Kyu-Tae Lee

List of Publications by Year
in descending order

44 papers	1,539 citations	361413 20 h-index	302126 39 g-index
44 all docs	44 docs citations	44 times ranked	2069 citing authors

#	Article	IF	Citations
1	Engineering Light at the Nanoscale: Structural Color Filters and Broadband Perfect Absorbers. Advanced Optical Materials, 2017, 5, 1700368.	7.3	141
2	Colored ultrathin hybrid photovoltaics with high quantum efficiency. Light: Science and Applications, 2014, 3, e215-e215.	16.6	112
3	Strong Resonance Effect in a Lossy Mediumâ€Based Optical Cavity for Angle Robust Spectrum Filters. Advanced Materials, 2014, 26, 6324-6328.	21.0	111
4	Compact Multilayer Film Structures for Ultrabroadband, Omnidirectional, and Efficient Absorption. ACS Photonics, 2016, 3, 590-596.	6.6	108
5	Highâ€Colorâ€Purity Subtractive Color Filters with a Wide Viewing Angle Based on Plasmonic Perfect Absorbers. Advanced Optical Materials, 2015, 3, 347-352.	7.3	103
6	Continuous and scalable fabrication of flexible metamaterial films via roll-to-roll nanoimprint process for broadband plasmonic infrared filters. Applied Physics Letters, 2012, 101, .	3.3	93
7	Wireless, battery-free, flexible, miniaturized dosimeters monitor exposure to solar radiation and to light for phototherapy. Science Translational Medicine, 2018, 10, .	12.4	91
8	Colored, see-through perovskite solar cells employing an optical cavity. Journal of Materials Chemistry C, 2015, 3, 5377-5382.	5.5	89
9	Decorative power generating panels creating angle insensitive transmissive colors. Scientific Reports, 2014, 4, 4192.	3.3	83
10	Ultrathin metal-semiconductor-metal resonator for angle invariant visible band transmission filters. Applied Physics Letters, 2014, 104, .	3.3	73
11	Neutral- and Multi-Colored Semitransparent Perovskite Solar Cells. Molecules, 2016, 21, 475.	3.8	56
12	Flexible High-Color-Purity Structural Color Filters Based on a Higher-Order Optical Resonance Suppression. Scientific Reports, 2019, 9, 14917.	3.3	52
13	Angular- and polarization-independent structural colors based on 1D photonic crystals. Laser and Photonics Reviews, 2015, 9, 354-362.	8.7	51
14	ITOâ€Free, Compact, Color Liquid Crystal Devices Using Integrated Structural Color Filters and Graphene Electrodes. Advanced Optical Materials, 2014, 2, 435-441.	7.3	40
15	Angleâ€Insensitive and CMOSâ€Compatible Subwavelength Color Printing. Advanced Optical Materials, 2016, 4, 1696-1702.	7.3	38
16	Graphene- and Carbon-Nanotube-Based Transparent Electrodes for Semitransparent Solar Cells. Materials, 2018, 11, 1503.	2.9	36
17	Semipermanent Copper Nanowire Network with an Oxidationâ€Proof Encapsulation Layer. Advanced Materials Technologies, 2019, 4, 1800422.	5.8	29
18	Decorative near-infrared transmission filters featuring high-efficiency and angular-insensitivity employing 1D photonic crystals. Nano Research, 2019, 12, 543-548.	10.4	25

