

# Sjoerd H Hoogland

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

146  
papers

22,701  
citations

61  
h-index

150  
g-index

152  
ext. papers

25,795  
ext. citations

17.1  
avg, IF

6.59  
L-index

#	Paper	IF	Citations
146	Controlled Crystal Plane Orientations in ZnO Transport Layer enables High Responsivity, Low Dark Current Infrared Photodetectors.. <i>Advanced Materials</i> , <b>2022</b> , e2200321	24	4
145	Rigid Conjugated Diamine Templates for Stable Dion-Jacobson-Type Two-Dimensional Perovskites. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 19901-19908	16.4	5
144	Electro-Optic Modulation Using Metal-Free Perovskites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 19042-19047	9.5	3
143	Reply to: Perovskite decomposition and missing crystal planes in HRTEM. <i>Nature</i> , <b>2021</b> , 594, E8-E9	50.4	
142	Deep-Blue Perovskite Single-Mode Lasing through Efficient Vapor-Assisted Chlorination. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006697	24	17
141	Linear Electro-Optic Modulation in Highly Polarizable Organic Perovskites. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006368	24	8
140	Facet-Oriented Coupling Enables Fast and Sensitive Colloidal Quantum Dot Photodetectors. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101056	24	13
139	Quantum Dot Self-Assembly Enables Low-Threshold Lasing. <i>Advanced Science</i> , <b>2021</b> , 8, e2101125	13.6	12
138	Bright and Stable Light-Emitting Diodes Based on Perovskite Quantum Dots in Perovskite Matrix. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 15606-15615	16.4	22
137	Control Over Ligand Exchange Reactivity in Hole Transport Layer Enables High-Efficiency Colloidal Quantum Dot Solar Cells. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 468-476	20.1	14
136	InP-Quantum-Dot-in-ZnS-Matrix Solids for Thermal and Air Stability. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9584-9590	9.6	2
135	Multiple Self-Trapped Emissions in the Lead-Free Halide CsCuI. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 4326-4330	6.4	40
134	Micron Thick Colloidal Quantum Dot Solids. <i>Nano Letters</i> , <b>2020</b> , 20, 5284-5291	11.5	23
133	Colloidal Quantum Dot Bulk Heterojunction Solids with Near-Unity Charge Extraction Efficiency. <i>Advanced Science</i> , <b>2020</b> , 7, 2000894	13.6	10
132	A Chemically Orthogonal Hole Transport Layer for Efficient Colloidal Quantum Dot Solar Cells. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906199	24	38
131	Single-Precursor Intermediate Shelling Enables Bright, Narrow Line Width InAs/InZnP-Based QD Emitters. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2919-2925	9.6	6
130	Enhanced optical path and electron diffusion length enable high-efficiency perovskite tandems. <i>Nature Communications</i> , <b>2020</b> , 11, 1257	17.4	114

