

Hilmi Volkan Demir

List of Publications by Year in descending order

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17,389
citations

14644

66
h-index

26591

107
g-index

559
all docs

559
docs citations

559
times ranked

17041
citing authors

#	ARTICLE	IF	CITATIONS
1	Ligand Exchange and Impurity Doping in 2D CdSe Nanoplatelet Thin Films and Their Applications. <i>Advanced Electronic Materials</i> , 2022, 8, 2100739.	2.6	7
2	Vacuum-evaporated lead halide perovskite LEDs [Invited]. <i>Optical Materials Express</i> , 2022, 12, 256.	1.6	6
3	Spectrally Resolved Nonlinear Optical Properties of Doped <i><i>Versus</i></i> Undoped Quasi-2D Semiconductor Nanocrystals: Copper and Silver Doping Provokes Strong Nonlinearity in Colloidal CdSe Nanoplatelets. <i>ACS Photonics</i> , 2022, 9, 256-267.	3.2	15
4	Engineered ultraviolet InGaN/AlGaN multiple-quantum-well structures for maximizing cathodoluminescence efficiency. <i>AIP Advances</i> , 2022, 12, .	0.6	2
5	Interfacial charge and energy transfer in van der Waals heterojunctions. <i>Informa^Ån^Å-Materi^Åly</i> , 2022, 4, .	8.5	48
6	Plasmon-enhanced photoresponse of single silver nanowires and their network devices. <i>Nanoscale Horizons</i> , 2022, 7, 396-402.	4.1	6
7	Modulating Emission Properties in a Host ^Å Guest Colloidal Quantum Well Superlattice (Advanced) Tj ETQq1 1 0.784314 rgBT /Over	3.6	4
8	Modulating Emission Properties in a Host ^Å Guest Colloidal Quantum Well Superlattice. <i>Advanced Optical Materials</i> , 2022, 10, 2101756.	3.6	4
9	Deep ^Å Red ^Å Emitting Colloidal Quantum Well Light ^Å Emitting Diodes Enabled through a Complex Design of Core/Crown/Double Shell Heterostructure. <i>Small</i> , 2022, 18, e2106115.	5.2	15
10	Blue-Emitting CdSe Nanoplatelets Enabled by Sulfur-Alloyed Heterostructures for Light-Emitting Diodes with Low Turn-on Voltage. <i>ACS Applied Nano Materials</i> , 2022, 5, 1367-1376.	2.4	14
11	Management of electroluminescence from silver-doped colloidal quantum well light-emitting diodes. <i>Cell Reports Physical Science</i> , 2022, 3, 100860.	2.8	10
12	Bright Future of Deep-Ultraviolet Photonics: Emerging UVC Chip-Scale Light-Source Technology Platforms, Benchmarking, Challenges, and Outlook for UV Disinfection. <i>ACS Photonics</i> , 2022, 9, 1513-1521.	3.2	27
13	Narrow electroluminescence in bromide ligand-capped cadmium chalcogenide nanoplatelets. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	4
14	Color Enrichment Solids of Spectrally Pure Colloidal Quantum Wells for Wide Color Span in Displays. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	1
15	High-Performance Deep Red Colloidal Quantum Well Light-Emitting Diodes Enabled by the Understanding of Charge Dynamics. <i>ACS Nano</i> , 2022, 16, 10840-10851.	7.3	21
16	Mechanosynthesis of polymer-stabilized lead bromide perovskites: insight into the formation and phase conversion of nanoparticles. <i>Nano Research</i> , 2021, 14, 1078-1086.	5.8	8
17	Optical Microfluidic Waveguides and Solution Lasers of Colloidal Semiconductor Quantum Wells. <i>Advanced Materials</i> , 2021, 33, e2007131.	11.1	19
18	Ultralow Threshold Optical Gain Enabled by Quantum Rings of Inverted Type ^Å CdS/CdSe Core/Crown Nanoplatelets in the Blue. <i>Advanced Optical Materials</i> , 2021, 9, 2002220.	3.6	16

