

# Young Min Song

## 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.

152  
papers

6,469  
citations

33  
h-index

78  
g-index

187  
ext. papers

7,715  
ext. citations

7.7  
avg, IF

5.63  
L-index

#	Paper	IF	Citations
152	Revisiting silk: a lens-free optical physical unclonable function.. <i>Nature Communications</i> , <b>2022</b> , 13, 247	17.4	7
151	Disordered-nanoparticle-based etalon for ultrafast humidity-responsive colorimetric sensors and anti-counterfeiting displays.. <i>Science Advances</i> , <b>2022</b> , 8, eabm8598	14.3	13
150	Determining the Effectiveness of Radiative Cooler-Integrated Solar Cells (Adv. Energy Mater. 10/2022). <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2270040	21.8	
149	Gires-Tournois immunoassay platform for label-free bright-field imaging and facile quantification of bioparticles.. <i>Advanced Materials</i> , <b>2022</b> , e2110003	24	3
148	Single-Material, Near-Infrared Selective Absorber Based on Refractive Index-Tunable Tamm Plasmon Structure (Advanced Optical Materials 6/2022). <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2270022	8.1	
147	Spatially-Segmented Colored Radiative Cooler With Angle-Robustness. <i>IEEE Photonics Journal</i> , <b>2022</b> , 14, 1-6	1.8	1
146	Determining the Effectiveness of Radiative Cooler-Integrated Solar Cells. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103258	21.8	5
145	Perovskite microcells fabricated using swelling-induced crack propagation for colored solar windows.. <i>Nature Communications</i> , <b>2022</b> , 13, 1946	17.4	3
144	Outdoor-Useable, Wireless/Battery-Free Patch-Type Tissue Oximeter with Radiative Cooling. <i>Advanced Science</i> , <b>2021</b> , 8, 2004885	13.6	21
143	Functional photonic structures for external interaction with flexible/wearable devices. <i>Nano Research</i> , <b>2021</b> , 14, 2904-2918	10	2
142	Localized Delivery of Theranostic Nanoparticles and High-Energy Photons using Microneedles-on-Bioelectronics. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100425	24	15
141	Colored, Covert Infrared Display through Hybrid Planar-Plasmonic Cavities. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100429	8.1	1
140	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> , <b>2021</b> , 20, 1007047		6
139	Optoelectronic devices for smart healthcare applications. <i>Annals of Hepato-biliary-pancreatic Surgery</i> , <b>2021</b> , 25, S28-S28	1.5	1
138	Instant, multiscale dry transfer printing by atomic diffusion control at heterogeneous interfaces. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	4
137	NFC-Based Wearable Optoelectronics Working with Smartphone Application for Untact Healthcare. <i>Sensors</i> , <b>2021</b> , 21,	3.8	5
136	Thermostat property of Janus emitter in enclosures. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 230, 111173	6.4	6

