Heung Cho Ko

List of Publications by Year
in descending order

64 papers	4,599 citations	172457 29 h-index	110387 64 g-index
70 all docs	70 docs citations	70 times ranked	7052 citing authors

#	Article	IF	Citations
1	High-Performance Implantable Bioelectrodes with Immunocompatible Topography for Modulation of Macrophage Responses. ACS Nano, 2022, 16, 7471-7485.	14.6	13
2	Robust and Highly Conductive PEDOT:PSS:Ag Nanowires/Polyethyleneimine Multilayers Based on Ionic Layer-by-Layer Assembly for E-Textiles and 3D Electronics. ACS Applied Electronic Materials, 2022, 4, 2413-2423.	4.3	3
3	Stick-and-play system based on interfacial adhesion control enhanced by micro/nanostructures. Nano Research, 2021, 14, 3143-3158.	10.4	10
4	Highly Efficient Fullâ€Color Inorganic LEDs on a Single Wafer by Using Multiple Adhesive Bonding. Advanced Materials Interfaces, 2021, 8, 2100300.	3.7	16
5	Enhanced Ultraviolet Photoresponse Characteristics of Indium Gallium Zinc Oxide Photo-Thin-Film Transistors Enabled by Surface Functionalization of Biomaterials for Real-Time Ultraviolet Monitoring. ACS Applied Materials & Interfaces, 2021, 13, 47784-47792.	8.0	6
6	Highly Refractive Aromatic Polybenzoxazoles Derived from Sulfur-Containing Dibenzoyl Chlorides. ACS Applied Polymer Materials, 2021, 3, 4932-4939.	4.4	1
7	Deep-ultraviolet sensing characteristics of transparent and flexible IGZO thin film transistors. Journal of Alloys and Compounds, 2020, 817, 152788.	5.5	37
8	Enhancement of Interfacial Adhesion Using Micro/Nanoscale Hierarchical Cilia for Randomly Accessible Membrane-Type Electronic Devices. ACS Nano, 2020, 14, 118-128.	14.6	10
9	Automatic Transformation of Membraneâ€Type Electronic Devices into Complex 3D Structures via Extrusion Shear Printing and Thermal Relaxation of Acrylonitrileâ€“Butadieneâ€“Styrene Frameworks. Advanced Functional Materials, 2020, 30, 1907384.	14.9	5
10	Omnidirectional Stretchable Inorganicâ€Materialâ€Based Electronics with Enhanced Performance. Advanced Electronic Materials, 2020, 6, 2000058.	5.1	34
11	Hexahedral LED Arrays with Row and Column Control Lines Formed by Selective Liquidâ€Phase Plasticization and Nondisruptive Tuckingâ€Based Origami. Advanced Materials Technologies, 2020, 5, 2000010.	5.8	8
12	Extrusion Shear Printing: Automatic Transformation of Membraneâ€Type Electronic Devices into Complex 3D Structures via Extrusion Shear Printing and Thermal Relaxation of Acrylonitrileâ€“Butadieneâ€“Styrene Frameworks (Adv. Funct. Mater. 5/2020). Advanced Functional Materials, 2020, 30, 2070033.	14.9	1
13	Mechanically enhanced graphene oxide/carboxymethyl cellulose nanofibril composite fiber as a scalable adsorbent for heavy metal removal. Carbohydrate Polymers, 2020, 240, 116348.	10.2	50
14	Protonâ€Irradiation Effects on the Thermoelectric Properties of Flexible Bi₂Te₃/PEDOT:PSS Composite Films. Advanced Electronic Materials, 2019, 5, 1800786.	5.1	53
15	Highâ€Responsivity Nearâ€Infrared Photodetector Using Gateâ€Modulated Graphene/Germanium Schottky Junction. Advanced Electronic Materials, 2019, 5, 1800957.	5.1	54
16	Double-sided printed circuit textiles based on stencil-type layer-by-layer coating with PEDOT:PSS:Ag nanowires and chitosan for electrothermochromic displays. Journal of Materials Chemistry C, 2019, 7, 14525-14534.	5.5	19
17	Synergistic Effect of Sulfur and Chalcogen Atoms on the Enhanced Refractive Indices of Polyimides in the Visible and Near-Infrared Regions. Macromolecules, 2019, 52, 827-834.	4.8	33
18	Synthesis and characterization of phosphorus- and sulfur-containing aromatic polyimides for high refractive index. Polymer, 2018, 136, 143-148.	3.8	31

