

Choon-Gi Choi

List of Publications by Year in descending order

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39
papers

1,223
citations

394421

19
h-index

414414

32
g-index

40
all docs

40
docs citations

40
times ranked

1915
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible and Transparent Gas Molecule Sensor Integrated with Sensing and Heating Graphene Layers. Small, 2014, 10, 3685-3691.	10.0	142
2	High Durability and Waterproofing rGO/SWCNT-Fabric-Based Multifunctional Sensors for Human-Motion Detection. ACS Applied Materials & Interfaces, 2018, 10, 3921-3928.	8.0	142
3	MXene(Ti3C2TX)/graphene/PDMS composites for multifunctional broadband electromagnetic interference shielding skins. Chemical Engineering Journal, 2020, 393, 124608.	12.7	138
4	Highly Sensitive and Flexible Strain-Pressure Sensors with Cracked Paddy-Shaped MoS ₂ /Graphene Foam/Ecoflex Hybrid Nanostructures. ACS Applied Materials & Interfaces, 2018, 10, 36377-36384.	8.0	126
5	Fabrication of micro-lens arrays with moth-eye antireflective nanostructures using thermal imprinting process. Microelectronic Engineering, 2010, 87, 2328-2331.	2.4	62
6	Honeycomb-like MoS ₂ Nanotube Array-Based Wearable Sensors for Noninvasive Detection of Human Skin Moisture. ACS Applied Materials & Interfaces, 2020, 12, 17029-17038.	8.0	60
7	Fabrication of large-core 1 x 16 optical power splitters in polymers using hot-embossing process. IEEE Photonics Technology Letters, 2003, 15, 825-827.	2.5	56
8	Ti3C2Tx MXene/carbon nanotubes/waterborne polyurethane based composite ink for electromagnetic interference shielding and sheet heater applications. Chemical Engineering Journal, 2022, 430, 133171.	12.7	51
9	Layer number identification of CVD-grown multilayer graphene using Si peak analysis. Scientific Reports, 2018, 8, 571.	3.3	50
10	Graphene-Semiconductor Catalytic Nanodiodes for Quantitative Detection of Hot Electrons Induced by a Chemical Reaction. Nano Letters, 2016, 16, 1650-1656.	9.1	37
11	Passive Alignment Method of Polymer PLC Devices by Using a Hot Embossing Technique. IEEE Photonics Technology Letters, 2004, 16, 1664-1666.	2.5	34
12	Hot carrier multiplication on graphene/TiO2 Schottky nanodiodes. Scientific Reports, 2016, 6, 27549.	3.3	34
13	Fabrication of antireflection nanostructures by hybrid nano-patterning lithography. Microelectronic Engineering, 2010, 87, 125-128.	2.4	32
14	Gas molecule sensing of van der Waals tunnel field effect transistors. Nanoscale, 2017, 9, 18644-18650.	5.6	29
15	A flexible and high-performance electrochromic smart window produced by WO ₃ /Ti ₃ C ₂ T _x MXene hybrids. Journal of Materials Chemistry C, 2021, 9, 3183-3192.	5.5	25
16	Air-suspended two-dimensional polymer photonic crystal slab waveguides fabricated by nanoimprint lithography. Applied Physics Letters, 2007, 90, 221109.	3.3	24
17	Influence of seed layers on the vertical growth of ZnO nanowires. Materials Letters, 2009, 63, 679-682.	2.6	22
18	Surface Plasmon Resonance-Enhanced Near-Infrared Absorption in Single-Layer MoS ₂ with Vertically Aligned Nanoflakes. ACS Applied Materials & Interfaces, 2020, 12, 14476-14483.	8.0	22

#	ARTICLE	IF	CITATIONS
19	Correlation between micrometer-scale ripple alignment and atomic-scale crystallographic orientation of monolayer graphene. <i>Scientific Reports</i> , 2014, 4, 7263.	3.3	21
20	A Reflective Curved Mirror With Low Coupling Loss for Optical Interconnection. <i>IEEE Photonics Technology Letters</i> , 2004, 16, 185-187.	2.5	16
21	Facile fabrication of properties-controllable graphene sheet. <i>Scientific Reports</i> , 2016, 6, 24525.	3.3	16
22	Gamma-ray Tolerant Flexible Pressure-Temperature Sensor for Nuclear Radiation Environment. <i>Advanced Materials Technologies</i> , 2021, 6, 2001039.	5.8	14
23	Bandgap Tuned WS ₂ Thin-Film Photodetector by Strain Gradient in van der Waals Effective Homojunctions. <i>Advanced Optical Materials</i> , 2021, 9, 2101310.	7.3	13
24	Highly Sensitive and Fast Responsive Humidity Sensor based on 2D PtSe ₂ with Gamma Radiation Tolerance. <i>Advanced Materials Technologies</i> , 2022, 7, 2100751.	5.8	12
25	Two-dimensional polymeric optical waveguides for high-density parallel optical interconnection. <i>Optics Communications</i> , 2004, 235, 69-73.	2.1	11
26	Title is missing!. <i>Journal of Materials Science</i> , 1999, 34, 6035-6040.	3.7	9
27	Flexible Electronics: Flexible and Transparent Gas Molecule Sensor Integrated with Sensing and Heating Graphene Layers (Small 18/2014). <i>Small</i> , 2014, 10, 3812-3812.	10.0	7
28	Resist-free antireflective nanostructured film fabricated by thermal-NIL. <i>Nano Convergence</i> , 2014, 1, 19.	12.1	6
29	Subwavelength imaging in the visible range using a metal coated carbon nanotube forest. <i>Nanoscale</i> , 2014, 6, 5967-5970.	5.6	4
30	Convection-based realtime polymerase chain reaction (PCR) utilizing transparent graphene heaters. , 2014, , .		3
31	Pore-size reduction protocol for SiN membrane nanopore using the thermal reflow in nanoimprinting for nanobio-based sensing. <i>Journal of Biomedical Optics</i> , 2014, 19, 051211.	2.6	2
32	Assessment of the 50% and 95% effective paratracheal forces for occluding the esophagus in anesthetized patients. <i>Journal of Clinical Monitoring and Computing</i> , 2022, 36, 335-340.	1.6	2
33	Optical Sintering: Improved Optical Sintering Efficiency at the Contacts of Silver Nanowires Encapsulated by a Graphene Layer (Small 11/2015). <i>Small</i> , 2015, 11, 1356-1356.	10.0	1
34	A simple structure of low-loss large-angle abrupt-bend waveguide. <i>IEEE Photonics Technology Letters</i> , 2001, 13, 1085-1087.	2.5	0
35	Fabrication of multi-channel polymeric PLC-type variable optical attenuator by UV embossing. , 2005, , .		0
36	Polymer Photonic Crystal Nano-Systems Fabricated by Nanoimprint Lithography. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
37	High-density optical disk pattern mastering using nanoimprint lithography. , 2006, , .		0
38	Application of UV nanoimprint lithography in polymer photonic nano-systems. , 2006, , .		0
39	Gate-controlled active graphene metamaterials at terahertz frequencies. , 2012, , .		0