

Gil Ju Lee

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,042
citations

394421

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docs citations

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times ranked

2285
citing authors

#	ARTICLE	IF	CITATIONS
1	Human eye-inspired soft optoelectronic device using high-density MoS ₂ -graphene curved image sensor array. <i>Nature Communications</i> , 2017, 8, 1664.	12.8	381
2	Curved neuromorphic image sensor array using a MoS ₂ -organic heterostructure inspired by the human visual recognition system. <i>Nature Communications</i> , 2020, 11, 5934.	12.8	182
3	Bioinspired Artificial Eyes: Optic Components, Digital Cameras, and Visual Prostheses. <i>Advanced Functional Materials</i> , 2018, 28, 1705202.	14.9	174
4	Wearable Force Touch Sensor Array Using a Flexible and Transparent Electrode. <i>Advanced Functional Materials</i> , 2017, 27, 1605286.	14.9	151
5	Colored, Daytime Radiative Coolers with Thin-Film Resonators for Aesthetic Purposes. <i>Advanced Optical Materials</i> , 2018, 6, 1800707.	7.3	116
6	A Janus emitter for passive heat release from enclosures. <i>Science Advances</i> , 2020, 6, .	10.3	116
7	An aquatic-vision-inspired camera based on a monocentric lens and a silicon nanorod photodiode array. <i>Nature Electronics</i> , 2020, 3, 546-553.	26.0	100
8	Efficient Light Absorption by GaN Truncated Nanocones for High Performance Water Splitting Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28672-28678.	8.0	57
9	Bioinspired Artificial Vision and Neuromorphic Image Processing Devices. <i>Advanced Materials Technologies</i> , 2022, 7, 2100144.	5.8	53
10	Outdoor-Useable, Wireless/Battery-Free Patch-Type Tissue Oximeter with Radiative Cooling. <i>Advanced Science</i> , 2021, 8, 2004885.	11.2	50
11	Localized Delivery of Theranostic Nanoparticles and High-Energy Photons using Microneedles on Bioelectronics. <i>Advanced Materials</i> , 2021, 33, e2100425.	21.0	43
12	Plasmonic Silver Nanoparticle-Impregnated Nanocomposite BiVO ₄ Photoanode for Plasmon-Enhanced Photocatalytic Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7088-7093.	3.1	42
13	Ultra-thin films with highly absorbent porous media fine-tunable for coloration and enhanced color purity. <i>Nanoscale</i> , 2017, 9, 2986-2991.	5.6	41
14	Revisiting silk: a lens-free optical physical unclonable function. <i>Nature Communications</i> , 2022, 13, 247.	12.8	41
15	An amphibious artificial vision system with a panoramic visual field. <i>Nature Electronics</i> , 2022, 5, 452-459.	26.0	40
16	High-performance, color-tunable fiber shaped organic light-emitting diodes. <i>Nanoscale</i> , 2018, 10, 16184-16192.	5.6	33
17	Large area fabrication of engineered microlens array with low sag height for light-field imaging. <i>Optics Express</i> , 2019, 27, 4435.	3.4	30
18	Miniaturized 3D Depth Sensing-Based Smartphone Light Field Camera. <i>Sensors</i> , 2020, 20, 2129.	3.8	25

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19	Instant, multiscale dry transfer printing by atomic diffusion control at heterogeneous interfaces. <i>Science Advances</i> , 2021, 7, .	10.3	22
20	Robustness of an artificially tailored fisheye imaging system with a curvilinear image surface. <i>Optics and Laser Technology</i> , 2017, 96, 50-57.	4.6	21
21	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.	3.3	19
22	Determining the Effectiveness of Radiative Cooler-Integrated Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	19
23	Enlarged Color Gamut Representation Enabled by Transferable Silicon Nanowire Arrays on Metal-Insulator-Metal Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11849-11856.	8.0	18
24	Spectrally and Spatially Selective Emitters Using Polymer Hybrid Spoof Plasmonics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53206-53214.	8.0	18
25	Self-Cooling Gallium-Based Transformative Electronics with a Radiative Cooler for Reliable Stiffness Tuning in Outdoor Use. <i>Advanced Science</i> , 2022, 9, .	11.2	17
26	Super-Antireflective Structure Films with Precisely Controlled Refractive Index Profile. <i>Advanced Optical Materials</i> , 2017, 5, 1600616.	7.3	16
27	Recent advances in imaging systems and photonic nanostructures inspired by insect eye geometry. <i>Applied Spectroscopy Reviews</i> , 2018, 53, 112-128.	6.7	16
28	Heat-shedding with photonic structures: radiative cooling and its potential. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9915-9937.	5.5	15
29	Parametric Optimization of Lateral NIPIN Phototransistors for Flexible Image Sensors. <i>Sensors</i> , 2017, 17, 1774.	3.8	14
30	Double-Sided Anti-Reflection Nanostructures on Optical Convex Lenses for Imaging Applications. <i>Coatings</i> , 2019, 9, 404.	2.6	14
31	Recent Advances in Vertically Aligned Nanowires for Photonics Applications. <i>Micromachines</i> , 2020, 11, 726.	2.9	14
32	NFC-Based Wearable Optoelectronics Working with Smartphone Application for Untact Healthcare. <i>Sensors</i> , 2021, 21, 878.	3.8	13
33	Gires-Tournois Immunoassay Platform for Label-Free Bright-Field Imaging and Facile Quantification of Bioparticles. <i>Advanced Materials</i> , 2022, 34, e2110003.	21.0	12
34	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.	5.7	11
35	Design and Fabrication of Microscale, Thin-Film Silicon Solid Immersion Lenses for Mid-Infrared Application. <i>Micromachines</i> , 2020, 11, 250.	2.9	11
36	Thermostat property of Janus emitter in enclosures. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111173.	6.2	11

