

# Hilmi Volkan Demir

## 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.

453  
papers

13,701  
citations

58  
h-index

93  
g-index

559  
ext. papers

15,627  
ext. citations

6.5  
avg, IF

6.76  
L-index

#	Paper	IF	Citations
453	Engineered ultraviolet InGaN/AlGaIn multiple-quantum-well structures for maximizing cathodoluminescence efficiency. <i>AIP Advances</i> , <b>2022</b> , 12, 015005	1.5	
452	Modulating Emission Properties in a Host-Guest Colloidal Quantum Well Superlattice (Advanced Optical Materials 4/2022). <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2270014	8.1	
451	Modulating Emission Properties in a Host-Guest Colloidal Quantum Well Superlattice. <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2101756	8.1	1
450	Blue-Emitting CdSe Nanoplatelets Enabled by Sulfur-Alloyed Heterostructures for Light-Emitting Diodes with Low Turn-on Voltage. <i>ACS Applied Nano Materials</i> , <b>2022</b> , 5, 1367-1376	5.6	5
449	Management of electroluminescence from silver-doped colloidal quantum well light-emitting diodes. <i>Cell Reports Physical Science</i> , <b>2022</b> , 100860	6.1	3
448	Solution Lasing: Optical Microfluidic Waveguides and Solution Lasers of Colloidal Semiconductor Quantum Wells (Adv. Mater. 10/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170070	24	1
447	Strain-Reduced Micro-LEDs Grown Directly Using Partitioned Growth. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 639023	5	0
446	Light-Induced Paramagnetism in Colloidal Ag-Doped CdSe Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 2892-2899	6.4	9
445	Single-Mode Lasing from a Single 7 nm Thick Monolayer of Colloidal Quantum Wells in a Monolithic Microcavity. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000479	8.3	6
444	Ultraefficient Förster-Type Nonradiative Energy Transfer Enabled by the Complex Dielectric Medium with Tuned Permittivity. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 12405-12413	3.8	
443	Low-Threshold Lasing from Copper-Doped CdSe Colloidal Quantum Wells. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2100034	8.3	6
442	On-Chip Mercury-Free Deep-UV Light-Emitting Sources with Ultrahigh Germicidal Efficiency. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100072	8.1	3
441	Self-Resonant Microlasers of Colloidal Quantum Wells Constructed by Direct Deep Patterning. <i>Nano Letters</i> , <b>2021</b> , 21, 4598-4605	11.5	8
440	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , <b>2021</b> , 15, 10775-10981	16.7	222
439	High-Performance Triangular Miniaturized-LEDs for High Current and Power Density Applications. <i>ACS Photonics</i> , <b>2021</b> , 8, 2304-2310	6.3	1
438	Mechanosynthesis of polymer-stabilized lead bromide perovskites: insight into the formation and phase conversion of nanoparticles. <i>Nano Research</i> , <b>2021</b> , 14, 1078-1086	10	0
437	Optical Microfluidic Waveguides and Solution Lasers of Colloidal Semiconductor Quantum Wells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2007131	24	8

