

# Hilmi Volkan Demir

## List of Publications by Year in descending order

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544  
papers

17,389  
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14644

66  
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26591

107  
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559  
all docs

559  
docs citations

559  
times ranked

17041  
citing authors

#	ARTICLE	IF	CITATIONS
1	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	7.3	705
2	Inorganic Halide Perovskites for Efficient Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4360-4364.	2.1	482
3	Conjugated polymer nanoparticles. <i>Nanoscale</i> , 2010, 2, 484.	2.8	376
4	High-Efficiency Light-Emitting Diodes of Organometal Halide Perovskite Amorphous Nanoparticles. <i>ACS Nano</i> , 2016, 10, 6623-6630.	7.3	347
5	Amplified Spontaneous Emission and Lasing in Colloidal Nanoplatelets. <i>ACS Nano</i> , 2014, 8, 6599-6605.	7.3	288
6	Full Visible Range Covering InP/ZnS Nanocrystals with High Photometric Performance and Their Application to White Quantum Dot Light-Emitting Diodes. <i>Advanced Materials</i> , 2012, 24, 4180-4185.	11.1	283
7	Photogeneration of hot plasmonic electrons with metal nanocrystals: Quantum description and potential applications. <i>Nano Today</i> , 2014, 9, 85-101.	6.2	270
8	Quantum dot integrated LEDs using photonic and excitonic color conversion. <i>Nano Today</i> , 2011, 6, 632-647.	6.2	245
9	Vertically Aligned Gold Nanorod Monolayer on Arbitrary Substrates: Self-Assembly and Femtomolar Detection of Food Contaminants. <i>ACS Nano</i> , 2013, 7, 5993-6000.	7.3	218
10	White light generation using CdSe/ZnS core-shell nanocrystals hybridized with InGaN/GaN light emitting diodes. <i>Nanotechnology</i> , 2007, 18, 065709.	1.3	209
11	Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. <i>Nano Letters</i> , 2018, 18, 3157-3164.	4.5	199
12	Color-converting combinations of nanocrystal emitters for warm-white light generation with high color rendering index. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	192
13	Bright White-Light Emitting Manganese and Copper Co-Doped ZnSe Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4432-4436.	7.2	173
14	Stimulated Emission and Lasing from CdSe/CdS/ZnS Core-Multi-Shell Quantum Dots by Simultaneous Three-Photon Absorption. <i>Advanced Materials</i> , 2014, 26, 2954-2961.	11.1	172
15	Material Binding Peptides for Nanotechnology. <i>Molecules</i> , 2011, 16, 1426-1451.	1.7	165
16	Morphology-Tailored Synthesis of Tungsten Trioxide (Hydrate) Thin Films and Their Photocatalytic Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 229-236.	4.0	163
17	Solution-processed highly bright and durable cesium lead halide perovskite light-emitting diodes. <i>Nanoscale</i> , 2016, 8, 18021-18026.	2.8	160
18	Lateral Size-Dependent Spontaneous and Stimulated Emission Properties in Colloidal CdSe Nanoplatelets. <i>ACS Nano</i> , 2015, 9, 5041-5050.	7.3	154

