

# Hilmi Volkan Demir

## List of Publications by Citations

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93  
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559  
ext. papers

15,627  
ext. citations

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6.76  
L-index

#	Paper	IF	Citations
453	Inorganic Halide Perovskites for Efficient Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 4360-4	6.4	413
452	Conjugated polymer nanoparticles. <i>Nanoscale</i> , <b>2010</b> , 2, 484-94	7.7	331
451	High-Efficiency Light-Emitting Diodes of Organometal Halide Perovskite Amorphous Nanoparticles. <i>ACS Nano</i> , <b>2016</b> , 10, 6623-30	16.7	285
450	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> , <b>2012</b> , 24, 4180-5	24	249
449	Amplified spontaneous emission and lasing in colloidal nanoplatelets. <i>ACS Nano</i> , <b>2014</b> , 8, 6599-605	16.7	235
448	Photogeneration of hot plasmonic electrons with metal nanocrystals: Quantum description and potential applications. <i>Nano Today</i> , <b>2014</b> , 9, 85-101	17.9	227
447	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , <b>2021</b> , 15, 10775-10981	16.7	222
446	Quantum dot integrated LEDs using photonic and excitonic color conversion. <i>Nano Today</i> , <b>2011</b> , 6, 632-647	17.9	212
445	Vertically aligned gold nanorod monolayer on arbitrary substrates: self-assembly and femtomolar detection of food contaminants. <i>ACS Nano</i> , <b>2013</b> , 7, 5993-6000	16.7	197
444	White light generation using CdSe/ZnS core-shell nanocrystals hybridized with InGaN/GaN light emitting diodes. <i>Nanotechnology</i> , <b>2007</b> , 18, 065709	3.4	180
443	Color-converting combinations of nanocrystal emitters for warm-white light generation with high color rendering index. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 031102	3.4	168
442	Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. <i>Nano Letters</i> , <b>2018</b> , 18, 3157-3164	11.5	160
441	Bright white-light emitting manganese and copper co-doped ZnSe quantum dots. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 4432-6	16.4	156
440	Morphology-tailored synthesis of tungsten trioxide (hydrate) thin films and their photocatalytic properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 229-36	9.5	148
439	Stimulated emission and lasing from CdSe/CdS/ZnS core-multi-shell quantum dots by simultaneous three-photon absorption. <i>Advanced Materials</i> , <b>2014</b> , 26, 2954-61	24	141
438	Solution-processed highly bright and durable cesium lead halide perovskite light-emitting diodes. <i>Nanoscale</i> , <b>2016</b> , 8, 18021-18026	7.7	135
437	Material binding peptides for nanotechnology. <i>Molecules</i> , <b>2011</b> , 16, 1426-51	4.8	134

436	Advances in the LED Materials and Architectures for Energy-Saving Solid-State Lighting Toward Lighting Revolution <i>IEEE Photonics Journal</i> , <b>2012</b> , 4, 613-619	1.8	129
435	Lateral Size-Dependent Spontaneous and Stimulated Emission Properties in Colloidal CdSe Nanoplatelets. <i>ACS Nano</i> , <b>2015</b> , 9, 5041-50	16.7	124
434	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> , <b>2010</b> , 18, 340-7	3.3	122
433	Metamaterial-based wireless strain sensors. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 011106	3.4	119
432	Experimental Determination of the Absorption Cross-Section and Molar Extinction Coefficient of Colloidal CdSe Nanoplatelets. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 26768-26775	3.8	116
431	Colloidal nanocrystals embedded in macrocrystals: robustness, photostability, and color purity. <i>Nano Letters</i> , <b>2012</b> , 12, 5348-54	11.5	116
430	Highly flexible, electrically driven, top-emitting, quantum dot light-emitting stickers. <i>ACS Nano</i> , <b>2014</b> , 8, 8224-31	16.7	112
429	Stacking in colloidal nanoplatelets: tuning excitonic properties. <i>ACS Nano</i> , <b>2014</b> , 8, 12524-33	16.7	109
428	Color science of nanocrystal quantum dots for lighting and displays. <i>Nanophotonics</i> , <b>2013</b> , 2, 57-81	6.3	108
427	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> , <b>2011</b> , 58, 480-485	2.9	107
426	Blue liquid lasers from solution of CdZnS/ZnS ternary alloy quantum dots with quasi-continuous pumping. <i>Advanced Materials</i> , <b>2015</b> , 27, 169-75	24	104
425	High brightness formamidinium lead bromide perovskite nanocrystal light emitting devices. <i>Scientific Reports</i> , <b>2016</b> , 6, 36733	4.9	103
424	Near-Unity Emitting Copper-Doped Colloidal Semiconductor Quantum Wells for Luminescent Solar Concentrators. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700821	24	96
423	Hydrothermally grown nanostructured WO <sub>3</sub> films and their electrochromic characteristics. <i>Journal Physics D: Applied Physics</i> , <b>2010</b> , 43, 285501	3	95
422	Large-area (over 50 cm × 50 cm) freestanding films of colloidal InP/ZnS quantum dots. <i>Nano Letters</i> , <b>2012</b> , 12, 3986-93	11.5	91
421	Flexible metamaterials for wireless strain sensing. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 181105	3.4	86
420	Solution processed tungsten oxide interfacial layer for efficient hole-injection in quantum dot light-emitting diodes. <i>Small</i> , <b>2014</b> , 10, 247-52	11	81
419	Electrochromic properties of nanostructured tungsten trioxide (hydrate) films and their applications in a complementary electrochromic device. <i>Electrochimica Acta</i> , <b>2012</b> , 63, 153-160	6.7	79

