Lukas Schmidt-Mende

List of Publications by Year in Descending Order

157 papers	13,756 citations	45 h-index	116 g-index
173 ext. papers	14,907 ext. citations	7.8 avg, IF	6.7 L-index

#	Paper	IF	Citations
157	Modulating defect density of NiO hole transport layer via tuning interfacial oxygen stoichiometry in perovskite solar cells. *Solar Energy*, **2022**, 233, 326-336	6.8	2
156	A Brief Review on Stretchable, Compressible, and Deformable Supercapacitor for Smart Devices. *Chemical Engineering Journal*, **2022**, 136876	14.7	6
155	Hierarchical Carbon Coated Vertically Aligned MoO3 Nanoblades Anode Materials for Supercapacitor Application. *Journal of Alloys and Compounds*, **2022**, 165530	5.7	0
154	Molecular design for all-in-one self-assembled donor cceptor organic solar cells. *Solar Energy Materials and Solar Cells*, **2022**, 244, 111798	6.4	0
153	A Perspective on the Commercial Viability of Perovskite Solar Cells. *Solar Rrl*, **2021**, 5, 2170113	7.1	2
152	Roadmap on organic norganic hybrid perovskite semiconductors and devices. *APL Materials*, **2021**, 9, 109202	5.7	28
151	Interaction between plasmonic silver nanorod arrays and nanosecond pulsed laser. *Physica B: Condensed Matter*, **2021**, 607, 412573	2.8	
150	Pseudo-Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2100818	21.8	16
149	Complementary switching in single Nb3O7(OH) nanowires. *APL Materials*, **2021**, 9, 071105	5.7	0
148	Robust Inorganic Hole Transport Materials for Organic and Perovskite Solar Cells: Insights into Materials Electronic Properties and Device Performance. *Solar Rrl*, **2021**, 5, 2000555	7.1	13
147	TiO2 Nanowire Array Memristive Devices Emulating Functionalities of Biological Synapses. *Advanced Electronic Materials*, **2021**, 7, 2000950	6.4	7
146	Fiber-Shaped Electronic Devices. *Advanced Energy Materials*, **2021**, 11, 2101443	21.8	15
145	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	5.1	3
144	A Perspective on the Commercial Viability of Perovskite Solar Cells. *Solar Rrl*, **2021**, 5, 2100401	7.1	10
143	Performance enhancement in Sb2S3 solar cell processed with direct laser interference patterning. *Solar Energy Materials and Solar Cells*, **2021**, 230, 111235	6.4	2
142	Direct Patterning of Metal Chalcogenide Semiconductor Materials. *Advanced Functional Materials*, **2020**, 30, 2002685	15.6	5
141	Rapid synthesis of vertically aligned MoO nanostructures on substrates.. *RSC Advances*, **2020**, 10, 24119–24126	3.9	5

