

Gerasimos Konstantatos

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.

132
papers

17,379
citations

51
h-index

131
g-index

138
ext. papers

19,543
ext. citations

13.4
avg, IF

7
L-index

#	Paper	IF	Citations
132	Visible-blind ZnMgO Colloidal Quantum Dot Downconverters expand Silicon CMOS Sensors Spectral Coverage into Ultraviolet and enable UV Band Discrimination.. <i>Advanced Materials</i> , 2022 , e2109498	24.9	2
131	Highly efficient, ultrathin, Cd-free kesterite solar cells in superstrate configuration enabled by band level tuning via Ag incorporation. <i>Nano Energy</i> , 2022 , 94, 106898	17.1	1
130	Cation disorder engineering yields AgBiS ₂ nanocrystals with enhanced optical absorption for efficient ultrathin solar cells. <i>Nature Photonics</i> , 2022 , 16, 235-241	33.9	19
129	Colloidal Quantum Dot Light Emitting Diodes at Telecom Wavelength with 18% Quantum Efficiency and Over 1µmHz Bandwidth.. <i>Advanced Science</i> , 2022 , e2200637	13.6	2
128	Low-Threshold, Highly Stable Colloidal Quantum Dot Short-Wave Infrared Laser enabled by Suppression of Trap-Assisted Auger Recombination. <i>Advanced Materials</i> , 2021 , e2107532	24	5
127	Colloidal Quantum Dot Image Sensors: Technology and Marketplace Opportunities. <i>Information Display</i> , 2021 , 37, 18-23	0.8	0
126	AgBiSe ₂ Colloidal Nanocrystals for Use in Solar Cells. <i>ACS Applied Nano Materials</i> , 2021 , 4, 2887-2894	5.6	5
125	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> , 2021 , 52, 991-994	0.5	
124	Colloidal synthesis of lead-free Cs ₂ TiBr ₆ 1-x perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11098-11103	7.1	5
123	AgZnSnS-ZnS core-shell colloidal quantum dots: a near-infrared luminescent material based on environmentally friendly elements. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5682-5688	7.1	3
122	Highly transparent and conductive ITO substrates for near infrared applications. <i>APL Materials</i> , 2021 , 9, 021121	5.7	7
121	Solution-processed PbS quantum dot infrared laser with room-temperature tuneable emission in the optical telecommunications window. <i>Nature Photonics</i> , 2021 , 15, 738-742	33.9	10
120	Size- and Temperature-Dependent Intraband Optical Properties of Heavily n-Doped PbS Colloidal Quantum Dot Solid-State Films. <i>ACS Nano</i> , 2020 , 14, 7161-7169	16.7	13
119	Colloidal AgBiS ₂ nanocrystals with reduced recombination yield 6.4% power conversion efficiency in solution-processed solar cells. <i>Nano Energy</i> , 2020 , 75, 104961	17.1	24
118	Low-Cost RoHS Compliant Solution Processed Photovoltaics Enabled by Ambient Condition Synthesis of AgBiS Nanocrystals. <i>ACS Photonics</i> , 2020 , 7, 588-595	6.3	14
117	Ag ₂ ZnSnS ₄ Nanocrystals Expand the Availability of RoHS Compliant Colloidal Quantum Dots. <i>Chemistry of Materials</i> , 2020 , 32, 2148-2155	9.6	8
116	Cation Disorder and Local Structural Distortions in AgBiS Nanoparticles. <i>Nanomaterials</i> , 2020 , 10,	5.4	1