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19	Experimental Determination of the Absorption Cross-Section and Molar Extinction Coefficient of Colloidal CdSe Nanoplatelets. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26768-26775.	1.5	146
20	Advances in the LED Materials and Architectures for Energy-Saving Solid-State Lighting Toward "Lighting Revolution". <i>IEEE Photonics Journal</i> , 2012, 4, 613-619.	1.0	145
21	Metamaterial-based wireless strain sensors. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	144
22	A photometric investigation of ultra-efficient LEDs with high color rendering index and high luminous efficacy employing nanocrystal quantum dot luminophores. <i>Optics Express</i> , 2010, 18, 340.	1.7	141
23	Color science of nanocrystal quantum dots for lighting and displays. <i>Nanophotonics</i> , 2013, 2, 57-81.	2.9	140
24	Colloidal Nanocrystals Embedded in Macrocrystals: Robustness, Photostability, and Color Purity. <i>Nano Letters</i> , 2012, 12, 5348-5354.	4.5	136
25	Highly Flexible, Electrically Driven, Top-Emitting, Quantum Dot Light-Emitting Stickers. <i>ACS Nano</i> , 2014, 8, 8224-8231.	7.3	135
26	Stacking in Colloidal Nanoplatelets: Tuning Excitonic Properties. <i>ACS Nano</i> , 2014, 8, 12524-12533.	7.3	134
27	High brightness formamidinium lead bromide perovskite nanocrystal light emitting devices. <i>Scientific Reports</i> , 2016, 6, 36733.	1.6	134
28	Near-Unity Emitting Copper-Doped Colloidal Semiconductor Quantum Wells for Luminescent Solar Concentrators. <i>Advanced Materials</i> , 2017, 29, 1700821.	11.1	133
29	Blue Liquid Lasers from Solution of CdZnS/ZnS Ternary Alloy Quantum Dots with Quasi-Continuous Pumping. <i>Advanced Materials</i> , 2015, 27, 169-175.	11.1	127
30	Influence of Channel Layer Thickness on the Electrical Performances of Inkjet-Printed In-Ga-Zn Oxide Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2011, 58, 480-485.	1.6	121
31	Room-Temperature Lasing in Colloidal Nanoplatelets via Mie-Resonant Bound States in the Continuum. <i>Nano Letters</i> , 2020, 20, 6005-6011.	4.5	115
32	Chiral Ceramic Nanoparticles and Peptide Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 13701-13712.	6.6	110
33	Hydrothermally grown nanostructured WO <sub>3</sub> films and their electrochromic characteristics. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 285501.	1.3	107
34	Large-Area (over 50 cm × 50 cm) Freestanding Films of Colloidal InP/ZnS Quantum Dots. <i>Nano Letters</i> , 2012, 12, 3986-3993.	4.5	104
35	Electrochromic properties of nanostructured tungsten trioxide (hydrate) films and their applications in a complementary electrochromic device. <i>Electrochimica Acta</i> , 2012, 63, 153-160.	2.6	98
36	Solution Processed Tungsten Oxide Interfacial Layer for Efficient Hole-Injection in Quantum Dot Light-Emitting Diodes. <i>Small</i> , 2014, 10, 247-252.	5.2	96

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37	Record High External Quantum Efficiency of 19.2% Achieved in Light-Emitting Diodes of Colloidal Quantum Wells Enabled by Hot-Injection Shell Growth. <i>Advanced Materials</i> , 2020, 32, e1905824.	11.1	95
38	Flexible metamaterials for wireless strain sensing. <i>Applied Physics Letters</i> , 2009, 95, 181105.	1.5	94
39	Nested Metamaterials for Wireless Strain Sensing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 450-458.	1.9	93
40	Free-standing ZnO-CuO composite nanowire array films and their gas sensing properties. <i>Nanotechnology</i> , 2011, 22, 325704.	1.3	93
41	Giant Modal Gain Coefficients in Colloidal II-VI Nanoplatelets. <i>Nano Letters</i> , 2019, 19, 277-282.	4.5	93
42	Stable and Low-Threshold Optical Gain in CdSe/CdS Quantum Dots: An All-Colloidal Frequency Up-Converted Laser. <i>Advanced Materials</i> , 2015, 27, 2741-2746.	11.1	92
43	InGaN/GaN light-emitting diode with a polarization tunnel junction. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	89
44	Graphene-based transparent conductive electrodes for GaN-based light emitting diodes: Challenges and countermeasures. <i>Nano Energy</i> , 2015, 12, 419-436.	8.2	86
45	Robust Whispering-Gallery-Mode Microbubble Lasers from Colloidal Quantum Dots. <i>Nano Letters</i> , 2017, 17, 2640-2646.	4.5	83
46	Broadband absorption enhancement in randomly positioned silicon nanowire arrays for solar cell applications. <i>Optics Letters</i> , 2011, 36, 1884.	1.7	82
47	Plasmonic backcontact grating for P3HT:PCBM organic solar cells enabling strong optical absorption increased in all polarizations. <i>Optics Express</i> , 2011, 19, 14200.	1.7	81
48	Light Generation in Lead Halide Perovskite Nanocrystals: LEDs, Color Converters, Lasers, and Other Applications. <i>Small</i> , 2019, 15, e1902079.	5.2	81
49	Warm-white light-emitting diodes integrated with colloidal quantum dots for high luminous efficacy and color rendering. <i>Optics Letters</i> , 2010, 35, 3372.	1.7	77
50	Observation of Selective Plasmon-Exciton Coupling in Nonradiative Energy Transfer: Donor-Selective versus Acceptor-Selective Plexitons. <i>Nano Letters</i> , 2013, 13, 3065-3072.	4.5	77
51	Localized plasmon-engineered spontaneous emission of CdSe/ZnS nanocrystals closely-packed in the proximity of Ag nanoisland films for controlling emission linewidth, peak, and intensity. <i>Optics Express</i> , 2007, 15, 14289.	1.7	75
52	Lasing Action in Single Subwavelength Particles Supporting Supercavity Modes. <i>ACS Nano</i> , 2020, 14, 7338-7346.	7.3	75
53	Dual-color emitting quantum-dot-quantum-well CdSe-ZnS heteronanocrystals hybridized on InGaN-GaN light emitting diodes for high-quality white light generation. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	74
54	Semiconductor nanocrystals as rare-earth alternatives. <i>Nature Photonics</i> , 2011, 5, 126-126.	15.6	74

