Chul-Joon Heo

List of Publications by Year
in descending order

35 papers	1,811 citations	394421 19 h-index	414414 32 g-index
37 all docs	37 docs citations	37 times ranked	2798 citing authors

#	Article	IF	Citations
1	Flexible, Angleâ€Independent, Structural Color Reflectors Inspired by Morpho Butterfly Wings. Advanced Materials, 2012, 24, 2375-2379.	21.0	276
2	Controlled Origami Folding of Hydrogel Bilayers with Sustained Reversibility for Robust Microcarriers. Angewandte Chemie - International Edition, 2012, 51, 1420-1423.	13.8	194
3	Superhydrophobic Films of Electrospun Fibers with Multiple-Scale Surface Morphology. Langmuir, 2007, 23, 7981-7989.	3.5	160
4	Optofluidic Assembly of Colloidal Photonic Crystals with Controlled Sizes, Shapes, and Structures. Advanced Materials, 2008, 20, 1649-1655.	21.0	154
5	Full Color Tunable Photonic Crystal from Crystalline Colloidal Arrays with an Engineered Photonic Stopâ€Band. Advanced Materials, 2012, 24, 6438-6444.	21.0	147
6	Fabrication of One-Dimensional Colloidal Assemblies from Electrospun Nanofibers. Langmuir, 2006, 22, 3445-3449.	3.5	97
7	Organic-on-silicon complementary metalâ€“oxideâ€“semiconductor colour image sensors. Scientific Reports, 2015, 5, 7708.	3.3	94
8	Durable Plasmonic Cap Arrays on Flexible Substrate with Real-Time Optical Tunability for High-Fidelity SERS Devices. ACS Applied Materials & Interfaces, 2013, 5, 4569-4574.	8.0	72
9	Nanoscopic Ordered Voids and Metal Caps by Controlled Trapping of Colloidal Particles at Polymeric Film Surfaces. Advanced Materials, 2008, 20, 4862-4867.	21.0	67
10	Gold â€œNanograilsâ€•with Tunable Dipolar Multiple Plasmon Resonances. Advanced Materials, 2009, 21, 1726-1731.	21.0	61
11	Narrow-Band Organic Photodiodes for High-Resolution Imaging. ACS Applied Materials & Interfaces, 2016, 8, 26143-26151.	8.0	59
12	Hierarchically Ordered Arrays of Noncircular Silicon Nanowires Featured by Holographic Lithography Toward a Highâ€Fidelity Sensing Platform. Advanced Functional Materials, 2012, 22, 4268-4274.	14.9	47
13	High-Fidelity Optofluidic On-Chip Sensors Using Well-Defined Gold Nanowell Crystals. Analytical Chemistry, 2011, 83, 9174-9180.	6.5	41
14	Dipolar donorâ€“acceptor molecules in the cyanine limit for high efficiency green-light-selective organic photodiodes. Journal of Materials Chemistry C, 2016, 4, 1117-1125.	5.5	40
15	Electrically tunable photonic crystals from long-range ordered crystalline arrays composed of copolymer colloids. Journal of Materials Chemistry C, 2013, 1, 5791.	5.5	35
16	Structural Color Manipulation Using Tunable Photonic Crystals with Enhanced Switching Reliability. Advanced Optical Materials, 2014, 2, 535-541.	7.3	35
17	Polymeric Particles with Structural Complexity from Stable Immobilized Emulsions. Chemistry of Materials, 2007, 19, 4751-4760.	6.7	34
18	Biofunctional colloids and their assemblies. Soft Matter, 2010, 6, 1092.	2.7	32

#	Article	IF	Citations
19	Optically tunable arrayed structures for highly sensitive plasmonic detection via simplified holographic lithography. Journal of Materials Chemistry, 2012, 22, 4603.	6.7	21
20	Green-Light-Selective Organic Photodiodes with High Detectivity for CMOS Color Image Sensors. ACS Applied Materials & Interfaces, 2020, 12, 51688-51698.	8.0	19
21	Identifying the Molecular Origins of High-Performance in Organic Photodetectors Based on Highly Intermixed Bulk Heterojunction Blends. ACS Nano, 2021, 15, 1217-1228.	14.6	19
22	Green-light-selective organic photodiodes for full-color imaging. Optics Express, 2019, 27, 25410.	3.4	19
23	Robust plasmonic sensors based on hybrid nanostructures with facile tunability. Journal of Materials Chemistry, 2012, 22, 13903.	6.7	18
24	Lithographically-featured photonic microparticles of colloidal assemblies. Physical Chemistry Chemical Physics, 2010, 12, 11861.	2.8	15
25	Photothermolysis of immobilized bacteria on gold nanograil arrays. Applied Physics Letters, 2011, 98, .	3.3	10
26	Bi-layered metal-oxide thin films processed at low-temperature for the encapsulation of highly stable organic photo-diode. Organic Electronics, 2017, 41, 259-265.	2.6	10
27	Angleâ€Independent Reflectors: Flexible, Angleâ€Independent, Structural Color Reflectors Inspired by Morpho Butterfly Wings (Adv. Mater. 18/2012). Advanced Materials, 2012, 24, 2366-2366.	21.0	8
28	Highly durable organic photodetector for complementary metal oxide semiconductor image sensors. Organic Electronics, 2021, 95, 106154.	2.6	8
29	The role of defects in organic image sensors for green photodiode. Scientific Reports, 2019, 9, 1745.	3.3	7
30	Surface plasmon enhanced Organic color image sensor with Ag nanoparticles coated with silicon oxynitride. Scientific Reports, 2020, 10, 219.	3.3	7
31	High Speed Response Organic Photodetectors with Cascade Buffer Layers. Advanced Electronic Materials, 2022, 8, 2100539.	5.1	3
32	Inside Front Cover: Optofluidic Assembly of Colloidal Photonic Crystals with Controlled Sizes, Shapes, and Structures (Adv. Mater. 8/2008). Advanced Materials, 2008, 20, 1590-1590.	21.0	1
33	Inside Back Cover: Controlled Origami Folding of Hydrogel Bilayers with Sustained Reversibility for Robust Microcarriers (Angew. Chem. Int. Ed. 6/2012). Angewandte Chemie - International Edition, 2012, 51, 1489-1489.	13.8	1
34	Silicon Nanowires: Hierarchically Ordered Arrays of Noncircular Silicon Nanowires Featured by Holographic Lithography Toward a High-Fidelity Sensing Platform (Adv. Funct. Mater. 20/2012). Advanced Functional Materials, 2012, 22, 4399-4399.	14.9	0
35	High Speed Response Organic Photodetectors with Cascade Buffer Layers (Adv. Electron. Mater.) Tj ETQq1 1 0.784314 rgBT /Overloc	5.1	0