

Kyung-Hwa Yoo

List of Publications by Year in descending order

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104
papers

4,275
citations

126858

33
h-index

118793

62
g-index

106
all docs

106
docs citations

106
times ranked

7276
citing authors

#	ARTICLE	IF	CITATIONS
1	Convertible Organic Nanoparticles for Near-Infrared Photothermal Ablation of Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 441-444.	7.2	440
2	Multifunctional Nanoparticles for Combined Doxorubicin and Photothermal Treatments. <i>ACS Nano</i> , 2009, 3, 2919-2926.	7.3	333
3	Targeted Chemo-Photothermal Treatments of Rheumatoid Arthritis Using Gold Half-Shell Multifunctional Nanoparticles. <i>ACS Nano</i> , 2013, 7, 50-57.	7.3	217
4	Synergistic Cancer Therapeutic Effects of Locally Delivered Drug and Heat Using Multifunctional Nanoparticles. <i>Advanced Materials</i> , 2010, 22, 4049-4053.	11.1	164
5	Multifunctional Nanoparticles for Photothermally Controlled Drug Delivery and Magnetic Resonance Imaging Enhancement. <i>Small</i> , 2008, 4, 192-196.	5.2	157
6	Formation of low-resistance ohmic contacts between carbon nanotube and metal electrodes by a rapid thermal annealing method. <i>Journal Physics D: Applied Physics</i> , 2000, 33, 1953-1956.	1.3	151
7	Drug-loaded gold/iron/gold plasmonic nanoparticles for magnetic targeted chemo-photothermal treatment of rheumatoid arthritis. <i>Biomaterials</i> , 2015, 61, 95-102.	5.7	121
8	DNA sensing using split-ring resonator alone at microwave regime. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	120
9	A carbon nanotube metal semiconductor field effect transistor-based biosensor for detection of amyloid-beta in human serum. <i>Biosensors and Bioelectronics</i> , 2013, 50, 345-350.	5.3	118
10	Fano Resonance in Crossed Carbon Nanotubes. <i>Physical Review Letters</i> , 2003, 90, 166403.	2.9	95
11	Reversible resistive switching behaviors in NiO nanowires. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	93
12	Multifunctional Nanoparticles for Targeted Chemophotothermal Treatment of Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7581-7586.	7.2	87
13	Drug-loaded gold plasmonic nanoparticles for treatment of multidrug resistance in cancer. <i>Biomaterials</i> , 2014, 35, 2272-2282.	5.7	84
14	Control of electrical conduction in DNA using oxygen hole doping. <i>Applied Physics Letters</i> , 2002, 80, 1670-1672.	1.5	83
15	Electrically refreshable carbon-nanotube-based gas sensors. <i>Nanotechnology</i> , 2007, 18, 435504.	1.3	75
16	Humidity effects on the conductance of the assembly of DNA molecules. <i>Chemical Physics Letters</i> , 2002, 355, 405-409.	1.2	66
17	Artificial Synaptic Emulators Based on MoS ₂ Flash Memory Devices with Double Floating Gates. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31480-31487.	4.0	66
18	Multilevel MoS ₂ Optical Memory with Photoresponsive Top Floating Gates. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25306-25312.	4.0	65