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37	Ultra-thin and near-unity selective emitter for efficient cooling. Optics Express, 2021, 29, 31364.	3.4	10
38	Optical Design of Porous ZnO/TiO ₂ Films for Highly Transparent Glasses with Broadband Ultraviolet Protection. Journal of Nanomaterials, 2017, 2017, 1-8.	2.7	9
39	Selective and Sensitive Photon Sieve Based on III-V Semiconductor Nanowire Forest Fabricated by Lithography-Free Process. Advanced Optical Materials, 2020, 8, 2000198.	7.3	9
40	Colored, Covert Infrared Display through Hybrid Planar Plasmonic Cavities. Advanced Optical Materials, 2021, 9, 2100429.	7.3	9
41	Artificial Eyes: Bioinspired Artificial Eyes: Optic Components, Digital Cameras, and Visual Prostheses (Adv. Funct. Mater. 24/2018). Advanced Functional Materials, 2018, 28, 1870168.	14.9	8
42	Single-Material, Near-Infrared Selective Absorber Based on Refractive Index-Tunable Tamm Plasmon Structure. Advanced Optical Materials, 2022, 10, 2102388.	7.3	7
43	Spatially-Segmented Colored Radiative Cooler With Angle-Robustness. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	7
44	Theoretical analysis and experiment of subwavelength structure-integrated red AlGaInP light-emitting diodes for uniform field distribution and enhanced light extraction efficiency. AIP Advances, 2016, 6, 035104.	1.3	5
45	Multilayer selective passive daytime radiative cooler optimization utilizing memetic algorithm. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107774.	2.3	5
46	The Facile Implementation of Soft/Tunable Multiband Optical Filters by Stacking Vertical Silicon Nanowire Arrays for Smart Sensing. Advanced Intelligent Systems, 2019, 1, 1900072.	6.1	4
47	Determining the Effectiveness of Radiative Cooler-Integrated Solar Cells (Adv. Energy Mater. 10/2022). Advanced Energy Materials, 2022, 12, .	19.5	2
48	Parametric Studies on Artificial Morpho Butterfly Wing Scales for Optical Device Applications. Journal of Nanomaterials, 2015, 2015, 1-7.	2.7	1
49	Colored, Covert Infrared Display through Hybrid Planar Plasmonic Cavities (Advanced Optical) Tj ETQq1 1 0.784314 rgBT /Qverlock 1	7.3	1
50	Flexible forms of moth eye structures and their applications. , 2015, , .		0
51	Fabrication of Ultra-thin Color Films with Highly Absorbing Media Using Oblique Angle Deposition. Journal of Visualized Experiments, 2017, , .	0.3	0
52	Fabrication of Flexible Image Sensor Based on Lateral NIPIN Phototransistors. Journal of Visualized Experiments, 2018, , .	0.3	0
53	Reflective Color Filters with Enlarged Color Gamut Enabled by Stacking Silicon Nanowires on Thin-film Coatings. , 2019, , .		0
54	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.	7.3	0

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55	Lensless and Optical Physically Unclonable Function with Fibrous Media. , 2021, , .		0
56	Parametric Studies on Wide Field of View Imaging Systems with Curved Image Sensors. , 2017, , .		0
57	Tailored selective thermal emitter for efficient radiative cooling in humid climate. , 2020, , .		0
58	Stacked focal plane light field imaging system based on multi-focus microlens array. , 2020, , .		0
59	Ultra-slim, wide field-of-view single lens cameras with designs inspired by an aquatic animal. , 2020, , .		0
60	Single-Material, Near-Infrared Selective Absorber Based on Refractive Index-Tunable Tamm Plasmon Structure (Advanced Optical Materials 6/2022). Advanced Optical Materials, 2022, 10, .	7.3	0