129	Bipolar-shell resurfacing for blue LEDs based on strongly confined perovskite quantum dots. <i>Nature Nanotechnology</i> , <b>2020</b> , 15, 668-674	28.7	281
128	High Color Purity Lead-Free Perovskite Light-Emitting Diodes via Sn Stabilization. <i>Advanced Science</i> , <b>2020</b> , 7, 1903213	13.6	85
127	Quantum Dot-Plasmon Lasing with Controlled Polarization Patterns. <i>ACS Nano</i> , <b>2020</b> , 14, 3426-3433	16.7	26
126	Engineering Directionality in Quantum Dot Shell Lasing Using Plasmonic Lattices. <i>Nano Letters</i> , <b>2020</b> , 20, 1468-1474	11.5	21
125	Ligand-Assisted Reconstruction of Colloidal Quantum Dots Decreases Trap State Density. <i>Nano Letters</i> , <b>2020</b> , 20, 3694-3702	11.5	27
124	Stabilizing Surface Passivation Enables Stable Operation of Colloidal Quantum Dot Photovoltaic Devices at Maximum Power Point in an Air Ambient. <i>Advanced Materials</i> , <b>2020</b> , 32, e1906497	24	23
123	Spatial Collection in Colloidal Quantum Dot Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908200	5.6	14
122	Narrow Emission from Rb3Sb2I9 Nanoparticles. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901606	8.1	16
121	Cascade surface modification of colloidal quantum dot inks enables efficient bulk homojunction photovoltaics. <i>Nature Communications</i> , <b>2020</b> , 11, 103	17.4	110
120	Structural Distortion and Bandgap Increase of Two-Dimensional Perovskites Induced by Trifluoromethyl Substitution on Spacer Cations. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 10144-10149	6.4	7
119	High-Performance Perovskite Single-Junction and Textured Perovskite/Silicon Tandem Solar Cells via Slot-Die-Coating. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3034-3040	20.1	65
118	A Tuned Alternating D-A Copolymer Hole-Transport Layer Enables Colloidal Quantum Dot Solar Cells with Superior Fill Factor and Efficiency. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004985	24	25
117	Colloidal Quantum Dot Solar Cell Band Alignment using Two-Step Ionic Doping <b>2020</b> , 2, 1583-1589		6
116	Efficient and Stable Colloidal Quantum Dot Solar Cells with a Green-Solvent Hole-Transport Layer. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002084	21.8	9
115	Orthogonal colloidal quantum dot inks enable efficient multilayer optoelectronic devices. <i>Nature Communications</i> , <b>2020</b> , 11, 4814	17.4	19
114	Monolithic Organic/Colloidal Quantum Dot Hybrid Tandem Solar Cells via Buffer Engineering. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004657	24	7
113	Suppression of Auger Recombination by Gradient Alloying in InAs/CdSe/CdS QDs. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 7703-7709	9.6	4
112	Mixed Lead Halide Passivation of Quantum Dots. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904304	24	42

111	Stable Colloidal Quantum Dot Inks Enable Inkjet-Printed High-Sensitivity Infrared Photodetectors. <i>ACS Nano</i> , <b>2019</b> , 13, 11988-11995	16.7	55
110	Nanostructured Back Reflectors for Efficient Colloidal Quantum-Dot Infrared Optoelectronics. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901745	24	36
109	Lattice anchoring stabilizes solution-processed semiconductors. <i>Nature</i> , <b>2019</b> , 570, 96-101	50.4	149
108	Controlled Steric Hindrance Enables Efficient Ligand Exchange for Stable, Infrared-Bandgap Quantum Dot Inks. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1225-1230	20.1	30
107	A Facet-Specific Quantum Dot Passivation Strategy for Colloid Management and Efficient Infrared Photovoltaics. <i>Advanced Materials</i> , <b>2019</b> , 31, e1805580	24	55
106	Electro-Optic Modulation in Hybrid Metal Halide Perovskites. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808336	24	26
105	Temperature-Induced Self-Compensating Defect Traps and Gain Thresholds in Colloidal Quantum Dots. <i>ACS Nano</i> , <b>2019</b> , 13, 8970-8976	16.7	7
104	Efficient hybrid colloidal quantum dot/organic solar cells mediated by near-infrared sensitizing small molecules. <i>Nature Energy</i> , <b>2019</b> , 4, 969-976	62.3	78
103	Bright colloidal quantum dot light-emitting diodes enabled by efficient chlorination. <i>Nature Photonics</i> , <b>2018</b> , 12, 159-164	33.9	206
102	2D matrix engineering for homogeneous quantum dot coupling in photovoltaic solids. <i>Nature Nanotechnology</i> , <b>2018</b> , 13, 456-462	28.7	196
101	Hybrid Tandem Quantum Dot/Organic Solar Cells with Enhanced Photocurrent and Efficiency via Ink and Interlayer Engineering. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1307-1314	20.1	26
100	Spin control in reduced-dimensional chiral perovskites. <i>Nature Photonics</i> , <b>2018</b> , 12, 528-533	33.9	205
99	Acid-Assisted Ligand Exchange Enhances Coupling in Colloidal Quantum Dot Solids. <i>Nano Letters</i> , <b>2018</b> , 18, 4417-4423	11.5	37
98	Infrared Cavity-Enhanced Colloidal Quantum Dot Photovoltaics Employing Asymmetric Multilayer Electrodes. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2908-2913	20.1	12
97	Multibandgap quantum dot ensembles for solar-matched infrared energy harvesting. <i>Nature Communications</i> , <b>2018</b> , 9, 4003	17.4	39
96	Butylamine-Catalyzed Synthesis of Nanocrystal Inks Enables Efficient Infrared CQD Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803830	24	48
95	Picosecond Charge Transfer and Long Carrier Diffusion Lengths in Colloidal Quantum Dot Solids. <i>Nano Letters</i> , <b>2018</b> , 18, 7052-7059	11.5	42
94	Activated Electron-Transport Layers for Infrared Quantum Dot Optoelectronics. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801720	24	34

