

# Lukas Schmidt-Mende

## List of Publications by Citations

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14,907  
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6.7  
L-index

#	Paper	IF	Citations
157	Self-organized discotic liquid crystals for high-efficiency organic photovoltaics. <i>Science</i> , <b>2001</b> , 293, 1119-1123	33.3	2132
156	Photocatalytic reduction of CO <sub>2</sub> on TiO <sub>2</sub> and other semiconductors. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 7372-408	16.4	2023
155	ZnO nanostructures, defects, and devices. <i>Materials Today</i> , <b>2007</b> , 10, 40-48	21.8	1369
154	Highly Efficient Porphyrin Sensitizers for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 11760-11762	3.8	651
153	Control of dark current in photoelectrochemical (TiO <sub>2</sub> /I <sup>-</sup> /I <sup>3-</sup> ) and dye-sensitized solar cells. <i>Chemical Communications</i> , <b>2005</b> , 4351-3	5.8	538
152	Advances in Liquid-Electrolyte and Solid-State Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , <b>2007</b> , 19, 3187-3200	24	527
151	Organic Dye for Highly Efficient Solid-State Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , <b>2005</b> , 17, 813-815	24	462
150	Nanostructured organic and hybrid solar cells. <i>Advanced Materials</i> , <b>2011</b> , 23, 1810-28	24	279
149	Advances in hole transport materials engineering for stable and efficient perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 34, 271-305	17.1	278
148	Alkyl chain barriers for kinetic optimization in dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 16376-83	16.4	243
147	A novel blue dye for near-IR dye-sensitized solar cell applications. <i>Chemical Communications</i> , <b>2007</b> , 234-6.8	6.8	232
146	TiO <sub>2</sub> pore-filling and its effect on the efficiency of solid-state dye-sensitized solar cells. <i>Thin Solid Films</i> , <b>2006</b> , 500, 296-301	2.2	226
145	Interfaces in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700623	21.8	225
144	Parameters Influencing Charge Separation in Solid-State Dye-Sensitized Solar Cells Using Novel Hole Conductors. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1832-1838	15.6	189
143	Efficiency improvement in solid-state-dye-sensitized photovoltaics with an amphiphilic Ruthenium-dye. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 013504	3.4	186
142	Quantification of ion migration in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells by transient capacitance measurements. <i>Materials Horizons</i> , <b>2019</b> , 6, 1497-1503	14.4	184
141	Strong efficiency improvements in ultra-low-cost inorganic nanowire solar cells. <i>Advanced Materials</i> , <b>2010</b> , 22, E254-8	24	167

140	Photokatalytische Reduktion von CO <sub>2</sub> an TiO <sub>2</sub> und anderen Halbleitern. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 7516-7557	3.6	164
139	Light intensity, temperature, and thickness dependence of the open-circuit voltage in solid-state dye-sensitized solar cells. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	152
138	Effect of hydrocarbon chain length of amphiphilic ruthenium dyes on solid-state dye-sensitized photovoltaics. <i>Nano Letters</i> , <b>2005</b> , 5, 1315-20	11.5	146
137	Incompatible Length Scales in Nanostructured Cu <sub>2</sub> O Solar Cells. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 2202-2208	15.6	132
136	A Novel Buffering Technique for Aqueous Processing of Zinc Oxide Nanostructures and Interfaces, and Corresponding Improvement of Electrodeposited ZnO-Cu <sub>2</sub> O Photovoltaics. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 573-582	15.6	116
135	Research Update: Physical and electrical characteristics of lead halide perovskites for solar cell applications. <i>APL Materials</i> , <b>2014</b> , 2, 040701	5.7	114
134	A simple low temperature synthesis route for ZnO-MgO core-shell nanowires. <i>Nanotechnology</i> , <b>2008</b> , 19, 465603	3.4	104
133	Zn-porphyrin-sensitized nanocrystalline TiO <sub>2</sub> heterojunction photovoltaic cells. <i>ChemPhysChem</i> , <b>2005</b> , 6, 1253-8	3.2	92
132	Interplay of Mobile Ions and Injected Carriers Creates Recombination Centers in Metal Halide Perovskites under Bias. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1279-1286	20.1	81
131	Characterization of perovskite solar cells: Towards a reliable measurement protocol. <i>APL Materials</i> , <b>2016</b> , 4, 091901	5.7	79
130	Toward High-Efficiency Solution-Processed Planar Heterojunction SbS Solar Cells. <i>Advanced Science</i> , <b>2015</b> , 2, 1500059	13.6	77
129	Low-Temperature Synthesis of Large-Area, Free-Standing Nanorod Arrays on ITO/Glass and other Conducting Substrates. <i>Advanced Materials</i> , <b>2008</b> , 20, 4470-4475	24	72
128	Ion-coordinating sensitizer in solid-state hybrid solar cells. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 6413-7	16.4	72
127	Spray-deposited PEDOT:PSS for inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2010</b> , 94, 2371-2374	6.4	71
126	UV light protection through TiO <sub>2</sub> blocking layers for inverted organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 3450-3454	6.4	69
125	Inorganic and Layered Perovskites for Optoelectronic Devices. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807095	24	67
124	Influence of anodisation voltage on the dimension of titania nanotubes. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 503, 359-364	5.7	65
123	Nanostructured interfaces in polymer solar cells. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 263109	3.4	63

