

# Young Min Song

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4537395/publications.pdf>

Version: 2024-02-01

180  
papers

9,110  
citations

87723

38  
h-index

42291

92  
g-index

187  
all docs

187  
docs citations

187  
times ranked

10736  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Physically Transient Form of Silicon Electronics. <i>Science</i> , 2012, 337, 1640-1644.	6.0	1,085
2	Injectable, Cellular-Scale Optoelectronics with Applications for Wireless Optogenetics. <i>Science</i> , 2013, 340, 211-216.	6.0	1,010
3	Digital cameras with designs inspired by the arthropod eye. <i>Nature</i> , 2013, 497, 95-99.	13.7	926
4	Soft network composite materials with deterministic and bio-inspired designs. <i>Nature Communications</i> , 2015, 6, 6566.	5.8	392
5	Human eye-inspired soft optoelectronic device using high-density MoS <sub>2</sub> -graphene curved image sensor array. <i>Nature Communications</i> , 2017, 8, 1664.	5.8	381
6	Self-assembled three dimensional network designs for soft electronics. <i>Nature Communications</i> , 2017, 8, 15894.	5.8	325
7	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. <i>Nature Communications</i> , 2014, 5, 4779.	5.8	309
8	Experimental and Theoretical Studies of Serpentine Microstructures Bonded To Prestrained Elastomers for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2014, 24, 2028-2037.	7.8	273
9	Multifunctional Skin-Like Electronics for Quantitative, Clinical Monitoring of Cutaneous Wound Healing. <i>Advanced Healthcare Materials</i> , 2014, 3, 1597-1607.	3.9	226
10	Curved neuromorphic image sensor array using a MoS <sub>2</sub> -organic heterostructure inspired by the human visual recognition system. <i>Nature Communications</i> , 2020, 11, 5934.	5.8	182
11	Bioinspired Artificial Eyes: Optic Components, Digital Cameras, and Visual Prostheses. <i>Advanced Functional Materials</i> , 2018, 28, 1705202.	7.8	174
12	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , 2017, 27, 1605286.	7.8	151
13	Bioinspired Parabola Subwavelength Structures for Improved Broadband Antireflection. <i>Small</i> , 2010, 6, 984-987.	5.2	150
14	Nano-tailoring the Surface Structure for the Monolithic High-Performance Antireflection Polymer Film. <i>Advanced Materials</i> , 2010, 22, 3713-3718.	11.1	144
15	Antireflective submicrometer gratings on thin-film silicon solar cells for light-absorption enhancement. <i>Optics Letters</i> , 2010, 35, 276.	1.7	116
16	Colored, Daytime Radiative Coolers with Thin-Film Resonators for Aesthetic Purposes. <i>Advanced Optical Materials</i> , 2018, 6, 1800707.	3.6	116
17	A Janus emitter for passive heat release from enclosures. <i>Science Advances</i> , 2020, 6, .	4.7	116
18	Edible unclonable functions. <i>Nature Communications</i> , 2020, 11, 328.	5.8	116

