

# Gerasimos Konstantatos

## List of Publications by Citations

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#	Paper	IF	Citations
132	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , <b>2015</b> , 7, 4598-810	7.7	2015
131	Solution-processed PbS quantum dot infrared photodetectors and photovoltaics. <i>Nature Materials</i> , <b>2005</b> , 4, 138-42	27	1620
130	Hybrid graphene-quantum dot phototransistors with ultrahigh gain. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 363-8	28.7	1588
129	Ultrasensitive solution-cast quantum dot photodetectors. <i>Nature</i> , <b>2006</b> , 442, 180-3	50.4	1442
128	Nanostructured materials for photon detection. <i>Nature Nanotechnology</i> , <b>2010</b> , 5, 391-400	28.7	1036
127	Prospects of nanoscience with nanocrystals. <i>ACS Nano</i> , <b>2015</b> , 9, 1012-57	16.7	849
126	Depleted-heterojunction colloidal quantum dot solar cells. <i>ACS Nano</i> , <b>2010</b> , 4, 3374-80	16.7	707
125	Hybrid 2D-0D MoS <sub>2</sub> -PbS quantum dot photodetectors. <i>Advanced Materials</i> , <b>2015</b> , 27, 176-80	24	507
124	Fast, sensitive and spectrally tuneable colloidal-quantum-dot photodetectors. <i>Nature Nanotechnology</i> , <b>2009</b> , 4, 40-4	28.7	395
123	Highly Sensitive, Encapsulated MoS <sub>2</sub> Photodetector with Gate Controllable Gain and Speed. <i>Nano Letters</i> , <b>2015</b> , 15, 7307-13	11.5	381
122	Broadband image sensor array based on grapheneCMOS integration. <i>Nature Photonics</i> , <b>2017</b> , 11, 366-371	33.9	350
121	Sensitive solution-processed visible-wavelength photodetectors. <i>Nature Photonics</i> , <b>2007</b> , 1, 531-534	33.9	342
120	Sensitive solution-processed Bi <sub>2</sub> S <sub>3</sub> nanocrystalline photodetectors. <i>Nano Letters</i> , <b>2008</b> , 8, 4002-6	11.5	239
119	The role of surface passivation for efficient and photostable PbS quantum dot solar cells. <i>Nature Energy</i> , <b>2016</b> , 1,	62.3	233
118	Recent Progress and Future Prospects of 2D-Based Photodetectors. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801164	11.6	221
117	Synthesis of monodispersed wurtzite structure CuInSe <sub>2</sub> nanocrystals and their application in high-performance organic-inorganic hybrid photodetectors. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 12218-21	16.4	221
116	Solution-processed solar cells based on environmentally friendly AgBiS <sub>2</sub> nanocrystals. <i>Nature Photonics</i> , <b>2016</b> , 10, 521-525	33.9	218

115	Near-Unity Photoluminescence Quantum Yield in CsPbBr <sub>3</sub> Nanocrystal Solid-State Films via Postsynthesis Treatment with Lead Bromide. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7663-7667	9.6	218
114	Solution-processed inorganic bulk nano-heterojunctions and their application to solar cells. <i>Nature Photonics</i> , <b>2012</b> , 6, 529-534	33.9	194
113	Engineering the temporal response of photoconductive photodetectors via selective introduction of surface trap states. <i>Nano Letters</i> , <b>2008</b> , 8, 1446-50	11.5	192
112	MoS <sub>2</sub> -HgTe Quantum Dot Hybrid Photodetectors beyond 2 $\mu$ m. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606576	24	188
111	Integrating an electrically active colloidal quantum dot photodiode with a graphene phototransistor. <i>Nature Communications</i> , <b>2016</b> , 7, 11954	17.4	161
110	Photo-FETs: Phototransistors Enabled by 2D and 0D Nanomaterials. <i>ACS Photonics</i> , <b>2016</b> , 3, 2197-2210	6.3	160
109	Solution-processed heterojunction solar cells based on p-type PbS quantum dots and n-type Bi <sub>2</sub> S <sub>3</sub> nanocrystals. <i>Advanced Materials</i> , <b>2011</b> , 23, 3712-7	24	160