122	Humidity versus photo-stability of metal halide perovskite films in a polymer matrix. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 21629-39	3.6	62
121	Discotic materials for organic solar cells: Effects of chemical structure on assembly and performance. <i>Solar Energy Materials and Solar Cells</i> , <b>2010</b> , 94, 560-567	6.4	57
120	Toward Fluorinated Spacers for MAPI-Derived Hybrid Perovskites: Synthesis, Characterization, and Phase Transitions of (FC <sub>2</sub> H <sub>4</sub> NH <sub>3</sub> ) <sub>2</sub> PbCl <sub>4</sub> . <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6560-6566	9.6	56
119	Efficient organic photovoltaics from soluble discotic liquid crystalline materials. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 14, 263-267	3	56
118	Highly absorbing solar cells--a survey of plasmonic nanostructures. <i>Optics Express</i> , <b>2012</b> , 20 Suppl 2, A1773-89	3.8	53
117	Organic Thin Film Photovoltaic Devices from Discotic Materials. <i>Molecular Crystals and Liquid Crystals</i> , <b>2003</b> , 396, 73-90	0.5	48
116	Porous and shape-anisotropic single crystals of the semiconductor perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> from a single-source precursor. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 1341-6	16.4	45
115	High-speed atmospheric atomic layer deposition of ultra thin amorphous TiO <sub>2</sub> blocking layers at 100 °C for inverted bulk heterojunction solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2013</b> , 21, 393-400	6.8	45
114	Perylene Sensitization of Fullerenes for Improved Performance in Organic Photovoltaics. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 861-869	21.8	45
113	Direct Observation and Quantitative Analysis of Mobile Frenkel Defects in Metal Halide Perovskites Using Scanning Kelvin Probe Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 12633-12639	3.8	43
112	Fast Charge-Carrier Trapping in TiO <sub>2</sub> Nanotubes. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 9159-9168	3.8	42
111	Facile Synthesis and Photocatalysis of Size-Distributed TiO <sub>2</sub> Hollow Spheres Consisting of {116} Plane-Oriented Nanocrystallites. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 6405-6409	3.8	41
110	Characterization of Interfacial Modifiers for Hybrid Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 15081-15088	3.8	41
109	The backing layer dependence of open circuit voltage in ZnO/polymer composite solar cells. <i>Thin Solid Films</i> , <b>2008</b> , 516, 7218-7222	2.2	40
108	Influence of interfacial area on exciton separation and polaron recombination in nanostructured bilayer all-polymer solar cells. <i>ACS Nano</i> , <b>2014</b> , 8, 12397-409	16.7	39
107	Perovskite-Polymer Blends Influencing Microstructures, Nonradiative Recombination Pathways, and Photovoltaic Performance of Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 42542-42551	9.5	38
106	H-aggregate analysis of P3HT thin films-Capability and limitation of photoluminescence and UV/Vis spectroscopy. <i>Scientific Reports</i> , <b>2016</b> , 6, 32434	4.9	37
105	Research Update: Behind the high efficiency of hybrid perovskite solar cells. <i>APL Materials</i> , <b>2016</b> , 4, 091505	3.5	36