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55	Highly Efficient Green Light-Emitting Diodes from All-Inorganic Perovskite Nanocrystals Enabled by a New Electron Transport Layer. <i>Advanced Optical Materials</i> , 2018, 6, 1800220.	3.6	74
56	Near-Field Energy Transfer Using Nanoemitters For Optoelectronics. <i>Advanced Functional Materials</i> , 2016, 26, 8158-8177.	7.8	73
57	Platelet-Inspired Box Colloidal Quantum Wells: CdSe/CdS@CdS Core/Crown@Shell Heteronanoplatelets. <i>Advanced Functional Materials</i> , 2016, 26, 3570-3579.	7.8	72
58	Dye-sensitized solar cell with a titanium-oxide-modified carbon nanotube transparent electrode. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	71
59	Fluorophore-Doped Core-Multishell Spherical Plasmonic Nanocavities: Resonant Energy Transfer toward a Loss Compensation. <i>ACS Nano</i> , 2012, 6, 6250-6259.	7.3	71
60	The composition effect on the optical properties of aqueous synthesized Cu-In-S and Zn-Cu-In-S quantum dot nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25133-25141.	1.3	71
61	Giant Alloyed Hot Injection Shells Enable Ultralow Optical Gain Threshold in Colloidal Quantum Wells. <i>ACS Nano</i> , 2019, 13, 10662-10670.	7.3	71
62	Type-II Colloidal Quantum Wells: CdSe/CdTe Core/Crown Heteronanoplatelets. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2177-2185.	1.5	70
63	Colloidal nanocrystals for quality lighting and displays: milestones and recent developments. <i>Nanophotonics</i> , 2016, 5, 74-95.	2.9	70
64	Enhanced optical absorption in nanopatterned silicon thin films with a nano-cone-hole structure for photovoltaic applications. <i>Optics Letters</i> , 2011, 36, 1713.	1.7	68
65	Light Extraction Efficiency Enhancement of Colloidal Quantum Dot Light-Emitting Diodes Using Large-Scale Nanopillar Arrays. <i>Advanced Functional Materials</i> , 2014, 24, 5977-5984.	7.8	68
66	Tunable White-Light-Emitting Mn-Doped ZnSe Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 3654-3660.	4.0	67
67	Excitonics of semiconductor quantum dots and wires for lighting and displays. <i>Laser and Photonics Reviews</i> , 2014, 8, 73-93.	4.4	67
68	Highly Stable, Near-Unity Efficiency Atomically Flat Semiconductor Nanocrystals of CdSe/ZnS Heteronanoplatelets Enabled by ZnS-Shell Hot-Injection Growth. <i>Small</i> , 2019, 15, e1804854.	5.2	67
69	Anisotropic Emission from Multilayered Plasmon Resonator Nanocomposites of Isotropic Semiconductor Quantum Dots. <i>ACS Nano</i> , 2011, 5, 1328-1334.	7.3	66
70	Stable, Efficient, and All-Solution-Processed Quantum Dot Light-Emitting Diodes with Double-Sided Metal Oxide Nanoparticle Charge Transport Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 495-499.	4.0	66
71	On the origin of high quality white light emission from a hybrid organic/inorganic light emitting diode using azide functionalized polyfluorene. <i>Journal of Materials Chemistry</i> , 2008, 18, 3568.	6.7	64
72	A bright cadmium-free, hybrid organic/quantum dot white light-emitting diode. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	64