#	ARTICLE	IF	CITATIONS
19	Design of highly transparent glasses with broadband antireflective subwavelength structures. <i>Optics Express</i> , 2010, 18, 13063.	1.7	102
20	An aquatic-vision-inspired camera based on a monocentric lens and a silicon nanorod photodiode array. <i>Nature Electronics</i> , 2020, 3, 546-553.	13.1	100
21	Closely packed and aspect-ratio-controlled antireflection subwavelength gratings on GaAs using a lenslike shape transfer. <i>Optics Letters</i> , 2009, 34, 1702.	1.7	77
22	Disordered-nanoparticle-based etalon for ultrafast humidity-responsive colorimetric sensors and anti-counterfeiting displays. <i>Science Advances</i> , 2022, 8, eabm8598.	4.7	77
23	Dopant-Free, Amorphous-Crystalline Heterophase SnO <sub>2</sub> Electron Transport Bilayer Enables >20% Efficiency in Triple-Cation Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2001559.	7.8	72
24	Disordered antireflective nanostructures on GaN-based light-emitting diodes using Ag nanoparticles for improved light extraction efficiency. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	68
25	Light-extraction enhancement of red AlGaInP light-emitting diodes with antireflective subwavelength structures. <i>Optics Express</i> , 2009, 17, 20991.	1.7	59
26	Efficient Light Absorption by GaN Truncated Nanocones for High Performance Water Splitting Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 28672-28678.	4.0	57
27	Flexible Vertical Light Emitting Diodes. <i>Small</i> , 2012, 8, 3123-3128.	5.2	54
28	Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Long-Term Electrophysiological Recording. <i>Advanced Functional Materials</i> , 2016, 26, 7281-7290.	7.8	53
29	Bio-Inspired Artificial Vision and Neuromorphic Image Processing Devices. <i>Advanced Materials Technologies</i> , 2022, 7, 2100144.	3.0	53
30	Multifunctional light escaping architecture inspired by compound eye surface structures: From understanding to experimental demonstration. <i>Optics Express</i> , 2011, 19, A157.	1.7	51
31	Enhanced power generation in concentrated photovoltaics using broadband antireflective coverglasses with moth eye structures. <i>Optics Express</i> , 2012, 20, A916.	1.7	50
32	Outdoor-Useable, Wireless/Battery-Free Patch-Type Tissue Oximeter with Radiative Cooling. <i>Advanced Science</i> , 2021, 8, 2004885.	5.6	50
33	Biomimetic artificial Si compound eye surface structures with broadband and wide-angle antireflection properties for Si-based optoelectronic applications. <i>Nanoscale</i> , 2013, 5, 10455.	2.8	49
34	Localized Delivery of Theranostic Nanoparticles and High-Energy Photons using Microneedles on Bioelectronics. <i>Advanced Materials</i> , 2021, 33, e2100425.	11.1	43
35	Broadband wide-angle antireflection enhancement in AZO/Si shell/core subwavelength grating structures with hydrophobic surface for Si-based solar cells. <i>Optics Express</i> , 2011, 19, A1155.	1.7	42
36	Plasmonic Silver Nanoparticle-Impregnated Nanocomposite BiVO <sub>4</sub> Photoanode for Plasmon-Enhanced Photocatalytic Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7088-7093.	1.5	42

#	ARTICLE	IF	CITATIONS
37	Stretchable colour-sensitive quantum dot nanocomposites for shape-tunable multiplexed phototransistor arrays. <i>Nature Nanotechnology</i> , 2022, 17, 849-856.	15.6	42
38	Ultra-thin films with highly absorbent porous media fine-tunable for coloration and enhanced color purity. <i>Nanoscale</i> , 2017, 9, 2986-2991.	2.8	41
39	Revisiting silk: a lens-free optical physical unclonable function. <i>Nature Communications</i> , 2022, 13, 247.	5.8	41
40	Antireflective characteristics of disordered GaAs subwavelength structures by thermally dewetted Au nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 669-676.	3.0	40
41	An amphibious artificial vision system with a panoramic visual field. <i>Nature Electronics</i> , 2022, 5, 452-459.	13.1	40
42	Flexible, Large-Area Covert Polarization Display Based on Ultrathin Lossy Nanocolumns on a Metal Film. <i>Advanced Functional Materials</i> , 2020, 30, 1908592.	7.8	39
43	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , 2018, 12, 4164-4171.	7.3	36
44	Broadband antireflective germanium surfaces based on subwavelength structures for photovoltaic cell applications. <i>Optics Express</i> , 2011, 19, 26308.	1.7	35
45	Antireflective silicon nanostructures with hydrophobicity by metal-assisted chemical etching for solar cell applications. <i>Nanoscale Research Letters</i> , 2013, 8, 159.	3.1	34
46	COMPU-EYE: a high resolution computational compound eye. <i>Optics Express</i> , 2016, 24, 2013.	1.7	34
47	Dry Transient Electronic Systems by Use of Materials that Sublime. <i>Advanced Functional Materials</i> , 2017, 27, 1606008.	7.8	34
48	High-performance, color-tunable fiber shaped organic light-emitting diodes. <i>Nanoscale</i> , 2018, 10, 16184-16192.	2.8	33
49	Effect of etching parameters on antireflection properties of Si subwavelength grating structures for solar cell applications. <i>Applied Physics B: Lasers and Optics</i> , 2010, 100, 891-896.	1.1	32
50	Implantation of electronic visual prosthesis for blindness restoration. <i>Optical Materials Express</i> , 2019, 9, 3878.	1.6	32
51	Antireflective property of thin film a-Si solar cell structures with graded refractive index structure. <i>Optics Express</i> , 2011, 19, A108.	1.7	31
52	Large area fabrication of engineered microlens array with low sag height for light-field imaging. <i>Optics Express</i> , 2019, 27, 4435.	1.7	30
53	Highly tolerant a-Si distributed Bragg reflector fabricated by oblique angle deposition. <i>Optical Materials Express</i> , 2011, 1, 451.	1.6	28
54	Large-Area Virus Coated Ultrathin Colorimetric Sensors with a Highly Lossy Resonant Promoter for Enhanced Chromaticity. <i>Advanced Science</i> , 2020, 7, 2000978.	5.6	28