135	Ultra-thin and near-unity selective emitter for efficient cooling. <i>Optics Express</i> , <b>2021</b> , 29, 31364-31375	3.3	4
134	Multilayer selective passive daytime radiative cooler optimization utilizing memetic algorithm. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2021</b> , 272, 107774	2.1	1
133	Colored, Covert Infrared Display through Hybrid Planar-Plasmonic Cavities (Advanced Optical Materials 17/2021). <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2170065	8.1	
132	Annealing-based manipulation of thermal phonon transport from light-emitting diodes to graphene. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 244303	2.5	1
131	An aquatic-vision-inspired camera based on a monocentric lens and a silicon nanorod photodiode array. <i>Nature Electronics</i> , <b>2020</b> , 3, 546-553	28.4	45
130	Selective and Sensitive Photon Sieve Based on III-V Semiconductor Nanowire Forest Fabricated by Lithography-Free Process. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000198	8.1	5
129	Dual-Mode Colorimetric Sensor Based on Ultrathin Resonating Facilitator Capable of Nanometer-Thick Virus Detection for Environment Monitoring. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6638-6644 <sup>6</sup>	5.6	6
128	Design and Fabrication of Microscale, Thin-Film Silicon Solid Immersion Lenses for Mid-Infrared Application. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	7
127	Characterization of Nanomaterials by Locally Determining Their Complex Permittivity with Scattering-Type Scanning Near-Field Optical Microscopy. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 1250-1262 <sup>5.6</sup>	5.6	11
126	Edible unclonable functions. <i>Nature Communications</i> , <b>2020</b> , 11, 328	17.4	58
125	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> , <b>2020</b> , 30, 2001559	15.6	45
124	Miniaturized 3D Depth Sensing-Based Smartphone Light Field Camera. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8
123	Large-area grain-boundary-free copper films for plasmonics. <i>Applied Surface Science</i> , <b>2020</b> , 521, 146377	6.7	5
122	Bio-inspired and bio-integrated photonic materials and devices: feature issue introduction. <i>Optical Materials Express</i> , <b>2020</b> , 10, 155	2.6	2
121	Mechanotunable optical filters based on stretchable silicon nanowire arrays. <i>Nanophotonics</i> , <b>2020</b> , 9, 3287-3293	6.3	10
120	3D super-resolved imaging in live cells using sub-diffractive plasmonic localization of hybrid nanopillar arrays. <i>Nanophotonics</i> , <b>2020</b> , 9, 2847-2859	6.3	2
119	Flexible, Large-Area Covert Polarization Display Based on Ultrathin Lossy Nanocolumns on a Metal Film. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908592	15.6	18
118	Comparison of Fabrication Methods Based on Nanoimprinting Lithography for Plasmonic Color Filter Fabrication. <i>Plasmonics</i> , <b>2020</b> , 15, 941-948	2.4	1

117	Curved neuromorphic image sensor array using a MoS-organic heterostructure inspired by the human visual recognition system. <i>Nature Communications</i> , <b>2020</b> , 11, 5934	17.4	60
116	High-Identical Numerical Aperture, Multifocal Microlens Array through Single-Step Multi-Sized Hole Patterning Photolithography. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	3
115	Spectrally and Spatially Selective Emitters Using Polymer Hybrid Spoof Plasmonics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 53206-53214	9.5	7
114	Large-Area Virus Coated Ultrathin Colorimetric Sensors with a Highly Lossy Resonant Promoter for Enhanced Chromaticity. <i>Advanced Science</i> , <b>2020</b> , 7, 2000978	13.6	15
113	Recent Advances in Vertically Aligned Nanowires for Photonics Applications. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	3
112	A emitter for passive heat release from enclosures. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	43
111	Nanoporous GaN/n-type GaN: A Cathode Structure for ITO-Free Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 3295-3303	20.1	6
110	Photon Sieving: Selective and Sensitive Photon Sieve Based on III-V Semiconductor Nanowire Forest Fabricated by Lithography-Free Process (Advanced Optical Materials 17/2020). <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2070070	8.1	
109	Mapping the structural, electrical, and optical properties of hydrothermally grown phosphorus-doped ZnO nanorods for optoelectronic device applications. <i>Nanoscale Research Letters</i> , <b>2019</b> , 14, 110	5	5
108	Enhanced Light Harvesting in Photovoltaic Devices Using an Edge-Located One-Dimensional Grating Polydimethylsiloxane Membrane. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 36020-36026	9.5	8
107	Enlarged Color Gamut Representation Enabled by Transferable Silicon Nanowire Arrays on Metal-Insulator-Metal Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 11849-11856	9.5	14
106	Reflective color filter with precise control of the color coordinate achieved by stacking silicon nanowire arrays onto ultrathin optical coatings. <i>Scientific Reports</i> , <b>2019</b> , 9, 3350	4.9	13
105	Double-Sided Anti-Reflection Nanostructures on Optical Convex Lenses for Imaging Applications. <i>Coatings</i> , <b>2019</b> , 9, 404	2.9	9
104	Large area fabrication of engineered microlens array with low sag height for light-field imaging. <i>Optics Express</i> , <b>2019</b> , 27, 4435-4444	3.3	17
103	Standard red green blue (sRGB) color representation with a tailored dual-resonance mode in metal/dielectric stacks. <i>Optical Materials Express</i> , <b>2019</b> , 9, 3342	2.6	13
102	Implantation of electronic visual prosthesis for blindness restoration. <i>Optical Materials Express</i> , <b>2019</b> , 9, 3878	2.6	13
101	Mechanically robust antireflective moth-eye structures with a tailored coating of dielectric materials. <i>Optical Materials Express</i> , <b>2019</b> , 9, 4178	2.6	16
100	The Facile Implementation of Soft/Tunable Multiband Optical Filters by Stacking Vertical Silicon Nanowire Arrays for Smart Sensing. <i>Advanced Intelligent Systems</i> , <b>2019</b> , 1, 1900072	6	3