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73	Efficient synthesis of plate-like crystalline hydrated tungsten trioxide thin films with highly improved electrochromic performance. <i>Chemical Communications</i> , 2012, 48, 365-367.	2.2	63
74	Self-screening of the quantum confined Stark effect by the polarization induced bulk charges in the quantum barriers. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	63
75	Mn <sup>2+</sup> -Doped CdSe/CdS Core/Multishell Colloidal Quantum Wells Enabling Tunable Carrier-Dopant Exchange Interactions. <i>ACS Nano</i> , 2015, 9, 12473-12479.	7.3	63
76	Nanocrystal light-emitting diodes based on type II nanoplatelets. <i>Nano Energy</i> , 2018, 47, 115-122.	8.2	62
77	Onion-like (CdSe)ZnS/CdSe/ZnS quantum-dot-quantum-well heteronanocrystals for investigation of multi-color emission. <i>Optics Express</i> , 2008, 16, 3515.	1.7	59
78	Electroluminescence Efficiency Enhancement in Quantum Dot Light-Emitting Diodes by Embedding a Silver Nanoisland Layer. <i>Advanced Optical Materials</i> , 2015, 3, 1439-1445.	3.6	59
79	Nonradiative energy transfer in colloidal CdSe nanoplatelet films. <i>Nanoscale</i> , 2015, 7, 2545-2551.	2.8	58
80	White-Emitting Conjugated Polymer Nanoparticles with Cross-Linked Shell for Mechanical Stability and Controllable Photometric Properties in Color-Conversion LED Applications. <i>ACS Nano</i> , 2011, 5, 2483-2492.	7.3	57
81	Stable Dispersion of Iodide-Capped PbSe Quantum Dots for High-Performance Low-Temperature Processed Electronics and Optoelectronics. <i>Chemistry of Materials</i> , 2015, 27, 4328-4337.	3.2	56
82	Ultrathin Highly Luminescent Two-Monolayer Colloidal CdSe Nanoplatelets. <i>Advanced Functional Materials</i> , 2019, 29, 1901028.	7.8	56
83	White emitting CdS quantum dot nanoluminophores hybridized on near-ultraviolet LEDs for high-quality white light generation and tuning. <i>New Journal of Physics</i> , 2008, 10, 023026.	1.2	55
84	Generalized Theory of Förster-Type Nonradiative Energy Transfer in Nanostructures with Mixed Dimensionality. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10203-10212.	1.5	54
85	Implantable microelectromechanical sensors for diagnostic monitoring and post-surgical prediction of bone fracture healing. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1439-1446.	1.2	54
86	Quantum dots on vertically aligned gold nanorod monolayer: plasmon enhanced fluorescence. <i>Nanoscale</i> , 2014, 6, 5592-5598.	2.8	53
87	Colloidal quantum-dot LEDs with a solution-processed copper oxide (CuO) hole injection layer. <i>Organic Electronics</i> , 2015, 26, 245-250.	1.4	53
88	Orientation-Controlled Nonradiative Energy Transfer to Colloidal Nanoplatelets: Engineering Dipole Orientation Factor. <i>Nano Letters</i> , 2019, 19, 4297-4305.	4.5	53
89	Metamaterial based telemetric strain sensing in different materials. <i>Optics Express</i> , 2010, 18, 5000.	1.7	52
90	Optimization of inverted tandem organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 921-926.	3.0	52