#	ARTICLE	IF	CITATIONS
55	Thermal analysis of asymmetric intracavity-contacted oxide-aperture VCSELs for efficient heat dissipation. <i>Solid-State Electronics</i> , 2009, 53, 1086-1091.	0.8	27
56	Wafer-scale broadband antireflective silicon fabricated by metal-assisted chemical etching using spin-coating Ag ink. <i>Optics Express</i> , 2011, 19, A1109.	1.7	27
57	Six-fold hexagonal symmetric nanostructures with various periodic shapes on GaAs substrates for efficient antireflection and hydrophobic properties. <i>Nanotechnology</i> , 2011, 22, 485304.	1.3	26
58	Antireflective properties of AZO subwavelength gratings patterned by holographic lithography. <i>Applied Physics B: Lasers and Optics</i> , 2010, 99, 695-700.	1.1	25
59	Thermal measurements and analysis of AlGaInP/GaInP MQW red LEDs with different chip sizes and substrate thicknesses. <i>Solid-State Electronics</i> , 2011, 56, 79-84.	0.8	25
60	Bimetallic non-alloyed NPs for improving the broadband optical absorption of thin amorphous silicon substrates. <i>Nanoscale Research Letters</i> , 2014, 9, 181.	3.1	25
61	Thin Metallic Heat Sink for Interfacial Thermal Management in Biointegrated Optoelectronic Devices. <i>Advanced Materials Technologies</i> , 2018, 3, 1800159.	3.0	25
62	Miniaturized 3D Depth Sensing-Based Smartphone Light Field Camera. <i>Sensors</i> , 2020, 20, 2129.	2.1	25
63	A methodological review on material growth and synthesis of solar-driven water splitting photoelectrochemical cells. <i>RSC Advances</i> , 2019, 9, 30112-30124.	1.7	24
64	Nanoporous GaN/n-type GaN: A Cathode Structure for ITO-Free Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020, 5, 3295-3303.	8.8	23
65	Antireflective properties of porous Si nanocolumnar structures with graded refractive index layers. <i>Optics Letters</i> , 2011, 36, 253.	1.7	22
66	Robustly nano-tailored honeycomb structure for high-throughput antireflection polymer films. <i>Journal of Materials Chemistry</i> , 2012, 22, 17037.	6.7	22
67	Disordered submicron structures integrated on glass substrate for broadband absorption enhancement of thin-film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 101, 73-78.	3.0	22
68	Instant, multiscale dry transfer printing by atomic diffusion control at heterogeneous interfaces. <i>Science Advances</i> , 2021, 7, .	4.7	22
69	A review of tunable photonics: Optically active materials and applications from visible to terahertz. <i>IScience</i> , 2022, 25, 104727.	1.9	22
70	Robustness of an artificially tailored fisheye imaging system with a curvilinear image surface. <i>Optics and Laser Technology</i> , 2017, 96, 50-57.	2.2	21
71	Mechanically robust antireflective moth-eye structures with a tailored coating of dielectric materials. <i>Optical Materials Express</i> , 2019, 9, 4178.	1.6	21
72	Geometrical shape design of nanophotonic surfaces for thin film solar cells. <i>Optics Express</i> , 2016, 24, A1033.	1.7	20

