

# David S Ginley

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/258307/publications.pdf>

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259  
papers

15,456  
citations

20797

60  
h-index

17580

121  
g-index

273  
all docs

273  
docs citations

273  
times ranked

18256  
citing authors

| #  | 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. | 1.9 | 6         |
| 2  | Exotic Materials and Innovative Concepts for Photovoltaics. <i>ACS Applied Energy Materials</i> , 2022, 5, 5297-5297.                                                                                                                                                                             | 2.5 | 0         |
| 3  | Phase formation of manganese oxide thin films using pulsed laser deposition. <i>Materials Advances</i> , 2021, 2, 303-309.                                                                                                                                                                        | 2.6 | 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.                                                                                       | 3.2 | 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, .                                                                                       | 0.9 | 19        |
| 6  | Stromataxic Stabilization of a Metastable Layered $\text{ScFeO}_3$ Polymorph. <i>Chemistry of Materials</i> , 2021, 33, 7423-7431.                                                                                                                                                                | 3.2 | 6         |
| 7  | Materials for electrification of everything: Moving toward sustainability. <i>MRS Bulletin</i> , 2021, 46, 1130-1138.                                                                                                                                                                             | 1.7 | 5         |
| 8  | Utilizing $\text{TiO}_2$ 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.                                                                                               | 1.9 | 9         |
| 9  | Practical challenges in the development of photoelectrochemical solar fuels production. <i>Sustainable Energy and Fuels</i> , 2020, 4, 985-995.                                                                                                                                                   | 2.5 | 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.                                                                       | 0.2 | 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.                                                                                              | 4.4 | 14        |
| 12 | The existence and impact of persistent ferroelectric domains in $\text{MAPbI}_3$ . <i>Science Advances</i> , 2019, 5, eaas9311.                                                                                                                                                                   | 4.7 | 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.                                                                                                                               | 1.6 | 5         |
| 15 | Selective brookite polymorph formation related to the amorphous precursor state in $\text{TiO}_2$ thin films. <i>Journal of Non-Crystalline Solids</i> , 2019, 505, 109-114.                                                                                                                      | 1.5 | 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.                                                                                                                               | 5.1 | 58        |
| 17 | Correlative Raman spectroscopy and focused ion beam for targeted phase boundary analysis of titania polymorphs. <i>Ultramicroscopy</i> , 2018, 188, 48-51.                                                                                                                                        | 0.8 | 5         |
| 18 | Experimental demonstration of a latent heat storage system for dispatchable electricity. <i>AIP Conference Proceedings</i> , 2018, , .                                                                                                                                                            | 0.3 | 5         |

| #  | ARTICLE                                                                                                                                                                            | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Demonstration of a thermosyphon thermal valve for controlled extraction of stored solar thermal energy. AIP Conference Proceedings, 2018, , .                                      | 0.3  | 3         |
| 20 | Techno-economic analysis of a small scale solar power tower at varied locations. AIP Conference Proceedings, 2018, , .                                                             | 0.3  | 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.                    | 5.1  | 32        |
| 22 | Understanding crystallization pathways leading to manganese oxide polymorph formation. Nature Communications, 2018, 9, 2553.                                                       | 5.8  | 98        |
| 23 | Theoryâ€Guided Synthesis of a Metastable Leadâ€Free Piezoelectric Polymorph. Advanced Materials, 2018, 30, 1800559.                                                                | 11.1 | 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. | 2.5  | 7         |
| 25 | Design of a thermosyphon-based thermal valve for controlled high-temperature heat extraction. Applied Thermal Engineering, 2017, 126, 1141-1147.                                   | 3.0  | 12        |
| 26 | Novel phase diagram behavior and materials design in heterostructural semiconductor alloys. Science Advances, 2017, 3, e1700270.                                                   | 4.7  | 46        |
| 27 | High-fraction brookite films from amorphous precursors. Scientific Reports, 2017, 7, 15232.                                                                                        | 1.6  | 56        |
| 28 | Development of solution-processed nanowire composites for opto-electronics. MRS Communications, 2016, 6, 341-347.                                                                  | 0.8  | 3         |
| 29 | Structure property relationships in gallium oxide thin films grown by pulsed laser deposition. MRS Communications, 2016, 6, 348-353.                                               | 0.8  | 17        |
| 30 | Synthesis of a mixed-valent tin nitride and considerations of its possible crystal structures. Journal of Chemical Physics, 2016, 144, 144201.                                     | 1.2  | 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, .              | 0.9  | 5         |
| 32 | Influence of amorphous structure on polymorphism in vanadia. APL Materials, 2016, 4, .                                                                                             | 2.2  | 15        |
| 33 | Computational Approach for Epitaxial Polymorph Stabilization through Substrate Selection. ACS Applied Materials & Interfaces, 2016, 8, 13086-13093.                                | 4.0  | 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.                                       | 1.6  | 12        |
| 35 | Identifying defect-tolerant semiconductors with high minority-carrier lifetimes: beyond hybrid lead halide perovskites. MRS Communications, 2015, 5, 265-275.                      | 0.8  | 662       |
| 36 | Atmospheric-pressure processed silver nanowire (Ag-NW) / ZnO composite transparent conducting contacts. , 2015, , .                                                                |      | 3         |