99	A methodological review on material growth and synthesis of solar-driven water splitting photoelectrochemical cells.. <i>RSC Advances</i> , <b>2019</b> , 9, 30112-30124	3.7	12
98	Three-Dimensional Silicon Electronic Systems Fabricated by Compressive Buckling Process. <i>ACS Nano</i> , <b>2018</b> , 12, 4164-4171	16.7	23
97	Bioinspired Artificial Eyes: Optic Components, Digital Cameras, and Visual Prostheses. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705202	15.6	104
96	Plasmonic Silver Nanoparticle-Impregnated Nanocomposite BiVO <sub>4</sub> Photoanode for Plasmon-Enhanced Photocatalytic Water Splitting. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 7088-7093	3.8	36
95	Recent advances in imaging systems and photonic nanostructures inspired by insect eye geometry. <i>Applied Spectroscopy Reviews</i> , <b>2018</b> , 53, 112-128	4.5	9
94	Efficient Light Absorption by GaN Truncated Nanocones for High Performance Water Splitting Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28672-28678	9.5	37
93	High-performance, color-tunable fiber shaped organic light-emitting diodes. <i>Nanoscale</i> , <b>2018</b> , 10, 16184-16192	1.5	25
92	Colored, Daytime Radiative Coolers with Thin-Film Resonators for Aesthetic Purposes. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1800707	8.1	65
91	Thin Metallic Heat Sink for Interfacial Thermal Management in Biointegrated Optoelectronic Devices. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1800159	6.8	17
90	Artificial Eyes: Bioinspired Artificial Eyes: Optic Components, Digital Cameras, and Visual Prostheses (Adv. Funct. Mater. 24/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870168	15.6	4
89	Dry Transient Electronic Systems by Use of Materials that Sublime. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606008	15.6	27
88	Robustness of an artificially tailored fisheye imaging system with a curvilinear image surface. <i>Optics and Laser Technology</i> , <b>2017</b> , 96, 50-57	4.2	9
87	Self-assembled three dimensional network designs for soft electronics. <i>Nature Communications</i> , <b>2017</b> , 8, 15894	17.4	238
86	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605286	15.6	121
85	Ultra-thin films with highly absorbent porous media fine-tunable for coloration and enhanced color purity. <i>Nanoscale</i> , <b>2017</b> , 9, 2986-2991	7.7	30
84	Optical Design of Porous ZnO/TiO <sub>2</sub> Films for Highly Transparent Glasses with Broadband Ultraviolet Protection. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-8	3.2	7
83	Human eye-inspired soft optoelectronic device using high-density MoS <sub>2</sub> -graphene curved image sensor array. <i>Nature Communications</i> , <b>2017</b> , 8, 1664	17.4	241
82	Artificially Engineered Compound Eye Sensing Systems <b>2017</b> , 157-174		3