140	Hydrothermally Grown TiO Nanorod Array Memristors with Volatile States. *ACS Applied Materials & Interfaces*, **2020**, 12, 23363-23369	9.5	13
139	Spatial and spectral mode mapping of a dielectric nanodot by broadband interferometric homodyne scanning near-field spectroscopy. *Advanced Photonics*, **2020**, 2,	8.1	3
138	Giant polarization anisotropic optical response from anodic aluminum oxide templates embedded with plasmonic metamaterials. *Optics Express*, **2020**, 28, 29513-29528	3.3	
137	Curing perovskites way towards control of crystallinity and improved stability. *JPhys Energy*, **2020**, 2, 021001	4.9	4
136	Enhanced Organic and Perovskite Solar Cell Performance through Modification of the Electron-Selective Contact with a Bodipy-Porphyrin Dyad. *ACS Applied Materials & Interfaces*, **2020**, 12, 1120-1131	9.5	13
135	Metallophthalocyanines in a ternary photoactive layer (P3HT:MPc:PC70BM) for bulk heterojunction solar cells. *Materials Advances*, **2020**, 1, 3058-3072	3.3	1
134	Performance enhancement of CsPbI2Br perovskite solar cells via stoichiometric control and interface engineering. *Solar Energy*, **2020**, 211, 654-660	6.8	6
133	Interfacial charge transfer processes in 2D and 3D semiconducting hybrid perovskites: azobenzene as photoswitchable ligand. *Beilstein Journal of Nanotechnology*, **2020**, 11, 466-479	3	6
132	Non-equilibrium growth model of fibrous mesocrystalline rutile TiO2 nanorods. *Journal of Crystal Growth*, **2019**, 511, 8-14	1.6	3
131	Lithium Doping of ZnO for High Efficiency and Stability Fullerene and Non-fullerene Organic Solar Cells. *ACS Applied Energy Materials*, **2019**, 2, 1663-1675	6.1	30
130	Surface Band Bending Influences the Open-Circuit Voltage of Perovskite Solar Cells. *ACS Applied Energy Materials*, **2019**, 2, 4045-4052	6.1	7
129	Controlling the Spatial Direction of Hydrothermally Grown Rutile TiO2 Nanocrystals by the Orientation of Seed Crystals. *Crystals*, **2019**, 9, 64	2.3	7
128	Inorganic and Layered Perovskites for Optoelectronic Devices. *Advanced Materials*, **2019**, 31, e1807095	24	67
127	Quantification of ion migration in CH3NH3PbI3 perovskite solar cells by transient capacitance measurements. *Materials Horizons*, **2019**, 6, 1497-1503	14.4	184
126	Position-controlled laser-induced creation of rutile TiO nanostructures. *Nanotechnology*, **2019**, 30, 335302	3.4	1
125	Photocurrents in crystal-amorphous hybrid stannous oxide/alumina binary nanofibers. *Journal of the American Ceramic Society*, **2019**, 102, 6337-6348	3.8	11
124	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	3.6	4
123	Perovskite semiconductors for next generation optoelectronic applications. *APL Materials*, **2019**, 7, 080401	5.7	14

122	Eine Halbleiter-Tinte f□ die Zukunft. *Physik in Unserer Zeit*, **2019**, 50, 298-304	0.1	
121	Advanced scanning probe lithography using anatase-to-rutile transition to create localized TiO nanorods. *Beilstein Journal of Nanotechnology*, **2019**, 10, 412-418	3	
120	Controlling the density of hydrothermally grown rutile TiO2 nanorods on anatase TiO2 films. *Surfaces and Interfaces*, **2019**, 15, 141-147	4.1	5
119	Tailored Interface Energetics for Efficient Charge Separation in Metal Oxide-Polymer Solar Cells. *Scientific Reports*, **2019**, 9, 74	4.9	5
118	Role of the Metal-Oxide Work Function on Photocurrent Generation in Hybrid Solar Cells. *Scientific Reports*, **2018**, 8, 3559	4.9	32
117	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	7.1	19
116	Interface-Dependent Radiative and Nonradiative Recombination in Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2018**, 122, 10691-10698	3.8	34
115	Hybrid Organic/Inorganic and Perovskite Solar Cells. *Green Chemistry and Sustainable Technology*, **2018**, 187-227	1.1	2
114	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	1.6	10
113	Interplay of Mobile Ions and Injected Carriers Creates Recombination Centers in Metal Halide Perovskites under Bias. *ACS Energy Letters*, **2018**, 3, 1279-1286	20.1	81
112	Completing the Picture of 2-(Aminomethylpyridinium) Lead Hybrid Perovskites: Insights into Structure, Conductivity Behavior, and Optical Properties. *Chemistry of Materials*, **2018**, 30, 6289-6297	9.6	14
111	Improving pore-filling in TiO2 nanorods and nanotubes scaffolds for perovskite solar cells via methylamine gas healing. *Solar Energy*, **2018**, 170, 541-548	6.8	6
110	Tuning optical/electrical properties of 2D/3D perovskite by the inclusion of aromatic cation. *Physical Chemistry Chemical Physics*, **2018**, 20, 30189-30199	3.6	18
109	Perovskite-Polymer Blends Influencing Microstructures, Nonradiative Recombination Pathways, and Photovoltaic Performance of Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 42542-42551	9.5	38
108	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	3.8	43
107	Mechanism and Impact of Cation Polarization in Methylammonium Lead Iodide. *Journal of Physical Chemistry C*, **2018**, 122, 12140-12147	3.8	8
106	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	7.1	17
105	Advances in hole transport materials engineering for stable and efficient perovskite solar cells. *Nano Energy*, **2017**, 34, 271-305	17.1	278