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19	Nanoisland-Based Random Activation of Fluorescence for Visualizing Endocytotic Internalization of Adenovirus. <i>Small</i> , 2010, 6, 1293-1299.	5.2	63
20	High concentration of nitrogen doped into graphene using N_2 plasma with an aluminum oxide buffer layer. <i>Journal of Materials Chemistry C</i> , 2014, 2, 933-939.	2.7	62
21	Aptamer-functionalized capacitance sensors for real-time monitoring of bacterial growth and antibiotic susceptibility. <i>Biosensors and Bioelectronics</i> , 2018, 102, 164-170.	5.3	62
22	Carbon Nanotube-Based Dual-Mode Biosensor for Electrical and Surface Plasmon Resonance Measurements. <i>Nano Letters</i> , 2010, 10, 2755-2760.	4.5	53
23	Real-time monitoring of 3D cell culture using a 3D capacitance biosensor. <i>Biosensors and Bioelectronics</i> , 2016, 77, 56-61.	5.3	53
24	Influence of Humidity on the Electrical Conductivity of Synthesized DNA Film on Nanogap Electrode. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 891-894.	0.8	49
25	Phase Change Memory in Bi_2Te_3 Nanowires. <i>Advanced Materials</i> , 2011, 23, 1871-1875.	11.1	49
26	Length and temperature dependence of electrical conduction through dithiolated porphyrin arrays. <i>Chemical Physics Letters</i> , 2005, 412, 303-306.	1.2	48
27	Hydrogen Sensing under Ambient Conditions Using SnO_2 Nanowires: Synergetic Effect of Pd/Sn Codeposition. <i>Nano Letters</i> , 2013, 13, 5938-5943.	4.5	45
28	Macrophage Differentiation from Monocytes Is Influenced by the Lipid Oxidation Degree of Low Density Lipoprotein. <i>Mediators of Inflammation</i> , 2015, 2015, 1-10.	1.4	40
29	Langmuir Monolayers of Co Nanoparticles and Their Patterning by Microcontact Printing. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13119-13123.	1.2	39
30	Templated Carbon Nanofiber with Mesoporosity and Semiconductivity. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6447-6450.	1.2	35
31	Surface plasmon enhanced photoconductance and single electron effects in mesoporous titania nanofibers loaded with gold nanoparticles. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	35
32	MoS ₂ triboelectric nanogenerators based on depletion layers. <i>Nano Energy</i> , 2019, 65, 104079.	8.2	35
33	Polypyrrole nanowire-based enzymatic biofuel cells. <i>Biosensors and Bioelectronics</i> , 2009, 25, 350-355.	5.3	33
34	Distinguishing between apoptosis and necrosis using a capacitance sensor. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2586-2591.	5.3	32
35	Effectively enhanced sensitivity of a polyaniline-carbon nanotube composite thin film bolometric near-infrared sensor. <i>Journal of Materials Chemistry</i> , 2012, 22, 3215.	6.7	31
36	Multilevel Nonvolatile Memristive and Memcapacitive Switching in Stacked Graphene Sheets. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14046-14052.	4.0	30

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37	Organic photovoltaic cells fabricated on a SnO _x /Ag/SnO _x multilayer transparent conducting electrode. <i>Thin Solid Films</i> , 2012, 520, 6215-6220.	0.8	29
38	NO ₂ gas sensor based on hydrogenated graphene. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	29
39	Methotrexate-loaded multifunctional nanoparticles with near-infrared irradiation for the treatment of rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , 2020, 22, 146.	1.6	29
40	One-step electrochemical fabrication of vertically self-organized silver nanograss. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4851.	5.2	27
41	Mo _{1-x} W _x Se ₂ -Based Schottky Junction Photovoltaic Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33811-33820.	4.0	24
42	Chemical and Thermal Stability of Pt Nanocubes Synthesized with Various Surface-Capping Agents. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 233-239.	0.9	23
43	Nonlinear transport properties in multiwall carbon nanotube heterojunctions. <i>Applied Physics Letters</i> , 2001, 79, 1351-1353.	1.5	22
44	Electrical transport properties and their reproducibility for linear porphyrin arrays. <i>Materials Science and Engineering C</i> , 2006, 26, 1023-1027.	3.8	22
45	An RF Circuit Model for Interdigital Capacitors-Based Carbon Nanotube Biosensors. <i>IEEE Nanotechnology Magazine</i> , 2010, 9, 682-686.	1.1	22
46	Anodized aluminum oxide-based capacitance sensors for the direct detection of DNA hybridization. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1592-1596.	5.3	21
47	Capacitance-based assay for real-time monitoring of endocytosis and cell viability. <i>Lab on A Chip</i> , 2012, 12, 2377.	3.1	21
48	Glucose oxidase nanotube-based enzymatic biofuel cells with improved laccase biocathodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3510.	1.3	21
49	Tunable Wettability of Graphene through Nondestructive Hydrogenation and Wettability-Based Patterning for Bioapplications. <i>Nano Letters</i> , 2020, 20, 5625-5631.	4.5	21
50	Carbon nanotube-based biosensor for detection hepatitis B. <i>Current Applied Physics</i> , 2009, 9, e229-e231.	1.1	20
51	DNA sensing based on single element planar double split-ring resonator. , 2009, , .		20
52	Aptamer-modified anodized aluminum oxide-based capacitive sensor for the detection of bisphenol A. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	20
53	Enhanced output performance on LbL multilayer PVDF-TrFE piezoelectric films for charging supercapacitor. <i>Scientific Reports</i> , 2019, 9, 6581.	1.6	20
54	Correlated Electrical Transport through Multiwall Carbon Nanotubes in a Crossed Geometry. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 1464-1467.	0.7	19