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91	Continuously Tunable Emission in Inverted Type-II CdS/CdSe Core/Crown Semiconductor Nanoplatelets. <i>Advanced Functional Materials</i> , 2015, 25, 4282-4289.	7.8	52
92	Liquid-Liquid Diffusion-Assisted Crystallization: A Fast and Versatile Approach Toward High Quality Mixed Quantum Dot-Salt Crystals. <i>Advanced Functional Materials</i> , 2015, 25, 2638-2645.	7.8	52
93	High-efficiency all-inorganic full-colour quantum dot light-emitting diodes. <i>Nano Energy</i> , 2018, 46, 229-233.	8.2	52
94	Control of LED Emission with Functional Dielectric Metasurfaces. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900235.	4.4	52
95	Self-consistent computation of electronic and optical properties of a single exciton in a spherical quantum dot via matrix diagonalization method. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	51
96	Alloyed Heterostructures of CdSe <sub>x</sub> S <sub>1-x</sub> Nanoplatelets with Highly Tunable Optical Gain Performance. <i>Chemistry of Materials</i> , 2017, 29, 4857-4865.	3.2	51
97	Understanding the Journey of Dopant Copper Ions in Atomically Flat Colloidal Nanocrystals of CdSe Nanoplatelets Using Partial Cation Exchange Reactions. <i>Chemistry of Materials</i> , 2018, 30, 3265-3275.	3.2	51
98	Near resonant and nonresonant third-order optical nonlinearities of colloidal InP/ZnS quantum dots. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	48
99	Implementation of High-Quality Warm-White Light-Emitting Diodes by a Model-Experimental Feedback Approach Using Quantum Dot-Salt Mixed Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23364-23371.	4.0	48
100	Interfacial charge and energy transfer in van der Waals heterojunctions. <i>Informa-Materially</i> , 2022, 4, .	8.5	48
101	Dye-sensitized solar cell with a pair of carbon-based electrodes. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 165103.	1.3	47
102	On the Effect of Step-Doped Quantum Barriers in InGaN/GaN Light Emitting Diodes. <i>Journal of Display Technology</i> , 2013, 9, 226-233.	1.3	47
103	Improved InGaN/GaN light-emitting diodes with a p-GaN/n-GaN/p-GaN/n-GaN/p-GaN current-spreading layer. <i>Optics Express</i> , 2013, 21, 4958.	1.7	47
104	Multicolor lasing prints. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	47
105	Hybrid white light sources based on layer-by-layer assembly of nanocrystals on near-UV emitting diodes. <i>Nanotechnology</i> , 2007, 18, 405702.	1.3	46
106	Volumetric plasmonic resonator architecture for thin-film solar cells. <i>Applied Physics Letters</i> , 2011, 98, 093117.	1.5	46
107	Tuning shades of white light with multi-color quantum-dot-quantum-well emitters based on onion-like CdSe-ZnS heteronanocrystals. <i>Nanotechnology</i> , 2008, 19, 335203.	1.3	45
108	Wireless Displacement Sensing Enabled by Metamaterial Probes for Remote Structural Health Monitoring. <i>Sensors</i> , 2014, 14, 1691-1704.	2.1	45



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109	CdSe/CdSe <sub>1-x</sub> Te <sub>x</sub> Core/Crown Heteronanostructure: Tuning the Excitonic Properties without Changing the Thickness. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4650-4658.	1.5	45
110	Solvent-Assisted Surface Engineering for High-Performance All-Inorganic Perovskite Nanocrystal Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 19828-19835.	4.0	45
111	Light-Emitting Diodes with Cu-Doped Colloidal Quantum Wells: From Ultrapure Green, Tunable Dual-Emission to White Light. <i>Small</i> , 2019, 15, 1901983.	5.2	45
112	Unraveling the ultralow threshold stimulated emission from CdZnS/ZnS quantum dot and enabling high-Q microlasers. <i>Laser and Photonics Reviews</i> , 2015, 9, 507-516.	4.4	44
113	Ultrahigh-efficiency aqueous flat nanocrystals of CdSe/CdS@Cd <sub>1-x</sub> Zn <sub>x</sub> S colloidal core/crown@alloyed-shell quantum wells. <i>Nanoscale</i> , 2019, 11, 301-310.	2.8	44
114	Blue quantum electroabsorption modulators based on reversed quantum confined Stark effect with blueshift. <i>Applied Physics Letters</i> , 2007, 90, 011101.	1.5	43
115	Europium (II)-Doped Microporous Zeolite Derivatives with Enhanced Photoluminescence by Isolating Active Luminescence Centers. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 4431-4436.	4.0	43
116	Low-threshold lasing from colloidal CdSe/CdSeTe core/alloyed-crown type-II heteronanostructure. <i>Nanoscale</i> , 2018, 10, 9466-9475.	2.8	43
117	A new class of cubic SPIONs as a dual-mode T1 and T2 contrast agent for MRI. <i>Magnetic Resonance Imaging</i> , 2018, 49, 16-24.	1.0	43
118	Electrically control amplified spontaneous emission in colloidal quantum dots. <i>Science Advances</i> , 2019, 5, eaav3140.	4.7	43
119	Bio-implantable passive on-chip RF-MEMS strain sensing resonators for orthopaedic applications. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 115017.	1.5	42
120	Quantum Dot Light-Emitting Diode with Quantum Dots Inside the Hole Transporting Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 6535-6540.	4.0	42
121	High-efficiency and low-loss gallium nitride dielectric metasurfaces for nanophotonics at visible wavelengths. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	42
122	Structural tuning of color chromaticity through nonradiative energy transfer by interspersing CdTe nanocrystal monolayers. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	41
123	Improved hole distribution in InGaN/GaN light-emitting diodes with graded thickness quantum barriers. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	41
124	Colloidal Quantum Dot Light-Emitting Diodes Employing Phosphorescent Small Organic Molecules as Efficient Exciton Harvesters. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2802-2807.	2.1	41
125	Ultralow Threshold One-Photon- and Two-Photon-Pumped Optical Gain Media of Blue-Emitting Colloidal Quantum Dot Films. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2214-2218.	2.1	41
126	Quantum Dot/Light-Emitting Electrochemical Cell Hybrid Device and Mechanism of Its Operation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 24692-24698.	4.0	41