115	Mid- and Long-Wave Infrared Optoelectronics via Intraband Transitions in PbS Colloidal Quantum Dots. <i>Nano Letters</i> , 2020 , 20, 1003-1008	11.5	33
114	On-Demand Activation of Photochromic Nanoheaters for High Color Purity 3D Printing. <i>Nano Letters</i> , 2020 , 20, 3485-3491	11.5	12
113	Single-Exciton Gain and Stimulated Emission Across the Infrared Telecom Band from Robust Heavily Doped PbS Colloidal Quantum Dots. <i>Nano Letters</i> , 2020 , 20, 5909-5915	11.5	22
112	Highly Efficient, Bright, and Stable Colloidal Quantum Dot Short-Wave Infrared Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2004445	15.6	11
111	Solid-State Thin-Film Broadband Short-Wave Infrared Light Emitters. <i>Advanced Materials</i> , 2020 , 32, e2003830	11.3	12
110	Flexible graphene photodetectors for wearable fitness monitoring. <i>Science Advances</i> , 2019 , 5, eaaw7846	14.3	107
109	High Sensitivity Hybrid PbS CQD-TMDC Photodetectors up to 2 μ m. <i>ACS Photonics</i> , 2019 , 6, 2381-2386	6.3	24
108	Solution processed infrared- and thermo-photovoltaics based on 0.7 eV bandgap PbS colloidal quantum dots. <i>Nanoscale</i> , 2019 , 11, 838-843	7.7	27
107	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> , 2019 , 10, 3029-3034	6.4	12
106	Engineering Vacancies in Bi2S3 yielding Sub-Bandgap Photoresponse and Highly Sensitive Short-Wave Infrared Photodetectors. <i>Advanced Optical Materials</i> , 2019 , 7, 1900258	8.1	21
105	High-efficiency colloidal quantum dot infrared light-emitting diodes via engineering at the supra-nanocrystalline level. <i>Nature Nanotechnology</i> , 2019 , 14, 72-79	28.7	112
104	Reduction of moisture sensitivity of PbS quantum dot solar cells by incorporation of reduced graphene oxide. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 183, 1-7	6.4	55
103	Infrared Solution-Processed Quantum Dot Solar Cells Reaching External Quantum Efficiency of 80% at 1.35 μ m and J in Excess of 34 mA cm. <i>Advanced Materials</i> , 2018 , 30, 1704928	24	73
102	High-Open-Circuit-Voltage Solar Cells Based on Bright Mixed-Halide CsPbBrI2 Perovskite Nanocrystals Synthesized under Ambient Air Conditions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7621-7626	13.8	47
101	Matildite Contact with Media: First-Principles Study of AgBiS Surfaces and Nanoparticle Morphology. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 521-526	3.4	7
100	High carrier mobility in monolayer CVD-grown MoS through phonon suppression. <i>Nanoscale</i> , 2018 , 10, 15071-15077	7.7	40
99	Recent Progress and Future Prospects of 2D-Based Photodetectors. <i>Advanced Materials</i> , 2018 , 30, e1801164	11.64	221
98	White and Brightly Colored 3D Printing Based on Resonant Photothermal Sensitizers. <i>Nano Letters</i> , 2018 , 18, 6660-6664	11.5	15

97	Current status and technological prospect of photodetectors based on two-dimensional materials. <i>Nature Communications</i> , 2018 , 9, 5266	17.4	104
96	High-Efficiency Light-Emitting Diodes Based on Formamidinium Lead Bromide Nanocrystals and Solution Processed Transport Layers. <i>Chemistry of Materials</i> , 2018 , 30, 6231-6235	9.6	15
95	Colloidal Quantum Dot Tandem Solar Cells Using Chemical Vapor Deposited Graphene as an Atomically Thin Intermediate Recombination Layer. <i>ACS Energy Letters</i> , 2018 , 3, 1753-1759	20.1	22
94	Ultrahigh Carrier Mobility Achieved in Photoresponsive Hybrid Perovskite Films via Coupling with Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2017 , 29, 1602432	24	87
93	MoS ₂ -HgTe Quantum Dot Hybrid Photodetectors beyond 2 μm. <i>Advanced Materials</i> , 2017 , 29, 1606576	24	188
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> , 2017 , 2, 739-744	20.1	78
91	Trap-State Suppression and Improved Charge Transport in PbS Quantum Dot Solar Cells with Synergistic Mixed-Ligand Treatments. <i>Small</i> , 2017 , 13, 1700598	11	55
90	Breaking the Open-Circuit Voltage Deficit Floor in PbS Quantum Dot Solar Cells through Synergistic Ligand and Architecture Engineering. <i>ACS Energy Letters</i> , 2017 , 2, 1444-1449	20.1	60
89	Broadband image sensor array based on graphene ² /MOS integration. <i>Nature Photonics</i> , 2017 , 11, 366-373	33.9	350
88	Bandgap engineering by cationic disorder: case study on AgBiS ₂ . <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27940-27944	3.6	16
87	Ultrasensitive all-2D MoS ₂ phototransistors enabled by an out-of-plane MoS ₂ PN homojunction. <i>Nature Communications</i> , 2017 , 8, 572	17.4	122
86	Near-Unity Photoluminescence Quantum Yield in CsPbBr ₃ Nanocrystal Solid-State Films via Postsynthesis Treatment with Lead Bromide. <i>Chemistry of Materials</i> , 2017 , 29, 7663-7667	9.6	218
85	Reducing Interface Recombination through Mixed Nanocrystal Interlayers in PbS Quantum Dot Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27390-27395	9.5	25
84	Low-temperature colloidal synthesis of CuBiS ₂ nanocrystals for optoelectronic devices. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24621-24625	13	17
83	Low-Temperature, Solution-Based Sulfurization and Necking of PbS CQD Films. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20315-20322	3.8	15
82	Solid-state colloidal CuInS quantum dot solar cells enabled by bulk heterojunctions. <i>Nanoscale</i> , 2016 , 8, 16776-16785	7.7	30
81	Aliovalent Doping in Colloidal Quantum Dots and Its Manifestation on Their Optical Properties: Surface Attachment versus Structural Incorporation. <i>Chemistry of Materials</i> , 2016 , 28, 5384-5393	9.6	10
80	The role of surface passivation for efficient and photostable PbS quantum dot solar cells. <i>Nature Energy</i> , 2016 , 1,	62.3	233