108	PbS colloidal quantum dot photoconductive photodetectors: Transport, traps, and gain. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 173505	3.4	143
107	Ultrasensitive all-2D MoS <sub>2</sub> phototransistors enabled by an out-of-plane MoS <sub>2</sub> PN homojunction. <i>Nature Communications</i> , <b>2017</b> , 8, 572	17.4	122
106	High-efficiency colloidal quantum dot infrared light-emitting diodes via engineering at the supra-nanocrystalline level. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 72-79	28.7	112
105	Enhanced infrared photovoltaic efficiency in PbS nanocrystal/semiconducting polymer composites: 600-fold increase in maximum power output via control of the ligand barrier. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 233101	3.4	111
104	Wurtzite Cu <sub>2</sub> ZnSnSe <sub>4</sub> nanocrystals for high-performance organic/inorganic hybrid photodetectors. <i>NPG Asia Materials</i> , <b>2012</b> , 4, e2-e2	10.3	109
103	Flexible graphene photodetectors for wearable fitness monitoring. <i>Science Advances</i> , <b>2019</b> , 5, eaaw7846	14.3	107
102	Solution-Processed Quantum Dot Photodetectors. <i>Proceedings of the IEEE</i> , <b>2009</b> , 97, 1666-1683	14.3	105
101	Current status and technological prospect of photodetectors based on two-dimensional materials. <i>Nature Communications</i> , <b>2018</b> , 9, 5266	17.4	104
100	High performance photodetectors of individual InSe single crystalline nanowire. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15602-3	16.4	98
99	Interface Engineering in Hybrid Quantum Dot/2D Phototransistors. <i>ACS Photonics</i> , <b>2016</b> , 3, 1324-1330	6.3	97
98	Photoelectric energy conversion of plasmon-generated hot carriers in metal-insulator-semiconductor structures. <i>ACS Nano</i> , <b>2013</b> , 7, 3581-8	16.7	97

97	Efficient Infrared Electroluminescent Devices Using Solution-Processed Colloidal Quantum Dots. <i>Advanced Functional Materials</i> , <b>2005</b> , 15, 1865-1869	15.6	93
96	Heterovalent cation substitutional doping for quantum dot homojunction solar cells. <i>Nature Communications</i> , <b>2013</b> , 4, 2981	17.4	92
95	Colloidal quantum dot photodetectors. <i>Infrared Physics and Technology</i> , <b>2011</b> , 54, 278-282	2.7	91
94	Ultra-high Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , <b>2017</b> , 29, 1602432	24	87
93	Bandgap engineering of monodispersed Cu <sub>(2-x)</sub> S <sub>(y)</sub> Se <sub>(1-y)</sub> nanocrystals through chalcogen ratio and crystal structure. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 18558-61	16.4	86
92	Suppressing Deep Traps in PbS Colloidal Quantum Dots via Facile Iodide Substitutional Doping for Solar Cells with Efficiency >10%. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 739-744	20.1	78
91	Infrared Solution-Processed Quantum Dot Solar Cells Reaching External Quantum Efficiency of 80% at 1.35 $\mu\text{m}$ and J in Excess of 34 mA cm. <i>Advanced Materials</i> , <b>2018</b> , 30, 1704928	24	73
90	Complete colloidal synthesis of Cu <sub>2-x</sub> Se <sub>y</sub> nanocrystals with crystal phase and shape control. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 7954-60	16.4	69
89	Heavy-metal-free solution-processed nanoparticle-based photodetectors: doping of intrinsic vacancies enables engineering of sensitivity and speed. <i>ACS Nano</i> , <b>2009</b> , 3, 331-8	16.7	68
88	Near IR-Sensitive, Non-toxic, Polymer/Nanocrystal Solar Cells Employing Bi <sub>2</sub> S <sub>3</sub> as the Electron Acceptor. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 1029-1035	21.8	63