93	Efficient and stable solution-processed planar perovskite solar cells via contact passivation. <i>Science</i> , <b>2017</b> , 355, 722-726	33.3	1667
92	Enhanced Solar-to-Hydrogen Generation with Broadband Epsilon-Near-Zero Nanostructured Photocatalysts. <i>Advanced Materials</i> , <b>2017</b> , 29, 1701165	24	29
91	Pseudohalide-Exchanged Quantum Dot Solids Achieve Record Quantum Efficiency in Infrared Photovoltaics. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700749	24	61
90	Quantum Dot Color-Converting Solids Operating Efficiently in the kW/cm <sup>2</sup> Regime. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5104-5112	9.6	15
89	Hybrid tandem quantum dot/organic photovoltaic cells with complementary near infrared absorption. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 223903	3.4	17
88	Field-emission from quantum-dot-in-perovskite solids. <i>Nature Communications</i> , <b>2017</b> , 8, 14757	17.4	68
87	Nanoimprint-Transfer-Patterned Solids Enhance Light Absorption in Colloidal Quantum Dot Solar Cells. <i>Nano Letters</i> , <b>2017</b> , 17, 2349-2353	11.5	39
86	Quantum Dots in Two-Dimensional Perovskite Matrices for Efficient Near-Infrared Light Emission. <i>ACS Photonics</i> , <b>2017</b> , 4, 830-836	6.3	28
85	Continuous-wave lasing in colloidal quantum dot solids enabled by facet-selective epitaxy. <i>Nature</i> , <b>2017</b> , 544, 75-79	50.4	225
84	Halide Re-Shelled Quantum Dot Inks for Infrared Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 37536-37541	9.5	26
83	Chloride Passivation of ZnO Electrodes Improves Charge Extraction in Colloidal Quantum Dot Photovoltaics. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702350	24	97
82	Molecular Doping of the Hole-Transporting Layer for Efficient, Single-Step-Deposited Colloidal Quantum Dot Photovoltaics. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1952-1959	20.1	39
81	Mixed-quantum-dot solar cells. <i>Nature Communications</i> , <b>2017</b> , 8, 1325	17.4	113
80	Study of Exciton Hopping Transport in PbS Colloidal Quantum Dot Thin Films Using Frequency- and Temperature-Scanned Photocarrier Radiometry. <i>International Journal of Thermophysics</i> , <b>2017</b> , 38, 1	2.1	6
79	Hybrid organic-inorganic inks flatten the energy landscape in colloidal quantum dot solids. <i>Nature Materials</i> , <b>2017</b> , 16, 258-263	27	432
78	Efficient Biexciton Interaction in Perovskite Quantum Dots Under Weak and Strong Confinement. <i>ACS Nano</i> , <b>2016</b> , 10, 8603-9	16.7	142
77	Amine-Free Synthesis of Cesium Lead Halide Perovskite Quantum Dots for Efficient Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8757-8763	15.6	265
76	Perovskite energy funnels for efficient light-emitting diodes. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 872-877	28.7	1484