| #  | ARTICLE                                                                                                                                                                                                                                                 | IF   | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Hybrid Organic-Inorganic Perovskites (HOIPs): Opportunities and Challenges. <i>Advanced Materials</i> , 2015, 27, 5102-5112.                                                                                                                            | 11.1 | 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.                                                    | 1.9  | 8         |
| 39 | Rapid thermal processing chamber for <i>in-situ</i> x-ray diffraction. <i>Review of Scientific Instruments</i> , 2015, 86, 013902.                                                                                                                      | 0.6  | 15        |
| 40 | Opportunities for improving photovoltaic performance with better transparent contacts. , 2015, , .                                                                                                                                                      |      | 0         |
| 41 | Semiconducting properties of spinel tin nitride and other IV <sub>3</sub> N <sub>4</sub> polymorphs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1389-1396.                                                                                      | 2.7  | 49        |
| 42 | Non-equilibrium synthesis, structure, and opto-electronic properties of Cu <sub>2-2x</sub> Zn <sub>x</sub> O alloys. <i>Journal of Materials Science</i> , 2015, 50, 1350-1357.                                                                         | 1.7  | 17        |
| 43 | Design of Semiconducting Tetrahedral $Mn_3O_4$ Alloys and Their Application to Solar Water Splitting. <i>Physical Review X</i> , 2015, 5, .                                                                                                             | 2.8  | 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.                                                                                    | 10.2 | 28        |
| 46 | Cyclopenta[c]thiophene-4,6-dione-Based Copolymers as Organic Photovoltaic Donor Materials. <i>Advanced Energy Materials</i> , 2014, 4, 1301821.                                                                                                         | 10.2 | 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. | 7.8  | 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.                                                                                    | 10.2 | 22        |
| 49 | Control of the Electrical Properties in Spinel Oxides by Manipulating the Cation Disorder. <i>Advanced Functional Materials</i> , 2014, 24, 610-618.                                                                                                    | 7.8  | 109       |
| 50 | Enhanced Electron Mobility Due to Dopant-Defect Pairing in Conductive ZnMgO. <i>Advanced Functional Materials</i> , 2014, 24, 2875-2882.                                                                                                                | 7.8  | 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.                                                                            | 1.3  | 226       |
| 52 | Non-equilibrium deposition of phase pure Cu <sub>2</sub> O thin films at reduced growth temperature. <i>APL Materials</i> , 2014, 2, .                                                                                                                  | 2.2  | 55        |
| 53 | Defect-Driven Interfacial Electronic Structures at an Organic/Metal-Oxide Semiconductor Heterojunction. <i>Advanced Materials</i> , 2014, 26, 4711-4716.                                                                                                | 11.1 | 46        |
| 54 | Defect Tolerant Semiconductors for Solar Energy Conversion. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1117-1125.                                                                                                                          | 2.1  | 304       |