104	Interface-Dependent Radiative and Nonradiative Recombination in Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 10691-10698	3.8	34
103	Role of the Metal-Oxide Work Function on Photocurrent Generation in Hybrid Solar Cells. <i>Scientific Reports</i> , <b>2018</b> , 8, 3559	4.9	32
102	Catalytically Doped Semiconductors for Chemical Gas Sensing: Aerogel-Like Aluminum-Containing Zinc Oxide Materials Prepared in the Gas Phase. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3424-3437	15.6	32
101	Light-trapping plasmonic nanovoid arrays. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	32
100	Lithium Doping of ZnO for High Efficiency and Stability Fullerene and Non-fullerene Organic Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1663-1675	6.1	30
99	Nanoparticle shape anisotropy and photoluminescence properties: Europium containing ZnO as a Model Case. <i>Nanoscale</i> , <b>2015</b> , 7, 16969-82	7.7	28
98	Roadmap on organic/inorganic hybrid perovskite semiconductors and devices. <i>APL Materials</i> , <b>2021</b> , 9, 109202	5.7	28
97	Heteroepitaxial growth of ZnO branches selectively on TiO <sub>2</sub> nanorod tips with improved light harvesting performance. <i>Chemical Communications</i> , <b>2011</b> , 47, 8400-2	5.8	26
96	Controlled Growth of TiO <sub>2</sub> Nanotubes on Conducting Glass. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 155-162	9.6	25
95	Benzimidazolium Lead Halide Perovskites: Effects of Anion Substitution and Dimensionality on the Bandgap. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2016</b> , 642, 1369-1376	1.3	25
94	Nano-Heteroarchitectures of Two-Dimensional MoS <sub>2</sub> @ One-Dimensional Brookite TiO Nanorods: Prominent Electron Emitters for Displays. <i>ACS Omega</i> , <b>2017</b> , 2, 2925-2934	3.9	24
93	Three-dimensional graphitized carbon nanovesicles for high-performance supercapacitors based on ionic liquids. <i>ChemSusChem</i> , <b>2014</b> , 7, 777-84	8.3	24
92	Highly ordered monolayer/bilayer TiO <sub>2</sub> hollow sphere films with widely tunable visible-light reflection and absorption bands. <i>Nanoscale</i> , <b>2013</b> , 5, 5009-16	7.7	24
91	Uniform Large-Area Free-Standing Silver Nanowire Arrays on Transparent Conducting Substrates. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, D447-D452	3.9	23
90	Control of Recombination Pathways in TiO <sub>2</sub> Nanowire Hybrid Solar Cells Using Sn <sup>4+</sup> Dopants. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 16672-16679	3.8	22
89	The rapid growth of 3 microm long titania nanotubes by anodization of titanium in a neutral electrochemical bath. <i>Nanotechnology</i> , <b>2010</b> , 21, 055601	3.4	22
88	The influence of 1D, meso- and crystal structures on charge transport and recombination in solid-state dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12088	13	21
87	Structural properties of the active layer of discotic hexabenzocoronene/perylene diimide bulk hetero junction photovoltaic devices: The role of alkyl side chain length. <i>Thin Solid Films</i> , <b>2011</b> , 520, 307-313	2.2	21