436	Ultralow Threshold Optical Gain Enabled by Quantum Rings of Inverted Type-I CdS/CdSe Core/Crown Nanoplatelets in the Blue. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2002220	8.1	8
435	Ultra-high Green and Red Optical Gain Cross Sections from Solutions of Colloidal Quantum Well Heterostructures. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 2177-2182	6.4	4
434	Meta-atomless Architecture based on an irregular continuous fabric of coupling-tuned identical nanopillars enables highly efficient and achromatic metasurfaces. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 081105	3.4	2
433	Tailored Synthesis of Iron Oxide Nanocrystals for Formation of Cuboid Mesocrystals. <i>ACS Omega</i> , <b>2021</b> , 6, 20351-20360	3.9	
432	Near-Field Energy Transfer into Silicon Inversely Proportional to Distance Using Quasi-2D Colloidal Quantum Well Donors. <i>Small</i> , <b>2021</b> , 17, e2103524	11	4
431	Deep-Red-Emitting Colloidal Quantum Well Light-Emitting Diodes Enabled through a Complex Design of Core/Crown/Double Shell Heterostructure. <i>Small</i> , <b>2021</b> , e2106115	11	2
430	Lasing Action in Single Subwavelength Particles Supporting Supercavity Modes. <i>ACS Nano</i> , <b>2020</b> , 14, 7338-7346	16.7	34
429	All-optical control of exciton flow in a colloidal quantum well complex. <i>Light: Science and Applications</i> , <b>2020</b> , 9, 27	16.7	13
428	CdSe/CdMnS Nanoplatelets with Bilayer Core and Magnetically Doped Shell Exhibit Switchable Excitonic Circular Polarization: Implications for Lasers and Light-Emitting Diodes. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 3151-3156	5.6	8
427	Sub-single exciton optical gain threshold in colloidal semiconductor quantum wells with gradient alloy shelling. <i>Nature Communications</i> , <b>2020</b> , 11, 3305	17.4	23
426	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
425	Magneto-Optics of Excitons Interacting with Magnetic Ions in CdSe/CdMnS Colloidal Nanoplatelets. <i>ACS Nano</i> , <b>2020</b> , 14, 9032-9041	16.7	7
424	Strong Plasmon-Wannier Mott Exciton Interaction with High Aspect Ratio Colloidal Quantum Wells. <i>Matter</i> , <b>2020</b> , 2, 1550-1563	12.7	11
423	Coreless Fiber-Based Whispering-Gallery-Mode Assisted Lasing from Colloidal Quantum Well Solids. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907417	15.6	18
422	Two-Dimensional CdSe-Based Nanoplatelets: Their Heterostructures, Doping, Photophysical Properties, and Applications. <i>Proceedings of the IEEE</i> , <b>2020</b> , 108, 655-675	14.3	21
421	Writing chemical patterns using electrospun fibers as nanoscale inkpots for directed assembly of colloidal nanocrystals. <i>Nanoscale</i> , <b>2020</b> , 12, 895-903	7.7	4
420	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
419	Plasmon-enhanced fluorescence in gold nanorod-quantum dot coupled systems. <i>Nanotechnology</i> , <b>2020</b> , 31, 105201	3.4	22

4 <sup>18</sup>	Control of LED Emission with Functional Dielectric Metasurfaces. <i>Laser and Photonics Reviews</i> , <b>2020</b> , 14, 1900235	8.3	27
4 <sup>17</sup>	Thickness-Tunable Self-Assembled Colloidal Nanoplatelet Films Enable Ultrathin Optical Gain Media. <i>Nano Letters</i> , <b>2020</b> , 20, 6459-6465	11.5	24
4 <sup>16</sup>	High-efficiency flow-through induction heating. <i>IET Power Electronics</i> , <b>2020</b> , 13, 2119-2126	2.2	3
4 <sup>15</sup>	MoS <sub>2</sub> Phototransistor Sensitized by Colloidal Semiconductor Quantum Wells. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2001198	8.1	4
4 <sup>14</sup>	Optically detected magnetic resonance in CdSe/CdMnS nanoplatelets. <i>Nanoscale</i> , <b>2020</b> , 12, 21932-21939	7.7	3
4 <sup>13</sup>	Optical Gain in Ultrathin Self-Assembled Bi-Layers of Colloidal Quantum Wells Enabled by the Mode Confinement in their High-Index Dielectric Waveguides. <i>Small</i> , <b>2020</b> , 16, e2004304	11	7
4 <sup>12</sup>	Core-crown Quantum Nanoplatelets with Favorable Type-II Heterojunctions Boost Charge Separation and Photocatalytic NO Oxidation on TiO <sub>2</sub> . <i>ChemCatChem</i> , <b>2020</b> , 12, 6329-6343	5.2	6
4 <sup>11</sup>	Trion-Mediated Förster Resonance Energy Transfer and Optical Gating Effect in WS <sub>2</sub> /hBN/MoSe Heterojunction. <i>ACS Nano</i> , <b>2020</b> , 14, 13470-13477	16.7	12
4 <sup>10</sup>	Spectrally Wide-Range-Tunable, Efficient, and Bright Colloidal Light-Emitting Diodes of Quasi-2D Nanoplatelets Enabled by Engineered Alloyed Heterostructures. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 7874-7883	9.6	16
4 <sup>09</sup>	Universality of dissipative self-assembly from quantum dots to human cells. <i>Nature Physics</i> , <b>2020</b> , 16, 795-801	16.2	19
4 <sup>08</sup>	Electrically control amplified spontaneous emission in colloidal quantum dots. <i>Science Advances</i> , <b>2019</b> , 5, eaav3140	14.3	23
4 <sup>07</sup>	Mutual Energy Transfer in a Binary Colloidal Quantum Well Complex. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 5193-5199	6.4	7
4 <sup>06</sup>	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
4 <sup>05</sup>	Metrics for Light Source Design. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> , 17-26	0.4	
4 <sup>04</sup>	Common White Light Sources. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> , 27-34	0.4	
4 <sup>03</sup>	Light Stimulus and Human Eye. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> , 5-9	0.4	
4 <sup>02</sup>	How to Design Quality Light Sources With Discrete Color Components. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> , 35-43	0.4	
4 <sup>01</sup>	Orientation-Controlled Nonradiative Energy Transfer to Colloidal Nanoplatelets: Engineering Dipole Orientation Factor. <i>Nano Letters</i> , <b>2019</b> , 19, 4297-4305	11.5	36