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19	Reliable peripheral anchor-assisted transfer printing of ultrathin SiO2 for a transparent and flexible IGZO-based inverter. Microelectronic Engineering, 2018, 197, 15-22.	2.4	5
20	3D Image Sensors: A Bezel-Less Tetrahedral Image Sensor Formed by Solvent-Assisted Plasticization and Transformation of an Acrylonitrile Butadiene Styrene Framework (Adv. Mater. 30/2018). Advanced Materials, 2018, 30, 1870224.	21.0	1
21	A Bezelâ€Less Tetrahedral Image Sensor Formed by Solventâ€Assisted Plasticization and Transformation of an Acrylonitrile Butadiene Styrene Framework. Advanced Materials, 2018, 30, e1801256.	21.0	9
22	Secondary Sensitivity Control of Silverâ€Nanowireâ€Based Resistiveâ€Type Strain Sensors by Geometric Modulation of the Elastomer Substrate. Small, 2017, 13, 1700070.	10.0	53
23	Sensors: Secondary Sensitivity Control of Silver-Nanowire-Based Resistive-Type Strain Sensors by Geometric Modulation of the Elastomer Substrate (Small 23/2017). Small, 2017, 13, .	10.0	0
24	Robust and stretchable indium gallium zinc oxide-based electronic textiles formed by cilia-assisted transfer printing. Nature Communications, 2016, 7, 11477.	12.8	73
25	Metal Decoration Effects on the Gas-Sensing Properties of 2D Hybrid-Structures on Flexible Substrates. Sensors, 2015, 15, 24903-24913.	3.8	41
26	Bifunctional Sensing Characteristics of Chemical Vapor Deposition Synthesized Atomic-Layered MoS₂. ACS Applied Materials & Interfaces, 2015, 7, 2952-2959.	8.0	162
27	Charge-transfer-based Gas Sensing Using Atomic-layer MoS2. Scientific Reports, 2015, 5, 8052.	3.3	489
28	Chemical Sensing of 2D Graphene/MoS₂ Heterostructure device. ACS Applied Materials & Interfaces, 2015, 7, 16775-16780.	8.0	375
29	A tunable sub-100 nm silicon nanopore array with an AAO membrane mask: reducing unwanted surface etching by introducing a PMMA interlayer. Nanoscale, 2015, 7, 13489-13494.	5.6	13
30	Isoindigo-Based Donorâ€“Acceptor Conjugated Polymers for Air-Stable Nonvolatile Memory Devices. ACS Macro Letters, 2015, 4, 322-326.	4.8	39
31	Side chains contributions to characteristics of resistive memory based on water-soluble polyfluorenes: Effects of structure and length of side pendant group. Organic Electronics, 2014, 15, 1290-1298.	2.6	14
32	Controlled hydrothermal growth of multi-length-scale ZnO nanowires using liquid masking layers. Journal of Materials Science, 2014, 49, 8000-8009.	3.7	7
33	Graphene-based gas sensor: metal decoration effect and application to a flexible device. Journal of Materials Chemistry C, 2014, 2, 5280-5285.	5.5	198
34	Demonstration of Addressable Organic Resistive Memory Utilizing a PC-Interface Memory Cell Tester. IEEE Electron Device Letters, 2013, 34, 51-53.	3.9	10
35	Corrections to â€œDemonstration of Addressable Organic Resistive Memory Utilizing a PC-Interface Memory Cell Testerâ€•[Jan 13 51-53]. IEEE Electron Device Letters, 2013, 34, 468-468.	3.9	0
36	Highly Flexible and Transparent Multilayer MoS₂ Transistors with Graphene Electrodes. Small, 2013, 9, 3295-3300.	10.0	189