79	Integrating an electrically active colloidal quantum dot photodiode with a graphene phototransistor. <i>Nature Communications</i> , 2016 , 7, 11954	17.4	161
78	Photo-FETs: Phototransistors Enabled by 2D and 0D Nanomaterials. <i>ACS Photonics</i> , 2016 , 3, 2197-2210	6.3	160
77	Solution-processed solar cells based on environmentally friendly AgBiS ₂ nanocrystals. <i>Nature Photonics</i> , 2016 , 10, 521-525	33.9	218
76	Interface Engineering in Hybrid Quantum Dot/2D Phototransistors. <i>ACS Photonics</i> , 2016 , 3, 1324-1330	6.3	97
75	Strategies for the Controlled Electronic Doping of Colloidal Quantum Dot Solids. <i>ChemPhysChem</i> , 2016 , 17, 632-44	3.2	41
74	Matildite versus schapbachite: First-principles investigation of the origin of photoactivity in AgBiS ₂ . <i>Physical Review B</i> , 2016 , 94,	3.3	29
73	Colloidal synthesis of Cu ₂ SnSe ₃ nanocrystals with structure induced shape evolution. <i>CrystEngComm</i> , 2016 , 18, 3161-3169	3.3	13
72	Prospects of nanoscience with nanocrystals. <i>ACS Nano</i> , 2015 , 9, 1012-57	16.7	849
71	Large-Area Plasmonic-Crystal/Hot-Electron-Based Photodetectors. <i>ACS Photonics</i> , 2015 , 2, 950-957	6.3	55
70	A facile phosphine-free colloidal synthesis of Cu ₂ SnS ₃ and Cu ₂ ZnSnS ₄ nanorods with a controllable aspect ratio. <i>Chemical Communications</i> , 2015 , 51, 13810-3	5.8	35
69	Solution Processed Bismuth Sulfide Nanowire Array Core/Silver Sulfide Shell Solar Cells. <i>Chemistry of Materials</i> , 2015 , 27, 3700-3706	9.6	27
68	Metal-insulator-semiconductor heterostructures for plasmonic hot-carrier optoelectronics. <i>Optics Express</i> , 2015 , 23, 14715-23	3.3	13
67	Highly Sensitive, Encapsulated MoS ₂ Photodetector with Gate Controllable Gain and Speed. <i>Nano Letters</i> , 2015 , 15, 7307-13	11.5	381
66	Size and bandgap tunability in Bi ₂ S ₃ colloidal nanocrystals and its effect in solution processed solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20642-20648	13	61
65	Hybrid 2D-0D MoS ₂ -PbS quantum dot photodetectors. <i>Advanced Materials</i> , 2015 , 27, 176-80	24	507
64	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
63	Thiol-Free Synthesized Copper Indium Sulfide Nanocrystals as Optoelectronic Quantum Dot Solids. <i>Chemistry of Materials</i> , 2015 , 27, 8424-8432	9.6	32
62	Integrated colloidal quantum dot photodetectors with color-tunable plasmonic nanofocusing lenses. <i>Light: Science and Applications</i> , 2015 , 4, e234-e234	16.7	39