75	Imbalanced charge carrier mobility and Schottky junction induced anomalous current-voltage characteristics of excitonic PbS colloidal quantum dot solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 155, 155-165	6.4	31
74	ZnFe <sub>2</sub> O <sub>4</sub> Leaves Grown on TiO <sub>2</sub> Trees Enhance Photoelectrochemical Water Splitting. <i>Small</i> , <b>2016</b> , 12, 3181-8	11	50
73	Quantitative Analysis of Trap-State-Mediated Exciton Transport in Perovskite-Shelled PbS Quantum Dot Thin Films Using Photocarrier Diffusion-Wave Nondestructive Evaluation and Imaging. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 14416-14427	3.8	22
72	10.6% Certified Colloidal Quantum Dot Solar Cells via Solvent-Polarity-Engineered Halide Passivation. <i>Nano Letters</i> , <b>2016</b> , 16, 4630-4	11.5	275
71	Passivation Using Molecular Halides Increases Quantum Dot Solar Cell Performance. <i>Advanced Materials</i> , <b>2016</b> , 28, 299-304	24	279
70	Double-Sided Junctions Enable High-Performance Colloidal-Quantum-Dot Photovoltaics. <i>Advanced Materials</i> , <b>2016</b> , 28, 4142-8	24	100
69	Ligand-Stabilized Reduced-Dimensionality Perovskites. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 2649-55	16.4	889
68	The In-Gap Electronic State Spectrum of Methylammonium Lead Iodide Single-Crystal Perovskites. <i>Advanced Materials</i> , <b>2016</b> , 28, 3406-10	24	151
67	Design of Phosphor White Light Systems for High-Power Applications. <i>ACS Photonics</i> , <b>2016</b> , 3, 2243-2248	6.3	33
66	Single-step colloidal quantum dot films for infrared solar harvesting. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 183105	3.4	42
65	Gradient-Doped Colloidal Quantum Dot Solids Enable Thermophotovoltaic Harvesting of Waste Heat. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 740-746	20.1	7
64	Atomistic Design of CdSe/CdS Core-Shell Quantum Dots with Suppressed Auger Recombination. <i>Nano Letters</i> , <b>2016</b> , 16, 6491-6496	11.5	39
63	Optical Generation and Transport of Charges in Iron Pyrite Nanocrystal Films and Subsequent Injection into SnO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 22155-22162	3.8	5
62	Optical Resonance Engineering for Infrared Colloidal Quantum Dot Photovoltaics. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 852-857	20.1	19
61	Photojunction field-effect transistor based on a colloidal quantum dot absorber channel layer. <i>ACS Nano</i> , <b>2015</b> , 9, 356-62	16.7	57
60	Two-Photon Absorption in Organometallic Bromide Perovskites. <i>ACS Nano</i> , <b>2015</b> , 9, 9340-6	16.7	208
59	Single-step fabrication of quantum funnels via centrifugal colloidal casting of nanoparticle films. <i>Nature Communications</i> , <b>2015</b> , 6, 7772	17.4	57
58	Quantum-dot-in-perovskite solids. <i>Nature</i> , <b>2015</b> , 523, 324-8	50.4	382