104	Tuning the properties of F:SnO2 (FTO) nanocomposites with S:TiO2 nanoparticles □promising hazy transparent electrodes for photovoltaics applications. *Journal of Materials Chemistry C*, **2017**, 5, 91-102	7.1	13
103	Impact of Crystal Surface on Photoexcited States in Organic□norganic Perovskites. *Advanced Functional Materials*, **2017**, 27, 1604995	15.6	16
102	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	9.5	16
101	Controlled Morphologies by Molecular Design and Nano-Imprint Lithography. *Advances in Polymer Science*, **2017**, 215-242	1.3	
100	Hybrid solar cells from Sb2S3 nanoparticle ink. *Solar Energy Materials and Solar Cells*, **2017**, 172, 335-340	6.4	16
99	Incoherent Pathways of Charge Separation in Organic and Hybrid Solar Cells. *Journal of Physical Chemistry Letters*, **2017**, 8, 4858-4864	6.4	11
98	Fabrication and characterization of abrupt TiO2□iOx core-shell nanowires by a simple heat treatment. *APL Materials*, **2017**, 5, 086101	5.7	1
97	Interfaces in Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1700623	21.8	225
96	Impact of the glass transition on exciton dynamics in polymer thin films. *Physical Review B*, **2017**, 96,	3.3	1
95	Nano-Heteroarchitectures of Two-Dimensional MoS@ One-Dimensional Brookite TiO Nanorods: Prominent Electron Emitters for Displays. *ACS Omega*, **2017**, 2, 2925-2934	3.9	24
94	Insights into optoelectronic properties of anti-solvent treated perovskite films. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 15630-15636	2.1	6
93	Tuning the Electronic Conductivity in Hydrothermally Grown Rutile TiO□Nanowires: Effect of Heat Treatment in Different Environments. *Nanomaterials*, **2017**, 7,	5.4	13
92	Toward Fluorinated Spacers for MAPI-Derived Hybrid Perovskites: Synthesis, Characterization, and Phase Transitions of (FC2H4NH3)2PbCl4. *Chemistry of Materials*, **2016**, 28, 6560-6566	9.6	56
91	Uniform Large-Area Free-Standing Silver Nanowire Arrays on Transparent Conducting Substrates. *Journal of the Electrochemical Society*, **2016**, 163, D447-D452	3.9	23
90	Structure-induced resonant tail-state regime absorption in polymer: fullerene bulk-heterojunction solar cells. *Physical Review B*, **2016**, 93,	3.3	2
89	H-aggregate analysis of P3HT thin films-Capability and limitation of photoluminescence and UV/Vis spectroscopy. *Scientific Reports*, **2016**, 6, 32434	4.9	37
88	Catalytically Doped Semiconductors for Chemical Gas Sensing: Aerogel-Like Aluminum-Containing Zinc Oxide Materials Prepared in the Gas Phase. *Advanced Functional Materials*, **2016**, 26, 3424-3437	15.6	32
87	Chapter 5:The Role of Nanostructured Metal Oxides in Hybrid Solar Cells. *RSC Energy and Environment Series*, **2016**, 141-176	0.6	1

