Lukas Schmidt-Mende

List of Publications by Year
in descending order

161 papers	16,050 citations	41344 49 h-index	15732 125 g-index
173 all docs	173 docs citations	173 times ranked	20351 citing authors

#	Article	IF	Citations
1	Titanium oxynitride coated graphite paper electrodes for light-weight supercapacitors. Journal of Materials Science: Materials in Electronics, 2022, 33, 9669-9678.	2.2	2
2	Modulating defect density of NiO hole transport layer via tuning interfacial oxygen stoichiometry in perovskite solar cells. Solar Energy, 2022, 233, 326-336.	6.1	15
3	Oxygen vacancies in oxidized and reduced vertically aligned Î±-MoO₃ nanoblades. Materials Advances, 2022, 3, 3571-3581.	5.4	6
4	Electronâ€Rich Diruthenium Complexes with Ï€â€Extended Alkenyl Ligands and Their F ₄ TCNQ Chargeâ€Transfer Salts**. Chemistry - A European Journal, 2022, , .	3.3	9
5	A brief review on stretchable, compressible, and deformable supercapacitor for smart devices. Chemical Engineering Journal, 2022, 446, 136876.	12.7	39
6	Hierarchical carbon coated vertically aligned Î±-MoO3 nanoblades anode materials for supercapacitor application. Journal of Alloys and Compounds, 2022, 918, 165530.	5.5	6
7	Molecular design for all-in-one self-assembled donorâ€“acceptor organic solar cells. Solar Energy Materials and Solar Cells, 2022, 244, 111798.	6.2	1
8	Robust Inorganic Hole Transport Materials for Organic and Perovskite Solar Cells: Insights into Materials Electronic Properties and Device Performance. Solar Rrl, 2021, 5, 2000555.	5.8	34
9	Recent trends in template assisted 3D porous materials for electrochemical supercapacitors. Journal of Materials Chemistry A, 2021, 9, 25286-25324.	10.3	48
10	TiO₂ Nanowire Array Memristive Devices Emulating Functionalities of Biological Synapses. Advanced Electronic Materials, 2021, 7, 2000950.	5.1	13
11	Interaction between plasmonic silver nanorod arrays and nanosecond pulsed laser. Physica B: Condensed Matter, 2021, 607, 412573.	2.7	0
12	Pseudoâ€Halide Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2100818.	19.5	56
13	Complementary switching in single Nb3O7(OH) nanowires. APL Materials, 2021, 9, 071105.	5.1	2
14	Fiberâ€Shaped Electronic Devices. Advanced Energy Materials, 2021, 11, 2101443.	19.5	74
15	Photovoltaic cells based on ternary P3HT:PCBM: Ruthenium(II) complex bearing 8-(diphenylphosphino)quinoline active layer. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 622, 126685.	4.7	7
16	A Perspective on the Commercial Viability of Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100401.	5.8	33
17	Performance enhancement in Sb2S3 solar cell processed with direct laser interference patterning. Solar Energy Materials and Solar Cells, 2021, 230, 111235.	6.2	6
18	Roadmap on organicâ€“inorganic hybrid perovskite semiconductors and devices. APL Materials, 2021, 9, .	5.1	102

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19	A Perspective on the Commercial Viability of Perovskite Solar Cells. Solar Rrl, 2021, 5, 2170113.	5.8	10
20	On the Shape-Selected, Ligand-Free Preparation of Hybrid Perovskite (CH3NH3PbBr3) Microcrystals and Their Suitability as Model-System for Single-Crystal Studies of Optoelectronic Properties. Nanomaterials, 2021, 11, 3057.	4.1	3
21	Curing perovskitesâ€”a way towards control of crystallinity and improved stability. JPhys Energy, 2020, 2, 021001.	5.3	6
22	Enhanced Organic and Perovskite Solar Cell Performance through Modification of the Electron-Selective Contact with a Bodipyâ€“Porphyrin Dyad. ACS Applied Materials & Interfaces, 2020, 12, 1120-1131.	8.0	27