86	Model for Hydrothermal Growth of Rutile Wires and the Associated Development of Defect Structures. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 4658-4663	3.5	20
85	A silanol-functionalized polyoxometalate with excellent electron transfer mediating behavior to ZnO and TiO <sub>2</sub> cathode interlayers for highly efficient and extremely stable polymer solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1459-1469	7.1	19
84	Decoupling optical and electronic optimization of organic solar cells using high-performance temperature-stable TiO <sub>2</sub> /Ag/TiO <sub>2</sub> electrodes. <i>APL Materials</i> , <b>2015</b> , 3, 106105	5.7	19
83	Macroscopically uniform electrodeposited ZnO films on conducting glass by surface tension modification and consequent demonstration of significantly improved p-n heterojunctions. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 3758-3763	6.7	19
82	Tuning optical/electrical properties of 2D/3D perovskite by the inclusion of aromatic cation. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 30189-30199	3.6	18
81	Template-free synthesis of novel, highly-ordered 3D hierarchical Nb <sub>3</sub> O <sub>7</sub> (OH) superstructures with semiconductive and photoactive properties. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12005	13	17
80	Insights into the passivation effect of atomic layer deposited hafnium oxide for efficiency and stability enhancement in organic solar cells. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 8051-8059	7.1	17
79	Impact of Crystal Surface on Photoexcited States in Organic-Inorganic Perovskites. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604995	15.6	16
78	Thiophene-Functionalized Hybrid Perovskite Microrods and their Application in Photodetector Devices for Investigating Charge Transport Through Interfaces in Particle-Based Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 1077-1085	9.5	16
77	Defeating Loss Mechanisms in 1D TiO <sub>2</sub> -Based Hybrid Solar Cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2601-2608	15.6	16
76	Hybrid solar cells from Sb <sub>2</sub> S <sub>3</sub> nanoparticle ink. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 172, 335-340	6.4	16
75	Pseudo-Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100818	21.8	16
74	Promising field electron emission performance of vertically aligned one dimensional (1D) brookite (TiO <sub>2</sub> ) nanorods. <i>RSC Advances</i> , <b>2016</b> , 6, 98722-98729	3.7	16
73	Highly Efficient Reproducible Perovskite Solar Cells Prepared by Low-Temperature Processing. <i>Molecules</i> , <b>2016</b> , 21, 542	4.8	15
72	Fiber-Shaped Electronic Devices. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101443	21.8	15
71	Completing the Picture of 2-(Aminomethylpyridinium) Lead Hybrid Perovskites: Insights into Structure, Conductivity Behavior, and Optical Properties. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6289-6297	9.6	14
70	Perovskite semiconductors for next generation optoelectronic applications. <i>APL Materials</i> , <b>2019</b> , 7, 080401	9.7	14
69	Tuning the properties of F:SnO <sub>2</sub> (FTO) nanocomposites with S:TiO <sub>2</sub> nanoparticles promising hazy transparent electrodes for photovoltaics applications. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 91-102	7.1	13

68	Hydrothermally Grown TiO Nanorod Array Memristors with Volatile States. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 23363-23369	9.5	13
67	Tuning the Electronic Conductivity in Hydrothermally Grown Rutile TiO <sub>2</sub> Nanowires: Effect of Heat Treatment in Different Environments. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	13
66	Synergistic effects of interfacial modifiers enhance current and voltage in hybrid solar cells. <i>APL Materials</i> , <b>2013</b> , 1, 042109	5.7	13
65	Enhanced Organic and Perovskite Solar Cell Performance through Modification of the Electron-Selective Contact with a Bodipy-Porphyrin Dyad. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 1120-1131	9.5	13
64	Robust Inorganic Hole Transport Materials for Organic and Perovskite Solar Cells: Insights into Materials Electronic Properties and Device Performance. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000555	7.1	13
63	Photocurrents in crystal-amorphous hybrid stannous oxide/alumina binary nanofibers. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 6337-6348	3.8	11
62	Nanostructured conformal hybrid solar cells: a promising architecture towards complete charge collection and light absorption. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 359	5	11
61	Incoherent Pathways of Charge Separation in Organic and Hybrid Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 4858-4864	6.4	11
60	Temperature-stable and optically transparent thin-film zinc oxide aerogel electrodes as model systems for 3D interpenetrating organic-inorganic heterojunction solar cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 6522-9	9.5	11
59	Nanostructuring discotic molecules on ITO support. <i>Nanotechnology</i> , <b>2011</b> , 22, 055303	3.4	11
58	Influence of substrates and rutile seed layers on the assembly of hydrothermally grown rutile TiO <sub>2</sub> nanorod arrays. <i>Journal of Crystal Growth</i> , <b>2018</b> , 494, 26-35	1.6	10
57	A Perspective on the Commercial Viability of Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100401	7.1	10
56	Imprinting localized plasmons for enhanced solar cells. <i>Nanotechnology</i> , <b>2012</b> , 23, 385202	3.4	9
55	Ion-Coordinating Sensitizer in Solid-State Hybrid Solar Cells. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 6571-6575	3.6	9
54	Nanostructured Inorganic Solar Cells. <i>Green</i> , <b>2011</b> , 1,		8
53	Patterning Poly(3-Hexylthiophene) in the Sub-50-nm Region by Nanoimprint Lithography. <i>IEEE Nanotechnology Magazine</i> , <b>2011</b> , 10, 482-488	2.6	8
52	Mechanism and Impact of Cation Polarization in Methylammonium Lead Iodide. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 12140-12147	3.8	8
51	Surface Band Bending Influences the Open-Circuit Voltage of Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 4045-4052	6.1	7