87	Size and bandgap tunability in Bi <sub>2</sub> S <sub>3</sub> colloidal nanocrystals and its effect in solution processed solar cells. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20642-20648	13	61
86	Breaking the Open-Circuit Voltage Deficit Floor in PbS Quantum Dot Solar Cells through Synergistic Ligand and Architecture Engineering. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1444-1449	20.1	60
85	Trap-State Suppression and Improved Charge Transport in PbS Quantum Dot Solar Cells with Synergistic Mixed-Ligand Treatments. <i>Small</i> , <b>2017</b> , 13, 1700598	11	55
84	Large-Area Plasmonic-Crystal Hot-Electron-Based Photodetectors. <i>ACS Photonics</i> , <b>2015</b> , 2, 950-957	6.3	55
83	Reduction of moisture sensitivity of PbS quantum dot solar cells by incorporation of reduced graphene oxide. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 183, 1-7	6.4	55
82	Remote trap passivation in colloidal quantum dot bulk nano-heterojunctions and its effect in solution-processed solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 4741-7	24	55
81	High-Open-Circuit-Voltage Solar Cells Based on Bright Mixed-Halide CsPbBr <sub>2</sub> Perovskite Nanocrystals Synthesized under Ambient Air Conditions. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 7621-7626	12.8	47
80	Smooth-Morphology Ultrasensitive Solution-Processed Photodetectors. <i>Advanced Materials</i> , <b>2008</b> , 20, 4398-4402	24	46

79	Plasmonic light trapping leads to responsivity increase in colloidal quantum dot photodetectors. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 043101	3.4	44
78	Luminescence from processible quantum dot-polymer light emitters 1100–600 nm: Tailoring spectral width and shape. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3459-3461	3.4	42
77	Integrated prototype nanodevices via SnO <sub>2</sub> nanoparticles decorated SnSe nanosheets. <i>Scientific Reports</i> , <b>2013</b> , 3, 2613	4.9	41
76	Strategies for the Controlled Electronic Doping of Colloidal Quantum Dot Solids. <i>ChemPhysChem</i> , <b>2016</b> , 17, 632-44	3.2	41
75	High carrier mobility in monolayer CVD-grown MoS through phonon suppression. <i>Nanoscale</i> , <b>2018</b> , 10, 15071-15077	7.7	40
74	Integrated colloidal quantum dot photodetectors with color-tunable plasmonic nanofocusing lenses. <i>Light: Science and Applications</i> , <b>2015</b> , 4, e234-e234	16.7	39
73	Eco-friendly visible-wavelength photodetectors based on bandgap engineerable nanomaterials. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 17582		38
72	Imprinted electrodes for enhanced light trapping in solution processed solar cells. <i>Advanced Materials</i> , <b>2014</b> , 26, 443-8	24	37
71	Hybrid solution-processed bulk heterojunction solar cells based on bismuth sulfide nanocrystals. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 5482-7	3.6	36
70	A facile phosphine-free colloidal synthesis of Cu <sub>2</sub> SnS <sub>3</sub> and Cu <sub>2</sub> ZnSnS <sub>4</sub> nanorods with a controllable aspect ratio. <i>Chemical Communications</i> , <b>2015</b> , 51, 13810-3	5.8	35
69	Mid- and Long-Wave Infrared Optoelectronics via Intraband Transitions in PbS Colloidal Quantum Dots. <i>Nano Letters</i> , <b>2020</b> , 20, 1003-1008	11.5	33
68	Thiol-Free Synthesized Copper Indium Sulfide Nanocrystals as Optoelectronic Quantum Dot Solids. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 8424-8432	9.6	32
