

Julia W P Hsu

List of Publications by Year in descending order

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times ranked

11071
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO Nanostructures as Efficient Antireflection Layers in Solar Cells. Nano Letters, 2008, 8, 1501-1505.	9.1	623
2	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
3	Inhomogeneous spatial distribution of reverse bias leakage in GaN Schottky diodes. Applied Physics Letters, 2001, 78, 1685-1687.	3.3	279
4	Three-Dimensional and Multilayer Nanostructures Formed by Nanotransfer Printing. Nano Letters, 2003, 3, 1223-1227.	9.1	262
5	Electrical Contacts to Molecular Layers by Nanotransfer Printing. Nano Letters, 2003, 3, 913-917.	9.1	243
6	Impurities and Electronic Property Variations of Natural MoS ₂ Crystal Surfaces. ACS Nano, 2015, 9, 9124-9133.	14.6	240
7	Effect of Polymer Processing on the Performance of Poly(3-hexylthiophene)/ZnO Nanorod Photovoltaic Devices. Journal of Physical Chemistry C, 2007, 111, 16640-16645.	3.1	235
8	Sequential Nucleation and Growth of Complex Nanostructured Films. Advanced Functional Materials, 2006, 16, 335-344.	14.9	216
9	HfSe ₂ Thin Films: 2D Transition Metal Dichalcogenides Grown by Molecular Beam Epitaxy. ACS Nano, 2015, 9, 474-480.	14.6	195
10	Directed Spatial Organization of Zinc Oxide Nanorods. Nano Letters, 2005, 5, 83-86.	9.1	187
11	Impact of contact evolution on the shelf life of organic solar cells. Journal of Materials Chemistry, 2009, 19, 7638.	6.7	165
12	Determination of energy level alignment at interfaces of hybrid and organic solar cells under ambient environment. Journal of Materials Chemistry, 2011, 21, 1721-1729.	6.7	145
13	Molecular-Scale and Nanoscale Morphology of P3HT:PCBM Bulk Heterojunctions: Energy-Filtered TEM and Low-Dose HREM. Chemistry of Materials, 2011, 23, 907-912.	6.7	132
14	Organic light-emitting diodes formed by soft contact lamination. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 429-433.	7.1	126
15	Luminescent properties of solution-grown ZnO nanorods. Applied Physics Letters, 2006, 88, 252103.	3.3	120
16	Effect of growth stoichiometry on the electrical activity of screw dislocations in GaN films grown by molecular-beam epitaxy. Applied Physics Letters, 2001, 78, 3980-3982.	3.3	116
17	Terahertz pulse propagation through small apertures. Applied Physics Letters, 2001, 79, 907-909.	3.3	115
18	Photocurrent Enhancement in Polythiophene- and Alkanethiol-Modified ZnO Solar Cells. Advanced Materials, 2008, 20, 4755-4759.	21.0	115