50	Controlling the Spatial Direction of Hydrothermally Grown Rutile TiO <sub>2</sub> Nanocrystals by the Orientation of Seed Crystals. <i>Crystals</i> , <b>2019</b> , 9, 64	2.3	7
49	A comparison of light-coupling into high and low index nanostructured photovoltaic thin films. <i>APL Materials</i> , <b>2015</b> , 3, 066101	5.7	7
48	Influence of metallic and dielectric nanowire arrays on the photoluminescence properties of P3HT thin films. <i>Nanotechnology</i> , <b>2012</b> , 23, 305402	3.4	7
47	Strong Efficiency Improvements in Ultra-low-Cost Inorganic Nanowire Solar Cells (Adv. Mater. 35/2010). <i>Advanced Materials</i> , <b>2010</b> , 22, n/a-n/a	24	7
46	TiO <sub>2</sub> Nanowire Array Memristive Devices Emulating Functionalities of Biological Synapses. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2000950	6.4	7
45	Improving pore-filling in TiO <sub>2</sub> nanorods and nanotubes scaffolds for perovskite solar cells via methylamine gas healing. <i>Solar Energy</i> , <b>2018</b> , 170, 541-548	6.8	6
44	Insights into optoelectronic properties of anti-solvent treated perovskite films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 15630-15636	2.1	6
43	Role of charge separation mechanism and local disorder at hybrid solar cell interfaces. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	6
42	Perspective: Hybrid solar cells: How to get the polymer to cooperate?. <i>APL Materials</i> , <b>2013</b> , 1, 020901	5.7	6
41	Photo-Induced Charge Separation in a Blend of Perylene diimide and Hexabenzocoronene Derivatives Studied by FP-TRMC. <i>Synthetic Metals</i> , <b>2003</b> , 137, 1375-1376	3.6	6
40	Performance enhancement of CsPbI <sub>2</sub> Br perovskite solar cells via stoichiometric control and interface engineering. <i>Solar Energy</i> , <b>2020</b> , 211, 654-660	6.8	6
39	Interfacial charge transfer processes in 2D and 3D semiconducting hybrid perovskites: azobenzene as photoswitchable ligand. <i>Beilstein Journal of Nanotechnology</i> , <b>2020</b> , 11, 466-479	3	6
38	A Brief Review on Stretchable, Compressible, and Deformable Supercapacitor for Smart Devices. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136876	14.7	6
37	Direct Patterning of Metal Chalcogenide Semiconductor Materials. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002685	15.6	5
36	Rapid synthesis of vertically aligned HMoO <sub>4</sub> nanostructures on substrates.. <i>RSC Advances</i> , <b>2020</b> , 10, 24119-24126	3.7	5
35	Preface: Special Topic on Perovskite Solar Cells. <i>APL Materials</i> , <b>2014</b> , 2, 081201	5.7	5
34	Large polycyclic aromatic hydrocarbons for application in donor-acceptor photovoltaics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2012</b> , 209, 785-789	1.6	5
33	Nanoscale investigation on large crystallites in TiO <sub>2</sub> nanotube arrays and implications for high-quality hybrid photodiodes. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 6459-6466	4.3	5