86	Highly Efficient Reproducible Perovskite Solar Cells Prepared by Low-Temperature Processing. *Molecules*, **2016**, 21, 542	4.8	15
85	Humidity versus photo-stability of metal halide perovskite films in a polymer matrix. *Physical Chemistry Chemical Physics*, **2016**, 18, 21629-39	3.6	62
84	Benzimidazolium Lead Halide Perovskites: Effects of Anion Substitution and Dimensionality on the Bandgap. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2016**, 642, 1369-1376	1.3	25
83	Research Update: Behind the high efficiency of hybrid perovskite solar cells. *APL Materials*, **2016**, 4, 091505	5.7	36
82	Characterization of perovskite solar cells: Towards a reliable measurement protocol. *APL Materials*, **2016**, 4, 091901	5.7	79
81	Preface for Special Topic: Perovskite solar cells—A research update. *APL Materials*, **2016**, 4, 091201	5.7	
80	Promising field electron emission performance of vertically aligned one dimensional (1D) brookite (□TiO2 nanorods. *RSC Advances*, **2016**, 6, 98722-98729	3.7	16
79	Fast Charge-Carrier Trapping in TiO2 Nanotubes. *Journal of Physical Chemistry C*, **2015**, 119, 9159-9168	3.8	42
78	Defeating Loss Mechanisms in 1D TiO2-Based Hybrid Solar Cells. *Advanced Functional Materials*, **2015**, 25, 2601-2608	15.6	16
77	Toward High-Efficiency Solution-Processed Planar Heterojunction SbS Solar Cells. *Advanced Science*, **2015**, 2, 1500059	13.6	77
76	Nanoparticle shape anisotropy and photoluminescence properties: Europium containing ZnO as a Model Case. *Nanoscale*, **2015**, 7, 16969-82	7.7	28
75	Porous and shape-anisotropic single crystals of the semiconductor perovskite CH3NH3PbI3 from a single-source precursor. *Angewandte Chemie - International Edition*, **2015**, 54, 1341-6	16.4	45
74	Decoupling optical and electronic optimization of organic solar cells using high-performance temperature-stable TiO2/Ag/TiO2 electrodes. *APL Materials*, **2015**, 3, 106105	5.7	19
73	A comparison of light-coupling into high and low index nanostructured photovoltaic thin films. *APL Materials*, **2015**, 3, 066101	5.7	7
72	Role of charge separation mechanism and local disorder at hybrid solar cell interfaces. *Physical Review B*, **2015**, 91,	3.3	6
71	Research Update: Physical and electrical characteristics of lead halide perovskites for solar cell applications. *APL Materials*, **2014**, 2, 040701	5.7	114
70	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	13	17
69	Model for Hydrothermal Growth of Rutile Wires and the Associated Development of Defect Structures. *Crystal Growth and Design*, **2014**, 14, 4658-4663	3.5	20

68	Preface: Special Topic on Perovskite Solar Cells. *APL Materials*, **2014**, 2, 081201	5.7	5
67	Control of Recombination Pathways in TiO2 Nanowire Hybrid Solar Cells Using Sn4+ Dopants. *Journal of Physical Chemistry C*, **2014**, 118, 16672-16679	3.8	22
66	Nanostructured Hybrid Solar Cells **2014**, 801-826		
65	Solid-State Dye-Sensitized Solar Cells **2014**, 465-494		
64	Three-dimensional graphitized carbon nanovesicles for high-performance supercapacitors based on ionic liquids. *ChemSusChem*, **2014**, 7, 777-84	8.3	24
63	Influence of interfacial area on exciton separation and polaron recombination in nanostructured bilayer all-polymer solar cells. *ACS Nano*, **2014**, 8, 12397-409	16.7	39
62	High-speed atmospheric atomic layer deposition of ultra thin amorphous TiO2 blocking layers at 100 ℃ for inverted bulk heterojunction solar cells. *Progress in Photovoltaics: Research and Applications*, **2013**, 21, 393-400	6.8	45
61	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	13	21
60	Hybrid Solar Cells from Ordered Nanostructures **2013**, 385-417		
59	Nanostructured conformal hybrid solar cells: a promising architecture towards complete charge collection and light absorption. *Nanoscale Research Letters*, **2013**, 8, 359	5	11
58	Photocatalytic reduction of CO2 on TiO2 and other semiconductors. *Angewandte Chemie - International Edition*, **2013**, 52, 7372-408	16.4	2023
57	Highly ordered monolayer/bilayer TiO2 hollow sphere films with widely tunable visible-light reflection and absorption bands. *Nanoscale*, **2013**, 5, 5009-16	7.7	24
56	Perspective: Hybrid solar cells: How to get the polymer to cooperate?. *APL Materials*, **2013**, 1, 020901	5.7	6
55	Synergistic effects of interfacial modifiers enhance current and voltage in hybrid solar cells. *APL Materials*, **2013**, 1, 042109	5.7	13
54	Photokatalytische Reduktion von CO2 an TiO2 und anderen Halbleitern. *Angewandte Chemie*, **2013**, 125, 7516-7557	3.6	164
53	Highly absorbing solar cells--a survey of plasmonic nanostructures. *Optics Express*, **2012**, 20 Suppl 2, A177-89	3.5	53
52	Temperature-stable and optically transparent thin-film zinc oxide aerogel electrodes as model systems for 3D interpenetrating organic-inorganic heterojunction solar cells. *ACS Applied Materials & Interfaces*, **2012**, 4, 6522-9	9.5	11
51	Imprinting localized plasmons for enhanced solar cells. *Nanotechnology*, **2012**, 23, 385202	3.4	9

