2010, 114, 9362-9369.	3.1	11
97	High frequency impedance spectroscopy on ZnO nanorod arrays. Journal of Applied Physics, 2010, 107, 064312.	2.5	10
98	Surface chemistry and surface electronic properties of ZnO single crystals and nanorods. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 328-335.	2.1	25
99	In-situ synthesis and thermal-electrical properties of CP2- polyimide/pristine and amine-functionalized carbon nanofiber composites. , 2009, , .		0
100	Nanocrystal Layer Deposition: Surface-Mediated Templating of Cadmium Sulfide Nanocrystals on Zinc Oxide Architectures. Journal of Physical Chemistry C, 2009, 113, 16329-16336.	3.1	42
101	Improved Efficiency in Poly(3-hexylthiophene)/Zinc Oxide Solar Cells via Lithium Incorporation. Journal of Physical Chemistry C, 2009, 113, 17608-17612.	3.1	21
102	Molecular Orientation in Octanedithiol and Hexadecanethiol Monolayers on GaAs and Au Measured by Infrared Spectroscopic Ellipsometry. Langmuir, 2009, 25, 919-923.	3.5	37
103	Direct Measurement of the Percolation Probability in Carbon Nanofiber-Polyimide Nanocomposites. Physical Review Letters, 2009, 102, 116601.	7.8	34
104	Optimization of ZnO Nanorod Array Morphology for Hybrid Photovoltaic Devices. Journal of Physical Chemistry C, 2009, 113, 15778-15782.	3.1	56
105	Impact of interfacial polymer morphology on photoexcitation dynamics and device performance in P3HT/ZnO heterojunctions. Journal of Materials Chemistry, 2009, 19, 4609.	6.7	58
106	Impact of contact evolution on the shelf life of organic solar cells. Journal of Materials Chemistry, 2009, 19, 7638.	6.7	165
107	ZnO Nanorod/Thermoplastic Polyurethane Nanocomposites: Morphology and Shape Memory Performance. Macromolecules, 2009, 42, 8933-8942.	4.8	41
108	Improved performance of poly(3-hexylthiophene)/zinc oxide hybrid photovoltaics modified with interfacial nanocrystalline cadmium sulfide. Applied Physics Letters, 2009, 95, .	3.3	66



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109	Photocurrent Enhancement in Polythiophene- and Alkanethiol-Modified ZnO Solar Cells. <i>Advanced Materials</i> , 2008, 20, 4755-4759.	21.0	115
110	Chemical kinetics and mass transport effects in solution-based selective-area growth of ZnO nanorods. <i>Journal of Crystal Growth</i> , 2008, 310, 584-593.	1.5	21
111	Zinc Oxide Growth Morphology on Self-Assembled Monolayer Modified Silver Surfaces. <i>Langmuir</i> , 2008, 24, 5375-5381.	3.5	15
112	Tunable Arrays of ZnO Nanorods and Nanoneedles via Seed Layer and Solution Chemistry. <i>Crystal Growth and Design</i> , 2008, 8, 2036-2040.	3.0	49
113	Effect of ZnO Processing on the Photovoltage of ZnO/Poly(3-hexylthiophene) Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 9544-9547.	3.1	111
114	Thermal-Electrical Character of in Situ Synthesized Polyimide-Grafted Carbon Nanofiber Composites. <i>Macromolecules</i> , 2008, 41, 8053-8062.	4.8	58
115	ZnO Nanostructures as Efficient Antireflection Layers in Solar Cells. <i>Nano Letters</i> , 2008, 8, 1501-1505.	9.1	623
116	Correlated Piezoelectric and Electrical Properties in Individual ZnO Nanorods. <i>Nano Letters</i> , 2008, 8, 2204-2209.	9.1	82
117	Au-Ag and Au-Pd molecular contacts to GaAs. <i>Journal of Vacuum Science &amp; Technology B</i> , 2008, 26, 1597-1601.	1.3	6
118	Absence of elastic clamping in quantitative piezoelectric force microscopy measurements of nanostructures. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	4
119	Direct imaging of current paths in multiwalled carbon nanofiber polymer nanocomposites using conducting-tip atomic force microscopy. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	38
120	Polarity and piezoelectric response of solution grown zinc oxide nanocrystals on silver. <i>Journal of Applied Physics</i> , 2007, 101, 014316.	2.5	66
121	Ballistic electron and photocurrent transport in Au-molecular layer-GaAs diodes. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	11
122	Effect of Polymer Processing on the Performance of Poly(3-hexylthiophene)/ZnO Nanorod Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16640-16645.	3.1	235
123	Control of ZnO nanorod array alignment synthesized via seeded solution growth. <i>Journal of Crystal Growth</i> , 2007, 304, 80-85.	1.5	82
124	Luminescent properties of solution-grown ZnO nanorods. <i>Applied Physics Letters</i> , 2006, 88, 252103.	3.3	120
125	Formation of Alkanethiol and Alkanedithiol Monolayers on GaAs(001). <i>Langmuir</i> , 2006, 22, 3627-3632.	3.5	74
126	Additive Patterning of Conductors and Superconductors by Solution Stamping Nanolithography. <i>Small</i> , 2006, 2, 75-79.	10.0	5