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37	Twistable nonvolatile organic resistive memory devices. Organic Electronics, 2013, 14, 2087-2092.	2.6	27
38	Allâ€Solutionâ€Processed Transparent Thin Film Transistor and Its Application to Liquid Crystals Driving. Advanced Materials, 2013, 25, 3209-3214.	21.0	39
39	Probing the photothermally induced phase transitions in single-crystalline vanadium dioxide nanobeams. Nanotechnology, 2013, 24, 345701.	2.6	18
40	Ultrathin Stickerâ€Type ZnO Thin Film Transistors Formed by Transfer Printing via Topological Confinement of Waterâ€Soluble Sacrificial Polymer in Dimple Structure. Advanced Functional Materials, 2013, 23, 1375-1382.	14.9	21
41	Stickerâ€Type Alq₃â€Based OLEDs Based on Printable Ultrathin Substrates in Periodically Anchored and Suspended Configurations. Advanced Materials, 2013, 25, 5626-5631.	21.0	17
42	Organic nonvolatile memory devices with charge trapping multilayer graphene film. Nanotechnology, 2012, 23, 105202.	2.6	72
43	Printable ultrathin substrates formed on a concaveâ€“convex underlayer for highly flexible membrane-type electrode stickers. Soft Matter, 2012, 8, 7598.	2.7	4
44	Transfer of GaN LEDs From Sapphire to Flexible Substrates by Laser Lift-Off and Contact Printing. IEEE Photonics Technology Letters, 2012, 24, 2115-2118.	2.5	121
45	Enhancing the Charge Transfer of the Counter Electrode in Dyeâ€Sensitized Solar Cells Using Periodically Aligned Platinum Nanocups. Small, 2012, 8, 3757-3761.	10.0	72
46	Arrays of Silicon Micro/Nanostructures Formed in Suspended Configurations for Deterministic Assembly Using Flat and Rollerâ€Type Stamps. Small, 2011, 7, 484-491.	10.0	64
47	Micromechanics and Advanced Designs for Curved Photodetector Arrays in Hemispherical Electronicâ€Eye Cameras. Small, 2010, 6, 851-856.	10.0	94
48	Mechanics of curvilinear electronics. Soft Matter, 2010, 6, 5757.	2.7	74
49	Mechanics of hemispherical electronics. Applied Physics Letters, 2009, 95, 181912.	3.3	19
50	Curvilinear Electronics Formed Using Silicon Membrane Circuits and Elastomeric Transfer Elements. Small, 2009, 5, 2703-2709.	10.0	233
51	A hemispherical electronic eye camera based on compressible silicon optoelectronics. Nature, 2008, 454, 748-753.	27.8	1,211
52	Formation of a Perylenetetracarboxylic Diimide Network Film by Post Electrochemical Treatment. Langmuir, 2006, 22, 9431-9435.	3.5	6
53	Single- and dual-type electrochromic devices based on polycarbazole derivative bearing pendent viologen. Synthetic Metals, 2006, 156, 695-698.	3.9	21
54	Bulk Quantities of Single-Crystal Silicon Micro-/Nanoribbons Generated from Bulk Wafers. Nano Letters, 2006, 6, 2318-2324.	9.1	96

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55	Observation of photoluminescence in polypyrrole micelles. Synthetic Metals, 2005, 150, 127-131.	3.9	32
56	Light-emitting diodes based on alternating copolymers containing fluorene and oligo(p-phenylenevinylene). Synthetic Metals, 2005, 151, 218-224.	3.9	3
57	Systematic prediction of maximum electrochromic contrast of an electrochromic material. Synthetic Metals, 2005, 155, 595-598.	3.9	33
58	Electrochemical Deposition of a Pyrrole-1-yl Substituted Perylene Diimide for Photoluminescence and Electrochromism. Journal of the Electrochemical Society, 2004, 151, E80.	2.9	8
59	Characteristics of dual-type electrochromic device based on poly(3-tetradecylthiophene) and poly(3,4-ethylenedioxythiophene). Synthetic Metals, 2004, 143, 31-35.	3.9	18
60	Light-emitting electrochemical cells based on polyimide containing perylene and tri(ethylene oxide) moieties. Synthetic Metals, 2004, 144, 177-181.	3.9	28
61	Light emitting polyfluorene derivatives with three different structural configurations. Synthetic Metals, 2004, 144, 193-199.	3.9	13
62	Electrochemistry and electrochromism of a poly(cyclopentadithiophene) derivative with a viologen pendant. Electrochimica Acta, 2003, 48, 4127-4135.	5.2	24
63	Assignments of cyclic voltammetric peaks during electrochemical polymerization of pyrrole with viologen pendant. Synthetic Metals, 2003, 139, 439-443.	3.9	7
64	Electrochemistry and electrochromism of the polythiophene derivative with viologen pendant. Synthetic Metals, 2002, 132, 15-20.	3.9	42