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19	Effect of ZnO Processing on the Photovoltage of ZnO/Poly(3-hexylthiophene) Solar Cells. Journal of Physical Chemistry C, 2008, 112, 9544-9547.	3.1	111
20	Collection-mode near-field imaging with 0.5-THz pulses. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 600-607.	2.9	108
21	Molecular Weight Dependence of the Morphology in P3HT:PCBM Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 19876-19887.	8.0	106
22	High-mobility AlGaIn/GaN heterostructures grown by molecular-beam epitaxy on GaN templates prepared by hydride vapor phase epitaxy. Applied Physics Letters, 2000, 77, 2888-2890.	3.3	99
23	Nucleation and growth of WSe ₂ : enabling large grain transition metal dichalcogenides. 2D Materials, 2017, 4, 045019.	4.4	96
24	A nonoptical tip-sample distance control method for near-field scanning optical microscopy using impedance changes in an electromechanical system. Review of Scientific Instruments, 1995, 66, 3177-3181.	1.3	94
25	Room-temperature fabrication of a delafossite CuCrO ₂ hole transport layer for perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 469-477.	10.3	91
26	High-resolution transfer printing on GaAs surfaces using alkane dithiol monolayers. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 2853.	1.6	87
27	Intrinsic air stability mechanisms of two-dimensional transition metal dichalcogenide surfaces: basal versus edge oxidation. 2D Materials, 2017, 4, 025050.	4.4	87
28	Control of ZnO nanorod array alignment synthesized via seeded solution growth. Journal of Crystal Growth, 2007, 304, 80-85.	1.5	82
29	Correlated Piezoelectric and Electrical Properties in Individual ZnO Nanorods. Nano Letters, 2008, 8, 2204-2209.	9.1	82
30	Low-Temperature Solution-Processed Molybdenum Oxide Nanoparticle Hole Transport Layers for Organic Photovoltaic Devices. Advanced Energy Materials, 2012, 2, 1193-1197.	19.5	82
31	Formation of Alkanethiol and Alkanedithiol Monolayers on GaAs(001). Langmuir, 2006, 22, 3627-3632.	3.5	74
32	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
33	Near-field photoconductivity: Application to carrier transport in InGaAsP quantum well lasers. Applied Physics Letters, 1994, 65, 2654-2656.	3.3	67
34	Polarity and piezoelectric response of solution grown zinc oxide nanocrystals on silver. Journal of Applied Physics, 2007, 101, 014316.	2.5	66
35	Improved performance of poly(3-hexylthiophene)/zinc oxide hybrid photovoltaics modified with interfacial nanocrystalline cadmium sulfide. Applied Physics Letters, 2009, 95, .	3.3	66
36	Intensity and wavelength dependence of bimolecular recombination in P3HT:PCBM solar cells: A white-light biased external quantum efficiency study. Journal of Applied Physics, 2013, 113, .	2.5	65

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37	Stable and Active Oxidation Catalysis by Cooperative Lattice Oxygen Redox on SmMn ₂ O ₅ Mullite Surface. <i>Journal of the American Chemical Society</i> , 2019, 141, 10722-10728.	13.7	64
38	Near-field scanning optical microscopy studies of electronic and photonic materials and devices. <i>Materials Science and Engineering Reports</i> , 2001, 33, 1-50.	31.8	63
39	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
40	Solution Synthesized <i>p</i> -Type Copper Gallium Oxide Nanoplates as Hole Transport Layer for Organic Photovoltaic Devices. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1071-1075.	4.6	59
41	Thermal Electrical Character of in Situ Synthesized Polyimide-Grafted Carbon Nanofiber Composites. <i>Macromolecules</i> , 2008, 41, 8053-8062.	4.8	58
42	Impact of interfacial polymer morphology on photoexcitation dynamics and device performance in P3HT/ZnO heterojunctions. <i>Journal of Materials Chemistry</i> , 2009, 19, 4609.	6.7	58
43	Optimization of ZnO Nanorod Array Morphology for Hybrid Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15778-15782.	3.1	56
44	Superior catalytic performance of Mn-Mullite over Mn-Perovskite for NO oxidation. <i>Catalysis Today</i> , 2018, 310, 195-201.	4.4	52
45	Altered Stability and Degradation Pathway of CH ₃ NH ₃ Pb ₃ in Contact with Metal Oxide. <i>ACS Energy Letters</i> , 2020, 5, 1147-1152.	17.4	51
46	Sub-10 nm copper chromium oxide nanocrystals as a solution processed p-type hole transport layer for organic photovoltaics. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3607-3613.	5.5	50
47	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
48	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
49	Tunable Electrical and Optical Properties of Nickel Oxide (NiO) Thin Films for Fully Transparent NiO/Ga ₂ O ₃ p-n Junction Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38159-38165.	8.0	48
50	Nature of electrical contacts in a metal-molecule-semiconductor system. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 1928.	1.6	47
51	Scanning Kelvin force microscopy imaging of surface potential variations near threading dislocations in GaN. <i>Applied Physics Letters</i> , 2002, 81, 3579-3581.	3.3	46
52	Organic/Inorganic Hybrids for Solar Energy Generation. <i>MRS Bulletin</i> , 2010, 35, 422-428.	3.5	46
53	Electrostatic force microscopy studies of surface defects on GaAs/Ge films. <i>Journal of Applied Physics</i> , 1999, 85, 2465-2472.	2.5	45
54	An impedance based non-contact feedback control system for scanning probe microscopes. <i>Review of Scientific Instruments</i> , 1996, 67, 1468-1471.	1.3	44