4 <sup>18</sup>	InGaN/GaN light-emitting diode with a polarization tunnel junction. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 193508	3.4	78
4 <sup>17</sup>	Free-standing ZnO-CuO composite nanowire array films and their gas sensing properties. <i>Nanotechnology</i> , <b>2011</b> , 22, 325704	3.4	78
4 <sup>16</sup>	Stable and Low-Threshold Optical Gain in CdSe/CdS Quantum Dots: An All-Colloidal Frequency Up-Converted Laser. <i>Advanced Materials</i> , <b>2015</b> , 27, 2741-6	24	77
4 <sup>15</sup>	Nested Metamaterials for Wireless Strain Sensing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 450-458	3.8	75
4 <sup>14</sup>	Plasmonic backcontact grating for P3HT:PCBM organic solar cells enabling strong optical absorption increased in all polarizations. <i>Optics Express</i> , <b>2011</b> , 19, 14200-9	3.3	74
4 <sup>13</sup>	Graphene-based transparent conductive electrodes for GaN-based light emitting diodes: Challenges and countermeasures. <i>Nano Energy</i> , <b>2015</b> , 12, 419-436	17.1	73
4 <sup>12</sup>	Fluorophore-doped core-multishell spherical plasmonic nanocavities: resonant energy transfer toward a loss compensation. <i>ACS Nano</i> , <b>2012</b> , 6, 6250-9	16.7	70
4 <sup>11</sup>	Observation of selective plasmon-exciton coupling in nonradiative energy transfer: donor-selective versus acceptor-selective plexcitons. <i>Nano Letters</i> , <b>2013</b> , 13, 3065-72	11.5	69
4 <sup>10</sup>	Broadband absorption enhancement in randomly positioned silicon nanowire arrays for solar cell applications. <i>Optics Letters</i> , <b>2011</b> , 36, 1884-6	3	69
4 <sup>09</sup>	Warm-white light-emitting diodes integrated with colloidal quantum dots for high luminous efficacy and color rendering. <i>Optics Letters</i> , <b>2010</b> , 35, 3372-4	3	68
4 <sup>08</sup>	Chiral Ceramic Nanoparticles and Peptide Catalysis. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13701-13712	16.4	67
4 <sup>07</sup>	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> , <b>2008</b> , 92, 113110	3.4	67
4 <sup>06</sup>	Semiconductor nanocrystals as rare-earth alternatives. <i>Nature Photonics</i> , <b>2011</b> , 5, 126-126	33.9	66
4 <sup>05</sup>	Dye-sensitized solar cell with a titanium-oxide-modified carbon nanotube transparent electrode. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 021107	3.4	64
4 <sup>04</sup>	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> , <b>2007</b> , 15, 14289-98	3.3	64
4 <sup>03</sup>	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> , <b>2015</b> , 17, 25133-41	3.6	63
4 <sup>02</sup>	Anisotropic emission from multilayered plasmon resonator nanocomposites of isotropic semiconductor quantum dots. <i>ACS Nano</i> , <b>2011</b> , 5, 1328-34	16.7	63
4 <sup>01</sup>	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> , <b>2020</b> , 32, e1905824	24	62

