

David S Ginley

List of Publications by Year in descending order

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259
papers

15,456
citations

20817

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Formation of $6\text{H-Ba}_3\text{Ce}_{0.75}\text{Mn}_{2.25}\text{O}_9$ during Thermochemical Reduction of $12\text{R-Ba}_4\text{CeMn}_3\text{O}_{12}$: Identification of a Polytype in the $\text{Ba}(\text{Ce},\text{Mn})\text{O}_3$ Family. <i>Inorganic Chemistry</i> , 2022, 61, 6128-6137.	4.0	6
2	Exotic Materials and Innovative Concepts for Photovoltaics. <i>ACS Applied Energy Materials</i> , 2022, 5, 5297-5297.	5.1	0
3	Phase formation of manganese oxide thin films using pulsed laser deposition. <i>Materials Advances</i> , 2021, 2, 303-309.	5.4	9
4	Rapid Identification of Synthetic Routes to Functional Metastable Phases Using X-ray Probed Laser Anneal Mapping (XPLAM) Time-Temperature Quench Maps. <i>Chemistry of Materials</i> , 2021, 33, 4328-4336.	6.7	7
5	Performance and reliability of $\text{In}^2\text{-Ga}_2\text{O}_3$ Schottky barrier diodes at high temperature. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	2.1	19
6	Stromataxic Stabilization of a Metastable Layered ScFeO_3 Polymorph. <i>Chemistry of Materials</i> , 2021, 33, 7423-7431.	6.7	6
7	Materials for electrification of everything: Moving toward sustainability. <i>MRS Bulletin</i> , 2021, 46, 1130-1138.	3.5	5
8	Utilizing TiO_2 amorphous precursors for polymorph selection: An in situ TEM study of phase formation and kinetics. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2899-2907.	3.8	9
9	Practical challenges in the development of photoelectrochemical solar fuels production. <i>Sustainable Energy and Fuels</i> , 2020, 4, 985-995.	4.9	58
10	Exploring the Link Between Amorphous Structure and Crystallization Behavior of Titania Thin Films by Electron-Based Pair Distribution Functions and in-situ TEM. <i>Microscopy and Microanalysis</i> , 2019, 25, 1506-1507.	0.4	1
11	Prototype latent heat storage system with aluminum-silicon as a phase change material and a Stirling engine for electricity generation. <i>Energy Conversion and Management</i> , 2019, 199, 111992.	9.2	14
12	The existence and impact of persistent ferroelectric domains in MAPbI_3 . <i>Science Advances</i> , 2019, 5, eaas9311.	10.3	77
13	Hybrid Multifunctional Transparent Conductors. , 2019, , 175-194.		1
14	High-Throughput Experimental Study of Wurtzite $\text{Mn}_{1-x}\text{Zn}_x\text{O}$ Alloys for Water Splitting Applications. <i>ACS Omega</i> , 2019, 4, 7436-7447.	3.5	5
15	Selective brookite polymorph formation related to the amorphous precursor state in TiO_2 thin films. <i>Journal of Non-Crystalline Solids</i> , 2019, 505, 109-114.	3.1	13
16	Performance modeling and techno-economic analysis of a modular concentrated solar power tower with latent heat storage. <i>Applied Energy</i> , 2018, 217, 143-152.	10.1	58
17	Correlative Raman spectroscopy and focused ion beam for targeted phase boundary analysis of titania polymorphs. <i>Ultramicroscopy</i> , 2018, 188, 48-51.	1.9	5
18	Experimental demonstration of a latent heat storage system for dispatchable electricity. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	5