57	Microsecond-sustained lasing from colloidal quantum dot solids. <i>Nature Communications</i> , <b>2015</b> , 6, 8694	17.4	91
56	High-Efficiency Colloidal Quantum Dot Photovoltaics via Robust Self-Assembled Monolayers. <i>Nano Letters</i> , <b>2015</b> , 15, 7691-6	11.5	175
55	Infrared Colloidal Quantum Dot Photovoltaics via Coupling Enhancement and Agglomeration Suppression. <i>ACS Nano</i> , <b>2015</b> , 9, 8833-42	16.7	73
54	All-Quantum-Dot Infrared Light-Emitting Diodes. <i>ACS Nano</i> , <b>2015</b> , 9, 12327-33	16.7	48
53	Perovskite thin films via atomic layer deposition. <i>Advanced Materials</i> , <b>2015</b> , 27, 53-8	24	171
52	Atomic layer deposition of absorbing thin films on nanostructured electrodes for short-wavelength infrared photosensing. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 153105	3.4	4
51	Planar-integrated single-crystalline perovskite photodetectors. <i>Nature Communications</i> , <b>2015</b> , 6, 8724	17.4	497
50	Solar cells. Low trap-state density and long carrier diffusion in organolead trihalide perovskite single crystals. <i>Science</i> , <b>2015</b> , 347, 519-22	33.3	3307
49	Electronically active impurities in colloidal quantum dot solids. <i>ACS Nano</i> , <b>2014</b> , 8, 11763-9	16.7	30
48	Conformal organohalide perovskites enable lasing on spherical resonators. <i>ACS Nano</i> , <b>2014</b> , 8, 10947-52	16.7	290
47	Engineering colloidal quantum dot solids within and beyond the mobility-invariant regime. <i>Nature Communications</i> , <b>2014</b> , 5, 3803	17.4	188
46	Air-stable n-type colloidal quantum dot solids. <i>Nature Materials</i> , <b>2014</b> , 13, 822-8	27	466
45	Folded-light-path colloidal quantum dot solar cells. <i>Scientific Reports</i> , <b>2013</b> , 3, 2166	4.9	20
44	Directly deposited quantum dot solids using a colloidal stable nanoparticle ink. <i>Advanced Materials</i> , <b>2013</b> , 25, 5742-9	24	87
43	Exciton Lifetime Broadening and Distribution Profiles of PbS Colloidal Quantum Dot Thin Films Using Frequency- and Temperature-Scanned Photocurrent Radiometry. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 23333-23348	3.8	27
42	Jointly tuned plasmonic-excitonic photovoltaics using nanoshells. <i>Nano Letters</i> , <b>2013</b> , 13, 1502-8	11.5	89
41	Graded doping for enhanced colloidal quantum dot photovoltaics. <i>Advanced Materials</i> , <b>2013</b> , 25, 1719-23	24	150
40	Self-assembled, nanowire network electrodes for depleted bulk heterojunction solar cells. <i>Advanced Materials</i> , <b>2013</b> , 25, 1769-73	24	101



39	Self-Assembled, Nanowire Network Electrodes for Depleted Bulk Heterojunction Solar Cells (Adv. Mater. 12/2013). <i>Advanced Materials</i> , <b>2013</b> , 25, 1768-1768	24	4
38	Measuring charge carrier diffusion in coupled colloidal quantum dot solids. <i>ACS Nano</i> , <b>2013</b> , 7, 5282-90	16.7	163
37	Joint mapping of mobility and trap density in colloidal quantum dot solids. <i>ACS Nano</i> , <b>2013</b> , 7, 5757-62	16.7	26
36	Interface Recombination in Depleted Heterojunction Photovoltaics based on Colloidal Quantum Dots. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 917-922	21.8	97
35	The donor-supply electrode enhances performance in colloidal quantum dot solar cells. <i>ACS Nano</i> , <b>2013</b> , 7, 6111-6	16.7	105
34	Broadband solar absorption enhancement via periodic nanostructuring of electrodes. <i>Scientific Reports</i> , <b>2013</b> , 3, 2928	4.9	63
33	Photocurrent extraction efficiency in colloidal quantum dot photovoltaics. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 211101	3.4	18
32	Hybrid passivated colloidal quantum dot solids. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 577-82	28.7	993
31	N-type colloidal-quantum-dot solids for photovoltaics. <i>Advanced Materials</i> , <b>2012</b> , 24, 6181-5	24	165
30	All-inorganic colloidal quantum dot photovoltaics employing solution-phase halide passivation. <i>Advanced Materials</i> , <b>2012</b> , 24, 6295-9	24	179
29	Quantum junction solar cells. <i>Nano Letters</i> , <b>2012</b> , 12, 4889-94	11.5	169
28	A charge-orbital balance picture of doping in colloidal quantum dot solids. <i>ACS Nano</i> , <b>2012</b> , 6, 8448-55	16.7	183
27	Enhanced mobility-lifetime products in PbS colloidal quantum dot photovoltaics. <i>ACS Nano</i> , <b>2012</b> , 6, 89-96	16.7	214
26	Systematic optimization of quantum junction colloidal quantum dot solar cells. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 151112	3.4	48
25	Quantum beats due to excitonic ground-state splitting in colloidal quantum dots. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	20
24	DNA-based programming of quantum dot valency, self-assembly and luminescence. <i>Nature Nanotechnology</i> , <b>2011</b> , 6, 485-90	28.7	204
23	A tunable colloidal quantum dot photo field-effect transistor. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 101102	3.4	16
22	Colloidal-quantum-dot photovoltaics using atomic-ligand passivation. <i>Nature Materials</i> , <b>2011</b> , 10, 765-71	12.7	206