#	Article	IF	Citations
19	Wireless, Skin-Mountable EMG Sensor for Humanâ€“Machine Interface Application. Micromachines, 2019, 10, 879.	2.9	21
20	High-color-purity, angle-invariant, and bidirectional structural colors based on higher-order resonances. Optics Letters, 2019, 44, 86.	3.3	21
21	Selective Photomechanical Detachment and Retrieval of Divided Sister Cells from Enclosed Microfluidics for Downstream Analyses. ACS Nano, 2017, 11, 4660-4668.	14.6	20
22	Fabrication and Encapsulation of a Shortâ€Period Wire Grid Polarizer with Improved Viewing Angle by the Angledâ€Evaporation Method. Advanced Optical Materials, 2013, 1, 863-868.	7.3	16
23	Optical Simulation of Periodic Surface Texturing on Ultrathin Amorphous Silicon Solar Cells. IEEE Journal of Photovoltaics, 2014, 4, 1337-1342.	2.5	16
24	Optical cloaking and invisibility: From fiction toward a technological reality. Journal of Applied Physics, 2021, 129, .	2.5	16
25	Microcavity-Integrated Colored Semitransparent Hybrid Photovoltaics With Improved Efficiency and Color Purity. IEEE Journal of Photovoltaics, 2015, 5, 1654-1658.	2.5	14
26	Laser-generated focused ultrasound transmitters with frequency-tuned outputs over sub-10-MHz range. Applied Physics Letters, 2019, 115, .	3.3	13
27	Design of Polarization-Independent and Wide-Angle Broadband Absorbers for Highly Efficient Reflective Structural Color Filters. Materials, 2019, 12, 1050.	2.9	13
28	Templateâ€Free Vibrational Indentation Patterning (VIP) of Micro/Nanometerâ€Scale Grating Structures with Realâ€Time Pitch and Angle Tunability. Advanced Functional Materials, 2013, 23, 4739-4744.	14.9	10
29	Synergistic Effect of Excited State Property and Aggregation Characteristic of Organic Semiconductor on Efficient Holeâ€Transportation in Perovskite Device. Advanced Functional Materials, 2021, 31, 2007180.	14.9	8
30	Nanogap Engineering for Enhanced Transmission of Wire Grid Polarizers in Mid-Wavelength Infrared Region. Scientific Reports, 2019, 9, 4201.	3.3	7
31	Highly Efficient Bifacial Coloraâ€Tunable Perovskite Solar Cells. Advanced Optical Materials, 2022, 10, 2101696.	7.3	7
32	Light absorption enhancement in ultrathin perovskite solar cells using light scattering of high-index dielectric nanospheres. Optics Express, 2021, 29, 35366.	3.4	6
33	Solution processes for ultrabroadband and omnidirectional graded-index glass lenses with near-zero reflectivity in high concentration photovoltaics. Scientific Reports, 2018, 8, 14907.	3.3	4
34	Hierarchically Nanoporous Pyropolymers Derived from Waste Pinecone as a Pseudocapacitive Electrode for Lithium Ion Hybrid Capacitors. Scientific Reports, 2020, 10, 5817.	3.3	4
35	Side-Polished Fiber-Optic Line Sensor for High-Frequency Broadband Ultrasound Detection. Sensors, 2019, 19, 398.	3.8	3
36	Angle-insensitive reflective color filters using lossy materials. , 2013, , .		2

#	Article	IF	Citations
37	Manipulation of resonance orders and absorbing materials for structural colors in transmission with improved color purity. Optics Express, 2022, 30, 11740.	3.4	2
38	Ultra-thin intrinsic amorphous silicon/organic hybrid structure for decorative photovoltaic applications. , 2014, , .		1
39	Nanoimprint Lithography: Angle-Insensitive and CMOS-Compatible Subwavelength Color Printing (Advanced Optical Materials 11/2016). Advanced Optical Materials, 2016, 4, 1695-1695.	7.3	1
40	Multilayer dielectric mirror-integrated colored hybrid solar cells. , 2018, , .		1
41	Strain-Dependent Photoacoustic Characteristics of Free-Standing Carbon-Nanocomposite Transmitters. Sensors, 2022, 22, 3432.	3.8	1
42	Direct Visualization of UV-Light on Polymer Composite Films Consisting of Light Emitting Organic Micro Rods and Polydimethylsiloxane. Polymers, 2022, 14, 1846.	4.5	1
43	Omnidirectional resonance in microcavity for high resolution filter. , 2013, , .		0
44	Perovskite Photovoltaic Cells: Synergistic Effect of Excited State Property and Aggregation Characteristic of Organic Semiconductor on Efficient Holeâ€Transportation in Perovskite Device (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 T	14.9	0