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55	Charge collection in bulk heterojunction organic photovoltaic devices: An impedance spectroscopy study. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	43
56	Nanocrystal Layer Deposition: Surface-Mediated Templating of Cadmium Sulfide Nanocrystals on Zinc Oxide Architectures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16329-16336.	3.1	42
57	Benzodifuran and benzodithiophene donor-acceptor polymers for bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6980-6989.	10.3	42
58	ZnO Nanorod- Thermoplastic Polyurethane Nanocomposites: Morphology and Shape Memory Performance. <i>Macromolecules</i> , 2009, 42, 8933-8942.	4.8	41
59	High-Efficiency Soft-Contact-Laminated Polymer Light-Emitting Devices with Patterned Electrodes. <i>Advanced Materials</i> , 2004, 16, 2040-2045.	21.0	39
60	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
61	Molecular Orientation in Octanedithiol and Hexadecanethiol Monolayers on GaAs and Au Measured by Infrared Spectroscopic Ellipsometry. <i>Langmuir</i> , 2009, 25, 919-923.	3.5	37
62	Nature of the highly conducting interfacial layer in GaN films. <i>Applied Physics Letters</i> , 2000, 77, 2873-2875.	3.3	36
63	Transport Effects on Capacitance-Frequency Analysis for Defect Characterization in Organic Photovoltaic Devices. <i>Physical Review Applied</i> , 2016, 6, .	3.8	36
64	Nanometer scale polarimetry studies using a near-field scanning optical microscope. <i>Applied Optics</i> , 1998, 37, 84.	2.1	35
65	Dislocation and morphology control during molecular-beam epitaxy of AlGaIn/GaN heterostructures directly on sapphire substrates. <i>Applied Physics Letters</i> , 2002, 81, 1456-1458.	3.3	35
66	Direct Measurement of the Percolation Probability in Carbon Nanofiber-Polyimide Nanocomposites. <i>Physical Review Letters</i> , 2009, 102, 116601.	7.8	34
67	Uniform deposition of YBa ₂ Cu ₃ O ₇ thin films over an 8 inch diameter area by a 90° off-axis sputtering technique. <i>Applied Physics Letters</i> , 1996, 69, 3911-3913.	3.3	33
68	Anisotropic Disorder in High-Mobility 2D Heterostructures and Its Correlation to Electron Transport. <i>Physical Review Letters</i> , 2001, 87, 126803.	7.8	33
69	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
70	Solution Processed ZnO Hybrid Nanocomposite with Tailored Work Function for Improved Electron Transport Layer in Organic Photovoltaic Devices. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9128-9133.	8.0	32
71	Effects of Contact-Induced Doping on the Behaviors of Organic Photovoltaic Devices. <i>Nano Letters</i> , 2015, 15, 7627-7632.	9.1	32
72	Solution synthesis of few-layer 2H MX ₂ (M = Mo, W; X = S, Se). <i>Journal of Materials Chemistry C</i> , 2017, 5, 2859-2864.	5.5	32