400	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> , <b>2008</b> , 18, 3568		61
399	Giant Modal Gain Coefficients in Colloidal II-VI Nanoplatelets. <i>Nano Letters</i> , <b>2019</b> , 19, 277-282	11.5	61
398	Robust Whispering-Gallery-Mode Microbubble Lasers from Colloidal Quantum Dots. <i>Nano Letters</i> , <b>2017</b> , 17, 2640-2646	11.5	60
397	Tunable white-light-emitting Mn-doped ZnSe nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 3654-60	9.5	60
396	Type-II Colloidal Quantum Wells: CdSe/CdTe Core/Crown Heteronoplatelets. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 2177-2185	3.8	59
395	Light Extraction Efficiency Enhancement of Colloidal Quantum Dot Light-Emitting Diodes Using Large-Scale Nanopillar Arrays. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5977-5984	15.6	58
394	Excitonics of semiconductor quantum dots and wires for lighting and displays. <i>Laser and Photonics Reviews</i> , <b>2014</b> , 8, 73-93	8.3	58
393	Efficient synthesis of plate-like crystalline hydrated tungsten trioxide thin films with highly improved electrochromic performance. <i>Chemical Communications</i> , <b>2012</b> , 48, 365-7	5.8	58
392	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> , <b>2014</b> , 6, 495-9	9.5	57
391	Platelet-in-Box Colloidal Quantum Wells: CdSe/CdS@CdS Core/Crown@Shell Heteronoplatelets. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3570-3579	15.6	57
390	A bright cadmium-free, hybrid organic/quantum dot white light-emitting diode. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 233110	3.4	56
389	Enhanced optical absorption in nanopatterned silicon thin films with a nano-cone-hole structure for photovoltaic applications. <i>Optics Letters</i> , <b>2011</b> , 36, 1713-5	3	56
388	Colloidal nanocrystals for quality lighting and displays: milestones and recent developments. <i>Nanophotonics</i> , <b>2016</b> , 5, 74-95	6.3	56
387	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> , <b>2011</b> , 5, 2483-92	16.7	55
386	Onion-like (CdSe)ZnS/CdSe/ZnS quantum-dot-quantum-well heteronanocrystals for investigation of multi-color emission. <i>Optics Express</i> , <b>2008</b> , 16, 3515-26	3.3	55
385	Mn(2+)-Doped CdSe/CdS Core/Multishell Colloidal Quantum Wells Enabling Tunable Carrier-Dopant Exchange Interactions. <i>ACS Nano</i> , <b>2015</b> , 9, 12473-9	16.7	54
384	Highly Efficient Green Light-Emitting Diodes from All-Inorganic Perovskite Nanocrystals Enabled by a New Electron Transport Layer. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800220	8.1	52
383	Electroluminescence Efficiency Enhancement in Quantum Dot Light-Emitting Diodes by Embedding a Silver Nanoisland Layer. <i>Advanced Optical Materials</i> , <b>2015</b> , 3, 1439-1445	8.1	52

382	Stable Dispersion of Iodide-Capped PbSe Quantum Dots for High-Performance Low-Temperature Processed Electronics and Optoelectronics. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4328-4337	9.6	52
381	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> , <b>2008</b> , 10, 023026	2.9	52
380	Near-Field Energy Transfer Using Nanoemitters For Optoelectronics. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 8158-8177	15.6	52
379	Nanocrystal light-emitting diodes based on type II nanoplatelets. <i>Nano Energy</i> , <b>2018</b> , 47, 115-122	17.1	51
378	Room-Temperature Lasing in Colloidal Nanoplatelets via Mie-Resonant Bound States in the Continuum. <i>Nano Letters</i> , <b>2020</b> , 20, 6005-6011	11.5	50
377	Light Generation in Lead Halide Perovskite Nanocrystals: LEDs, Color Converters, Lasers, and Other Applications. <i>Small</i> , <b>2019</b> , 15, e1902079	11	50
376	Highly Stable, Near-Unity Efficiency Atomically Flat Semiconductor Nanocrystals of CdSe/ZnS Hetero-Nanoplatelets Enabled by ZnS-Shell Hot-Injection Growth. <i>Small</i> , <b>2019</b> , 15, e1804854	11	49
375	Optimization of inverted tandem organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 921-926	12.6	49
374	Continuously Tunable Emission in Inverted Type-I CdS/CdSe Core/Crown Semiconductor Nanoplatelets. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4282-4289	15.6	47
373	Giant Alloyed Hot Injection Shells Enable Ultralow Optical Gain Threshold in Colloidal Quantum Wells. <i>ACS Nano</i> , <b>2019</b> , 13, 10662-10670	16.7	46
372	Nonradiative energy transfer in colloidal CdSe nanoplatelet films. <i>Nanoscale</i> , <b>2015</b> , 7, 2545-51	7.7	46
371	Generalized Theory of Förster-Type Nonradiative Energy Transfer in Nanostructures with Mixed Dimensionality. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 10203-10212	3.8	46
370	Liquid-Liquid Diffusion-Assisted Crystallization: A Fast and Versatile Approach Toward High Quality Mixed Quantum Dot-Salt Crystals. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 2638-2645	15.6	44
369	Metamaterial based telemetric strain sensing in different materials. <i>Optics Express</i> , <b>2010</b> , 18, 5000-7	3.3	43
368	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> , <b>2009</b> , 106, 043704	2.5	43
367	Alloyed Heterostructures of CdSexS1-x Nanoplatelets with Highly Tunable Optical Gain Performance. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4857-4865	9.6	42
366	Self-screening of the quantum confined Stark effect by the polarization induced bulk charges in the quantum barriers. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 243501	3.4	42
365	On the Effect of Step-Doped Quantum Barriers in InGaN/GaN Light Emitting Diodes. <i>Journal of Display Technology</i> , <b>2013</b> , 9, 226-233		42