23	Metallophthalocyanines in a ternary photoactive layer (P3HT:MPc:PC₇₀BM) for bulk heterojunction solar cells. Materials Advances, 2020, 1, 3058-3072.	5.4	2
24	Performance enhancement of CsPbI2Br perovskite solar cells via stoichiometric control and interface engineering. Solar Energy, 2020, 211, 654-660.	6.1	9
25	Light emission from perovskite materials. APL Materials, 2020, 8, 070401.	5.1	12
26	Direct Patterning of Metal Chalcogenide Semiconductor Materials. Advanced Functional Materials, 2020, 30, 2002685.	14.9	15
27	Rapid synthesis of vertically aligned Î±-MoO₃ nanostructures on substrates. RSC Advances, 2020, 10, 24119-24126.	3.6	7
28	Hydrothermally Grown TiO₂ Nanorod Array Memristors with Volatile States. ACS Applied Materials & Interfaces, 2020, 12, 23363-23369.	8.0	19
29	Interfacial charge transfer processes in 2D and 3D semiconducting hybrid perovskites: azobenzene as photoswitchable ligand. Beilstein Journal of Nanotechnology, 2020, 11, 466-479.	2.8	11
30	Spatial and spectral mode mapping of a dielectric nanodot by broadband interferometric homodyne scanning near-field spectroscopy. Advanced Photonics, 2020, 2, .	11.8	4
31	Giant polarization anisotropic optical response from anodic aluminum oxide templates embedded with plasmonic metamaterials. Optics Express, 2020, 28, 29513.	3.4	1
32	Perovskite semiconductors for next generation optoelectronic applications. APL Materials, 2019, 7, .	5.1	21
33	Non-equilibrium growth model of fibrous mesocrystalline rutile TiO2 nanorods. Journal of Crystal Growth, 2019, 511, 8-14.	1.5	5
34	Lithium Doping of ZnO for High Efficiency and Stability Fullerene and Non-fullerene Organic Solar Cells. ACS Applied Energy Materials, 2019, 2, 1663-1675.	5.1	52
35	Surface Band Bending Influences the Open-Circuit Voltage of Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 4045-4052.	5.1	15
36	Controlling the Spatial Direction of Hydrothermally Grown Rutile TiO2 Nanocrystals by the Orientation of Seed Crystals. Crystals, 2019, 9, 64.	2.2	12

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37	Inorganic and Layered Perovskites for Optoelectronic Devices. Advanced Materials, 2019, 31, e1807095.	21.0	94
38	Quantification of ion migration in CH₃NH₃PbI₃ perovskite solar cells by transient capacitance measurements. Materials Horizons, 2019, 6, 1497-1503.	12.2	297
39	Position-controlled laser-induced creation of rutile TiO₂ nanostructures. Nanotechnology, 2019, 30, 335302.	2.6	2
40	Photocurrents in crystalâ€amorphous hybrid stannous oxide/alumina binary nanofibers. Journal of the American Ceramic Society, 2019, 102, 6337-6348.	3.8	13
41	Boosting charge collection efficiency via large-area free-standing Ag/ZnO core-shell nanowire array electrodes. Progress in Natural Science: Materials International, 2019, 29, 124-128.	4.4	5
42	Advanced scanning probe lithography using anatase-to-rutile transition to create localized TiO2 nanorods. Beilstein Journal of Nanotechnology, 2019, 10, 412-418.	2.8	0
43	Controlling the density of hydrothermally grown rutile TiO2 nanorods on anatase TiO2 films. Surfaces and Interfaces, 2019, 15, 141-147.	3.0	6
44	Tailored Interface Energetics for Efficient Charge Separation in Metal Oxide-Polymer Solar Cells. Scientific Reports, 2019, 9, 74.	3.3	8
45	Role of the Metal-Oxide Work Function on Photocurrent Generation in Hybrid Solar Cells. Scientific Reports, 2018, 8, 3559.	3.3	47