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19	Ultrahigh Green and Red Optical Gain Cross Sections from Solutions of Colloidal Quantum Well Heterostructures. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2177-2182.	2.1	20
20	“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> , 2021, 118, 081105.	1.5	5
21	Solution Lasing: Optical Microfluidic Waveguides and Solution Lasers of Colloidal Semiconductor Quantum Wells (<i>Adv. Mater.</i> 10/2021). <i>Advanced Materials</i> , 2021, 33, 2170070.	11.1	2
22	Strain-Reduced Micro-LEDs Grown Directly Using Partitioned Growth. <i>Frontiers in Chemistry</i> , 2021, 9, 639023.	1.8	4
23	Light-Induced Paramagnetism in Colloidal Ag ⁺ -Doped CdSe Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2892-2899.	2.1	17
24	Single-Mode Lasing from a Single 7 nm Thick Monolayer of Colloidal Quantum Wells in a Monolithic Microcavity. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000479.	4.4	8
25	Colloidal Gain Media: Single-Mode Lasing from a Single 7 nm Thick Monolayer of Colloidal Quantum Wells in a Monolithic Microcavity (<i>Laser Photonics Rev.</i> 15(4)/2021). <i>Laser and Photonics Reviews</i> , 2021, 15, 2170024.	4.4	1
26	Ultraefficient Förster-Type Nonradiative Energy Transfer Enabled by the Complex Dielectric Medium with Tuned Permittivity. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12405-12413.	1.5	1
27	Low-Threshold Lasing from Copper-Doped CdSe Colloidal Quantum Wells. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100034.	4.4	18
28	On-Chip Mercury-Free Deep-UV Light-Emitting Sources with Ultrahigh Germicidal Efficiency. <i>Advanced Optical Materials</i> , 2021, 9, 2100072.	3.6	10
29	Self-Resonant Microlasers of Colloidal Quantum Wells Constructed by Direct Deep Patterning. <i>Nano Letters</i> , 2021, 21, 4598-4605.	4.5	21
30	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 10775-10981.	7.3	705
31	High-Performance Triangular Miniaturized-LEDs for High Current and Power Density Applications. <i>ACS Photonics</i> , 2021, 8, 2304-2310.	3.2	7
32	Tailored Synthesis of Iron Oxide Nanocrystals for Formation of Cuboid Mesocrystals. <i>ACS Omega</i> , 2021, 6, 20351-20360.	1.6	3
33	Near-Field Energy Transfer into Silicon Inversely Proportional to Distance Using Quasi-2D Colloidal Quantum Well Donors. <i>Small</i> , 2021, 17, e2103524.	5.2	8
34	Metal-organic frameworks protect perovskite. <i>Nature Photonics</i> , 2021, 15, 796-797.	15.6	3
35	Coreless Fiber-Based Whispering-Gallery-Mode Assisted Lasing from Colloidal Quantum Well Solids. <i>Advanced Functional Materials</i> , 2020, 30, 1907417.	7.8	31
36	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

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37	Light-Emitting Diodes: Control of LED Emission with Functional Dielectric Metasurfaces (Laser) Tj ETQq1 1 0.784314 rgBT /Overlock	4.4	3
38	Writing chemical patterns using electrospun fibers as nanoscale inkpots for directed assembly of colloidal nanocrystals. <i>Nanoscale</i> , 2020, 12, 895-903.	2.8	6
39	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
40	Plasmon-enhanced fluorescence in gold nanorod-quantum dot coupled systems. <i>Nanotechnology</i> , 2020, 31, 105201.	1.3	29
41	Control of LED Emission with Functional Dielectric Metasurfaces. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900235.	4.4	52
42	Thickness-Tunable Self-Assembled Colloidal Nanoplatelet Films Enable Ultrathin Optical Gain Media. <i>Nano Letters</i> , 2020, 20, 6459-6465.	4.5	40
43	High-efficiency flow-through induction heating. <i>IET Power Electronics</i> , 2020, 13, 2119-2126.	1.5	10
44	MoS ₂ Phototransistor Sensitized by Colloidal Semiconductor Quantum Wells. <i>Advanced Optical Materials</i> , 2020, 8, 2001198.	3.6	8
45	Optically detected magnetic resonance in CdSe/CdMnS nanoplatelets. <i>Nanoscale</i> , 2020, 12, 21932-21939.	2.8	10
46	Optical Gain in Ultrathin Self-Assembled Bilayers of Colloidal Quantum Wells Enabled by the Mode Confinement in their High-Index Dielectric Waveguides. <i>Small</i> , 2020, 16, e2004304.	5.2	9
47	Core-crown Quantum Nanoplatelets with Favorable Type-II Heterojunctions Boost Charge Separation and Photocatalytic NO Oxidation on TiO ₂ . <i>ChemCatChem</i> , 2020, 12, 6329-6343.	1.8	16
48	Trion-Mediated Förster Resonance Energy Transfer and Optical Gating Effect in WS ₂ /hBN/MoSe ₂ Heterojunction. <i>ACS Nano</i> , 2020, 14, 13470-13477.	7.3	29
49	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> , 2020, 32, 7874-7883.	3.2	29
50	Lasing Action in Single Subwavelength Particles Supporting Supercavity Modes. <i>ACS Nano</i> , 2020, 14, 7338-7346.	7.3	75
51	All-optical control of exciton flow in a colloidal quantum well complex. <i>Light: Science and Applications</i> , 2020, 9, 27.	7.7	21
52	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> , 2020, 3, 3151-3156.	2.4	9
53	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
54	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