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73	Vibration dynamics of tapered optical fiber probes. <i>Journal of Applied Physics</i> , 1997, 81, 1623-1627.	2.5	31
74	Nanocrystalline Al ₈₇ Ni _{8.7} Y _{4.3} and Al ₉₀ Fe ₅ Gd ₅ Alloys that Retain the Localized Corrosion Resistance of the Amorphous State. <i>Electrochemical and Solid-State Letters</i> , 1999, 2, 267.	2.2	31
75	Local characterization of transmission properties of a two-dimensional photonic crystal. <i>Physical Review B</i> , 1997, 55, 10878-10882.	3.2	30
76	Nanometer scale optical studies of twin domains and defects in lanthanum aluminate crystals. <i>Journal of Applied Physics</i> , 1996, 80, 1085-1093.	2.5	29
77	Combustion Synthesis of p-Type Transparent Conducting CuCrO ₂ and Cu:CrO _x Thin Films at 180 Å°C. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3732-3738.	8.0	29
78	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
79	Near-field scanning optical microscopy studies of Cu(In,Ga)Se ₂ solar cells. <i>Applied Physics Letters</i> , 1997, 70, 3555-3557.	3.3	28
80	Surface photovoltage characterization of organic photovoltaic devices. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	28
81	Direct measurement of the guided modes in LiNbO ₃ waveguides. <i>Applied Physics Letters</i> , 2002, 80, 2239-2241.	3.3	26
82	Soft lithography contacts to organics. <i>Materials Today</i> , 2005, 8, 42-54.	14.2	26
83	Effects of Environmental Water Absorption by Solution-Deposited Al ₂ O ₃ Gate Dielectrics on Thin Film Transistor Performance and Mobility. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39435-39440.	8.0	26
84	Surface chemistry and surface electronic properties of ZnO single crystals and nanorods. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 328-335.	2.1	25
85	Open-Circuit Voltage Improvement in Hybrid ZnO/Polymer Photovoltaic Devices With Oxide Engineering. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1587-1594.	2.9	25
86	Photonic curing of solution-deposited ZrO ₂ dielectric on PEN: a path towards high-throughput processing of oxide electronics. <i>Npj Flexible Electronics</i> , 2020, 4, .	10.7	25
87	Terahertz near-field imaging. <i>Physics in Medicine and Biology</i> , 2002, 47, 3727-3734.	3.0	24
88	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
89	Effects of synthesis conditions on structure and surface properties of SmMn ₂ O ₅ mullite-type oxide. <i>Applied Surface Science</i> , 2016, 385, 490-497.	6.1	24
90	Origin of Photocurrent in Fullerene-Based Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15140-15148.	3.1	24

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91	Mg Doped CuCrO ₂ as Efficient Hole Transport Layers for Organic and Perovskite Solar Cells. <i>Nanomaterials</i> , 2019, 9, 1311.	4.1	24
92	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
93	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
94	Metal Oxide-Induced Instability and Its Mitigation in Halide Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8495-8506.	4.6	22
95	Self-organization of (In,Ga)As/GaAs quantum dots on relaxed (In,Ga)As films. <i>Applied Physics Letters</i> , 1998, 73, 2164-2166.	3.3	21
96	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
97	Improved Efficiency in Poly(3-hexylthiophene)/Zinc Oxide Solar Cells via Lithium Incorporation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17608-17612.	3.1	21
98	Electron Beam-Induced Damage of Alkanethiolate Self-Assembled Monolayers Adsorbed on GaAs (001): A Static SIMS Investigation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5400-5409.	3.1	20
99	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
100	Role of Charge Transfer States in P3HT-Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27681-27689.	3.1	20
101	Studies of electrically active defects in relaxed GeSi films using a near-field scanning optical microscope. <i>Journal of Applied Physics</i> , 1996, 79, 7743-7750.	2.5	19
102	Influence of SrTiO ₃ bicrystal microstructural defects on YBa ₂ Cu ₃ O ₇ grain-boundary Josephson junctions. <i>Applied Physics Letters</i> , 1997, 70, 1882-1884.	3.3	19
103	Theory of probing a photonic crystal with transmission near-field optical microscopy. <i>Physical Review B</i> , 1998, 58, 2131-2141.	3.2	19
104	Spatial variation of electrical properties in lateral epitaxially overgrown GaN. <i>Applied Physics Letters</i> , 2001, 79, 761-763.	3.3	18
105	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
106	Effects of Photonic Curing Processing Conditions on MAPbI ₃ Film Properties and Solar Cell Performance. <i>ACS Applied Energy Materials</i> , 2020, 3, 8636-8645.	5.1	18
107	Stable and Bright Electroluminescent Devices utilizing Emissive OD Perovskite Nanocrystals Incorporated in a 3D CsPbBr ₃ Matrix. <i>Advanced Materials</i> , 2022, 34, .	21.0	18
108	Carrier density imaging of lateral epitaxially overgrown GaN using scanning confocal Raman microscopy. <i>Applied Physics Letters</i> , 2001, 79, 3086-3088.	3.3	17