50	Large polycyclic aromatic hydrocarbons for application in donor–acceptor photovoltaics. *Physica Status Solidi (A) Applications and Materials Science*, **2012**, 209, 785-789	1.6	5
49	Incompatible Length Scales in Nanostructured Cu2O Solar Cells. *Advanced Functional Materials*, **2012**, 22, 2202-2208	15.6	132
48	Light-trapping plasmonic nanovoid arrays. *Physical Review B*, **2012**, 85,	3.3	32
47	Nanoscale investigation on large crystallites in TiO2 nanotube arrays and implications for high-quality hybrid photodiodes. *Journal of Materials Science*, **2012**, 47, 6459-6466	4.3	5
46	Influence of metallic and dielectric nanowire arrays on the photoluminescence properties of P3HT thin films. *Nanotechnology*, **2012**, 23, 305402	3.4	7
45	Controlled Growth of TiO2 Nanotubes on Conducting Glass. *Chemistry of Materials*, **2011**, 23, 155-162	9.6	25
44	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	3.8	41
43	Nanostructured Inorganic Solar Cells. *Green*, **2011**, 1,		8
42	UV light protection through TiO2 blocking layers for inverted organic solar cells. *Solar Energy Materials and Solar Cells*, **2011**, 95, 3450-3454	6.4	69
41	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	2.2	21
40	A Novel Buffering Technique for Aqueous Processing of Zinc Oxide Nanostructures and Interfaces, and Corresponding Improvement of Electrodeposited ZnO-Cu2O Photovoltaics. *Advanced Functional Materials*, **2011**, 21, 573-582	15.6	116
39	Nanostructured organic and hybrid solar cells. *Advanced Materials*, **2011**, 23, 1810-28	24	279
38	Perylene Sensitization of Fullerenes for Improved Performance in Organic Photovoltaics. *Advanced Energy Materials*, **2011**, 1, 861-869	21.8	45
37	Heteroepitaxial growth of ZnO branches selectively on TiO2 nanorod tips with improved light harvesting performance. *Chemical Communications*, **2011**, 47, 8400-2	5.8	26
36	Characterization of Interfacial Modifiers for Hybrid Solar Cells. *Journal of Physical Chemistry C*, **2011**, 115, 15081-15088	3.8	41
35	Patterning Poly(3-Hexylthiophene) in the Sub-50-nm Region by Nanoimprint Lithography. *IEEE Nanotechnology Magazine*, **2011**, 10, 482-488	2.6	8
34	Macroscopically uniform electrodeposited ZnO films on conducting glass by surface tension modification and consequent demonstration of significantly improved p–n heterojunctions. *Electrochimica Acta*, **2011**, 56, 3758-3763	6.7	19
33	Nanostructuring discotic molecules on ITO support. *Nanotechnology*, **2011**, 22, 055303	3.4	11