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127	LEDs using halide perovskite nanocrystal emitters. <i>Nanoscale</i> , 2019, 11, 11402-11412.	2.8	41
128	Highly monodisperse low-magnetization magnetite nanocubes as simultaneous $T_1$ and $T_2$ MRI contrast agents. <i>Nanoscale</i> , 2015, 7, 10519-10526.	2.8	40
129	Thickness-Tunable Self-Assembled Colloidal Nanoplatelet Films Enable Ultrathin Optical Gain Media. <i>Nano Letters</i> , 2020, 20, 6459-6465.	4.5	40
130	Resonant nonradiative energy transfer in CdSe/ZnS core/shell nanocrystal solids enhances hybrid white light emitting diodes. <i>Optics Express</i> , 2008, 16, 13961.	1.7	39
131	Selective enhancement of surface-state emission and simultaneous quenching of interband transition in white-luminophor CdS nanocrystals using localized plasmon coupling. <i>New Journal of Physics</i> , 2008, 10, 083035.	1.2	39
132	Two-Dimensional CdSe-Based Nanoplatelets: Their Heterostructures, Doping, Photophysical Properties, and Applications. <i>Proceedings of the IEEE</i> , 2020, 108, 655-675.	16.4	39
133	Sub-single exciton optical gain threshold in colloidal semiconductor quantum wells with gradient alloy shelling. <i>Nature Communications</i> , 2020, 11, 3305.	5.8	39
134	Universality of dissipative self-assembly from quantum dots to human cells. <i>Nature Physics</i> , 2020, 16, 795-801.	6.5	39
135	Peptide-Mediated Constructs of Quantum Dot Nanocomposites for Enzymatic Control of Nonradiative Energy Transfer. <i>Nano Letters</i> , 2011, 11, 1530-1539.	4.5	38
136	Attractive versus Repulsive Excitonic Interactions of Colloidal Quantum Dots Control Blue- to Red-Shifting (and Non-shifting) Amplified Spontaneous Emission. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 4146-4152.	2.1	38
137	Improving hole injection efficiency by manipulating the hole transport mechanism through p-type electron blocking layer engineering. <i>Optics Letters</i> , 2014, 39, 2483.	1.7	38
138	Carbon Nanotube Driver Circuit for 6 Å— 6 Organic Light Emitting Diode Display. <i>Scientific Reports</i> , 2015, 5, 11755.	1.6	38
139	High-efficiency CdTe/CdS core/shell nanocrystals in water enabled by photo-induced colloidal hetero-epitaxy of CdS shelling at room temperature. <i>Nano Research</i> , 2015, 8, 2317-2328.	5.8	38
140	High-Efficiency Optical Gain in Type-II Semiconductor Nanocrystals of Alloyed Colloidal Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5317-5324.	2.1	37
141	Highly Stable Multicrown Heterostructures of Type-II Nanoplatelets for Ultralow Threshold Optical Gain. <i>Chemistry of Materials</i> , 2019, 31, 1818-1826.	3.2	37
142	White light generation tuned by dual hybridization of nanocrystals and conjugated polymers. <i>New Journal of Physics</i> , 2007, 9, 362-362.	1.2	36
143	AC-driven, color- and brightness-tunable organic light-emitting diodes constructed from an electron only device. <i>Organic Electronics</i> , 2013, 14, 3195-3200.	1.4	36
144	Photovoltaic nanocrystal scintillators hybridized on Si solar cells for enhanced conversion efficiency in UV. <i>Optics Express</i> , 2008, 16, 3537.	1.7	35

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145	Advantages of the Blue InGaN/GaN Light-Emitting Diodes with an AlGaIn/GaN/AlGaIn Quantum Well Structured Electron Blocking Layer. <i>ACS Photonics</i> , 2014, 1, 377-381.	3.2	35
146	Two-Color Single Hybrid Plasmonic Nanoemitters with Real Time Switchable Dominant Emission Wavelength. <i>Nano Letters</i> , 2015, 15, 7458-7466.	4.5	35
147	Nanocrystal hybridized scintillators for enhanced detection and imaging on Si platforms in UV. <i>Optics Express</i> , 2007, 15, 1128.	1.7	34
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