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109	Mapping the optical intensity distribution in photonic crystals using a near-field scanning optical microscope. <i>Journal of Applied Physics</i> , 2001, 89, 2801-2807.	2.5	17
110	Spatial distribution of yellow luminescence related deep levels in GaN. <i>Applied Physics Letters</i> , 2003, 83, 4172-4174.	3.3	17
111	Thermal stability of mullite $\text{R}_2\text{Mn}_2\text{O}_5$ ($\text{R} = \text{Bi, Y, Pr, Sm or Gd}$): combined density functional theory and experimental study. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 125602.	1.8	17
112	Scanning force microscopy studies of GaAs films grown on offcut Ge substrates. <i>Journal of Electronic Materials</i> , 1998, 27, 1010-1016.	2.2	16
113	Surface morphology and electronic properties of dislocations in AlGaIn/GaN heterostructures. <i>Journal of Electronic Materials</i> , 2001, 30, 110-114.	2.2	16
114	Molecular monolayer modification of the cathode in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2006, 89, 223511.	3.3	16
115	In Situ Chemical Oxidation of Ultrasmall MoO_x Nanoparticles in Suspensions. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-5.	3.4	16
116	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
117	Superior low-temperature NO catalytic performance of PrMn_2O_5 over SmMn_2O_5 mullite-type catalysts. <i>Catalysis Science and Technology</i> , 2019, 9, 2758-2766.	4.1	16
118	Resolution and contrast in near-field photocurrent imaging of defects on semiconductors. <i>Journal of Applied Physics</i> , 1997, 82, 748-755.	2.5	15
119	Microstructure dependence of nanometre corrosion in Al-Ni-Y glassy alloys. <i>Philosophical Magazine Letters</i> , 2000, 80, 85-94.	1.2	15
120	Zinc Oxide Growth Morphology on Self-Assembled Monolayer Modified Silver Surfaces. <i>Langmuir</i> , 2008, 24, 5375-5381.	3.5	15
121	Quantitative Analyses of Competing Photocurrent Generation Mechanisms in Fullerene-Based Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16470-16477.	3.1	15
122	Critical Role of Mullite-type Oxides' Surface Chemistry on Catalytic NO Oxidation Performance. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5385-5393.	3.1	15
123	Opposite Polarity Surface Photovoltage of MoS_2 Monolayers on Au Nanodot versus Nanohole Arrays. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48991-48997.	8.0	15
124	Photonic Curing of Nickel Oxide Transport Layer and Perovskite Active Layer for Flexible Perovskite Solar Cells: A Path Towards High-Throughput Manufacturing. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	15
125	Direct imaging of multimode interference in a channel waveguide. <i>Optics Letters</i> , 2003, 28, 399.	3.3	14
126	Comparison of Chemical Lithography Using Alkanethiolate Self-Assembled Monolayers on GaAs (001) and Au. <i>Langmuir</i> , 2010, 26, 4523-4528.	3.5	14