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55	Magneto-Optics of Excitons Interacting with Magnetic Ions in CdSe/CdMnS Colloidal Nanoplatelets. ACS Nano, 2020, 14, 9032-9041.	7.3	20
56	Active Nanophotonics [Scanning the Issue]. Proceedings of the IEEE, 2020, 108, 625-627.	16.4	1
57	Strong Plasmon-Wannier Mott Exciton Interaction with High Aspect Ratio Colloidal Quantum Wells. Matter, 2020, 2, 1550-1563.	5.0	18
58	Universality of dissipative self-assembly from quantum dots to human cells. Nature Physics, 2020, 16, 795-801.	6.5	39
59	(Invited) Semiconductor Nanocrystal Optoelectronics of Colloidal Quantum Wells. ECS Meeting Abstracts, 2020, MA2020-01, 1081-1081.	0.0	0
60	Near-Infrared-Emitting Five-Monolayer Thick Copper-Doped CdSe Nanoplatelets. Advanced Optical Materials, 2019, 7, 1900831.	3.6	25
61	Light-Emitting Diodes with Cu-Doped Colloidal Quantum Wells: From Ultrapure Green, Tunable Dual-Emission to White Light. Small, 2019, 15, 1901983.	5.2	45
62	Giant Alloyed Hot Injection Shells Enable Ultralow Optical Gain Threshold in Colloidal Quantum Wells. ACS Nano, 2019, 13, 10662-10670.	7.3	71
63	Persuasive Evidence for Electron-Nuclear Coupling in Diluted Magnetic Colloidal Nanoplatelets Using Optically Detected Magnetic Resonance Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 4437-4447.	2.1	12
64	Ultrathin Highly Luminescent Two-Monolayer Colloidal CdSe Nanoplatelets. Advanced Functional Materials, 2019, 29, 1901028.	7.8	56
65	Light Generation in Lead Halide Perovskite Nanocrystals: LEDs, Color Converters, Lasers, and Other Applications. Small, 2019, 15, e1902079.	5.2	81
66	Electrically control amplified spontaneous emission in colloidal quantum dots. Science Advances, 2019, 5, eaav3140.	4.7	43
67	Mutual Energy Transfer in a Binary Colloidal Quantum Well Complex. Journal of Physical Chemistry Letters, 2019, 10, 5193-5199.	2.1	13
68	Highly Stable, Near-Unity Efficiency Atomically Flat Semiconductor Nanocrystals of CdSe/ZnS Hetero-Nanoplatelets Enabled by ZnS-Shell Hot-Injection Growth. Small, 2019, 15, e1804854.	5.2	67
69	Metrics for Light Source Design. SpringerBriefs in Applied Sciences and Technology, 2019, , 17-26.	0.2	0
70	Light Stimulus and Human Eye. SpringerBriefs in Applied Sciences and Technology, 2019, , 5-9.	0.2	0
71	How to Design Quality Light Sources With Discrete Color Components. SpringerBriefs in Applied Sciences and Technology, 2019, , 35-43.	0.2	0
72	Ultrahigh-efficiency aqueous flat nanocrystals of CdSe/CdS@Cd _{1-x} Zn _x S colloidal core/crown@alloyed-shell quantum wells. Nanoscale, 2019, 11, 301-310.	2.8	44