400	LEDs using halide perovskite nanocrystal emitters. <i>Nanoscale</i> , <b>2019</b> , 11, 11402-11412	7.7	26
399	Utilizing Multiple BioMEMS Sensors to Monitor Orthopaedic Strain and Predict Bone Fracture Healing. <i>Journal of Orthopaedic Research</i> , <b>2019</b> , 37, 1873-1880	3.8	10
398	Luminescence of Gold Nanorod-Quantum Dots Complexes. <i>International Journal of Nanoscience</i> , <b>2019</b> , 18, 1940002	0.6	1
397	Broad-band polarization-insensitive all-dielectric metalens enabled by intentional off-resonance waveguiding at mid-wave infrared. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 043105	3.4	17
396	Future Outlook. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> , 45-47	0.4	
395	Highly Stable Multicrown Heterostructures of Type-II Nanoplatelets for Ultralow Threshold Optical Gain. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 1818-1826	9.6	23
394	Colorimetry for LED Lighting. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> , 11-16	0.4	
393	Near-Infrared-Emitting Five-Monolayer Thick Copper-Doped CdSe Nanoplatelets. <i>Advanced Optical Materials</i> , <b>2019</b> , 7, 1900831	8.1	17
392	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
391	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
390	Persuasive Evidence for Electron-Nuclear Coupling in Diluted Magnetic Colloidal Nanoplatelets Using Optically Detected Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 4437-4447	6.4	9
389	Ultrathin Highly Luminescent Two-Monolayer Colloidal CdSe Nanoplatelets. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901028	15.6	40
388	Light Generation in Lead Halide Perovskite Nanocrystals: LEDs, Color Converters, Lasers, and Other Applications. <i>Small</i> , <b>2019</b> , 15, e1902079	11	50
387	Plasmon-exciton systems with high quantum yield using deterministic aluminium nanostructures with rotational symmetries. <i>Nanoscale</i> , <b>2019</b> , 11, 20315-20323	7.7	3
386	Impurity incorporation and exchange interactions in Co-doped CdSe/CdS core/shell nanoplatelets. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 224708	3.9	2
385	Nonradiative Energy Transfer between Doped and Undoped Flat Semiconductor Nanocrystals of Colloidal Quasi-2D Nanoplatelets. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 1470-1476	3.8	7
384	CdTe Quantum Dot-Functionalized P25 Titania Composite with Enhanced Photocatalytic NO Storage Selectivity under UV and Vis Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 865-879	9.5	8
383	Color Science and Photometry for Lighting with LEDs and Semiconductor Nanocrystals. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2019</b> ,	0.4	1