#	ARTICLE	IF	CITATIONS
73	Mechanotunable optical filters based on stretchable silicon nanowire arrays. <i>Nanophotonics</i> , 2020, 9, 3287-3293.	2.9	20
74	Fabrication and analysis of thin-film GaAs solar cell on flexible thermoplastic substrate using a low-pressure cold-welding. <i>Current Applied Physics</i> , 2015, 15, 1312-1317.	1.1	19
75	Reflective color filter with precise control of the color coordinate achieved by stacking silicon nanowire arrays onto ultrathin optical coatings. <i>Scientific Reports</i> , 2019, 9, 3350.	1.6	19
76	Standard red green blue (sRGB) color representation with a tailored dual-resonance mode in metal/dielectric stacks. <i>Optical Materials Express</i> , 2019, 9, 3342.	1.6	19
77	Determining the Effectiveness of Radiative Cooler-Integrated Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	19
78	Antireflective grassy surface on glass substrates with self-masked dry etching. <i>Nanoscale Research Letters</i> , 2013, 8, 505.	3.1	18
79	Enlarged Color Gamut Representation Enabled by Transferable Silicon Nanowire Arrays on Metal-Insulator-Metal Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 11849-11856.	4.0	18
80	Spectrally and Spatially Selective Emitters Using Polymer Hybrid Sp spoof Plasmonics. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 53206-53214.	4.0	18
81	Fabrication of an oxide/metal/oxide structured electrode integrated with antireflective film to enhance performance in flexible organic light-emitting diodes. <i>Materials Today Energy</i> , 2021, 20, 100704.	2.5	18
82	Perovskite microcells fabricated using swelling-induced crack propagation for colored solar windows. <i>Nature Communications</i> , 2022, 13, 1946.	5.8	18
83	Self-Cooling Gallium-Based Transformative Electronics with a Radiative Cooler for Reliable Stiffness Tuning in Outdoor Use. <i>Advanced Science</i> , 2022, 9, .	5.6	17
84	Broadband Antireflective Glasses with Subwavelength Structures Using Randomly Distributed Ag Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 6152-6156.	0.9	16
85	Super-Antireflective Structure Films with Precisely Controlled Refractive Index Profile. <i>Advanced Optical Materials</i> , 2017, 5, 1600616.	3.6	16
86	Recent advances in imaging systems and photonic nanostructures inspired by insect eye geometry. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 112-128.	3.4	16
87	High-Identical Numerical Aperture, Multifocal Microlens Array through Single-Step Multi-Sized Hole Patterning Photolithography. <i>Micromachines</i> , 2020, 11, 1068.	1.4	16
88	Dual-Mode Colorimetric Sensor Based on Ultrathin Resonating Facilitator Capable of Nanometer-Thick Virus Detection for Environment Monitoring. <i>ACS Applied Nano Materials</i> , 2020, 3, 6636-6644.	2.4	16
89	Microlens fabrication by selective oxidation of composition-graded digital alloy AlGaAs. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 121-123.	1.3	15
90	Heat-shedding with photonic structures: radiative cooling and its potential. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9915-9937.	2.7	15

#	ARTICLE	IF	CITATIONS
91	Investigation of geometrical effects of antireflective subwavelength grating structures for optical device applications. <i>Optical and Quantum Electronics</i> , 2009, 41, 771-777.	1.5	14
92	A single-material graded refractive index layer for improving the efficiency of III-V triple-junction solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7235-7240.	5.2	14
93	Parametric Optimization of Lateral NIPIN Phototransistors for Flexible Image Sensors. <i>Sensors</i> , 2017, 17, 1774.	2.1	14
94	Double-Sided Anti-Reflection Nanostructures on Optical Convex Lenses for Imaging Applications. <i>Coatings</i> , 2019, 9, 404.	1.2	14
95	Recent Advances in Vertically Aligned Nanowires for Photonics Applications. <i>Micromachines</i> , 2020, 11, 726.	1.4	14
96	Characterization of Nanomaterials by Locally Determining Their Complex Permittivity with Scattering-Type Scanning Near-Field Optical Microscopy. <i>ACS Applied Nano Materials</i> , 2020, 3, 1250-1262.	2.4	14
97	Enhanced Light Harvesting in Photovoltaic Devices Using an Edge-Located One-Dimensional Grating Polydimethylsiloxane Membrane. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36020-36026.	4.0	13
98	NFC-Based Wearable Optoelectronics Working with Smartphone Application for Untact Healthcare. <i>Sensors</i> , 2021, 21, 878.	2.1	13
99	Design of ZnS antireflective microstructures for mid- and far-infrared applications. <i>Optical and Quantum Electronics</i> , 2015, 47, 1503-1508.	1.5	12
100	Large-area grain-boundary-free copper films for plasmonics. <i>Applied Surface Science</i> , 2020, 521, 146377.	3.1	12
101	Circumferential Immunoassay Platform for Label-Free Bright-Field Imaging and Facile Quantification of Bioparticles. <i>Advanced Materials</i> , 2022, 34, e2110003.	11.1	12
102	Increased Light Extraction From GaN Light-Emitting Diodes by $\text{SiN}_x$ Compound Eyes. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1118-1121.	1.3	11
103	Mapping the structural, electrical, and optical properties of hydrothermally grown phosphorus-doped ZnO nanorods for optoelectronic device applications. <i>Nanoscale Research Letters</i> , 2019, 14, 110.	3.1	11
104	Design and Fabrication of Microscale, Thin-Film Silicon Solid Immersion Lenses for Mid-Infrared Application. <i>Micromachines</i> , 2020, 11, 250.	1.4	11
105	Thermostat property of Janus emitter in enclosures. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111173.	3.0	11
106	Precise etch-depth control of microlens-integrated intracavity contacted vertical-cavity surface-emitting lasers by in-situ laser reflectometry and reflectivity modeling. <i>Thin Solid Films</i> , 2009, 517, 5773-5778.	0.8	10
107	Efficiency Enhancement of III-V Triple-Junction Solar Cell Using Nanostructured Bifunctional Coverglass With Enhanced Transmittance and Self-Cleaning Property. <i>IEEE Photonics Journal</i> , 2014, 6, 1-9.	1.0	10
108	Ultra-thin and near-unity selective emitter for efficient cooling. <i>Optics Express</i> , 2021, 29, 31364.	1.7	10