364	Bright White-Light Emitting Manganese and Copper Co-Doped ZnSe Quantum Dots. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 4524-4528	3.6	42
363	Tuning shades of white light with multi-color quantum-dot-quantum-well emitters based on onion-like CdSe-ZnS heteronanocrystals. <i>Nanotechnology</i> , <b>2008</b> , 19, 335203	3.4	42
362	Colloidal quantum-dot LEDs with a solution-processed copper oxide (CuO) hole injection layer. <i>Organic Electronics</i> , <b>2015</b> , 26, 245-250	3.5	41
361	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> , <b>2015</b> , 7, 23364-71	9.5	41
360	Near resonant and nonresonant third-order optical nonlinearities of colloidal InP/ZnS quantum dots. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 021917	3.4	41
359	Ultrathin Highly Luminescent Two-Monolayer Colloidal CdSe Nanoplatelets. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901028	15.6	40
358	Quantum dots on vertically aligned gold nanorod monolayer: plasmon enhanced fluorescence. <i>Nanoscale</i> , <b>2014</b> , 6, 5592-8	7.7	40
357	Multicolor lasing prints. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 221103	3.4	40
356	Dye-sensitized solar cell with a pair of carbon-based electrodes. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 165103	3	40
355	Quantum dot light-emitting diode with quantum dots inside the hole transporting layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 6535-40	9.5	39
354	Unraveling the ultralow threshold stimulated emission from CdZnS/ZnS quantum dot and enabling high-Q microlasers. <i>Laser and Photonics Reviews</i> , <b>2015</b> , 9, 507-516	8.3	39
353	Improved hole distribution in InGaN/GaN light-emitting diodes with graded thickness quantum barriers. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 243504	3.4	39
352	Volumetric plasmonic resonator architecture for thin-film solar cells. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 093117	3.4	39
351	Carbon Nanotube Driver Circuit for 6 × 6 Organic Light Emitting Diode Display. <i>Scientific Reports</i> , <b>2015</b> , 5, 11755	4.9	38
350	Europium (II)-doped microporous zeolite derivatives with enhanced photoluminescence by isolating active luminescence centers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 4431-6	9.5	38
349	Selective enhancement of surface-state emission and simultaneous quenching of interband transition in white-luminescent CdS nanocrystals using localized plasmon coupling. <i>New Journal of Physics</i> , <b>2008</b> , 10, 083035	2.9	38
348	Solvent-Assisted Surface Engineering for High-Performance All-Inorganic Perovskite Nanocrystal Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 19828-19835	9.5	38
347	CdSe/CdSe <sub>1-x</sub> Te <sub>x</sub> Core/Crown Heteronanoplatelets: Tuning the Excitonic Properties without Changing the Thickness. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 4650-4658	3.8	37