32	Controlling the density of hydrothermally grown rutile TiO <sub>2</sub> nanorods on anatase TiO <sub>2</sub> films. <i>Surfaces and Interfaces</i> , <b>2019</b> , 15, 141-147	4.1	5
31	Tailored Interface Energetics for Efficient Charge Separation in Metal Oxide-Polymer Solar Cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 74	4.9	5
30	Recent Trends in Template Assisted 3D Porous Materials for Electrochemical Supercapacitors. <i>Journal of Materials Chemistry A</i> ,	13	5
29	Boosting charge collection efficiency via large-area free-standing Ag/ZnO core-shell nanowire array electrodes. <i>Progress in Natural Science: Materials International</i> , <b>2019</b> , 29, 124-128	3.6	4
28	Curing perovskites—way towards control of crystallinity and improved stability. <i>JPhys Energy</i> , <b>2020</b> , 2, 021001	4.9	4
27	Non-equilibrium growth model of fibrous mesocrystalline rutile TiO <sub>2</sub> nanorods. <i>Journal of Crystal Growth</i> , <b>2019</b> , 511, 8-14	1.6	3
26	Spatial and spectral mode mapping of a dielectric nanodot by broadband interferometric homodyne scanning near-field spectroscopy. <i>Advanced Photonics</i> , <b>2020</b> , 2,	8.1	3
25	Photovoltaic cells based on ternary P3HT:PCBM: Ruthenium(II) complex bearing 8-(diphenylphosphino)quinoline active layer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 622, 126685	5.1	3
24	Hybrid Organic/Inorganic and Perovskite Solar Cells. <i>Green Chemistry and Sustainable Technology</i> , <b>2018</b> , 187-227	1.1	2
23	Structure-induced resonant tail-state regime absorption in polymer: fullerene bulk-heterojunction solar cells. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	2
22	Modulating defect density of NiO hole transport layer via tuning interfacial oxygen stoichiometry in perovskite solar cells. <i>Solar Energy</i> , <b>2022</b> , 233, 326-336	6.8	2
21	A Perspective on the Commercial Viability of Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2021</b> , 5, 2170113	7.1	2
20	Performance enhancement in Sb <sub>2</sub> S <sub>3</sub> solar cell processed with direct laser interference patterning. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 230, 111235	6.4	2
19	Position-controlled laser-induced creation of rutile TiO nanostructures. <i>Nanotechnology</i> , <b>2019</b> , 30, 335302	9.4	1
18	Fabrication and characterization of abrupt TiO <sub>2</sub> /BiOx core-shell nanowires by a simple heat treatment. <i>APL Materials</i> , <b>2017</b> , 5, 086101	5.7	1
17	Impact of the glass transition on exciton dynamics in polymer thin films. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	1
16	Chapter 5:The Role of Nanostructured Metal Oxides in Hybrid Solar Cells. <i>RSC Energy and Environment Series</i> , <b>2016</b> , 141-176	0.6	1
15	Metallophthalocyanines in a ternary photoactive layer (P3HT:MPc:PC70BM) for bulk heterojunction solar cells. <i>Materials Advances</i> , <b>2020</b> , 1, 3058-3072	3.3	1

14	Titanium oxynitride coated graphite paper electrodes for light-weight supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> ,1	2.1	○
13	Complementary switching in single Nb <sub>3</sub> O <sub>7</sub> (OH) nanowires. <i>APL Materials</i> , <b>2021</b> , 9, 071105	5.7	○
12	Hierarchical Carbon Coated Vertically Aligned H <sub>2</sub> MoO <sub>3</sub> Nanoblades Anode Materials for Supercapacitor Application. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165530	5.7	○
11	Molecular design for all-in-one self-assembled donor-acceptor organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2022</b> , 244, 111798	6.4	○
10	Controlled Morphologies by Molecular Design and Nano-Imprint Lithography. <i>Advances in Polymer Science</i> , <b>2017</b> , 215-242	1.3	
9	Eine Halbleiter-Tinte für die Zukunft. <i>Physik in Unserer Zeit</i> , <b>2019</b> , 50, 298-304	0.1	
8	Nanostructured Hybrid Solar Cells <b>2014</b> , 801-826		
7	Solid-State Dye-Sensitized Solar Cells <b>2014</b> , 465-494		
6	Hybrid Solar Cells from Ordered Nanostructures <b>2013</b> , 385-417		
5	Amphiphilic Dye for Solid-State Dye-Sensitized Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 836, L1.4.1		
4	Giant polarization anisotropic optical response from anodic aluminum oxide templates embedded with plasmonic metamaterials. <i>Optics Express</i> , <b>2020</b> , 28, 29513-29528	3.3	
3	Interaction between plasmonic silver nanorod arrays and nanosecond pulsed laser. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 607, 412573	2.8	
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1	Advanced scanning probe lithography using anatase-to-rutile transition to create localized TiO nanorods. <i>Beilstein Journal of Nanotechnology</i> , <b>2019</b> , 10, 412-418	3	