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55	Temperature dependence of the current-voltage characteristics of a carbon-nanotube heterojunction. <i>Physical Review B</i> , 2001, 64, .	1.1	19
56	Electron trap level in a GaN nanorod p-n junction grown by molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2006, 88, 192104.	1.5	19
57	Capacitance-based real time monitoring of receptor-mediated endocytosis. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1325-1332.	5.3	19
58	Detection of IFN- γ for latent tuberculosis diagnosis using an anodized aluminum oxide-based capacitive sensor. <i>Biosensors and Bioelectronics</i> , 2014, 51, 366-370.	5.3	19
59	Interfacial electronic structure of N,N'-bis(1-naphthyl)-N,N'-diphenyl-1,1'-biphenyl-4,4'-diamine/copper phthalocyanine:C60 composite/Au studied by ultraviolet photoemission spectroscopy. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	18
60	Scaling behaviors for resistive memory switching in NiO nanowire devices. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	18
61	Carbon Nanotube Resonator Based Biosensors. <i>Small</i> , 2008, 4, 1723-1727.	5.2	17
62	Near-infrared photodetectors utilizing MoS ₂ -based heterojunctions. <i>Journal of Applied Physics</i> , 2015, 118, 044504.	1.1	17
63	Metal-insulator crossover in multilayered MoS ₂ . <i>Nanoscale</i> , 2015, 7, 15127-15133.	2.8	17
64	Selective Detection of Single-Stranded DNA Molecules Using a Glass Nanocapillary Functionalized with DNA. <i>Analytical Chemistry</i> , 2016, 88, 688-694.	3.2	17
65	Optoelectric Properties of Gate-Tunable MoS ₂ /WSe ₂ Heterojunction. <i>IEEE Nanotechnology Magazine</i> , 2016, 15, 499-505.	1.1	16
66	Coulomb blockade effect and negative differential resistance in the electronic transport of bacteriorhodopsin. <i>Applied Physics Letters</i> , 2009, 94, 153301.	1.5	15
67	Real-Time Discrimination between Proliferation and Neuronal and Astroglial Differentiation of Human Neural Stem Cells. <i>Scientific Reports</i> , 2014, 4, 6319.	1.6	15
68	Fabrication of a near-infrared sensor using a polyaniline conducting polymer thin film. <i>Thin Solid Films</i> , 2012, 520, 6818-6821.	0.8	13
69	Label-free and real-time monitoring of human mesenchymal stem cell differentiation in 2D and 3D cell culture systems using impedance cell sensors. <i>RSC Advances</i> , 2018, 8, 31246-31254.	1.7	13
70	Rectifying optoelectronic memory based on WSe ₂ /graphene heterostructures. <i>Nanoscale Advances</i> , 2021, 3, 4952-4960.	2.2	13
71	DNA linker controlled single electron tunneling behavior of nanoparticle assembly. <i>Journal of Applied Physics</i> , 2005, 98, 084315.	1.1	12
72	Collective dynamics of neuronal activities in various modular networks. <i>Lab on A Chip</i> , 2021, 21, 951-961.	3.1	12