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19	Demonstration of a thermosyphon thermal valve for controlled extraction of stored solar thermal energy. AIP Conference Proceedings, 2018, , .	0.4	3
20	Techno-economic analysis of a small scale solar power tower at varied locations. AIP Conference Proceedings, 2018, , .	0.4	6
21	Experimental demonstration of a dispatchable latent heat storage system with aluminum-silicon as a phase change material. Applied Energy, 2018, 230, 1218-1229.	10.1	32
22	Understanding crystallization pathways leading to manganese oxide polymorph formation. Nature Communications, 2018, 9, 2553.	12.8	98
23	Theoryâ€Guided Synthesis of a Metastable Leadâ€Free Piezoelectric Polymorph. Advanced Materials, 2018, 30, 1800559.	21.0	6
24	Reliability and heat transfer performance of a miniature high-temperature thermosyphon-based thermal valve. International Journal of Heat and Mass Transfer, 2018, 125, 1079-1086.	4.8	7
25	Design of a thermosyphon-based thermal valve for controlled high-temperature heat extraction. Applied Thermal Engineering, 2017, 126, 1141-1147.	6.0	12
26	Novel phase diagram behavior and materials design in heterostructural semiconductor alloys. Science Advances, 2017, 3, e1700270.	10.3	46
27	High-fraction brookite films from amorphous precursors. Scientific Reports, 2017, 7, 15232.	3.3	56
28	Development of solution-processed nanowire composites for opto-electronics. MRS Communications, 2016, 6, 341-347.	1.8	3
29	Structure property relationships in gallium oxide thin films grown by pulsed laser deposition. MRS Communications, 2016, 6, 348-353.	1.8	17
30	Synthesis of a mixed-valent tin nitride and considerations of its possible crystal structures. Journal of Chemical Physics, 2016, 144, 144201.	3.0	29
31	Conduction and rectification in NbOx- and NiO-based metal-insulator-metal diodes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	2.1	5
32	Influence of amorphous structure on polymorphism in vanadia. APL Materials, 2016, 4, .	5.1	15
33	Computational Approach for Epitaxial Polymorph Stabilization through Substrate Selection. ACS Applied Materials & Interfaces, 2016, 8, 13086-13093.	8.0	78
34	The Role of Nanoscale Seed Layers on the Enhanced Performance of Niobium doped TiO2 Thin Films on Glass. Scientific Reports, 2016, 6, 32830.	3.3	12
35	Identifying defect-tolerant semiconductors with high minority-carrier lifetimes: beyond hybrid lead halide perovskites. MRS Communications, 2015, 5, 265-275.	1.8	662
36	Atmospheric-pressure processed silver nanowire (Ag-NW) / ZnO composite transparent conducting contacts. , 2015, , .		3