| #  | ARTICLE                                                                                                                                                                                                                                 | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Thin film synthesis and properties of copper nitride, a metastable semiconductor. <i>Materials Horizons</i> , 2014, 1, 424-430.                                                                                                         | 6.4  | 116       |
| 56 | Processing-phase diagrams: a new tool for solution-deposited thin-film development applied to the In <sub>5</sub> O(OPri) <sub>3</sub> –In <sub>2</sub> O <sub>3</sub> system. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2360. | 2.7  | 2         |
| 57 | Control of Doping in Cu <sub>2</sub> SnS <sub>3</sub> through Defects and Alloying. <i>Chemistry of Materials</i> , 2014, 26, 4951-4959.                                                                                                | 3.2  | 136       |
| 58 | Experimental Synthesis and Properties of Metastable CuNbN <sub>2</sub> and Theoretical Extension to Other Ternary Copper Nitrides. <i>Chemistry of Materials</i> , 2014, 26, 4970-4977.                                                 | 3.2  | 55        |
| 59 | Self-Doping and Electrical Conductivity in Spinel Oxides: Experimental Validation of Doping Rules. <i>Chemistry of Materials</i> , 2014, 26, 1867-1873.                                                                                 | 3.2  | 35        |
| 60 | Semi-random vs Well-Defined Alternating Donor–Acceptor Copolymers. <i>ACS Macro Letters</i> , 2014, 3, 622-627.                                                                                                                         | 2.3  | 27        |
| 61 | Metal–Insulator–Metal Diodes: Role of the Insulator Layer on the Rectification Performance. <i>Advanced Materials</i> , 2013, 25, 1301-1308.                                                                                            | 11.1 | 58        |
| 62 | Evaluation of photovoltaic materials within the Cu-Sn-S family. <i>Applied Physics Letters</i> , 2013, 103, .                                                                                                                           | 1.5  | 117       |
| 63 | Improved fill factors in solution-processed ZnO/Cu <sub>2</sub> O photovoltaics. <i>Thin Solid Films</i> , 2013, 536, 280-285.                                                                                                          | 0.8  | 24        |
| 64 | Strong optical absorption in CuTaN <sub>2</sub> nitride delafossite. <i>Energy and Environmental Science</i> , 2013, 6, 2994.                                                                                                           | 15.6 | 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.                        | 2.7  | 31        |
| 66 | Enhanced Fuel Cell Catalyst Durability with Nitrogen Modified Carbon Supports. <i>Journal of the Electrochemical Society</i> , 2013, 160, F389-F394.                                                                                    | 1.3  | 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.                      | 10.2 | 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.                                                                            | 10.2 | 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.                                                          | 2.2  | 63        |
| 70 | Li-Doped Cr <sub>2</sub> MnO <sub>4</sub> : A New p-Type Transparent Conducting Oxide by Computational Materials Design. <i>Advanced Functional Materials</i> , 2013, 23, 5267-5276.                                                    | 7.8  | 57        |
| 71 | Development and application of an instrument for spatially resolved Seebeck coefficient measurements. <i>Review of Scientific Instruments</i> , 2013, 84, 053905.                                                                       | 0.6  | 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.                                      | 6.6  | 111       |

| #  | ARTICLE                                                                                                                                                                                                                                                                                                                                | IF   | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Ethynylene-Linked Donor-acceptor Alternating Copolymers. <i>Macromolecules</i> , 2013, 46, 3367-3375.                                                                                                                                                                                                                                  | 2.2  | 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, .                                                                                                                                                                                                 | 1.5  | 51        |
| 76 | Electromechanical tuning of nanoscale MIM diodes by nanoindentation. <i>Journal of Materials Research</i> , 2013, 28, 1912-1919.                                                                                                                                                                                                       | 1.2  | 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.                                                                                                                                                                                                           | 1.7  | 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, .                                                                                                                                                                             | 1.1  | 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.                                                                                                                                                                                 | 11.1 | 132       |
| 82 | Benzodithiophene and Imide-Based Copolymers for Photovoltaic Applications. <i>Chemistry of Materials</i> , 2012, 24, 1346-1356.                                                                                                                                                                                                        | 3.2  | 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.                                                                                                                                                       | 0.8  | 40        |
| 84 | The origin of electrical property deterioration with increasing Mg concentration in ZnMgO:Ga. <i>Thin Solid Films</i> , 2012, 520, 3697-3702.                                                                                                                                                                                          | 0.8  | 38        |
| 85 | Surface composition, work function, and electrochemical characteristics of gallium-doped zinc oxide. <i>Thin Solid Films</i> , 2012, 520, 5652-5663.                                                                                                                                                                                   | 0.8  | 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.    | 1.5  | 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. | 1.5  | 54        |
| 90 | Pt-Ru Alloyed Fuel Cell Catalysts Sputtered from a Single Alloyed Target. <i>ACS Catalysis</i> , 2011, 1, 1307-1315.                                                                                                                                                                                                                   | 5.5  | 32        |