81	Super-Antireflective Structure Films with Precisely Controlled Refractive Index Profile. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600616	8.1	14
80	Parametric Optimization of Lateral NIPIN Phototransistors for Flexible Image Sensors. <i>Sensors</i> , <b>2017</b> , 17,	3.8	10
79	4 channel 10 Gb/s bidirectional optical subassembly using silicon optical bench with precise passive optical alignment. <i>Optics Express</i> , <b>2016</b> , 24, 10777-85	3.3	4
78	Shape-controllable, bottom-up fabrication of microlens using oblique angle deposition. <i>Optics Letters</i> , <b>2016</b> , 41, 3328-30	3	5
77	Electrodes: Ferromagnetic, Folded Electrode Composite as a Soft Interface to the Skin for Long-Term Electrophysiological Recording (Adv. Funct. Mater. 40/2016). <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7280-7280	15.6	
76	COMPU-EYE: a high resolution computational compound eye. <i>Optics Express</i> , <b>2016</b> , 24, 2013-26	3.3	23
75	Design of Bio-Inspired Morpho Butterfly Structures for Optical Sensor Applications. <i>Journal of the Korean Society for Precision Engineering</i> , <b>2016</b> , 33, 357-362	0.3	2
74	Geometrical shape design of nanophotonic surfaces for thin film solar cells. <i>Optics Express</i> , <b>2016</b> , 24, A1033-44	3.3	17
73	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> , <b>2016</b> , 6, 035104	1.5	4
72	Ferromagnetic, folded electrode composite as a soft interface to the skin for long-term electrophysiological recording. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7281-7290	15.6	40
71	Luminescent coverglass for improved absorption efficiency in III-V photovoltaic modules. <i>Electronics Letters</i> , <b>2016</b> , 52, 1891-1892	1.1	1
70	Reflective displacement sensors with monolithically integrated VCSELs and RCEPDs. <i>Electronics Letters</i> , <b>2015</b> , 51, 782-783	1.1	2
69	Design of ZnS antireflective microstructures for mid- and far-infrared applications. <i>Optical and Quantum Electronics</i> , <b>2015</b> , 47, 1503-1508	2.4	10
68	Soft network composite materials with deterministic and bio-inspired designs. <i>Nature Communications</i> , <b>2015</b> , 6, 6566	17.4	289
67	RCEPD With Enhanced Light Absorption by Crown-Shaped Quantum Well. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 2047-2050	2.2	3
66	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> , <b>2015</b> , 3, 7235-7240	13	12
65	Fabrication and analysis of thin-film GaAs solar cell on flexible thermoplastic substrate using a low-pressure cold-welding. <i>Current Applied Physics</i> , <b>2015</b> , 15, 1312-1317	2.6	16
64	Improved light extraction efficiency of GaN-based vertical LEDs using hierarchical micro/subwavelength structures. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 06FH02	1.4	4

63	Recent Approaches for Broadening the Spectral Bandwidth in Resonant Cavity Optoelectronic Devices. <i>Advances in Condensed Matter Physics</i> , <b>2015</b> , 2015, 1-11	1	2
62	Parametric Studies on Artificial Morpho Butterfly Wing Scales for Optical Device Applications. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-7	3.2	1
61	Improved Light Absorption of GaInP/GaAs/Ge Solar Cell Modules With Micro/Nanoengineered Coverglasses. <i>IEEE Journal of Photovoltaics</i> , <b>2015</b> , 5, 1130-1136	3.7	4
60	Fabrication of Disordered Subwavelength Structures on Curved Surfaces by Using a Thermal Dewetting Process. <i>Applied Science and Convergence Technology</i> , <b>2015</b> , 24, 172-177	0.8	1
59	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> , <b>2014</b> , 6, 1-9	1.8	9
58	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. <i>Nature Communications</i> , <b>2014</b> , 5, 4779	17.4	245
57	Bimetallic non-alloyed NPs for improving the broadband optical absorption of thin amorphous silicon substrates. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 181	5	20
56	Experimental and Theoretical Studies of Serpentine Microstructures Bonded To Prestrained Elastomers for Stretchable Electronics. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2028-2037	15.6	220
55	Arthropod eye-inspired digital camera with unique imaging characteristics <b>2014</b> ,		3
54	Multifunctional skin-like electronics for quantitative, clinical monitoring of cutaneous wound healing. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 1597-607	10.1	175
53	Fabrication of Gallium Phosphide Tapered Nanostructures on Selective Surfaces. <i>Applied Science and Convergence Technology</i> , <b>2014</b> , 23, 284-288	0.8	
52	Antireflective silicon nanostructures with hydrophobicity by metal-assisted chemical etching for solar cell applications. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 159	5	32
51	Biomimetic artificial Si compound eye surface structures with broadband and wide-angle antireflection properties for Si-based optoelectronic applications. <i>Nanoscale</i> , <b>2013</b> , 5, 10455-60	7.7	44
50	Injectable, cellular-scale optoelectronics with applications for wireless optogenetics. <i>Science</i> , <b>2013</b> , 340, 211-6	33.3	832
49	Antireflective grassy surface on glass substrates with self-masked dry etching. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 505	5	13
48	Increased Light Extraction From GaN Light-Emitting Diodes by $\{\text{SiN}\}_x$ Compound Eyes. <i>IEEE Photonics Technology Letters</i> , <b>2013</b> , 25, 1118-1121	2.2	10
47	Digital cameras with designs inspired by the arthropod eye. <i>Nature</i> , <b>2013</b> , 497, 95-9	50.4	721
46	Optimal design of nano-scale surface light trapping structures for enhancing light absorption in thin film photovoltaics. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 024305	2.5	6