21	Tandem colloidal quantum dot solar cells employing a graded recombination layer. <i>Nature Photonics</i> , <b>2011</b> , 5, 480-484	33.9	336
20	Gain bandwidth characterization of surface-emitting quantum well laser gain structures for femtosecond operation. <i>Optics Express</i> , <b>2010</b> , 18, 21330-41	3.3	19
19	Fast, sensitive and spectrally tuneable colloidal-quantum-dot photodetectors. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 40-4	28.7	395
18	Megahertz-frequency large-area optical modulators at 1.55 microm based on solution-cast colloidal quantum dots. <i>Optics Express</i> , <b>2008</b> , 16, 6683-91	3.3	14
17	Carrier relaxation dynamics in lead sulfide colloidal quantum dots. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 2757-60	3.4	37
16	Efficient Schottky-quantum-dot photovoltaics: The roles of depletion, drift, and diffusion. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 122111	3.4	143
15	A solution-processed 1.53 microm quantum dot laser with temperature-invariant emission wavelength. <i>Optics Express</i> , <b>2006</b> , 14, 3273-81	3.3	103
14	Ultrasensitive solution-cast quantum dot photodetectors. <i>Nature</i> , <b>2006</b> , 442, 180-3	50.4	1442
13	Extended cavity surface-emitting semiconductor lasers. <i>Progress in Quantum Electronics</i> , <b>2006</b> , 30, 1-43	9.1	113
12	Physical, electrical, and optical properties of SF-PECVD-grown hydrogenated microcrystalline silicon with growth surface electrical bias. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2006</b> , 17, 789-799	2.1	3
11	10-GHz train of sub-500-fs optical soliton-like pulses from a surface-emitting semiconductor laser. <i>IEEE Photonics Technology Letters</i> , <b>2005</b> , 17, 267-269	2.2	42
10	Vertical-external-cavity semiconductor lasers. <i>Journal Physics D: Applied Physics</i> , <b>2004</b> , 37, R75-R85	3	121
9	Picosecond pulse generation with 1.5 [micro sign]m passively modelocked surface-emitting semiconductor laser. <i>Electronics Letters</i> , <b>2003</b> , 39, 846	1.1	26
8	Continuous-wave operation of monolithically grown 1.5-microm optically pumped vertical-external-cavity surface-emitting lasers. <i>Applied Optics</i> , <b>2003</b> , 42, 6678-81	1.7	5
7	Soliton-like pulse-shaping mechanism in passively mode-locked surface-emitting semiconductor lasers. <i>Applied Physics B: Lasers and Optics</i> , <b>2002</b> , 75, 445-451	1.9	85
6	Sub-500-fs soliton-like pulse in a passively mode-locked broadband surface-emitting laser with 100 mW average power. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 3892-3894	3.4	148
5	Passively mode-locked diode-pumped surface-emitting semiconductor laser. <i>IEEE Photonics Technology Letters</i> , <b>2000</b> , 12, 1135-1137	2.2	129
4	Optical gain and lasing in colloidal quantum dots	199-232	3

3	The Impact of Ion Migration on the Electro-Optic Effect in Hybrid Organic-Inorganic Perovskites. <i>Advanced Functional Materials</i> ,2107939	15.6	4
2	Self-Aligned Non-Centrosymmetric Conjugated Molecules Enable Electro-Optic Perovskites. <i>Advanced Optical Materials</i> ,2100730	8.1	3
1	Quantum-size-tuned heterostructures enable efficient and stable inverted perovskite solar cells. <i>Nature Photonics</i> ,	33.9	35