46	A silanol-functionalized polyoxometalate with excellent electron transfer mediating behavior to ZnO and TiO₂ cathode interlayers for highly efficient and extremely stable polymer solar cells. Journal of Materials Chemistry C, 2018, 6, 1459-1469.	5.5	25
47	Interface-Dependent Radiative and Nonradiative Recombination in Perovskite Solar Cells. Journal of Physical Chemistry C, 2018, 122, 10691-10698.	3.1	40
48	Hybrid Organic/Inorganic and Perovskite Solar Cells. Green Chemistry and Sustainable Technology, 2018, , 187-227.	0.7	2
49	Tuning optical/electrical properties of 2D/3D perovskite by the inclusion of aromatic cation. Physical Chemistry Chemical Physics, 2018, 20, 30189-30199.	2.8	22
50	Perovskite-Polymer Blends Influencing Microstructures, Nonradiative Recombination Pathways, and Photovoltaic Performance of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 42542-42551.	8.0	50
51	Direct Observation and Quantitative Analysis of Mobile Frenkel Defects in Metal Halide Perovskites Using Scanning Kelvin Probe Microscopy. Journal of Physical Chemistry C, 2018, 122, 12633-12639.	3.1	58
52	Mechanism and Impact of Cation Polarization in Methylammonium Lead Iodide. Journal of Physical Chemistry C, 2018, 122, 12140-12147.	3.1	9
53	Insights into the passivation effect of atomic layer deposited hafnium oxide for efficiency and stability enhancement in organic solar cells. Journal of Materials Chemistry C, 2018, 6, 8051-8059.	5.5	20
54	Influence of substrates and rutile seed layers on the assembly of hydrothermally grown rutile TiO 2 nanorod arrays. Journal of Crystal Growth, 2018, 494, 26-35.	1.5	11

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55	Interplay of Mobile Ions and Injected Carriers Creates Recombination Centers in Metal Halide Perovskites under Bias. ACS Energy Letters, 2018, 3, 1279-1286.	17.4	106
56	Completing the Picture of 2-(Aminomethylpyridinium) Lead Hybrid Perovskites: Insights into Structure, Conductivity Behavior, and Optical Properties. Chemistry of Materials, 2018, 30, 6289-6297.	6.7	32
57	Improving pore-filling in TiO2 nanorods and nanotubes scaffolds for perovskite solar cells via methylamine gas healing. Solar Energy, 2018, 170, 541-548.	6.1	8
58	Nanowire-based metamaterials electrodes for extremely fast charge collection. , 2018, , .		0
59	Pulsed laser annealing for metallic nanorods embedded in alumina. , 2018, , .		0
60	Advances in hole transport materials engineering for stable and efficient perovskite solar cells. Nano Energy, 2017, 34, 271-305.	16.0	362
61	Tuning the properties of F:SnO₂ (FTO) nanocomposites with S:TiO₂ nanoparticles â€“ promising hazy transparent electrodes for photovoltaics applications. Journal of Materials Chemistry C, 2017, 5, 91-102.	5.5	15
62	Impact of Crystal Surface on Photoexcited States in Organicâ€“Inorganic Perovskites. Advanced Functional Materials, 2017, 27, 1604995.	14.9	23
63	Thiophene-Functionalized Hybrid Perovskite Microrods and their Application in Photodetector Devices for Investigating Charge Transport Through Interfaces in Particle-Based Materials. ACS Applied Materials & Interfaces, 2017, 9, 1077-1085.	8.0	19
64	Controlled Morphologies by Molecular Design and Nano-Imprint Lithography. Advances in Polymer Science, 2017, , 215-242.	0.8	0
65	Hybrid solar cells from Sb2S3 nanoparticle ink. Solar Energy Materials and Solar Cells, 2017, 172, 335-340.	6.2	18
66	Incoherent Pathways of Charge Separation in Organic and Hybrid Solar Cells. Journal of Physical Chemistry Letters, 2017, 8, 4858-4864.	4.6	13