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73	Orientation-Controlled Nonradiative Energy Transfer to Colloidal Nanoplatelets: Engineering Dipole Orientation Factor. <i>Nano Letters</i> , 2019, 19, 4297-4305.	4.5	53
74	LEDs using halide perovskite nanocrystal emitters. <i>Nanoscale</i> , 2019, 11, 11402-11412.	2.8	41
75	Utilizing Multiple BioMEMS Sensors to Monitor Orthopaedic Strain and Predict Bone Fracture Healing. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1873-1880.	1.2	25
76	Luminescence of Gold Nanorod-Quantum Dots Complexes. <i>International Journal of Nanoscience</i> , 2019, 18, 1940002.	0.4	2
77	Broad-band polarization-insensitive all-dielectric metalens enabled by intentional off-resonance waveguiding at mid-wave infrared. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	29
78	Future Outlook. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019, , 45-47.	0.2	0
79	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
80	Colorimetry for LED Lighting. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019, , 11-16.	0.2	0
81	Plasmon-exciton systems with high quantum yield using deterministic aluminium nanostructures with rotational symmetries. <i>Nanoscale</i> , 2019, 11, 20315-20323.	2.8	4
82	Impurity incorporation and exchange interactions in Co ²⁺ -doped CdSe/CdS core/shell nanoplatelets. <i>Journal of Chemical Physics</i> , 2019, 151, 224708.	1.2	4
83	Nonradiative Energy Transfer between Doped and Undoped Flat Semiconductor Nanocrystals of Colloidal Quasi-2D Nanoplatelets. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1470-1476.	1.5	7
84	CdTe Quantum Dot-Functionalized P25 Titania Composite with Enhanced Photocatalytic NO ₂ Storage Selectivity under UV and Vis Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 865-879.	4.0	15
85	Color Science and Photometry for Lighting with LEDs and Semiconductor Nanocrystals. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019, , .	0.2	2
86	Giant Modal Gain Coefficients in Colloidal II-VI Nanoplatelets. <i>Nano Letters</i> , 2019, 19, 277-282.	4.5	93
87	Possible Plasmonic Acceleration of LED Modulation for Li-Fi Applications. <i>Plasmonics</i> , 2018, 13, 2133-2140.	1.8	19
88	Polarization-Resolved Plasmon-Modulated Emissions of Quantum Dots Coupled to Aluminum Dimers with Sub-20 nm Gaps. <i>ACS Photonics</i> , 2018, 5, 1566-1574.	3.2	17
89	sp ^d Exchange Interactions in Wave Function Engineered Colloidal CdSe/Mn:CdS Hetero-Nanoplatelets. <i>Nano Letters</i> , 2018, 18, 2047-2053.	4.5	32
90	Color-Enrichment Semiconductor Nanocrystals for Biorhythm-Friendly Backlighting. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1457-1468.	1.4	1

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91	Plasmonic enhancement of electroluminescence. AIP Advances, 2018, 8, 015324.	0.6	18
92	Low-threshold lasing from colloidal CdSe/CdSeTe core/alloyed-crown type-II heteronanoplatelets. Nanoscale, 2018, 10, 9466-9475.	2.8	43
93	A Wireless Metamaterial-Inspired Passive Rotation Sensor With Submilliradian Resolution. IEEE Sensors Journal, 2018, 18, 4482-4490.	2.4	22
94	Brightly Luminescent Cu-Zn-In-S/ZnS Core/Shell Quantum Dots in Salt Matrices. Zeitschrift Fur Physikalische Chemie, 2018, 233, 23-40.	1.4	8
95	High-efficiency all-inorganic full-colour quantum dot light-emitting diodes. Nano Energy, 2018, 46, 229-233.	8.2	52
96	Effect of Mg doping in the barriers on the electrical performance of InGaN/GaN-based light-emitting diodes. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 98, 29-32.	1.3	0
97	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.	3.2	51
98	Nanocrystal light-emitting diodes based on type II nanoplatelets. Nano Energy, 2018, 47, 115-122.	8.2	62
99	Highly Efficient Visible Colloidal Lead-Halide Perovskite Nanocrystal Light-Emitting Diodes. Nano Letters, 2018, 18, 3157-3164.	4.5	199
100	Wireless deep-subwavelength metamaterial enabling sub-mm resolution magnetic resonance imaging. Sensors and Actuators A: Physical, 2018, 274, 211-219.	2.0	4
101	Highly Efficient Green Light-Emitting Diodes from All-Inorganic Perovskite Nanocrystals Enabled by a New Electron Transport Layer. Advanced Optical Materials, 2018, 6, 1800220.	3.6	74
102	Colloidal Photoluminescent Refractive Index Nanosensor Using Plasmonic Effects. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1431-1441.	1.4	11
103	A new class of cubic SPIONs as a dual-mode T1 and T2 contrast agent for MRI. Magnetic Resonance Imaging, 2018, 49, 16-24.	1.0	43
104	An inductively coupled ultra-thin, flexible, and passive RF resonator for MRI marking and guiding purposes: Clinical feasibility. Magnetic Resonance in Medicine, 2018, 80, 361-370.	1.9	12
105	Exciton Dynamics in Colloidal Quantum-Dot LEDs under Active Device Operations. ACS Photonics, 2018, 5, 480-486.	3.2	11
106	Polarization Properties of Photoluminescence of Anisotropic Polymer Films Containing Aligned Au Nanorods and Semiconductor Nanoparticles of Various Shape. Semiconductors, 2018, 52, 2054-2056.	0.2	1
107	Wireless Monitoring of a Structural Beam to be Used for Post-Earthquake Damage Assessment. , 2018, , .		1
108	2.8µm infrared photodetectors based on PbSe colloidal quantum dot films. , 2018, , .		0