32	The rapid growth of 3 microm long titania nanotubes by anodization of titanium in a neutral electrochemical bath. *Nanotechnology*, **2010**, 21, 055601	3.4	22
31	Influence of anodisation voltage on the dimension of titania nanotubes. *Journal of Alloys and Compounds*, **2010**, 503, 359-364	5.7	65
30	Nanostructured interfaces in polymer solar cells. *Applied Physics Letters*, **2010**, 96, 263109	3.4	63
29	Strong efficiency improvements in ultra-low-cost inorganic nanowire solar cells. *Advanced Materials* , **2010**, 22, E254-8	24	167
28	Strong Efficiency Improvements in Ultra-low-Cost Inorganic Nanowire Solar Cells (Adv. Mater. 35/2010). *Advanced Materials*, **2010**, 22, n/a-n/a	24	7
27	Discotic materials for organic solar cells: Effects of chemical structure on assembly and performance. *Solar Energy Materials and Solar Cells*, **2010**, 94, 560-567	6.4	57
26	Spray-deposited PEDOT:PSS for inverted organic solar cells. *Solar Energy Materials and Solar Cells*, **2010**, 94, 2371-2374	6.4	71
25	Low-Temperature Synthesis of Large-Area, Free-Standing Nanorod Arrays on ITO/Glass and other Conducting Substrates. *Advanced Materials*, **2008**, 20, 4470-4475	24	72
24	The backing layer dependence of open circuit voltage in ZnO/polymer composite solar cells. *Thin Solid Films*, **2008**, 516, 7218-7222	2.2	40
23	A simple low temperature synthesis route for ZnO-MgO core-shell nanowires. *Nanotechnology*, **2008**, 19, 465603	3.4	104
22	A novel blue dye for near-IR dye-sensitised solar cell applications. *Chemical Communications*, **2007**, 234-6	5.8	232
21	Advances in Liquid-Electrolyte and Solid-State Dye-Sensitized Solar Cells. *Advanced Materials*, **2007**, 19, 3187-3200	24	527
20	ZnO nanostructures, defects, and devices. *Materials Today*, **2007**, 10, 40-48	21.8	1369
19	Highly Efficient Porphyrin Sensitizers for Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2007**, 111, 11760-11762	3.8	651
18	Parameters Influencing Charge Separation in Solid-State Dye-Sensitized Solar Cells Using Novel Hole Conductors. *Advanced Functional Materials*, **2006**, 16, 1832-1838	15.6	189
17	Light intensity, temperature, and thickness dependence of the open-circuit voltage in solid-state dye-sensitized solar cells. *Physical Review B*, **2006**, 74,	3.3	152
16	Alkyl chain barriers for kinetic optimization in dye-sensitized solar cells. *Journal of the American Chemical Society*, **2006**, 128, 16376-83	16.4	243
15	TiO2 pore-filling and its effect on the efficiency of solid-state dye-sensitized solar cells. *Thin Solid Films*, **2006**, 500, 296-301	2.2	226

14	Effect of hydrocarbon chain length of amphiphilic ruthenium dyes on solid-state dye-sensitized photovoltaics. *Nano Letters*, **2005**, 5, 1315-20	11.5	146
13	Control of dark current in photoelectrochemical (TiO2/I–I3-)) and dye-sensitized solar cells. *Chemical Communications*, **2005**, 4351-3	5.8	538
12	Efficiency improvement in solid-state-dye-sensitized photovoltaics with an amphiphilic Ruthenium-dye. *Applied Physics Letters*, **2005**, 86, 013504	3.4	186
11	Zn-porphyrin-sensitized nanocrystalline TiO2 heterojunction photovoltaic cells. *ChemPhysChem*, **2005**, 6, 1253-8	3.2	92
10	Ion-coordinating sensitizer in solid-state hybrid solar cells. *Angewandte Chemie - International Edition*, **2005**, 44, 6413-7	16.4	72
9	Ion-Coordinating Sensitizer in Solid-State Hybrid Solar Cells. *Angewandte Chemie*, **2005**, 117, 6571-6575	3.6	9
8	Organic Dye for Highly Efficient Solid-State Dye-Sensitized Solar Cells. *Advanced Materials*, **2005**, 17, 813-815	24	462
7	Amphiphilic Dye for Solid-State Dye-Sensitized Solar Cells. *Materials Research Society Symposia Proceedings*, **2004**, 836, L1.4.1		
6	Photo-Induced Charge Separation in a Blend of Perylenediimide and Hexabenzocoronene Derivatives Studied by FP-TRMC. *Synthetic Metals*, **2003**, 137, 1375-1376	3.6	6
5	Organic Thin Film Photovoltaic Devices from Discotic Materials. *Molecular Crystals and Liquid Crystals*, **2003**, 396, 73-90	0.5	48
4	Efficient organic photovoltaics from soluble discotic liquid crystalline materials. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 14, 263-267	3	56
3	Self-organized discotic liquid crystals for high-efficiency organic photovoltaics. *Science*, **2001**, 293, 1119-22	33.3	2132
2	Titanium oxynitride coated graphite paper electrodes for light-weight supercapacitors. *Journal of Materials Science: Materials in Electronics*,1	2.1	0
1	Recent Trends in Template Assisted 3D Porous Materials for Electrochemical Supercapacitors. *Journal of Materials Chemistry A*,	13	5