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37	Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. <i>Advanced Materials</i> , 2015, 27, 5102-5112.	21.0	372
38	Confirmation of the Dominant Defect Mechanism in Amorphous In-Zn-O Through the Application of <i>In Situ</i> Brouwer Analysis. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2099-2103.	3.8	8
39	Rapid thermal processing chamber for <i>in-situ</i> x-ray diffraction. <i>Review of Scientific Instruments</i> , 2015, 86, 013902.	1.3	15
40	Opportunities for improving photovoltaic performance with better transparent contacts. , 2015, , .		0
41	Semiconducting properties of spinel tin nitride and other IV ₃ N ₄ polymorphs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1389-1396.	5.5	49
42	Non-equilibrium synthesis, structure, and opto-electronic properties of Cu _{2-2x} Zn _x O alloys. <i>Journal of Materials Science</i> , 2015, 50, 1350-1357.	3.7	17
43	Design of Semiconducting Tetrahedral Mn_3O_4 Alloys and Their Application to Solar Water Splitting. <i>Physical Review X</i> , 2015, 5, .	8.9	34
44	Improving mechanical stability and electrical properties of silver nanowire films with a zinc tin oxide overcoat. , 2014, , .		5
45	Impact of Hole Transport Layer Surface Properties on the Morphology of a Polymer-Fullerene Bulk Heterojunction. <i>Advanced Energy Materials</i> , 2014, 4, 1301879.	19.5	28
46	Cyclopenta[c]thiophene-4,6-dione-Based Copolymers as Organic Photovoltaic Donor Materials. <i>Advanced Energy Materials</i> , 2014, 4, 1301821.	19.5	12
47	Chemically Controlled Reversible and Irreversible Extraction Barriers Via Stable Interface Modification of Zinc Oxide Electron Collection Layer in Polycarbazole-based Organic Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 4671-4680.	14.9	76
48	Improved Performance in Bulk Heterojunction Organic Solar Cells with a Sol-Gel MgZnO Electron-Collecting Layer. <i>Advanced Energy Materials</i> , 2014, 4, 1400073.	19.5	22
49	Control of the Electrical Properties in Spinel Oxides by Manipulating the Cation Disorder. <i>Advanced Functional Materials</i> , 2014, 24, 610-618.	14.9	109
50	Enhanced Electron Mobility Due to Dopant-Defect Pairing in Conductive ZnMgO. <i>Advanced Functional Materials</i> , 2014, 24, 2875-2882.	14.9	49
51	Assessing capability of semiconductors to split water using ionization potentials and electron affinities only. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3706.	2.8	226
52	Non-equilibrium deposition of phase pure Cu ₂ O thin films at reduced growth temperature. <i>APL Materials</i> , 2014, 2, .	5.1	55
53	Defect-Driven Interfacial Electronic Structures at an Organic/Metal-Oxide Semiconductor Heterojunction. <i>Advanced Materials</i> , 2014, 26, 4711-4716.	21.0	46
54	Defect Tolerant Semiconductors for Solar Energy Conversion. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1117-1125.	4.6	304

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55	Thin film synthesis and properties of copper nitride, a metastable semiconductor. <i>Materials Horizons</i> , 2014, 1, 424-430.	12.2	116
56	Processing-phase diagrams: a new tool for solution-deposited thin-film development applied to the In ₅ O(OPri) ₃ –In ₂ O ₃ system. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2360.	5.5	2
57	Control of Doping in Cu ₂ SnS ₃ through Defects and Alloying. <i>Chemistry of Materials</i> , 2014, 26, 4951-4959.	6.7	136
58	Experimental Synthesis and Properties of Metastable CuNbN ₂ and Theoretical Extension to Other Ternary Copper Nitrides. <i>Chemistry of Materials</i> , 2014, 26, 4970-4977.	6.7	55
59	Self-Doping and Electrical Conductivity in Spinel Oxides: Experimental Validation of Doping Rules. <i>Chemistry of Materials</i> , 2014, 26, 1867-1873.	6.7	35
60	Semi-random vs Well-Defined Alternating Donor–Acceptor Copolymers. <i>ACS Macro Letters</i> , 2014, 3, 622-627.	4.8	27
61	Metal–Insulator–Metal Diodes: Role of the Insulator Layer on the Rectification Performance. <i>Advanced Materials</i> , 2013, 25, 1301-1308.	21.0	58
62	Evaluation of photovoltaic materials within the Cu-Sn-S family. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	117
63	Improved fill factors in solution-processed ZnO/Cu ₂ O photovoltaics. <i>Thin Solid Films</i> , 2013, 536, 280-285.	1.8	24
64	Strong optical absorption in CuTaN ₂ nitride delafossite. <i>Energy and Environmental Science</i> , 2013, 6, 2994.	30.8	42
65	Formation of interfacial traps upon surface protonation in small molecule solution processed bulk heterojunctions probed by photoelectron spectroscopy. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6223.	5.5	31
66	Enhanced Fuel Cell Catalyst Durability with Nitrogen Modified Carbon Supports. <i>Journal of the Electrochemical Society</i> , 2013, 160, F389-F394.	2.9	16
67	Investigating the Influence of Interfacial Contact Properties on Open Circuit Voltages in Organic Photovoltaic Performance: Work Function Versus Selectivity. <i>Advanced Energy Materials</i> , 2013, 3, 647-656.	19.5	122
68	Highly-Tunable Nickel Cobalt Oxide as a Low-Temperature p-Type Contact in Organic Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2013, 3, 524-531.	19.5	38
69	5,10-Dihydroindolo[3,2- <i>b</i>]indole-Based Copolymers with Alternating Donor and Acceptor Moieties for Organic Photovoltaics. <i>Macromolecules</i> , 2013, 46, 1350-1360.	4.8	63
70	Li-Doped Cr ₂ MnO ₄ : A New p-Type Transparent Conducting Oxide by Computational Materials Design. <i>Advanced Functional Materials</i> , 2013, 23, 5267-5276.	14.9	57
71	Development and application of an instrument for spatially resolved Seebeck coefficient measurements. <i>Review of Scientific Instruments</i> , 2013, 84, 053905.	1.3	34
72	Theoretical Prediction and Experimental Realization of New Stable Inorganic Materials Using the Inverse Design Approach. <i>Journal of the American Chemical Society</i> , 2013, 135, 10048-10054.	13.7	111