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109	Solvent-Assisted Surface Engineering for High-Performance All-Inorganic Perovskite Nanocrystal Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 19828-19835.	4.0	45
110	Near-Unity Efficiency Energy Transfer from Colloidal Semiconductor Quantum Wells of CdSe/CdS Nanoplatelets to a Monolayer of MoS ₂ . ACS Nano, 2018, 12, 8547-8554.	7.3	34
111	All-Surface Induction Heating With High Efficiency and Space Invariance Enabled by Arraying Squirrel Coils in Square Lattice. IEEE Transactions on Consumer Electronics, 2018, 64, 339-347.	3.0	8
112	High-performance AlGaInP light-emitting diodes integrated on silicon through a superior quality germanium-on-insulator. Photonics Research, 2018, 6, 290.	3.4	8
113	Cd-free Cu-doped ZnInS/ZnS Core/Shell Nanocrystals: Controlled Synthesis And Photophysical Properties. Nanoscale Research Letters, 2018, 13, 182.	3.1	8
114	Exciton Dynamics of Colloidal Semiconductor Quantum Well Stacks. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 365-367.	0.2	0
115	Investigation of p-type depletion doping for InGaN/GaN-based light-emitting diodes. Applied Physics Letters, 2017, 110, .	1.5	15
116	CdSe/CdSe _{1-x} Te _x Core/Crown Heteronoplatelets: Tuning the Excitonic Properties without Changing the Thickness. Journal of Physical Chemistry C, 2017, 121, 4650-4658.	1.5	45
117	Development of a distance-independent wireless passive RF resonator sensor and a new telemetric measurement technique for wireless strain monitoring. Sensors and Actuators A: Physical, 2017, 255, 87-93.	2.0	13
118	Light Trapping in Inverted Organic Photovoltaics With Nanoimprinted ZnO Photonic Crystals. IEEE Journal of Photovoltaics, 2017, 7, 545-549.	1.5	18
119	Time resolved photoluminescence study of magnetic CdSe/CdMnS/CdS core/multi-shell nanoplatelets. , 2017, , .		1
120	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. Journal of Physical Chemistry C, 2017, 121, 2987-2997.	1.5	9
121	High-efficiency low-crosstalk dielectric metasurfaces of mid-wave infrared focal plane arrays. Applied Physics Letters, 2017, 110, .	1.5	16
122	Temperature-dependent optoelectronic properties of quasi-2D colloidal cadmium selenide nanoplatelets. Nanoscale, 2017, 9, 6595-6605.	2.8	18
123	Rapid Crystallization of All-Inorganic CsPbBr ₃ Perovskite for High-Brightness Light-Emitting Diodes. ACS Omega, 2017, 2, 2757-2764.	1.6	28
124	An Equivalent Circuit Model for Nested Split-Ring Resonators. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3733-3743.	2.9	11
125	Alloyed Heterostructures of CdSe _x S _{1-x} Nanoplatelets with Highly Tunable Optical Gain Performance. Chemistry of Materials, 2017, 29, 4857-4865.	3.2	51
126	Plasmon-Enhanced Energy Transfer in Photosensitive Nanocrystal Device. ACS Nano, 2017, 11, 5430-5439.	7.3	20