382	Giant Modal Gain Coefficients in Colloidal II-VI Nanoplatelets. <i>Nano Letters</i> , <b>2019</b> , 19, 277-282	11.5	61
381	Ultra-high-efficiency aqueous flat nanocrystals of CdSe/CdS@CdZnS colloidal core/crown@alloyed-shell quantum wells. <i>Nanoscale</i> , <b>2018</b> , 11, 301-310	7.7	36
380	Possible Plasmonic Acceleration of LED Modulation for Li-Fi Applications. <i>Plasmonics</i> , <b>2018</b> , 13, 2133-2140	4.4	11
379	Polarization-Resolved Plasmon-Modulated Emissions of Quantum Dots Coupled to Aluminum Dimers with Sub-20 nm Gaps. <i>ACS Photonics</i> , <b>2018</b> , 5, 1566-1574	6.3	11
378	sp-d Exchange Interactions in Wave Function Engineered Colloidal CdSe/Mn:CdS Hetero-Nanoplatelets. <i>Nano Letters</i> , <b>2018</b> , 18, 2047-2053	11.5	28
377	Color-Enrichment Semiconductor Nanocrystals for Biorhythm-Friendly Backlighting. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2018</b> , 232, 1457-1468	3.1	1
376	Plasmonic enhancement of electroluminescence. <i>AIP Advances</i> , <b>2018</b> , 8, 015324	1.5	16
375	Low-threshold lasing from colloidal CdSe/CdSeTe core/alloyed-crown type-II heteronanoplatelets. <i>Nanoscale</i> , <b>2018</b> , 10, 9466-9475	7.7	33
374	A Wireless Metamaterial-Inspired Passive Rotation Sensor With Submilliradian Resolution. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 4482-4490	4	17
373	Brightly Luminescent Cu-Zn-In-S/ZnS Core/Shell Quantum Dots in Salt Matrices. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2018</b> , 233, 23-40	3.1	7
372	High-efficiency all-inorganic full-colour quantum dot light-emitting diodes. <i>Nano Energy</i> , <b>2018</b> , 46, 229-233	3.1	33
371	Effect of Mg doping in the barriers on the electrical performance of InGaN/GaN-based light-emitting diodes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2018</b> , 98, 29-32	3	
370	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> , <b>2018</b> , 30, 3265-3275	9.6	37
369	Nanocrystal light-emitting diodes based on type II nanoplatelets. <i>Nano Energy</i> , <b>2018</b> , 47, 115-122	17.1	51
368	Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. <i>Nano Letters</i> , <b>2018</b> , 18, 3157-3164	11.5	160
367	Wireless deep-subwavelength metamaterial enabling sub-mm resolution magnetic resonance imaging. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 274, 211-219	3.9	3
366	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
365	Colloidal Photoluminescent Refractive Index Nanosensor Using Plasmonic Effects. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2018</b> , 232, 1431-1441	3.1	8

364	A new class of cubic SPIONs as a dual-mode T1 and T2 contrast agent for MRI. <i>Magnetic Resonance Imaging</i> , <b>2018</b> , 49, 16-24	3.3	26
363	All-Surface Induction Heating With High Efficiency and Space Invariance Enabled by Arraying Squirle Coils in Square Lattice. <i>IEEE Transactions on Consumer Electronics</i> , <b>2018</b> , 64, 339-347	4.8	6
362	High-performance AlGaInP light-emitting diodes integrated on silicon through a superior quality germanium-on-insulator. <i>Photonics Research</i> , <b>2018</b> , 6, 290	6	6
361	Cd-free Cu-doped ZnInS/ZnS Core/Shell Nanocrystals: Controlled Synthesis And Photophysical Properties. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 182	5	6
360	Exciton Dynamics of Colloidal Semiconductor Quantum Well Stacks. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2018</b> , 365-367	0.2	
359	Chapter 11 Emerging Fields of Colloidal Nanophotonics for Quality Lighting to Versatile Lasing. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2018</b> , 221-233	0.2	
358	Applied Nanophotonics <b>2018</b> ,		30
357	An inductively coupled ultra-thin, flexible, and passive RF resonator for MRI marking and guiding purposes: Clinical feasibility. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 361-370	4.4	7
356	Exciton Dynamics in Colloidal Quantum-Dot LEDs under Active Device Operations. <i>ACS Photonics</i> , <b>2018</b> , 5, 480-486	6.3	6
355	Polarization Properties of Photoluminescence of Anisotropic Polymer Films Containing Aligned Au Nanorods and Semiconductor Nanoparticles of Various Shape. <i>Semiconductors</i> , <b>2018</b> , 52, 2054-2056	0.7	1
354	Wireless Monitoring of a Structural Beam to be Used for Post-Earthquake Damage Assessment <b>2018</b> ,		1
353	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
352	Near-Unity Efficiency Energy Transfer from Colloidal Semiconductor Quantum Wells of CdSe/CdS Nanoplatelets to a Monolayer of MoS. <i>ACS Nano</i> , <b>2018</b> , 12, 8547-8554	16.7	25
351	Investigation of p-type depletion doping for InGaN/GaN-based light-emitting diodes. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 033506	3.4	15
350	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
349	Development of a distance-independent wireless passive RF resonator sensor and a new telemetric measurement technique for wireless strain monitoring. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 255, 87-93	3.9	10
348	Light Trapping in Inverted Organic Photovoltaics With Nanoimprinted ZnO Photonic Crystals. <i>IEEE Journal of Photovoltaics</i> , <b>2017</b> , 7, 545-549	3.7	15
347	Time resolved photoluminescence study of magnetic CdSe/CdMnS/CdS core/multi-shell nanoplatelets <b>2017</b> ,		1