67	Fabrication and characterization of abrupt TiO2â€“SiOx core-shell nanowires by a simple heat treatment. APL Materials, 2017, 5, .	5.1	2
68	Interfaces in Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700623.	19.5	276
69	Impact of the glass transition on exciton dynamics in polymer thin films. Physical Review B, 2017, 96, .	3.2	1
70	Nano-Heteroarchitectures of Two-Dimensional MoS₂@ One-Dimensional Brookite TiO₂ Nanorods: Prominent Electron Emitters for Displays. ACS Omega, 2017, 2, 2925-2934.	3.5	31
71	Insights into optoelectronic properties of anti-solvent treated perovskite films. Journal of Materials Science: Materials in Electronics, 2017, 28, 15630-15636.	2.2	8
72	Tuning the Electronic Conductivity in Hydrothermally Grown Rutile TiO2 Nanowires: Effect of Heat Treatment in Different Environments. Nanomaterials, 2017, 7, 289.	4.1	16

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73	Highly Efficient Reproducible Perovskite Solar Cells Prepared by Low-Temperature Processing. Molecules, 2016, 21, 542.	3.8	18
74	Humidity versus photo-stability of metal halide perovskite films in a polymer matrix. Physical Chemistry Chemical Physics, 2016, 18, 21629-21639.	2.8	75
75	Benzimidazolium Lead Halide Perovskites: Effects of Anion Substitution and Dimensionality on the Bandgap. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 1369-1376.	1.2	29
76	Research Update: Behind the high efficiency of hybrid perovskite solar cells. APL Materials, 2016, 4, .	5.1	47
77	Characterization of perovskite solar cells: Towards a reliable measurement protocol. APL Materials, 2016, 4, .	5.1	94
78	Preface for Special Topic: Perovskite solar cellsâ€"A research update. APL Materials, 2016, 4, .	5.1	0
79	Promising field electron emission performance of vertically aligned one dimensional (1D) brookite (Î²) TiO₂nanorods. RSC Advances, 2016, 6, 98722-98729.	3.6	17
80	Toward Fluorinated Spacers for MAPI-Derived Hybrid Perovskites: Synthesis, Characterization, and Phase Transitions of (FC₂H₄NH₃)₂PbCl₄. Chemistry of Materials, 2016, 28, 6560-6566.	6.7	74
81	Uniform Large-Area Free-Standing Silver Nanowire Arrays on Transparent Conducting Substrates. Journal of the Electrochemical Society, 2016, 163, D447-D452.	2.9	25
82	Structure-induced resonant tail-state regime absorption in polymer: fullerene bulk-heterojunction solar cells. Physical Review B, 2016, 93, .	3.2	2
83	H-aggregate analysis of P3HT thin films-Capability and limitation of photoluminescence and UV/Vis spectroscopy. Scientific Reports, 2016, 6, 32434.	3.3	53
84	Catalytically Doped Semiconductors for Chemical Gas Sensing: Aerogelâ€Like Aluminumâ€Containing Zinc Oxide Materials Prepared in the Gas Phase. Advanced Functional Materials, 2016, 26, 3424-3437.	14.9	42
85	Chapter 5. The Role of Nanostructured Metal Oxides in Hybrid Solar Cells. RSC Energy and Environment Series, 2016, , 141-176.	0.5	1
86	Decoupling optical and electronic optimization of organic solar cells using high-performance temperature-stable TiO2/Ag/TiO2 electrodes. APL Materials, 2015, 3, .	5.1	21
87	A comparison of light-coupling into high and low index nanostructured photovoltaic thin films. APL Materials, 2015, 3, 066101.	5.1	7
88	Role of charge separation mechanism and local disorder at hybrid solar cell interfaces. Physical Review B, 2015, 91, .	3.2	7
89	Fast Charge-Carrier Trapping in TiO₂ Nanotubes. Journal of Physical Chemistry C, 2015, 119, 9159-9168.	3.1	50