- 346 Understanding the Journey of Dopant Copper Ions in Atomically Flat Colloidal Nanocrystals of CdSe Nanoplatelets Using Partial Cation Exchange Reactions. *Chemistry of Materials*, **2018**, 30, 3265-3275 9.6 37
- 345 Quantum Dot/Light-Emitting Electrochemical Cell Hybrid Device and Mechanism of Its Operation. *ACS Applied Materials & Interfaces*, **2016**, 8, 24692-8 9.5 37
- 344 Improved InGaN/GaN light-emitting diodes with a p-GaN/n-GaN/p-GaN/n-GaN/p-GaN current-spreading layer. *Optics Express*, **2013**, 21, 4958-69 3.3 37
- 343 Structural tuning of color chromaticity through nonradiative energy transfer by interspacing CdTe nanocrystal monolayers. *Applied Physics Letters*, **2009**, 94, 061105 3.4 37
- 342 Bio-implantable passive on-chip RF-MEMS strain sensing resonators for orthopaedic applications. *Journal of Micromechanics and Microengineering*, **2008**, 18, 115017 2 37
- 341 Ultrahigh-efficiency aqueous flat nanocrystals of CdSe/CdS@CdZnS colloidal core/crown@alloyed-shell quantum wells. *Nanoscale*, **2018**, 11, 301-310 7.7 36
- 340 Orientation-Controlled Nonradiative Energy Transfer to Colloidal Nanoplatelets: Engineering Dipole Orientation Factor. *Nano Letters*, **2019**, 19, 4297-4305 11.5 36
- 339 Colloidal Quantum Dot Light-Emitting Diodes Employing Phosphorescent Small Organic Molecules as Efficient Exciton Harvesters. *Journal of Physical Chemistry Letters*, **2014**, 5, 2802-7 6.4 36
- 338 Resonant nonradiative energy transfer in CdSe/ZnS core/shell nanocrystal solids enhances hybrid white light emitting diodes. *Optics Express*, **2008**, 16, 13961-8 3.3 35
- 337 Blue quantum electroabsorption modulators based on reversed quantum confined Stark effect with blueshift. *Applied Physics Letters*, **2007**, 90, 011101 3.4 35
- 336 Hybrid white light sources based on layer-by-layer assembly of nanocrystals on near-UV emitting diodes. *Nanotechnology*, **2007**, 18, 405702 3.4 35
- 335 Lasing Action in Single Subwavelength Particles Supporting Supercavity Modes. *ACS Nano*, **2020**, 14, 7338-7346 16.7 34
- 334 Highly monodisperse low-magnetization magnetite nanocubes as simultaneous T(1)-T(2) MRI contrast agents. *Nanoscale*, **2015**, 7, 10519-26 7.7 33
- 333 Low-threshold lasing from colloidal CdSe/CdSeTe core/alloyed-crown type-II heteronanoplatelets. *Nanoscale*, **2018**, 10, 9466-9475 7.7 33
- 332 High-efficiency all-inorganic full-colour quantum dot light-emitting diodes. *Nano Energy*, **2018**, 46, 229-233.1 33
- 331 Ultralow Threshold One-Photon- and Two-Photon-Pumped Optical Gain Media of Blue-Emitting Colloidal Quantum Dot Films. *Journal of Physical Chemistry Letters*, **2014**, 5, 2214-8 6.4 33
- 330 Implantable microelectromechanical sensors for diagnostic monitoring and post-surgical prediction of bone fracture healing. *Journal of Orthopaedic Research*, **2015**, 33, 1439-46 3.8 33
- 329 Improving hole injection efficiency by manipulating the hole transport mechanism through p-type electron blocking layer engineering. *Optics Letters*, **2014**, 39, 2483-6 3 33



328	High scotopic/photopic ratio white-light-emitting diodes integrated with semiconductor nanophosphors of colloidal quantum dots. <i>Optics Letters</i> , <b>2011</b> , 36, 1893-5	3	33
327	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> , <b>2013</b> , 4, 4146-4152	6.4	32
326	Peptide-mediated constructs of quantum dot nanocomposites for enzymatic control of nonradiative energy transfer. <i>Nano Letters</i> , <b>2011</b> , 11, 1530-9	11.5	32
325	Improved Inverted Organic Solar Cells With a SolGel Derived Indium-Doped Zinc Oxide Buffer Layer. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 1700-1706	3.8	32
324	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> , <b>2015</b> , 8, 2317-2328	10	31
323	Manganese doped fluorescent paramagnetic nanocrystals for dual-modal imaging. <i>Small</i> , <b>2014</b> , 10, 4961-6	16	31
322	White light generation tuned by dual hybridization of nanocrystals and conjugated polymers. <i>New Journal of Physics</i> , <b>2007</b> , 9, 362-362	2.9	31
321	High-Efficiency Optical Gain in Type-II Semiconductor Nanocrystals of Alloyed Colloidal Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 5317-5324	6.4	30
320	Wireless displacement sensing enabled by metamaterial probes for remote structural health monitoring. <i>Sensors</i> , <b>2014</b> , 14, 1691-704	3.8	30
319	Applied Nanophotonics <b>2018</b> ,		30
318	Light-Emitting Diodes with Cu-Doped Colloidal Quantum Wells: From Ultrapure Green, Tunable Dual-Emission to White Light. <i>Small</i> , <b>2019</b> , 15, e1901983	11	29
317	A fast-switching light-writable and electric-erasable negative photoelectrochromic cell based on Prussian blue films. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 98, 154-160	6.4	29
316	High-efficiency and low-loss gallium nitride dielectric metasurfaces for nanophotonics at visible wavelengths. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 221101	3.4	29
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