45	Disordered submicron structures integrated on glass substrate for broadband absorption enhancement of thin-film solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 101, 73-78	6.4	20
44	Robustly nano-tailored honeycomb structure for high-throughput antireflection polymer films. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17037		18
43	A physically transient form of silicon electronics. <i>Science</i> , <b>2012</b> , 337, 1640-4	33.3	862
42	Flexible vertical light emitting diodes. <i>Small</i> , <b>2012</b> , 8, 3123-8	11	44
41	Effect of Al-doped ZnO film thickness on periodic GaAs subwavelength grating structures for photovoltaic device applications. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 2884-2887	5.1	2
40	Hydrophobic and antireflective characteristics of thermally oxidized periodic Si surface nanostructures. <i>Applied Physics B: Lasers and Optics</i> , <b>2012</b> , 107, 409-414	1.9	6
39	Enhanced power generation in concentrated photovoltaics using broadband antireflective coverglasses with moth eye structures. <i>Optics Express</i> , <b>2012</b> , 20 Suppl 6, A916-23	3.3	43
38	Size-dependent optical behavior of disordered nanostructures on glass substrates. <i>Applied Optics</i> , <b>2012</b> , 51, 5890-6	1.7	9
37	Enhanced power generation in concentrated photovoltaics using broadband antireflective coverglasses with moth eye structures. <i>Optics Express</i> , <b>2012</b> , 20, A916-23	3.3	2
36	Six-fold hexagonal symmetric nanostructures with various periodic shapes on GaAs substrates for efficient antireflection and hydrophobic properties. <i>Nanotechnology</i> , <b>2011</b> , 22, 485304	3.4	24
35	Antireflective property of thin film a-Si solar cell structures with graded refractive index structure. <i>Optics Express</i> , <b>2011</b> , 19 Suppl 2, A108-17	3.3	26
34	Multifunctional light escaping architecture inspired by compound eye surface structures: From understanding to experimental demonstration. <i>Optics Express</i> , <b>2011</b> , 19 Suppl 2, A157-65	3.3	45
33	Wafer-scale broadband antireflective silicon fabricated by metal-assisted chemical etching using spin-coating Ag ink. <i>Optics Express</i> , <b>2011</b> , 19 Suppl 5, A1109-16	3.3	23
32	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> , <b>2011</b> , 19 Suppl 5, A1155-64	3.3	37
31	Broadband antireflective germanium surfaces based on subwavelength structures for photovoltaic cell applications. <i>Optics Express</i> , <b>2011</b> , 19, 26308-17	3.3	33
30	Antireflective properties of porous Si nanocolumnar structures with graded refractive index layers. <i>Optics Letters</i> , <b>2011</b> , 36, 253-5	3	20
29	Highly tolerant a-Si distributed Bragg reflector fabricated by oblique angle deposition. <i>Optical Materials Express</i> , <b>2011</b> , 1, 451	2.6	26
28	Disordered antireflective subwavelength structures using Ag nanoparticles for GaN-based optical device applications. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 1342-5	1.3	6