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73	Ethynylene-Linked Donor-acceptor Alternating Copolymers. <i>Macromolecules</i> , 2013, 46, 3367-3375.	4.8	57
74	Combinatorial approach to correlations of properties in copper nitride. , 2013, , .		2
75	Non-equilibrium origin of high electrical conductivity in gallium zinc oxide thin films. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	51
76	Electromechanical tuning of nanoscale MIM diodes by nanoindentation. <i>Journal of Materials Research</i> , 2013, 28, 1912-1919.	2.6	4
77	The shift to advanced materials:GM's Alan Taub surveys future of the auto industry. <i>MRS Bulletin</i> , 2012, 37, 196-203.	3.5	0
78	Using amorphous zinc-tin oxide alloys in the emitter structure of CIGS PV devices. , 2012, , .		0
79	Radio-frequency superimposed direct current magnetron sputtered Ga:ZnO transparent conducting thin films. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	13
80	Low-temperature, solution-processed molybdenum oxide hole-collection layer for organic photovoltaics. <i>Journal of Materials Chemistry</i> , 2012, 22, 3249.	6.7	147
81	Improvement of Interfacial Contacts for New Small-molecule Bulk-heterojunction Organic Photovoltaics. <i>Advanced Materials</i> , 2012, 24, 5368-5373.	21.0	132
82	Benzodithiophene and Imide-Based Copolymers for Photovoltaic Applications. <i>Chemistry of Materials</i> , 2012, 24, 1346-1356.	6.7	58
83	Sputtered nickel oxide thin film for efficient hole transport layer in polymer-fullerene bulk-heterojunction organic solar cell. <i>Thin Solid Films</i> , 2012, 520, 3813-3818.	1.8	40
84	The origin of electrical property deterioration with increasing Mg concentration in ZnMgO:Ga. <i>Thin Solid Films</i> , 2012, 520, 3697-3702.	1.8	38
85	Surface composition, work function, and electrochemical characteristics of gallium-doped zinc oxide. <i>Thin Solid Films</i> , 2012, 520, 5652-5663.	1.8	27
86	Solution deposited precursors and rapid optical processing used in the production of CIGS solar cells. , 2011, , .		0
87	Tuning Carbon-Based Fuel Cell Catalyst Support Structures via Nitrogen Functionalization. I. Investigation of Structural and Compositional Modification of Highly Oriented Pyrolytic Graphite Model Catalyst Supports as a Function of Nitrogen Implantation Dose. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13667-13675.	3.1	76
88	A novel way to characterize Metal-Insulator-Metal devices via nanoindentation. , 2011, , .		4
89	Tuning Carbon-Based Fuel Cell Catalyst Support Structures via Nitrogen Functionalization. II. Investigation of Durability of Pt-Ru Nanoparticles Supported on Highly Oriented Pyrolytic Graphite Model Catalyst Supports As a Function of Nitrogen Implantation Dose. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13676-13684.	3.1	54
90	Pt-Ru Alloyed Fuel Cell Catalysts Sputtered from a Single Alloyed Target. <i>ACS Catalysis</i> , 2011, 1, 1307-1315.	11.2	32