67	Size- and Temperature-Dependent Carrier Dynamics in Oleic Acid Capped PbS Quantum Dots. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 1887-1892	3.8	31
66	Molecular interfaces for plasmonic hot electron photovoltaics. <i>Nanoscale</i> , <b>2015</b> , 7, 2281-8	7.7	31
65	Solid-state colloidal CuInS quantum dot solar cells enabled by bulk heterojunctions. <i>Nanoscale</i> , <b>2016</b> , 8, 16776-16785	7.7	30
64	Matildite versus schapbachite: First-principles investigation of the origin of photoactivity in AgBiS <sub>2</sub> . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	29
63	Tailoring the Electronic Properties of Colloidal Quantum Dots in Metal-Semiconductor Nanocomposites for High Performance Photodetectors. <i>Small</i> , <b>2015</b> , 11, 2636-41	11	28
62	Solution processed infrared- and thermo-photovoltaics based on 0.7 eV bandgap PbS colloidal quantum dots. <i>Nanoscale</i> , <b>2019</b> , 11, 838-843	7.7	27

61	Solution Processed Bismuth Sulfide Nanowire Array Core/Silver Sulfide Shell Solar Cells. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3700-3706	9.6	27
60	Negative capacitance in polymer-nanocrystal composites. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3567-3569	3.4	27
59	Reducing Interface Recombination through Mixed Nanocrystal Interlayers in PbS Quantum Dot Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27390-27395	9.5	25
58	High Sensitivity Hybrid PbS CQD-TMDC Photodetectors up to 2 $\mu$ m. <i>ACS Photonics</i> , <b>2019</b> , 6, 2381-2386	6.3	24
57	Colloidal AgBiS <sub>2</sub> nanocrystals with reduced recombination yield 6.4% power conversion efficiency in solution-processed solar cells. <i>Nano Energy</i> , <b>2020</b> , 75, 104961	17.1	24
56	Determination of carrier lifetime and mobility in colloidal quantum dot films via impedance spectroscopy. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 063504	3.4	24
55	Surface Plasmon Polariton Couplers for Light Trapping in Thin-Film Absorbers and Their Application to Colloidal Quantum Dot Optoelectronics. <i>ACS Photonics</i> , <b>2014</b> , 1, 1197-1205	6.3	23
54	Absorption enhancement in solution processed metal-semiconductor nanocomposites. <i>Optics Express</i> , <b>2011</b> , 19, 21038-49	3.3	23
53	Single-Exciton Gain and Stimulated Emission Across the Infrared Telecom Band from Robust Heavily Doped PbS Colloidal Quantum Dots. <i>Nano Letters</i> , <b>2020</b> , 20, 5909-5915	11.5	22
52	Colloidal Quantum Dot Tandem Solar Cells Using Chemical Vapor Deposited Graphene as an Atomically Thin Intermediate Recombination Layer. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1753-1759	20.1	22
51	Engineering Vacancies in Bi <sub>2</sub> S <sub>3</sub> yielding Sub-Bandgap Photoresponse and Highly Sensitive Short-Wave Infrared Photodetectors. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900258	8.1	21
50	Improved electronic coupling in hybrid organic-inorganic nanocomposites employing thiol-functionalized P3HT and bismuth sulfide nanocrystals. <i>Nanoscale</i> , <b>2014</b> , 6, 10018-26	7.7	20
49	AuCu alloy bridged synthesis and optoelectronic properties of Au@CuInSe <sub>2</sub> core-shell hybrid nanostructures. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 1765-1769		20
48	Cation disorder engineering yields AgBiS <sub>2</sub> nanocrystals with enhanced optical absorption for efficient ultrathin solar cells. <i>Nature Photonics</i> , <b>2022</b> , 16, 235-241	33.9	19
47	Low-temperature colloidal synthesis of CuBiS <sub>2</sub> nanocrystals for optoelectronic devices. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24621-24625	13	17