61	Molecular interfaces for plasmonic hot electron photovoltaics. <i>Nanoscale</i> , 2015 , 7, 2281-8	7.7	31
60	Tailoring the Electronic Properties of Colloidal Quantum Dots in Metal-Semiconductor Nanocomposites for High Performance Photodetectors. <i>Small</i> , 2015 , 11, 2636-41	11	28
59	Imprinted electrodes for enhanced light trapping in solution processed solar cells. <i>Advanced Materials</i> , 2014 , 26, 443-8	24	37
58	Remote trap passivation in colloidal quantum dot bulk nano-heterojunctions and its effect in solution-processed solar cells. <i>Advanced Materials</i> , 2014 , 26, 4741-7	24	55
57	Improved electronic coupling in hybrid organic-inorganic nanocomposites employing thiol-functionalized P3HT and bismuth sulfide nanocrystals. <i>Nanoscale</i> , 2014 , 6, 10018-26	7.7	20
56	Surface Plasmon Polariton Couplers for Light Trapping in Thin-Film Absorbers and Their Application to Colloidal Quantum Dot Optoelectronics. <i>ACS Photonics</i> , 2014 , 1, 1197-1205	6.3	23
55	Plasmonic Schottky Nanojunctions for Tailoring the Photogeneration Profile in Thin Film Solar Cells. <i>Advanced Optical Materials</i> , 2014 , 2, 493-500	8.1	10
54	Complete colloidal synthesis of Cu ₂ SnSe ₄ nanocrystals with crystal phase and shape control. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7954-60	16.4	69
53	Determination of carrier lifetime and mobility in colloidal quantum dot films via impedance spectroscopy. <i>Applied Physics Letters</i> , 2014 , 104, 063504	3.4	24
52	Heterovalent cation substitutional doping for quantum dot homojunction solar cells. <i>Nature Communications</i> , 2013 , 4, 2981	17.4	92
51	Hybrid solution-processed bulk heterojunction solar cells based on bismuth sulfide nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 5482-7	3.6	36
50	Size- and Temperature-Dependent Carrier Dynamics in Oleic Acid Capped PbS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1887-1892	3.8	31
49	Integrated prototype nanodevices via SnO ₂ nanoparticles decorated SnSe nanosheets. <i>Scientific Reports</i> , 2013 , 3, 2613	4.9	41
48	Coupling Resonant Modes of Embedded Dielectric Microspheres in Solution-Processed Solar Cells. <i>Advanced Optical Materials</i> , 2013 , 1, 139-143	8.1	14
47	Photoelectric energy conversion of plasmon-generated hot carriers in metal-insulator-semiconductor structures. <i>ACS Nano</i> , 2013 , 7, 3581-8	16.7	97
46	Microresonators: Coupling Resonant Modes of Embedded Dielectric Microspheres in Solution-Processed Solar Cells (Advanced Optical Materials 2/2013). <i>Advanced Optical Materials</i> , 2013 , 1, 194-194	8.1	1
45	Spectroscopic evidence of resonance energy transfer mechanism from PbS QDs to bulk silicon. <i>EPJ Web of Conferences</i> , 2013 , 54, 01017	0.3	4
44	Resonance energy transfer from PbS colloidal quantum dots to bulk silicon: the road to hybrid photovoltaics 2012 ,		6

43	Electrical effects of metal nanoparticles embedded in ultra-thin colloidal quantum dot films. <i>Applied Physics Letters</i> , 2012 , 101, 041103	3.4	17
42	AuCu alloy bridged synthesis and optoelectronic properties of Au@CuInSe ₂ core-shell hybrid nanostructures. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1765-1769		20
41	Plasmonic light trapping leads to responsivity increase in colloidal quantum dot photodetectors. <i>Applied Physics Letters</i> , 2012 , 100, 043101	3.4	44
40	Wurtzite Cu ₂ ZnSnSe ₄ nanocrystals for high-performance organic/inorganic hybrid photodetectors. <i>NPG Asia Materials</i> , 2012 , 4, e2-e2	10.3	109
39	Hybrid graphene-quantum dot phototransistors with ultrahigh gain. <i>Nature Nanotechnology</i> , 2012 , 7, 363-8	28.7	1588
38	Solution-processed inorganic bulk nano-heterojunctions and their application to solar cells. <i>Nature Photonics</i> , 2012 , 6, 529-534	33.9	194
37	Bandgap engineering of monodispersed Cu(2-x)S(y)Se(1-y) nanocrystals through chalcogen ratio and crystal structure. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18558-61	16.4	86
36	Absorption enhancement in solution processed metal-semiconductor nanocomposites. <i>Optics Express</i> , 2011 , 19, 21038-49	3.3	23
35	Solution-processed heterojunction solar cells based on p-type PbS quantum dots and n-type Bi ₂ S ₃ nanocrystals. <i>Advanced Materials</i> , 2011 , 23, 3712-7	24	160
34	Near IR-Sensitive, Non-toxic, Polymer/Nanocrystal Solar Cells Employing Bi ₂ S ₃ as the Electron Acceptor. <i>Advanced Energy Materials</i> , 2011 , 1, 1029-1035	21.8	63
33	Colloidal quantum dot photodetectors. <i>Infrared Physics and Technology</i> , 2011 , 54, 278-282	2.7	91
32	Eco-friendly visible-wavelength photodetectors based on bandgap engineerable nanomaterials. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17582		38
31	Nanostructured materials for photon detection. <i>Nature Nanotechnology</i> , 2010 , 5, 391-400	28.7	1036
30	Synthesis of monodispersed wurtzite structure CuInSe ₂ nanocrystals and their application in high-performance organic-inorganic hybrid photodetectors. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12218-21	16.4	221
29	Depleted-heterojunction colloidal quantum dot solar cells. <i>ACS Nano</i> , 2010 , 4, 3374-80	16.7	707
28	Solution-processed PbS quantum dot infrared photodetectors and photovoltaics 2010 , 70-74		3
27	Depleted-Heterojunction Colloidal Quantum Dot Solar Cells Employing Low-Cost Metal Contacts 2010 ,		1
26	Solution-Processed Quantum Dot Photodetectors. <i>Proceedings of the IEEE</i> , 2009 , 97, 1666-1683	14.3	105