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91	Photoinduced Carrier Generation and Decay Dynamics in Intercalated and Non-intercalated Polymer:Fullerene Bulk Heterojunctions. ACS Nano, 2011, 5, 5635-5646.	14.6	67
92	Evidence for near-Surface NiOOH Species in Solution-Processed NiO Selective Interlayer Materials: Impact on Energetics and the Performance of Polymer Bulk Heterojunction Photovoltaics. Chemistry of Materials, 2011, 23, 4988-5000.	6.7	343
93	Solution processing of transparent conductors: from flask to film. Chemical Society Reviews, 2011, 40, 5406.	38.1	335
94	Inkjet printed metallizations for Cu(In _{1-x} Ga _x)Se ₂ photovoltaic cells. Progress in Photovoltaics: Research and Applications, 2011, 19, 973-976.	8.1	9
95	Fabrication and Characterization of MIM Diodes Based on Nb/Nb ₂ O ₅ Via a Rapid Screening Technique. Advanced Materials, 2011, 23, 3080-3085.	21.0	66
96	Enhanced Efficiency in Plastic Solar Cells via Energy Matched Solution Processed NiO Interlayers. Advanced Energy Materials, 2011, 1, 813-820.	19.5	299
97	Tensile strain and water vapor transport testing of flexible, conductive and transparent indium-zinc-oxide/silver/indium-zinc-oxide thin films. Thin Solid Films, 2011, 519, 3177-3184.	1.8	11
98	An alternative method to determine the steady state nucleation rate in thermally annealed HWCVD a-Si:H films. Thin Solid Films, 2011, 519, 4455-4458.	1.8	5
99	Overcoming degradation in organic photovoltaics: Illuminating the role of fullerene functionalization. , 2011, , .		2
100	MRS Establishes a Publishing Partnership with Cambridge University Press: A New Era Begins. MRS Bulletin, 2010, 35, 483-483.	3.5	0
101	Shape the Future of MRS. MRS Bulletin, 2010, 35, 563-563.	3.5	0
102	Have You Ever Wanted to Be a Board Member?. MRS Bulletin, 2010, 35, 261-261.	3.5	0
103	Diversity in MRS and in MRS leadership: Use your vote. MRS Bulletin, 2010, 35, 638-639.	3.5	0
104	What a productive year!. MRS Bulletin, 2010, 35, 941-942.	3.5	1
105	Surface Treatment of NiO Hole Transport Layers for Organic Solar Cells. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1649-1655.	2.9	34
106	The Effect of Nanoparticle Shape on the Photocarrier Dynamics and Photovoltaic Device Performance of Poly(3-hexylthiophene):CdSe Nanoparticle Bulk Heterojunction Solar Cells. Advanced Functional Materials, 2010, 20, 2629-2635.	14.9	139
107	Photoinduced Degradation of Polymer and Polymer-Fullerene Active Layers: Experiment and Theory. Advanced Functional Materials, 2010, 20, 3476-3483.	14.9	248
108	Solution deposited NiO thin-films as hole transport layers in organic photovoltaics. Organic Electronics, 2010, 11, 1414-1418.	2.6	282