#	ARTICLE	IF	CITATIONS
109	Stable single-mode operation of VCSELs with a mode selective aperture. Applied Physics B: Lasers and Optics, 2007, 89, 231-234.	1.1	9
110	Size-dependent optical behavior of disordered nanostructures on glass substrates. Applied Optics, 2012, 51, 5890.	0.9	9
111	Optimal design of nano-scale surface light trapping structures for enhancing light absorption in thin film photovoltaics. Journal of Applied Physics, 2013, 114, 024305.	1.1	9
112	Optical Design of Porous ZnO/TiO <sub>2</sub> Films for Highly Transparent Glasses with Broadband Ultraviolet Protection. Journal of Nanomaterials, 2017, 2017, 1-8.	1.5	9
113	Selective and Sensitive Photon Sieve Based on III-V Semiconductor Nanowire Forest Fabricated by Lithography-Free Process. Advanced Optical Materials, 2020, 8, 2000198.	3.6	9
114	Colored, Covert Infrared Display through Hybrid Planar Plasmonic Cavities. Advanced Optical Materials, 2021, 9, 2100429.	3.6	9
115	Vari-Focal Light Field Camera for Extended Depth of Field. Micromachines, 2021, 12, 1453.	1.4	9
116	Self-Aligned Microlens-Integrated Vertical-Cavity Surface-Emitting Lasers. IEEE Photonics Technology Letters, 2006, 18, 2203-2205.	1.3	8
117	Artificial Eyes: Bioinspired Artificial Eyes: Optic Components, Digital Cameras, and Visual Prostheses (Adv. Funct. Mater. 24/2018). Advanced Functional Materials, 2018, 28, 1870168.	7.8	8
118	Functional photonic structures for external interaction with flexible/wearable devices. Nano Research, 2021, 14, 2904-2918.	5.8	8
119	Structural and optical properties of silicon by tilted angle evaporation. Surface and Coatings Technology, 2010, 205, S447-S450.	2.2	7
120	Hydrophobic and antireflective characteristics of thermally oxidized periodic Si surface nanostructures. Applied Physics B: Lasers and Optics, 2012, 107, 409-414.	1.1	7
121	Shape-controllable, bottom-up fabrication of microlens using oblique angle deposition. Optics Letters, 2016, 41, 3328.	1.7	7
122	Single-Material, Near-Infrared Selective Absorber Based on Refractive Index-Tunable Tamm Plasmon Structure. Advanced Optical Materials, 2022, 10, 2102388.	3.6	7
123	Spatially-Segmented Colored Radiative Cooler With Angle-Robustness. IEEE Photonics Journal, 2022, 14, 1-6.	1.0	7
124	Disordered Antireflective Subwavelength Structures Using Ag Nanoparticles for GaN-Based Optical Device Applications. Journal of Nanoscience and Nanotechnology, 2011, 11, 1342-1345.	0.9	6
125	RCEPD With Enhanced Light Absorption by Crown-Shaped Quantum Well. IEEE Photonics Technology Letters, 2015, 27, 2047-2050.	1.3	6
126	Enhanced power generation in concentrated photovoltaics using broadband antireflective coverglasses with moth eye structures. Optics Express, 2012, 20, A916-23.	1.7	6