27	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> , <b>2011</b> , 208, 1902-1907	1.6	2
26	Antireflective characteristics of disordered GaAs subwavelength structures by thermally dewetted Au nanoparticles. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 669-676	6.4	38
25	Thermal measurements and analysis of AlGaInP/GaInP MQW red LEDs with different chip sizes and substrate thicknesses. <i>Solid-State Electronics</i> , <b>2011</b> , 56, 79-84	1.7	23
24	Broadband antireflective glasses with subwavelength structures using randomly distributed Ag nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 6152-6	1.3	13
23	Disordered antireflective nanostructures on GaN-based light-emitting diodes using Ag nanoparticles for improved light extraction efficiency. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 093110	3.4	55
22	Design of highly transparent glasses with broadband antireflective subwavelength structures. <i>Optics Express</i> , <b>2010</b> , 18, 13063-71	3.3	90
21	Antireflective submicrometer gratings on thin-film silicon solar cells for light-absorption enhancement. <i>Optics Letters</i> , <b>2010</b> , 35, 276-8	3	97
20	Antireflective properties of AZO subwavelength gratings patterned by holographic lithography. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 99, 695-700	1.9	23
19	Effect of etching parameters on antireflection properties of Si subwavelength grating structures for solar cell applications. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 100, 891-896	1.9	30
18	Structural and optical properties of silicon by tilted angle evaporation. <i>Surface and Coatings Technology</i> , <b>2010</b> , 205, S447-S450	4.4	6
17	Nano-tailoring the surface structure for the monolithic high-performance antireflection polymer film. <i>Advanced Materials</i> , <b>2010</b> , 22, 3713-8	24	127
16	Bioinspired parabola subwavelength structures for improved broadband antireflection. <i>Small</i> , <b>2010</b> , 6, 984-7	11	136
15	Investigation of geometrical effects of antireflective subwavelength grating structures for optical device applications. <i>Optical and Quantum Electronics</i> , <b>2009</b> , 41, 771-777	2.4	13
14	Low thermal resistance, high-speed 980 nm asymmetric intracavity-contacted oxide-aperture VCSELs. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 1631-1635	1.6	1
13	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> , <b>2009</b> , 517, 5773-5778	2.2	10
12	Thermal analysis of asymmetric intracavity-contacted oxide-aperture VCSELs for efficient heat dissipation. <i>Solid-State Electronics</i> , <b>2009</b> , 53, 1086-1091	1.7	24
11	Closely packed and aspect-ratio-controlled antireflection subwavelength gratings on GaAs using a lenslike shape transfer. <i>Optics Letters</i> , <b>2009</b> , 34, 1702-4	3	58
10	Light-extraction enhancement of red AlGaInP light-emitting diodes with antireflective subwavelength structures. <i>Optics Express</i> , <b>2009</b> , 17, 20991-7	3.3	48

9	Various Shaped Semiconductor Microlens Arrays Fabricated by Selective Oxidation of AlGaAs. <i>IEEE Photonics Technology Letters</i> , <b>2009</b> , 21, 1465-1467	2.2	
8	High-speed characteristics of vertical cavity surface emitting lasers and resonant-cavity-enhanced photodetectors based on intracavity-contacted structure. <i>Applied Optics</i> , <b>2009</b> , 48, F11-7	0.2	3
7	High speed intracavity-contacted vertical cavity surface emitting lasers with separated quantum wells. <i>Optical and Quantum Electronics</i> , <b>2008</b> , 40, 1219-1225	2.4	1
6	Stable single-mode operation of VCSELs with a mode selective aperture. <i>Applied Physics B: Lasers and Optics</i> , <b>2007</b> , 89, 231-234	1.9	6
5	Microlens fabrication by selective oxidation of composition-graded digital alloy AlGaAs. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 121-123	2.2	11
4	Self-Aligned Microlens-Integrated Vertical-Cavity Surface-Emitting Lasers. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 2203-2205	2.2	5
3	Single-Material, Near-Infrared Selective Absorber Based on Refractive Index-Tunable Tamm Plasmon Structure. <i>Advanced Optical Materials</i> , 2102388	8.1	0
2	Bio-Inspired Artificial Vision and Neuromorphic Image Processing Devices. <i>Advanced Materials Technologies</i> , 2100144	6.8	12
1	Self-Cooling Gallium-Based Transformative Electronics with a Radiative Cooler for Reliable Stiffness Tuning in Outdoor Use. <i>Advanced Science</i> , 2202549	13.6	3