46	Electrical effects of metal nanoparticles embedded in ultra-thin colloidal quantum dot films. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 041103	3.4	17
45	Bandgap engineering by cationic disorder: case study on AgBiS <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 27940-27944	3.6	16
44	Low-Temperature, Solution-Based Sulfurization and Necking of PbS CQD Films. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 20315-20322	3.8	15

43	White and Brightly Colored 3D Printing Based on Resonant Photothermal Sensitizers. <i>Nano Letters</i> , <b>2018</b> , 18, 6660-6664	11.5	15
42	High-Efficiency Light-Emitting Diodes Based on Formamidineum Lead Bromide Nanocrystals and Solution Processed Transport Layers. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6231-6235	9.6	15
41	Low-Cost RoHS Compliant Solution Processed Photovoltaics Enabled by Ambient Condition Synthesis of AgBiS Nanocrystals. <i>ACS Photonics</i> , <b>2020</b> , 7, 588-595	6.3	14
40	Coupling Resonant Modes of Embedded Dielectric Microspheres in Solution-Processed Solar Cells. <i>Advanced Optical Materials</i> , <b>2013</b> , 1, 139-143	8.1	14
39	Metal-insulator-semiconductor heterostructures for plasmonic hot-carrier optoelectronics. <i>Optics Express</i> , <b>2015</b> , 23, 14715-23	3.3	13
38	Size- and Temperature-Dependent Intraband Optical Properties of Heavily n-Doped PbS Colloidal Quantum Dot Solid-State Films. <i>ACS Nano</i> , <b>2020</b> , 14, 7161-7169	16.7	13
37	Colloidal synthesis of Cu <sub>2</sub> SnSe <sub>3</sub> nanocrystals with structure induced shape evolution. <i>CrystEngComm</i> , <b>2016</b> , 18, 3161-3169	3.3	13
36	Origin of the Below-Bandgap Turn-On Voltage in Light-Emitting Diodes and the High V in Solar Cells Comprising Colloidal Quantum Dots with an Engineered Density of States. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 3029-3034	6.4	12
35	On-Demand Activation of Photochromic Nanoheaters for High Color Purity 3D Printing. <i>Nano Letters</i> , <b>2020</b> , 20, 3485-3491	11.5	12
34	Exciton capture by nanocrystals in a polymer matrix. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 4066-4069	2.5	12
33	Solid-State Thin-Film Broadband Short-Wave Infrared Light Emitters. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003330	11.4	12
32	Highly Efficient, Bright, and Stable Colloidal Quantum Dot Short-Wave Infrared Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004445	15.6	11
31	Aliovalent Doping in Colloidal Quantum Dots and Its Manifestation on Their Optical Properties: Surface Attachment versus Structural Incorporation. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5384-5393	9.6	10
30	Plasmonic Schottky Nanojunctions for Tailoring the Photogeneration Profile in Thin Film Solar Cells. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 493-500	8.1	10
29	Solution-processed PbS quantum dot infrared laser with room-temperature tuneable emission in the optical telecommunications window. <i>Nature Photonics</i> , <b>2021</b> , 15, 738-742	33.9	10
28	Ag <sub>2</sub> ZnSnS <sub>4</sub> Nanocrystals Expand the Availability of RoHS Compliant Colloidal Quantum Dots. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2148-2155	9.6	8
27	Matildite Contact with Media: First-Principles Study of AgBiS Surfaces and Nanoparticle Morphology. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 521-526	3.4	7
26	Highly transparent and conductive ITO substrates for near infrared applications. <i>APL Materials</i> , <b>2021</b> , 9, 021121	5.7	7