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109	Effect of deposition distance and temperature on electrical, optical and structural properties of radio-frequency magnetron-sputtered gallium-doped zinc oxide. <i>Thin Solid Films</i> , 2010, 519, 190-196.	1.8	36
110	Control of charge separation by electric field manipulation in polymer-oxide hybrid organic photovoltaic bilayer devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 1257-1265.	1.8	13
111	High-Efficiency Low-Cost Photovoltaic Modules Based on CIGS Thin Films from Solution Precursors. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1247, 1.	0.1	0
112	Triphenylamine-based star-shaped absorbers with tunable energy levels for organic photovoltaics. , 2010, , .		0
113	Superimposed RF/DC magnetron sputtering of transparent Ga:ZnO with high conductivity for photovoltaic contacts applications. , 2010, , .		0
114	Field assisted simultaneous synthesis and transfer FASST method used in conjunction with liquid precursors to produce CIGS solar cells. , 2010, , .		1
115	Highly efficient blue organic light emitting device using indium-free transparent anode Ga:ZnO with scalability for large area coating. <i>Journal of Applied Physics</i> , 2010, 107, 043103.	2.5	19
116	Charge Transport Simulations in Conjugated Dendrimers. <i>Journal of Physical Chemistry A</i> , 2010, 114, 4388-4393.	2.5	43
117	Solution Synthesis and Characterization of Indium-Zinc Formate Precursors for Transparent Conducting Oxides. <i>Inorganic Chemistry</i> , 2010, 49, 5424-5431.	4.0	13
118	Metal-insulator-metal point-contact diodes as a rectifier for rectenna. , 2010, , .		4
119	Effect of Sb Ions on the Morphology of Chemical Bath-Deposited ZnO Films and Application to Nanoporous Solar Cells. <i>Crystal Growth and Design</i> , 2010, 10, 4442-4448.	3.0	12
120	Conjugated Thiophene Dendrimer with an Electron-Withdrawing Core and Electron-Rich Dendrons: How the Molecular Structure Affects the Morphology and Performance of Dendrimer:Fullerene Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22269-22276.	3.1	27
121	Dopant-Induced Electronic Structure Modification of HOPG Surfaces: Implications for High Activity Fuel Cell Catalysts. <i>Journal of Physical Chemistry C</i> , 2010, 114, 506-515.	3.1	100
122	Photovoltaic Devices with a Low Band Gap Polymer and CdSe Nanostructures Exceeding 3% Efficiency. <i>Nano Letters</i> , 2010, 10, 239-242.	9.1	400
123	Low-Cost Inorganic Solar Cells: From Ink To Printed Device. <i>Chemical Reviews</i> , 2010, 110, 6571-6594.	47.7	412
124	Direct write metallization for photovoltaic cells and scaling thereof. , 2010, , .		10
125	Optimization of organic photovoltaic devices using tuned mixed metal oxide contact layers. , 2010, , .		2
126	Enhanced lifetime in unencapsulated organic photovoltaics with air stable electrodes. , 2010, , .		6

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127	Humidity-resistant high-conductivity amorphous-InZnO transparent conductors. , 2009, , .		2
128	Solution deposition of amorphous IZO films by ultrasonic spray pyrolysis. , 2009, , .		2
129	Inkjet printed contacts for use in photovoltaics. , 2009, , .		6
130	Atmospheric pressure synthesis of In_2Se_3 , Cu_2Se , and CuInSe_2 without external selenization from solution precursors. Journal of Materials Research, 2009, 24, 1375-1387.	2.6	9
131	Comparison of Molecular Monolayer Interface Treatments in Organic-inorganic Photovoltaic Devices. Materials Research Society Symposia Proceedings, 2009, 1154, 1.	0.1	0
132	Ultrasonically sprayed and inkjet printed thin film electrodes for organic solar cells. Thin Solid Films, 2009, 517, 2781-2786.	1.8	99
133	Direct Synthesis of CdSe Nanoparticles in Poly(3-hexylthiophene). Journal of the American Chemical Society, 2009, 131, 17726-17727.	13.7	61
134	Structure-Dependent Photophysics of First-Generation Phenyl-Cored Thiophene Dendrimers. Chemistry of Materials, 2009, 21, 287-297.	6.7	27
135	Impact of contact evolution on the shelf life of organic solar cells. Journal of Materials Chemistry, 2009, 19, 7638.	6.7	165
136	Low-bandgap thiophene dendrimers for improved light harvesting. Journal of Materials Chemistry, 2009, 19, 5311.	6.7	46
137	Improving PEM fuel cell catalyst activity and durability using nitrogen-doped carbon supports: observations from model Pt/HOPG systems. Journal of Materials Chemistry, 2009, 19, 7830.	6.7	149
138	The Remarkable Thermal Stability of Amorphous In_2ZnO Transparent Conductors. Advanced Functional Materials, 2008, 18, 3169-3178.	14.9	155
139	Pulsed laser deposited Nb doped TiO_2 as a transparent conducting oxide. Thin Solid Films, 2008, 516, 4133-4138.	1.8	65
140	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
141	Spray deposition of high quality CuInSe_2 and CdTe films. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	7
142	Solar Energy Conversion Toward 1 Terawatt. MRS Bulletin, 2008, 33, 355-364.	3.5	305
143	Transparent conducting contacts based on zinc oxide substitutionally doped with gallium. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	0
144	Direct-write contacts: Metallization and contact formation. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , .	0.0	4