90	Defeating Loss Mechanisms in 1D TiO₂â€Based Hybrid Solar Cells. Advanced Functional Materials, 2015, 25, 2601-2608.	14.9	18

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91	Toward Highâ€Efficiency Solutionâ€Processed Planar Heterojunction Sb₂S₃ Solar Cells. Advanced Science, 2015, 2, 1500059.	11.2	102
92	Nanoparticle shape anisotropy and photoluminescence properties: Europium containing ZnO as a Model Case. Nanoscale, 2015, 7, 16969-16982.	5.6	30
93	Porous and Shapeâ€Anisotropic Single Crystals of the Semiconductor Perovskite CH₃NH₃PbI₃ from a Singleâ€Source Precursor. Angewandte Chemie - International Edition, 2015, 54, 1341-1346.	13.8	54
94	Threeâ€Dimensional Graphitized Carbon Nanovesicles for Highâ€Performance Supercapacitors Based on Ionic Liquids. ChemSusChem, 2014, 7, 777-784.	6.8	28
95	Influence of Interfacial Area on Exciton Separation and Polaron Recombination in Nanostructured Bilayer All-Polymer Solar Cells. ACS Nano, 2014, 8, 12397-12409.	14.6	41
96	Research Update: Physical and electrical characteristics of lead halide perovskites for solar cell applications. APL Materials, 2014, 2, .	5.1	136
97	Template-free synthesis of novel, highly-ordered 3D hierarchical Nb₃O₇(OH) superstructures with semiconductive and photoactive properties. Journal of Materials Chemistry A, 2014, 2, 12005.	10.3	18
98	Model for Hydrothermal Growth of Rutile Wires and the Associated Development of Defect Structures. Crystal Growth and Design, 2014, 14, 4658-4663.	3.0	23
99	Preface: Special Topic on Perovskite Solar Cells. APL Materials, 2014, 2, .	5.1	5
100	Control of Recombination Pathways in TiO₂ Nanowire Hybrid Solar Cells Using Sn⁴⁺ Dopants. Journal of Physical Chemistry C, 2014, 118, 16672-16679.	3.1	24
101	Erroneous efficiency reports harm organic solar cell research. Nature Photonics, 2014, 8, 669-672.	31.4	195
102	Highâ€speed atmospheric atomic layer deposition of ultra thin amorphous TiO₂ blocking layers at 100â€‰Â°C for inverted bulk heterojunction solar cells. Progress in Photovoltaics: Research and Applications, 2013, 21, 393-400.	8.1	52
103	The influence of 1D, meso- and crystal structures on charge transport and recombination in solid-state dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 12088.	10.3	22
104	Nanostructured conformal hybrid solar cells: a promising architecture towards complete charge collection and light absorption. Nanoscale Research Letters, 2013, 8, 359.	5.7	13
105	Photocatalytic Reduction of CO₂ on TiO₂ and Other Semiconductors. Angewandte Chemie - International Edition, 2013, 52, 7372-7408.	13.8	2,481
106	Highly ordered monolayer/bilayer TiO2 hollow sphere films with widely tunable visible-light reflection and absorption bands. Nanoscale, 2013, 5, 5009.	5.6	26
107	Fast electron trapping in anodized TiO<inf>2</inf> nanotubes. , 2013, , .		0
108	Perspective: Hybrid solar cells: How to get the polymer to cooperate?. APL Materials, 2013, 1, .	5.1	7

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109	Synergistic effects of interfacial modifiers enhance current and voltage in hybrid solar cells. APL Materials, 2013, 1, .	5.1	16
110	Influence of metallic and dielectric nanowire arrays on the photoluminescence properties of P3HT thin films. Nanotechnology, 2012, 23, 305402.	2.6	7
111	Highly absorbing solar cellsâ€"a survey of plasmonic nanostructures. Optics Express, 2012, 20, A177.	3.4	59
112	Temperature-Stable and Optically Transparent Thin-Film Zinc Oxide Aerogel Electrodes As Model Systems for 3D Interpenetrating Organicâ€"Inorganic Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2012, 4, 6522-6529.	8.0	12