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127	Organic-inorganic hybrid semiconductor thin films deposited using molecular-atomic layer deposition (MALD). <i>Journal of Materials Chemistry C</i> , 2016, 4, 2382-2389.	5.5	14
128	Bulk and interfacial decomposition of formamidinium iodide (HC(NH ₂) ₂) ₂ I in contact with metal oxide. <i>Materials Advances</i> , 2020, 1, 3349-3357.	5.4	14
129	Scaling of surface roughness in a heterogeneous film growth system: GeSi _{1-x} on Si. <i>Physical Review B</i> , 1996, 53, R7610-R7613.	3.2	13
130	Topographic and electronic studies of wedge-shape surface defects on AlGaAs/GaAs films grown on Ge substrates. <i>Applied Physics Letters</i> , 1999, 75, 2111-2113.	3.3	13
131	Near-field scanning optical microscope studies of the anisotropic stress variations in patterned SiN membranes. <i>Journal of Applied Physics</i> , 2002, 91, 646-651.	2.5	12
132	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
133	Influence of Ga vs As prelayers on GaAs/Ge growth morphology. <i>Journal of Electronic Materials</i> , 1996, 25, 1009-1013.	2.2	11
134	Anomalous index contrast due to point source illumination in scanning optical microscopy. <i>Journal of Applied Physics</i> , 1997, 81, 2488-2491.	2.5	11
135	Direct imaging of submicron-scale defect-induced birefringence in SrTiO ₃ bicrystals. <i>Journal of Applied Physics</i> , 1998, 84, 189-193.	2.5	11
136	Effect of Anisotropic Strain on the Crosshatch Electrical Activity in Relaxed GeSi Films. <i>Physical Review Letters</i> , 2001, 86, 3598-3601.	7.8	11
137	Ballistic electron and photocurrent transport in Au-molecular layer-GaAs diodes. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	11
138	Electron-Beam-Induced Damage of Alkanethiolate Self-Assembled Monolayers (SAMs): Dependence on Monolayer Structure and Substrate Conductivity. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9362-9369.	3.1	11
139	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
140	Role of Contact Injection, Exciton Dissociation, and Recombination, Revealed through Voltage and Intensity Mapping of the Quantum Efficiency of Polymer:Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10146-10155.	3.1	11
141	Comparison of conventional and inverted organic photovoltaic devices with controlled illumination area and extraction layers. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 592-599.	6.2	11
142	Effect of R-site element on crystalline phase and thermal stability of Fe substituted Mn mullite-type oxides: R ₂ (Mn _{1-x} Fe _x) ₄ O ₁₀ (R = Y, Sm or Tm). <i>Journal of Applied Physics</i> , 2014, 116, 014301.	3.6	11
143	Growth of GaN on SiC(0001) by Molecular Beam Epitaxy. <i>Physica Status Solidi A</i> , 2001, 188, 595-599.	1.7	10
144	High frequency impedance spectroscopy on ZnO nanorod arrays. <i>Journal of Applied Physics</i> , 2010, 107, 064312.	2.5	10

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145	Effects of TiO ₂ nanoparticle size and concentration on dielectric properties of polypropylene nanocomposites. <i>Journal of Materials Science</i> , 2018, 53, 9149-9159.	3.7	10
146	A shear force feedback control system for near-field scanning optical microscopes without lock-in detection. <i>Review of Scientific Instruments</i> , 1997, 68, 3093-3095.	1.3	9
147	Impurity band in the interfacial region of GaN films grown by hydride vapor phase epitaxy. <i>Journal of Electronic Materials</i> , 2001, 30, 115-122.	2.2	9
148	Local imaging of photonic structures: image contrast from impedance mismatch. <i>Optics Letters</i> , 2002, 27, 415.	3.3	9
149	Integrated Experimentalâ€Theoretical Approach To Determine Reliable Molecular Reaction Mechanisms on Transition-Metal Oxide Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30460-30469.	8.0	9
150	Revealing lattice and photocarrier dynamics of high-quality MAPbBr ₃ single crystals by far infrared reflection and surface photovoltage spectroscopy. <i>Journal of Applied Physics</i> , 2019, 125, 025706.	2.5	9
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