25	Resonance energy transfer from PbS colloidal quantum dots to bulk silicon: the road to hybrid photovoltaics <b>2012</b> ,		6
24	Low-Threshold, Highly Stable Colloidal Quantum Dot Short-Wave Infrared Laser enabled by Suppression of Trap-Assisted Auger Recombination. <i>Advanced Materials</i> , <b>2021</b> , e2107532	24	5
23	AgBiSe <sub>2</sub> Colloidal Nanocrystals for Use in Solar Cells. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 2887-2894	5.6	5
22	Colloidal synthesis of lead-free Cs <sub>2</sub> TiBr <sub>6</sub> <sub>1-x</sub> perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 11098-11103	7.1	5
21	Spectroscopic evidence of resonance energy transfer mechanism from PbS QDs to bulk silicon. <i>EPJ Web of Conferences</i> , <b>2013</b> , 54, 01017	0.3	4
20	Colloidal quantum dot photodetectors173-198		3
19	Optical gain and lasing in colloidal quantum dots199-232		3
18	Solution-processed PbS quantum dot infrared photodetectors and photovoltaics <b>2010</b> , 70-74		3
17	AgZnSnS-ZnS core-shell colloidal quantum dots: a near-infrared luminescent material based on environmentally friendly elements. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 5682-5688	7.1	3
16	Hybrid 2D-QD MoS <sub>2</sub> /PbSe Quantum Dot Broadband Photodetectors with High-Sensitivity and Room-Temperature Operation at 2.5 $\mu$ m. <i>Advanced Optical Materials</i> ,2101378	8.1	3
15	Engineering colloidal quantum dots1-29		2
14	Visible-blind ZnMgO Colloidal Quantum Dot Downconverters expand Silicon CMOS Sensors Spectral Coverage into Ultraviolet and enable UV Band Discrimination.. <i>Advanced Materials</i> , <b>2022</b> , e2109498	24	2
13	Environmentally Friendly AgBiS <sub>2</sub> Nanocrystal Inks for Efficient Solar Cells Employing Green Solvent Processing. <i>Advanced Energy Materials</i> ,2200700	21.8	2
12	Colloidal Quantum Dot Light Emitting Diodes at Telecom Wavelength with 18% Quantum Efficiency and Over 1 $\mu$ MHz Bandwidth.. <i>Advanced Science</i> , <b>2022</b> , e2200637	13.6	2
11	Cation Disorder and Local Structural Distortions in AgBiS Nanoparticles. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	1
10	Microresonators: Coupling Resonant Modes of Embedded Dielectric Microspheres in Solution-Processed Solar Cells (Advanced Optical Materials 2/2013). <i>Advanced Optical Materials</i> , <b>2013</b> , 1, 194-194	8.1	1
9	Charge and energy transfer in polymer/nanocrystal blends87-111		1
8	Multiple exciton generation in semiconductor quantum dots and electronically coupled quantum dot arrays for application to thirdgeneration photovoltaic solar cells112-147		1



7	Depleted-Heterojunction Colloidal Quantum Dot Solar Cells Employing Low-Cost Metal Contacts <b>2010,</b>		1
6	Highly efficient, ultrathin, Cd-free kesterite solar cells in superstrate configuration enabled by band level tuning via Ag incorporation. <i>Nano Energy</i> , <b>2022</b> , 94, 106898	17.1	1
5	Ultra-Thin Infrared Optical Gain Medium and Optically-Pumped Stimulated Emission in PbS Colloidal Quantum Dot LEDs. <i>Advanced Functional Materials</i> , 2200832	15.6	1
4	Colloidal Quantum Dot Image Sensors: Technology and Marketplace Opportunities. <i>Information Display</i> , <b>2021</b> , 37, 18-23	0.8	0
3	Solution-processed infrared quantum dot solar cells 256-291		
2	Semiconductor quantum dot sensitized TiO <sub>2</sub> mesoporous solar cells 292-309		
1	66-5: Invited Paper: Colloidal Quantum Dots: A Material Platform for Highly Sensitive Photodetectors and High Quantum Efficiency Light Emitters in the SWIR. <i>Digest of Technical Papers SID International Symposium</i> , <b>2021</b> , 52, 991-994	0.5	