113	Imprinting localized plasmons for enhanced solar cells. Nanotechnology, 2012, 23, 385202.	2.6	9
114	Large polycyclic aromatic hydrocarbons for application in donorâ€"acceptor photovoltaics. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 785-789.	1.8	6
115	Incompatible Length Scales in Nanostructured Cu₂O Solar Cells. Advanced Functional Materials, 2012, 22, 2202-2208.	14.9	142
116	Light-trapping plasmonic nanovoid arrays. Physical Review B, 2012, 85, .	3.2	34
117	Nanoscale investigation on large crystallites in TiO2 nanotube arrays and implications for high-quality hybrid photodiodes. Journal of Materials Science, 2012, 47, 6459-6466.	3.7	5
118	Heteroepitaxial growth of ZnO branches selectively on TiO2 nanorod tips with improved light harvesting performance. Chemical Communications, 2011, 47, 8400.	4.1	27
119	Characterization of Interfacial Modifiers for Hybrid Solar Cells. Journal of Physical Chemistry C, 2011, 115, 15081-15088.	3.1	42
120	Patterning Poly(3-Hexylthiophene) in the Sub-50-nm Region by Nanoimprint Lithography. IEEE Nanotechnology Magazine, 2011, 10, 482-488.	2.0	9
121	Controlled Growth of TiO2Nanotubes on Conducting Glass. Chemistry of Materials, 2011, 23, 155-162.	6.7	27
122	Facile Synthesis and Photocatalysis of Size-Distributed TiO₂ Hollow Spheres Consisting of {116} Plane-Oriented Nanocrystallites. Journal of Physical Chemistry C, 2011, 115, 6405-6409.	3.1	44
123	Nanostructured Inorganic Solar Cells. Green, 2011, 1, .	0.4	8
124	UV light protection through TiO2 blocking layers for inverted organic solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 3450-3454.	6.2	77
125	Structural properties of the active layer of discotic hexabenzocoronene/perylene diimide bulk hetero junction photovoltaic devices: The role of alkyl side chain length. Thin Solid Films, 2011, 520, 307-313.	1.8	24
126	A Novel Buffering Technique for Aqueous Processing of Zinc Oxide Nanostructures and Interfaces, and Corresponding Improvement of Electrodeposited ZnOâ€Cu₂O Photovoltaics. Advanced Functional Materials, 2011, 21, 573-582.	14.9	122

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127	Nanostructured Organic and Hybrid Solar Cells. Advanced Materials, 2011, 23, 1810-1828.	21.0	300
128	Perylene Sensitization of Fullerenes for Improved Performance in Organic Photovoltaics. Advanced Energy Materials, 2011, 1, 861-869.	19.5	49
129	Macroscopically uniform electrodeposited ZnO films on conducting glass by surface tension modification and consequent demonstration of significantly improved pâ€"n heterojunctions. Electrochimica Acta, 2011, 56, 3758-3763.	5.2	20
130	Nanostructuring discotic molecules on ITO support. Nanotechnology, 2011, 22, 055303.	2.6	12
131	Strong Efficiency Improvements in Ultraâ€low‐Cost Inorganic Nanowire Solar Cells. Advanced Materials, 2010, 22, E254-8.	21.0	181
132	Strong Efficiency Improvements in Ultra-low-Cost Inorganic Nanowire Solar Cells (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542	21.0	8
133	Discotic materials for organic solar cells: Effects of chemical structure on assembly and performance. Solar Energy Materials and Solar Cells, 2010, 94, 560-567.	6.2	64
134	Spray-deposited PEDOT:PSS for inverted organic solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 2371-2374.	6.2	80
135	The rapid growth of 3 Âμm long titania nanotubes by anodization of titanium in a neutral electrochemical bath. Nanotechnology, 2010, 21, 055601.	2.6	27