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73	Electrical transport properties of a nanorod GaN p-n homojunction grown by molecular-beam epitaxy. <i>Journal of Applied Physics</i> , 2008, 103, 066107.	1.1	11
74	Electrical antimicrobial susceptibility testing based on aptamer-functionalized capacitance sensor array for clinical isolates. <i>Scientific Reports</i> , 2020, 10, 13709.	1.6	11
75	Large field-of-view nanometer-sectioning microscopy by using metal-induced energy transfer and biexponential lifetime analysis. <i>Communications Biology</i> , 2021, 4, 91.	2.0	11
76	On the possibility of Biosensors Based on Split Ring Resonators. , 2008, , .		10
77	Carbon nanotube-based biosensor for detection of matrix metalloproteinase-9 and S-100B. <i>Current Applied Physics</i> , 2009, 9, e270-e272.	1.1	10
78	Enhancement of triboelectricity based on fully organic composite films with a conducting polymer. <i>RSC Advances</i> , 2022, 12, 2820-2829.	1.7	10
79	Unipolar-to-Ambipolar Conversion of Organic Thin-Film Transistors by Organosilane Self-Assembled Monolayer. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16266-16270.	1.2	9
80	Effect hyperthermia in CoFe ₂ O ₄ @MnFe ₂ O ₄ nanoparticles studied by using field-induced Mössbauer spectroscopy. <i>Journal of the Korean Physical Society</i> , 2013, 63, 2175-2178.	0.3	9
81	Tribodiffusion-driven triboelectric nanogenerators based on MoS ₂ . <i>Journal of Materials Chemistry A</i> , 2021, 9, 10316-10325.	5.2	9
82	Energy level alignment in N,N'-bis(1-naphthyl)-N,N'-diphenyl-1,1'-biphenyl-4,4'-diamine (NPB)/hexadecafluoro copper phthalocyanine (F16CuPc)/Au and NPB/CuPc/Au heterojunction. <i>Synthetic Metals</i> , 2008, 158, 539-543.	2.1	8
83	Memristive Switching in Bi _{1-x} Sbx Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9224-9230.	4.0	8
84	Vertical capacitance aptasensors for real-time monitoring of bacterial growth and antibiotic susceptibility in blood. <i>Biosensors and Bioelectronics</i> , 2019, 143, 111623.	5.3	8
85	Power-free electrostatic collecting film development for purifying indoor air pollution. <i>Nano Energy</i> , 2019, 65, 104034.	8.2	7
86	GeTe Nanosheets as Theranostic Agents for Multimodal Imaging and Therapy of Inflammatory Bowel Disease. <i>Advanced Functional Materials</i> , 2022, 32, 2107433.	7.8	7
87	Photoelectrochemical cells using metal-decorated carbon nanotube electrodes. <i>Current Applied Physics</i> , 2010, 10, 153-157.	1.1	6
88	Non-Local Transport in a Multi-Wall Carbon Nanotube. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 789-792.	0.7	5
89	Structural and electronic characteristics induced by carbonization control of mesoporous carbon nanofibers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 187, 9-14.	1.7	4
90	Dielectric imaging for differentiation between cancer and inflammation in vivo. <i>Scientific Reports</i> , 2017, 7, 13137.	1.6	4

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91	Magnetic nanoparticle-based separation of metallic and semiconducting carbon nanotubes. Nanotechnology, 2011, 22, 045703.	1.3	3
92	Horizontal Assembly of Single Nanowire Diode Fabricated by p-n Junction GaN NW Grown by MOCVD. Journal of Nanomaterials, 2014, 2014, 1-9.	1.5	3
93	Ternary Devices Based on Partially Aligned MoS ₂ /h-BN/Graphene Heterostructures. Advanced Materials Interfaces, 2021, 8, 2101109.	1.9	3
94	Photothermal inactivation of universal viral particles by localized surface plasmon resonance mediated heating filter membrane. Scientific Reports, 2022, 12, 1724.	1.6	3
95	Ag Interlayered Transparent Conducting Electrode for Photovoltaic Cells. Japanese Journal of Applied Physics, 2012, 51, 10NE07.	0.8	2
96	Memory Effect in an Aluminum Single-Electron Floating-Node Memory Cell. Japanese Journal of Applied Physics, 2000, 39, 4826-4829.	0.8	1
97	Temperature Dependence of Coulomb Oscillations on DNA-Mediated Au Nanoparticle Assembly. IEEE Nanotechnology Magazine, 2007, 6, 718-721.	1.1	1
98	Analysis of Tertiary Interactions between SART3 and U6 Small Nuclear RNA Using Modified Nanocapillaries. Analytical Chemistry, 2017, 89, 2390-2397.	3.2	1
99	Two-Terminal Self-Gating Random-Access Memory Based on Partially Aligned 2D Heterostructures. Advanced Electronic Materials, 2022, 8, .	2.6	1
100	The suppression of Coulomb oscillation in a normal-ferromagnet-normal metal single-electron transistor. Physica B: Condensed Matter, 2000, 284-288, 1794-1795.	1.3	0
101	Detection technique of biotin-streptavidin binding using semiconducting single walled carbon nanotube based on interdigital capacitors. , 2008, , .		0
102	Numerical Simulation of a DNA Sensor Based on the CNT-Gold Island Structure. , 2009, , .		0
103	Reversible resistive switching behaviors in NiO nanowires. , 2010, , .		0
104	Transparent photodiodes consisting of p-type CNT/n-type ZnO heterojunction with graphene electrodes. , 2015, , .		0