25	Fast, sensitive and spectrally tuneable colloidal-quantum-dot photodetectors. <i>Nature Nanotechnology</i> , 2009 , 4, 40-4	28.7	395
24	High performance photodetectors of individual InSe single crystalline nanowire. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15602-3	16.4	98
23	Heavy-metal-free solution-processed nanoparticle-based photodetectors: doping of intrinsic vacancies enables engineering of sensitivity and speed. <i>ACS Nano</i> , 2009 , 3, 331-8	16.7	68
22	Engineering the temporal response of photoconductive photodetectors via selective introduction of surface trap states. <i>Nano Letters</i> , 2008 , 8, 1446-50	11.5	192
21	Sensitive solution-processed Bi ₂ S ₃ nanocrystalline photodetectors. <i>Nano Letters</i> , 2008 , 8, 4002-6	11.5	239
20	Smooth-Morphology Ultrasensitive Solution-Processed Photodetectors. <i>Advanced Materials</i> , 2008 , 20, 4398-4402	24	46
19	Sensitive solution-processed visible-wavelength photodetectors. <i>Nature Photonics</i> , 2007 , 1, 531-534	33.9	342
18	PbS colloidal quantum dot photoconductive photodetectors: Transport, traps, and gain. <i>Applied Physics Letters</i> , 2007 , 91, 173505	3.4	143
17	Ultrasensitive solution-cast quantum dot photodetectors. <i>Nature</i> , 2006 , 442, 180-3	50.4	1442
16	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> , 2005 , 87, 233101	3.4	111
15	Solution-processed PbS quantum dot infrared photodetectors and photovoltaics. <i>Nature Materials</i> , 2005 , 4, 138-42	27	1620
14	Efficient Infrared Electroluminescent Devices Using Solution-Processed Colloidal Quantum Dots. <i>Advanced Functional Materials</i> , 2005 , 15, 1865-1869	15.6	93
13	Negative capacitance in polymer-nanocrystal composites. <i>Applied Physics Letters</i> , 2004 , 85, 3567-3569	3.4	27
12	Luminescence from processible quantum dot-polymer light emitters 1100–600 nm: Tailoring spectral width and shape. <i>Applied Physics Letters</i> , 2004 , 84, 3459-3461	3.4	42
11	Exciton capture by nanocrystals in a polymer matrix. <i>Journal of Applied Physics</i> , 2003 , 94, 4066-4069	2.5	12
10	Engineering colloidal quantum dots1-29		2
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	Colloidal quantum dot photodetectors173-198		3
6	Optical gain and lasing in colloidal quantum dots199-232		3
5	Solution-processed infrared quantum dot solar cells256-291		
4	Semiconductor quantum dot sensitized TiO ₂ mesoporous solar cells292-309		
3	Hybrid 2D-QD MoS ₂ /PbSe Quantum Dot Broadband Photodetectors with High-Sensitivity and Room-Temperature Operation at 2.5 μ m. <i>Advanced Optical Materials</i> ,2101378	8.1	3
2	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
1	Environmentally Friendly AgBiS ₂ Nanocrystal Inks for Efficient Solar Cells Employing Green Solvent Processing. <i>Advanced Energy Materials</i> ,2200700	21.8	2