#	ARTICLE	IF	CITATIONS
127	Theoretical analysis and experiment of subwavelength structure-integrated red AlGaInP light-emitting diodes for uniform field distribution and enhanced light extraction efficiency. <i>AIP Advances</i> , 2016, 6, 035104.	0.6	5
128	4 channel Å– 10 Gb/s bidirectional optical subassembly using silicon optical bench with precise passive optical alignment. <i>Optics Express</i> , 2016, 24, 10777.	1.7	5
129	Multilayer selective passive daytime radiative cooler optimization utilizing memetic algorithm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 272, 107774.	1.1	5
130	A Wide Field-of-View Light-Field Camera with Adjustable Multiplicity for Practical Applications. <i>Sensors</i> , 2022, 22, 3455.	2.1	5
131	Improved light extraction efficiency of GaN-based vertical LEDs using hierarchical micro/subwavelength structures. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 06FH02.	0.8	4
132	Improved Light Absorption of GaInP/GaAs/Ge Solar Cell Modules With Micro/Nanoengineered Coverglasses. <i>IEEE Journal of Photovoltaics</i> , 2015, 5, 1130-1136.	1.5	4
133	The Facile Implementation of Soft/Tunable Multiband Optical Filters by Stacking Vertical Silicon Nanowire Arrays for Smart Sensing. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900072.	3.3	4
134	3D super-resolved imaging in live cells using sub-diffractive plasmonic localization of hybrid nanopillar arrays. <i>Nanophotonics</i> , 2020, 9, 2847-2859.	2.9	4
135	Influence of etching process parameters on the antireflection property of Si SWSs by thermally dewetted Ag and Ag/SiO <sub>2</sub> nanopatterns. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1902-1907.	0.8	3
136	Arthropod eye-inspired digital camera with unique imaging characteristics. , 2014, , .		3
137	Comparison of Fabrication Methods Based on Nanoimprinting Lithography for Plasmonic Color Filter Fabrication. <i>Plasmonics</i> , 2020, 15, 941-948.	1.8	3
138	High-speed characteristics of vertical cavity surface emitting lasers and resonant-cavity-enhanced photodetectors based on intracavity-contacted structure. <i>Applied Optics</i> , 2009, 48, F11.	2.1	3
139	Bio-inspired and bio-integrated photonic materials and devices: feature issue introduction. <i>Optical Materials Express</i> , 2020, 10, 155.	1.6	3
140	Annealing-based manipulation of thermal phonon transport from light-emitting diodes to graphene. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	3
141	High speed intracavity-contacted vertical cavity surface emitting lasers with separated quantum wells. <i>Optical and Quantum Electronics</i> , 2008, 40, 1219-1225.	1.5	2
142	Low thermal resistance, high-speed 980 nm asymmetric intracavity-contacted oxide-aperture VCSELs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1631-1635.	0.8	2
143	Effect of Al-doped ZnO film thickness on periodic GaAs subwavelength grating structures for photovoltaic device applications. <i>Materials Research Bulletin</i> , 2012, 47, 2884-2887.	2.7	2
144	Recent Approaches for Broadening the Spectral Bandwidth in Resonant Cavity Optoelectronic Devices. <i>Advances in Condensed Matter Physics</i> , 2015, 2015, 1-11.	0.4	2

