

# Gumin Kang

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

1,542  
citations

471061

17  
h-index

454577

30  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2716  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible thin-film black gold membranes with ultrabroadband plasmonic nanofocusing for efficient solar vapour generation. <i>Nature Communications</i> , 2015, 6, 10103.	5.8	783
2	Broadband Optical Antireflection Enhancement by Integrating Antireflective Nanoislands with Silicon Nanoconicalâ€Frustum Arrays. <i>Advanced Materials</i> , 2011, 23, 5796-5800.	11.1	89
3	Bifunctional Mothâ€Eye Nanopatterned Dyeâ€Sensitized Solar Cells: Lightâ€Harvesting and Selfâ€Cleaning Effects. <i>Advanced Energy Materials</i> , 2014, 4, 1300632.	10.2	73
4	Transparent dielectric nanostructures for efficient light management in optoelectronic applications. <i>Nano Today</i> , 2015, 10, 22-47.	6.2	61
5	Broadband Lightâ€Trapping Enhancement in an Ultrathin Film â€Si Absorber Using Whispering Gallery Modes and Guided Wave Modes with Dielectric Surfaceâ€Textured Structures. <i>Advanced Materials</i> , 2013, 25, 2617-2623.	11.1	60
6	Broadband and ultrahigh optical haze thin films with self-aggregated alumina nanowire bundles for photovoltaic applications. <i>Energy and Environmental Science</i> , 2015, 8, 2650-2656.	15.6	55
7	Thermoplasmonic and Photothermal Metamaterials for Solar Energy Applications. <i>Advanced Optical Materials</i> , 2018, 6, 1800317.	3.6	48
8	High-Power and Flexible Indoor Solar Cells via Controlled Growth of Perovskite Using a Greener Antisolvent. <i>ACS Applied Energy Materials</i> , 2020, 3, 6995-7003.	2.5	44
9	Graded-lattice AAO photonic crystal heterostructure for high Q refractive index sensing. <i>RSC Advances</i> , 2015, 5, 71770-71777.	1.7	37
10	Morphology control of perovskite in green antisolvent system for MAPbI <sub>3</sub> -based solar cells with over 20% efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2019, 203, 110197.	3.0	25
11	Scalable variable-index elasto-optic metamaterials for macroscopic optical components and devices. <i>Nature Communications</i> , 2017, 8, 16090.	5.8	24
12	Lithography-Free Broadband Ultrathin-Film Absorbers with Gap-Plasmon Resonance for Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 12997-13008.	4.0	22
13	A Multiâ€Functional Highly Efficient Upconversion Luminescent Film with an Array of Dielectric Microbeads Decorated with Metal Nanoparticles. <i>Advanced Functional Materials</i> , 2020, 30, 1909445.	7.8	21
14	Refractometric and colorimetric index sensing by a plasmon-coupled hybrid AAO nanotemplate. <i>RSC Advances</i> , 2015, 5, 103052-103059.	1.7	20
15	Improved image quality of a Ag slab near-field superlens with intrinsic loss of absorption. <i>Optics Express</i> , 2008, 16, 1711.	1.7	19
16	Active phase control of a Ag near-field superlens via the index mismatch approach. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	18
17	Improvement of Light Extraction Efficiency in Flip-Chip Light Emitting Diodes on SiC Substrate via Transparent Haze Films with Morphology-Controlled Collapsed Alumina Nanorods. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 135-141.	4.0	18
18	Porous metallic nanocone arrays for high-density SERS hot spots via solvent-assisted nanoimprint lithography of block copolymer. <i>RSC Advances</i> , 2015, 5, 76085-76091.	1.7	17

#	ARTICLE	IF	CITATIONS
19	Moisture proof hole transport layers based on CISE quantum dots for highly stable and large active area perovskite solar cells. <i>Applied Surface Science</i> , 2019, 496, 143610.	3.1	17
20	Large-scale nanoporous metal-coated silica aerogels for high SERS effect improvement. <i>Scientific Reports</i> , 2018, 8, 15144.	1.6	15
21	Highly flexible and stable perovskite/microbead hybrid photodetectors with improved interfacial light trapping. <i>Applied Surface Science</i> , 2021, 544, 148850.	3.1	11
22	Enhancing the Efficiency of GaSb Photovoltaic Cell Using Thin-Film Multiscale Haze and Radiative Cooling. <i>ACS Applied Energy Materials</i> , 2021, 4, 9304-9314.	2.5	11
23	High quality chalcogenide-silica hybrid wedge resonator. <i>Optics Express</i> , 2017, 25, 15581.	1.7	10
24	Quantitative analysis of mixed hydrofluoric and nitric acids using Raman spectroscopy with partial least squares regression. <i>Talanta</i> , 2010, 81, 1413-1417.	2.9	9
25	Resolution enhancement using plasmonic metamask for wafer-scale photolithography in the far field. <i>Scientific Reports</i> , 2016, 6, 30476.	1.6	8
26	Influence of a Solvent Trap in ITO/PEN Substrates on the Performance of Flexible Perovskite Solar Cells and Light-Emitting Diodes. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3207-3217.	2.0	8
27	Demonstration of Hybrid High-Q Hexagonal Boron Nitride Microresonators. <i>ACS Photonics</i> , 2021, 8, 3027-3033.	3.2	7
28	Superboosted Hybrid Plasmonic Upconversion Process for Photodetection at 1550nm Wavelength. <i>Advanced Materials</i> , 2021, , 2106225.	11.1	5
29	Formation of Metal Cation/Oxidized Pyridine Complexes-Based Bifunctional Interfacial Layer for Fabrication of Highly Efficient and Reproducible Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	3.1	4
30	Selective Passivation of Grain Boundaries via Incorporation of a Fluidic Small Molecule in Perovskite Solar Absorbers. <i>ACS Applied Energy Materials</i> , 2021, 4, 10059-10068.	2.5	3
31	Measurement of mixed acid concentrations using Raman spectroscopy. , 2009, , .		0
32	Laser cleaning and NIR spectroscopy for the pickling process of oxidized steel layers. , 2009, , .		0