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145	General mobility and carrier concentration relationship in transparent amorphous indium zinc oxide films. <i>Physical Review B</i> , 2008, 77, .	3.2	208
146	Optimal negative electrodes for poly(3-hexylthiophene): [6,6]-phenyl C61-butyric acid methyl ester bulk heterojunction photovoltaic devices. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	172
147	Enhancement of Pt-Based Catalysts via N-Doped Carbon Supports. , 2008, , .		0
148	Improving PEM Fuel Cell Catalysts Using Nitrogen-Doped Carbon Supports. , 2008, , .		0
149	Time tuning of ferroelectric film varactors under pulse voltages. <i>Applied Physics Letters</i> , 2007, 91, 022905.	3.3	17
150	Active Integrated Antenna Based on Planar Dielectric Resonator With Tuning Ferroelectric Varactor. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007, 55, 2951-2956.	4.6	10
151	Fabrication of nanoporous titania on glass and transparent conducting oxide substrates by anodization of titanium films. <i>Journal of Materials Research</i> , 2007, 22, 681-687.	2.6	25
152	Transparent Conducting Oxides for Photovoltaics. <i>MRS Bulletin</i> , 2007, 32, 242-247.	3.5	788
153	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
154	The Effect of Atmosphere and ZnO Morphology on the Performance of Hybrid Poly(3-hexylthiophene)/ZnO Nanofiber Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16670-16678.	3.1	204
155	Sputtered Nb- and Ta-doped TiO ₂ transparent conducting oxide films on glass. <i>Journal of Materials Research</i> , 2007, 22, 2832-2837.	2.6	49
156	rf magnetron sputter deposition of transparent conducting Nb-doped TiO ₂ films on SrTiO ₃ . <i>Journal of Applied Physics</i> , 2007, 101, 033125.	2.5	104
157	Bulk heterojunction organic photovoltaic devices based on phenyl-cored thiophene dendrimers. <i>Applied Physics Letters</i> , 2006, 89, 103524.	3.3	130
158	Multi-Layer Inkjet Printed Contacts for Silicon Solar Cells. , 2006, , .		11
159	Nonlinear properties of thin ferroelectric film-based capacitors at elevated microwave power. <i>Applied Physics Letters</i> , 2006, 89, 232901.	3.3	14
160	Dependence of Band Offset and Open-Circuit Voltage on the Interfacial Interaction between TiO ₂ and Carboxylated Polythiophenes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3257-3261.	2.6	99
161	A new approach to thin film crystal silicon on glass: Biaxially-textured silicon on foreign template layers. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 984-988.	3.1	64
162	Hybrid photovoltaic devices of polymer and ZnO nanofiber composites. <i>Thin Solid Films</i> , 2006, 496, 26-29.	1.8	494

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163	Preview: 2005 MRS Fall Meeting. MRS Bulletin, 2005, 30, 745-783.	3.5	0
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