136	Influence of anodisation voltage on the dimension of titania nanotubes. Journal of Alloys and Compounds, 2010, 503, 359-364.	5.5	76
137	Nanostructured interfaces in polymer solar cells. Applied Physics Letters, 2010, 96, 263109.	3.3	66
138	Lowâ€Temperature Synthesis of Largeâ€Area, Freeâ€Standing Nanorod Arrays on ITO/Glass and other Conducting Substrates. Advanced Materials, 2008, 20, 4470-4475.	21.0	78
139	The backing layer dependence of open circuit voltage in ZnO/polymer composite solar cells. Thin Solid Films, 2008, 516, 7218-7222.	1.8	45
140	A simple low temperature synthesis route for ZnOâ€"MgO coreâ€"shell nanowires. Nanotechnology, 2008, 19, 465603.	2.6	111
141	Oxide nanowire arrays for hybrid solar cells. , 2008, , .		0
142	A novel blue dye for near-IR â€˜dye-sensitisedâ€™ solar cell applications. Chemical Communications, 2007, , 234-236.	4.1	241
143	Advances in Liquidâ€Electrolyte and Solidâ€State Dyeâ€Sensitized Solar Cells. Advanced Materials, 2007, 19, 3187-3200.	21.0	564
144	ZnO â€" nanostructures, defects, and devices. Materials Today, 2007, 10, 40-48.	14.2	1,582

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146	Light intensity, temperature, and thickness dependence of the open-circuit voltage in solid-state dye-sensitized solar cells. Physical Review B, 2006, 74, .	3.2	166
147	Alkyl Chain Barriers for Kinetic Optimization in Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2006, 128, 16376-16383.	13.7	254
148	TiO2 pore-filling and its effect on the efficiency of solid-state dye-sensitized solar cells. Thin Solid Films, 2006, 500, 296-301.	1.8	237
149	Parameters Influencing Charge Separation in Solid-State Dye-Sensitized Solar Cells Using Novel Hole Conductors. Advanced Functional Materials, 2006, 16, 1832-1838.	14.9	192
150	Zn-Porphyrin-Sensitized Nanocrystalline TiO2 Heterojunction Photovoltaic Cells. ChemPhysChem, 2005, 6, 1253-1258.	2.1	99
151	Ion-Coordinating Sensitizer in Solid-State Hybrid Solar Cells. Angewandte Chemie - International Edition, 2005, 44, 6413-6417.	13.8	76
152	Organic Dye for Highly Efficient Solid-State Dye-Sensitized Solar Cells. Advanced Materials, 2005, 17, 813-815.	21.0	485
153	Effect of Hydrocarbon Chain Length of Amphiphilic Ruthenium Dyes on Solid-State Dye-Sensitized Photovoltaics. Nano Letters, 2005, 5, 1315-1320.	9.1	152
154	Control of dark current in photoelectrochemical (TiO2/Iâ€"â€"I3â€") and dye-sensitized solar cells. Chemical Communications, 2005, , 4351.	4.1	561
155	Efficiency improvement in solid-state-dye-sensitized photovoltaics with an amphiphilic Ruthenium-dye. Applied Physics Letters, 2005, 86, 013504.	3.3	200
156	Amphiphilic Dye for Solid-State Dye-Sensitized Solar Cells. Materials Research Society Symposia Proceedings, 2004, 836, L1.4.1.	0.1	0
157	Photo-Induced Charge Separation in a Blend of Perylenediimide and Hexabenzocoronene Derivatives Studied by FP-TRMC. Synthetic Metals, 2003, 137, 1375-1376.	3.9	6
158	Organic Thin Film Photovoltaic Devices from Discotic Materials. Molecular Crystals and Liquid Crystals, 2003, 396, 73-90.	0.9	50
159	Efficient organic photovoltaics from soluble discotic liquid crystalline materials. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 263-267.	2.7	62
160	Self-Organized Discotic Liquid Crystals for High-Efficiency Organic Photovoltaics. Science, 2001, 293, 1119-1122.	12.6	2,286
161	Chemical Engineering of Ferroelastic Twin Domains in MAPbI3 Films. , 0, , .		0