#	ARTICLE	IF	CITATIONS
145	Reflective displacement sensors with monolithically integrated VCSELs and RCEPDs. Electronics Letters, 2015, 51, 782-783.	0.5	2
146	Optoelectronic devices for smart healthcare applications. Annals of Hepato-biliary-pancreatic Surgery, 2021, 25, S28-S28.	0.1	2
147	Design of Bio-Inspired Morpho Butterfly Structures for Optical Sensor Applications. Journal of the Korean Society for Precision Engineering, 2016, 33, 357-362.	0.1	2
148	Determining the Effectiveness of Radiative Cooler-Integrated Solar Cells (Adv. Energy Mater. 10/2022). Advanced Energy Materials, 2022, 12, .	10.2	2
149	Parametric Studies on Artificial Morpho Butterfly Wing Scales for Optical Device Applications. Journal of Nanomaterials, 2015, 2015, 1-7.	1.5	1
150	Luminescent coverglass for improved absorption efficiency in III-V photovoltaic modules. Electronics Letters, 2016, 52, 1891-1892.	0.5	1
151	Design of Microdisk-Shaped Ge on Si Photodetector with Recess Structure for Refractive-Index Sensing. Sensors, 2019, 19, 5253.	2.1	1
152	High-resolution artificial compound eye camera: a proof-of-concept study. , 2021, , .		1
153	Colored, Covert Infrared Display through Hybrid Planar Plasmonic Cavities (Advanced Optical) Tj ETQq1 1 0.784314 rgBT /Overlock 3.6 1		
154	Fabrication of Disordered Subwavelength Structures on Curved Surfaces by Using a Thermal Dewetting Process. Applied Science and Convergence Technology, 2015, 24, 172-177.	0.3	1
155	Alignment tolerant bi-directional optical interconnects using microlens integrated VCSEL/RCEPD arrays. , 2007, , .		0
156	Recent Advances of VCSEL technology at GIST. , 2007, , .		0
157	Various Shaped Semiconductor Microlens Arrays Fabricated by Selective Oxidation of AlGaAs. IEEE Photonics Technology Letters, 2009, 21, 1465-1467.	1.3	0
158	Design and fabrication of nanoscale antireflection structures with linearly graded refractive index. , 2010, , .		0
159	Biomimetic optic designs for advanced optoelectronics. , 2014, , .		0
160	Flexible forms of moth eye structures and their applications. , 2015, , .		0
161	Electrodes: Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Long-Term Electrophysiological Recording (Adv. Funct. Mater. 40/2016). Advanced Functional Materials, 2016, 26, 7280-7280.	7.8	0
162	Transient Electronics: Dry Transient Electronic Systems by Use of Materials that Sublime (Adv. Funct.) Tj ETQq0 0 0, rgBT /Overlock 10 Tf 7.8 0		

#	ARTICLE	IF	CITATIONS
163	Fabrication of Ultra-thin Color Films with Highly Absorbing Media Using Oblique Angle Deposition. Journal of Visualized Experiments, 2017, , .	0.2	0
164	Fabrication of Flexible Image Sensor Based on Lateral NIPIN Phototransistors. Journal of Visualized Experiments, 2018, , .	0.2	0
165	Reflective Color Filters with Enlarged Color Gamut Enabled by Stacking Silicon Nanowires on Thin-film Coatings. , 2019, , .		0
166	Photon Sieving: Selective and Sensitive Photon Sieve Based on III-V Semiconductor Nanowire Forest Fabricated by Lithography-Free Process (Advanced Optical Materials 17/2020). Advanced Optical Materials, 2020, 8, 2070070.	3.6	0
167	Iridescent Retroreflective Structural Color Based on Micro Concavity Array. , 2021, , .		0
168	Lossless and Optical Physically Unclonable Function with Fibrous Media. , 2021, , .		0
169	Fabrication of Gallium Phosphide Tapered Nanostructures on Selective Surfaces. Applied Science and Convergence Technology, 2014, 23, 284-288.	0.3	0
170	Parametric Studies on Wide Field of View Imaging Systems with Curved Image Sensors. , 2017, , .		0
171	Fine Tuning of Reflective Colors by Introducing Porosity in Ultra-thin Lossy Films. , 2017, , .		0
172	Polarization Sensitive Ultra-thin Color Filter with Highly Structured Nano-column. , 2019, , .		0
173	Enhanced Color Purities for Additive Colors Enabled by 1D Metal-insulator Resonator. , 2019, , .		0
174	Quantitative imaging of advanced nanostructured materials with scattering-type scanning near field optical microscopy. , 2019, , .		0
175	Covert polarization display based on ultra-thin lossy nanocolumns with wide color selectivity. , 2020, , .		0
176	Stacked focal plane light field imaging system based on multi-focus microlens array. , 2020, , .		0
177	Ultra-slim, wide field-of-view single lens cameras with designs inspired by an aquatic animal. , 2020, , .		0
178	Virus-based ultra-thin film colorimetric sensors for enhanced chromaticity. , 2020, , .		0
179	Editorial for the Topic on Micromachining for Advanced Biological Imaging. Micromachines, 2022, 13, 474.	1.4	0
180	Single-Material, Near-Infrared Selective Absorber Based on Refractive Index-Tunable Tamm Plasmon Structure (Advanced Optical Materials 6/2022). Advanced Optical Materials, 2022, 10, .	3.6	0