346	Simple and Complex Metafluids and Metastructures with Sharp Spectral Features in a Broad Extinction Spectrum: Particle-Particle Interactions and Testing the Limits of the Beer-Lambert Law. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 2987-2997	3.8	8
345	High-efficiency low-crosstalk dielectric metasurfaces of mid-wave infrared focal plane arrays. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 143106	3.4	12
344	Temperature-dependent optoelectronic properties of quasi-2D colloidal cadmium selenide nanoplatelets. <i>Nanoscale</i> , <b>2017</b> , 9, 6595-6605	7.7	15
343	Rapid Crystallization of All-Inorganic CsPbBr Perovskite for High-Brightness Light-Emitting Diodes. <i>ACS Omega</i> , <b>2017</b> , 2, 2757-2764	3.9	26
342	An Equivalent Circuit Model for Nested Split-Ring Resonators. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 3733-3743	4.1	6
341	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
340	Plasmon-Enhanced Energy Transfer in Photosensitive Nanocrystal Device. <i>ACS Nano</i> , <b>2017</b> , 11, 5430-5439	16.7	14
339	Near-Unity Emitting Copper-Doped Colloidal Semiconductor Quantum Wells for Luminescent Solar Concentrators. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700821	24	96
338	Robust Whispering-Gallery-Mode Microbubble Lasers from Colloidal Quantum Dots. <i>Nano Letters</i> , <b>2017</b> , 17, 2640-2646	11.5	60
337	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
336	Engineering Quantum Dots with Different Emission Wavelengths and Specific Fluorescence Lifetimes for Spectrally and Temporally Multiplexed Imaging of Cells. <i>Nanotheranostics</i> , <b>2017</b> , 1, 131-140	5.6	13
335	Inverted Type-I CdS/CdSe Core/Crown colloidal quantum ring <b>2017</b> ,		1
334	Highly Luminescent CB[7]-Based Conjugated Polyrotaxanes Embedded into Crystalline Matrices. <i>Macromolecular Materials and Engineering</i> , <b>2017</b> , 302, 1700290	3.9	4
333	Spectral tunability and enhancement of molecular radiative emission by metal-dielectric-metal stratified plasmonic nanostructure. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 093302	3.4	2
332	Coupling and power transfer efficiency enhancement of modular and array of planar coils using in-plane ring-shaped inner ferrites for inductive heating applications. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 014902	2.5	6
331	Chiral Ceramic Nanoparticles and Peptide Catalysis. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13701-13712	16.4	67
330	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
329	Magnetic Resonance Imaging Assisted by Wireless Passive Implantable Fiducial e-Markers. <i>IEEE Access</i> , <b>2017</b> , 5, 19693-19702	3.5	2



328	Understanding and Modeling Förster-type Resonance Energy Transfer (FRET). <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2017</b> ,	0.4	2
327	Förster-type Resonance Energy Transfer (FRET): Applications. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2017</b> , 1-40	0.4	1
326	Nonradiative Energy Transfer in Assembly of Nanostructures. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2017</b> , 27-38	0.4	
325	Inductance and resistance measurement method for vessel detection and coil powering in all-surface inductive heating systems composed of outer squircle coils. <i>AIP Advances</i> , <b>2017</b> , 7, 056645	1.5	
324	Wavelength tuning of the spirally drawn whispering gallery mode microfiber lasers and the perspectives for sensing applications. <i>Optics Express</i> , <b>2017</b> , 25, 2618-2626	3.3	8
323	High performance infrared photodetectors up to 28 $\mu\text{m}$ wavelength based on lead selenide colloidal quantum dots. <i>Optical Materials Express</i> , <b>2017</b> , 7, 2326	2.6	25
322	Applying Förster-Type Nonradiative Energy Transfer Formalism to Nanostructures with Various Directionalities: Dipole Electric Potential of Exciton and Dielectric Environment. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2017</b> , 1-8	0.4	
321	Förster-Type Nonradiative Energy Transfer Rates for Nanostructures with Various Dimensionalities. <i>SpringerBriefs in Applied Sciences and Technology</i> , <b>2017</b> , 9-25	0.4	
320	Quantum Dot/Light-Emitting Electrochemical Cell Hybrid Device and Mechanism of Its Operation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24692-8	9.5	37
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