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127	An electromagnetic sensing system incorporating multiple probes and single antenna for wireless structural health monitoring. , 2017, , .		0
128	Near-Unity Emitting Copper-Doped Colloidal Semiconductor Quantum Wells for Luminescent Solar Concentrators. <i>Advanced Materials</i> , 2017, 29, 1700821.	11.1	133
129	Robust Whispering-Gallery-Mode Microbubble Lasers from Colloidal Quantum Dots. <i>Nano Letters</i> , 2017, 17, 2640-2646.	4.5	83
130	Silica Nanoparticle Formation by Using Droplet-Based Microreactor. , 2017, , .		0
131	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
132	Highly Luminescent CB[7]-Based Conjugated Polyrotaxanes Embedded into Crystalline Matrices. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700290.	1.7	5
133	Spectral tunability and enhancement of molecular radiative emission by metal-dielectric-metal stratified plasmonic nanostructure. <i>Applied Physics Letters</i> , 2017, 111, 093302.	1.5	2
134	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> , 2017, 122, 014902.	1.1	6
135	Chiral Ceramic Nanoparticles and Peptide Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 13701-13712.	6.6	110
136	High-efficiency and low-loss gallium nitride dielectric metasurfaces for nanophotonics at visible wavelengths. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	42
137	Magnetic Resonance Imaging Assisted by Wireless Passive Implantable Fiducial e-Markers. <i>IEEE Access</i> , 2017, 5, 19693-19702.	2.6	3
138	Förster-type Resonance Energy Transfer (FRET): Applications. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , 1-40.	0.2	2
139	Nonradiative Energy Transfer in Assembly of Nanostructures. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , 27-38.	0.2	0
140	Guest Editorial: Introduction to the JSTQE Issue on Semiconductor Nanocrystal Optoelectronics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-3.	1.9	0
141	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> , 2017, 7, 056645.	0.6	0
142	Wavelength tuning of the spirally drawn whispering gallery mode microfiber lasers and the perspectives for sensing applications. <i>Optics Express</i> , 2017, 25, 2618.	1.7	10
143	High performance infrared photodetectors up to 28 μm wavelength based on lead selenide colloidal quantum dots. <i>Optical Materials Express</i> , 2017, 7, 2326.	1.6	32
144	Engineering Quantum Dots with Different Emission Wavelengths and Specific Fluorescence Lifetimes for Spectrally and Temporally Multiplexed Imaging of Cells. <i>Nanotheranostics</i> , 2017, 1, 131-140.	2.7	15

#	ARTICLE	IF	CITATIONS
145	Inverted Type-I CdS/CdSe Core/Crown colloidal quantum ring. , 2017, , .		1
146	Heterodoped Nanoparticles as Dual-Mode Contrast Agent for MRI. , 2017, , .		0
147	Applying Förster-Type Nonradiative Energy Transfer Formalism to Nanostructures with Various Directionalities: Dipole Electric Potential of Exciton and Dielectric Environment. SpringerBriefs in Applied Sciences and Technology, 2017, , 1-8.	0.2	0
148	Förster-Type Nonradiative Energy Transfer Rates for Nanostructures with Various Dimensionalities. SpringerBriefs in Applied Sciences and Technology, 2017, , 9-25.	0.2	0
149	Anomalous Spectral Characteristics of Ultrathin sub-nm Colloidal CdSe Nanoplatelets. , 2017, , .		0
150	Wireless Metal Detection and Surface Coverage Sensing for All-Surface Induction Heating. Sensors, 2016, 16, 363.	2.1	8
151	A Wireless Passive Sensing System for Displacement/Strain Measurement in Reinforced Concrete Members. Sensors, 2016, 16, 496.	2.1	32
152	Colloidal nanophotonics: the emerging technology platform. Optics Express, 2016, 24, A430.	1.7	29
153	Colloidal Quantum Dots for Quality Lighting. , 2016, , .		0
154	Green Stimulated Emission Boosted by Nonradiative Resonant Energy Transfer from Blue Quantum Dots. Journal of Physical Chemistry Letters, 2016, 7, 2772-2778.	2.1	12
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