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127	Sequential Nucleation and Growth of Complex Nanostructured Films. <i>Advanced Functional Materials</i> , 2006, 16, 335-344.	14.9	216
128	Molecular monolayer modification of the cathode in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2006, 89, 223511.	3.3	16
129	Spatial organization of ZnO nanorods on surfaces via organic templating. , 2005, , .		3
130	Soft-Contact Optical Lithography Using Transparent Elastomeric Stamps and Application to Nanopatterned Organic Light-Emitting Devices. <i>Advanced Functional Materials</i> , 2005, 15, 1435-1439.	14.9	49
131	Soft lithography contacts to organics. <i>Materials Today</i> , 2005, 8, 42-54.	14.2	26
132	Improving organic/electrode interface in organic light-emitting diodes by soft contact lamination. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2005, 219, 1-9.	0.1	0
133	Directed Spatial Organization of Zinc Oxide Nanorods. <i>Nano Letters</i> , 2005, 5, 83-86.	9.1	187
134	Ballistic Electron Emission Microscopy Studies of Au/Molecule/n-GaAs Diodes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6252-6256.	2.6	33
135	Probing Occupied States of the Molecular Layer in Au~Alkanedithiol~GaAs Diodes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5719-5723.	2.6	24
136	High-Efficiency Soft-Contact-Laminated Polymer Light-Emitting Devices with Patterned Electrodes. <i>Advanced Materials</i> , 2004, 16, 2040-2045.	21.0	39
137	Organic light-emitting diodes formed by soft contact lamination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 429-433.	7.1	126
138	Impurity effects on photoluminescence in lateral epitaxially overgrown GaN. <i>Journal of Electronic Materials</i> , 2003, 32, 322-326.	2.2	3
139	Three-Dimensional and Multilayer Nanostructures Formed by Nanotransfer Printing. <i>Nano Letters</i> , 2003, 3, 1223-1227.	9.1	262
140	Spatial distribution of yellow luminescence related deep levels in GaN. <i>Applied Physics Letters</i> , 2003, 83, 4172-4174.	3.3	17
141	Electrical Contacts to Molecular Layers by Nanotransfer Printing. <i>Nano Letters</i> , 2003, 3, 913-917.	9.1	243
142	Intensity and phase mapping of guided light in LiNbO <sub>3</sub> waveguides with an interferometric near-field scanning optical microscope. <i>Applied Optics</i> , 2003, 42, 7149.	2.1	4
143	Direct imaging of multimode interference in a channel waveguide. <i>Optics Letters</i> , 2003, 28, 399.	3.3	14
144	Near-field scanning optical microscopy imaging of multimode interference. <i>Optics Letters</i> , 2003, 28, 1111.	3.3	1

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145	A microscope for imaging, spectroscopy, and lithography at the nanometer scale: Combination of a two-photon laser scanning microscope and an atomic force microscope. Review of Scientific Instruments, 2003, 74, 1211-1216.	1.3	3
146	Effect of dislocations on local transconductance in AlGaIn/GaN heterostructures as imaged by scanning gate microscopy. Applied Physics Letters, 2003, 83, 4559-4561.	3.3	8
147	Nature of electrical contacts in a metal-molecule-semiconductor system. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 1928.	1.6	47
148	Fabrication of Polymer Photonic Crystals by Two-Photon Nanolithography. Materials Research Society Symposia Proceedings, 2003, 776, 8321.	0.1	1
149	Dislocation and morphology control during molecular-beam epitaxy of AlGaIn/GaN heterostructures directly on sapphire substrates. Applied Physics Letters, 2002, 81, 1456-1458.	3.3	35
150	High mobility AlGaIn/GaN heterostructures grown by plasma-assisted molecular beam epitaxy on semi-insulating GaN templates prepared by hydride vapor phase epitaxy. Journal of Applied Physics, 2002, 92, 338-345.	2.5	73
151	Direct imaging of reverse-bias leakage through pure screw dislocations in GaN films grown by molecular beam epitaxy on GaN templates. Applied Physics Letters, 2002, 81, 79-81.	3.3	283
152	Scanning Kelvin force microscopy imaging of surface potential variations near threading dislocations in GaN. Applied Physics Letters, 2002, 81, 3579-3581.	3.3	46
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