| #   | ARTICLE                                                                                                                                                                                                                               | IF   | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 91  | Photoinduced Carrier Generation and Decay Dynamics in Intercalated and Non-intercalated Polymer:Fullerene Bulk Heterojunctions. ACS Nano, 2011, 5, 5635-5646.                                                                         | 7.3  | 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. | 3.2  | 343       |
| 93  | Solution processing of transparent conductors: from flask to film. Chemical Society Reviews, 2011, 40, 5406.                                                                                                                          | 18.7 | 335       |
| 94  | Inkjet printed metallizations for Cu(In <sub>1-x</sub> Ga <sub>x</sub> )Se <sub>2</sub> photovoltaic cells. Progress in Photovoltaics: Research and Applications, 2011, 19, 973-976.                                                  | 4.4  | 9         |
| 95  | Fabrication and Characterization of MIM Diodes Based on Nb/Nb <sub>2</sub> O <sub>5</sub> Via a Rapid Screening Technique. Advanced Materials, 2011, 23, 3080-3085.                                                                   | 11.1 | 66        |
| 96  | Enhanced Efficiency in Plastic Solar Cells via Energy Matched Solution Processed NiO Interlayers. Advanced Energy Materials, 2011, 1, 813-820.                                                                                        | 10.2 | 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.                                               | 0.8  | 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.                                                                                 | 0.8  | 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.                                                                                                          | 1.7  | 0         |
| 101 | Shape the Future of MRS. MRS Bulletin, 2010, 35, 563-563.                                                                                                                                                                             | 1.7  | 0         |
| 102 | Have You Ever Wanted to Be a Board Member?. MRS Bulletin, 2010, 35, 261-261.                                                                                                                                                          | 1.7  | 0         |
| 103 | Diversity in MRS and in MRS leadership: Use your vote. MRS Bulletin, 2010, 35, 638-639.                                                                                                                                               | 1.7  | 0         |
| 104 | What a productive year!. MRS Bulletin, 2010, 35, 941-942.                                                                                                                                                                             | 1.7  | 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.                                                                                  | 1.9  | 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.    | 7.8  | 139       |
| 107 | Photoinduced Degradation of Polymer and Polymer-Fullerene Active Layers: Experiment and Theory. Advanced Functional Materials, 2010, 20, 3476-3483.                                                                                   | 7.8  | 248       |
| 108 | Solution deposited NiO thin-films as hole transport layers in organic photovoltaics. Organic Electronics, 2010, 11, 1414-1418.                                                                                                        | 1.4  | 282       |

| #   | ARTICLE                                                                                                                                                                                                                                                                       | IF   | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 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.                                                                 | 0.8  | 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.                                                         | 0.8  | 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.                                                                                | 1.1  | 19        |
| 116 | Charge Transport Simulations in Conjugated Dendrimers. <i>Journal of Physical Chemistry A</i> , 2010, 114, 4388-4393.                                                                                                                                                         | 1.1  | 43        |
| 117 | Solution Synthesis and Characterization of Indium-Zinc Formate Precursors for Transparent Conducting Oxides. <i>Inorganic Chemistry</i> , 2010, 49, 5424-5431.                                                                                                                | 1.9  | 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.                                                                                                   | 1.4  | 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. | 1.5  | 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.                                                                                           | 1.5  | 100       |
| 122 | Photovoltaic Devices with a Low Band Gap Polymer and CdSe Nanostructures Exceeding 3% Efficiency. <i>Nano Letters</i> , 2010, 10, 239-242.                                                                                                                                    | 4.5  | 400       |
| 123 | Low-Cost Inorganic Solar Cells: From Ink To Printed Device. <i>Chemical Reviews</i> , 2010, 110, 6571-6594.                                                                                                                                                                   | 23.0 | 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         |



| #   | ARTICLE                                                                                                                                                                                                                 | IF  | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 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 $\text{In}_2\text{Se}_3$ , $\text{Cu}_2\text{Se}$ , and $\text{CuInSe}_2$ without external selenization from solution precursors. Journal of Materials Research, 2009, 24, 1375-1387. | 1.2 | 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.                                                                                         | 0.8 | 99        |
| 133 | Direct Synthesis of CdSe Nanoparticles in Poly(3-hexylthiophene). Journal of the American Chemical Society, 2009, 131, 17726-17727.                                                                                     | 6.6 | 61        |
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