

Kyung-Hwa Yoo

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Enhancement of triboelectricity based on fully organic composite films with a conducting polymer. <i>RSC Advances</i> , 2022, 12, 2820-2829.	1.7	10
3	Photothermal inactivation of universal viral particles by localized surface plasmon resonance mediated heating filter membrane. <i>Scientific Reports</i> , 2022, 12, 1724.	1.6	3
4	Two-terminal Self-Gating Random-Access Memory Based on Partially Aligned 2D Heterostructures. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	1
5	Tribodiffusion-driven triboelectric nanogenerators based on MoS ₂ . <i>Journal of Materials Chemistry A</i> , 2021, 9, 10316-10325.	5.2	9
6	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
7	Rectifying optoelectronic memory based on WSe ₂ /graphene heterostructures. <i>Nanoscale Advances</i> , 2021, 3, 4952-4960.	2.2	13
8	Collective dynamics of neuronal activities in various modular networks. <i>Lab on A Chip</i> , 2021, 21, 951-961.	3.1	12
9	Ternary Devices Based on Partially Aligned MoS ₂ /h-BN/Graphene Heterostructures. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101109.	1.9	3
10	Electrical antimicrobial susceptibility testing based on aptamer-functionalized capacitance sensor array for clinical isolates. <i>Scientific Reports</i> , 2020, 10, 13709.	1.6	11
11	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
12	Tunable Wettability of Graphene through Nondestructive Hydrogenation and Wettability-Based Patterning for Bioapplications. <i>Nano Letters</i> , 2020, 20, 5625-5631.	4.5	21
13	Multilevel MoS ₂ Optical Memory with Photoresponsive Top Floating Gates. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25306-25312.	4.0	65
14	Power-free electrostatic collecting film development for purifying indoor air pollution. <i>Nano Energy</i> , 2019, 65, 104034.	8.2	7
15	MoS ₂ triboelectric nanogenerators based on depletion layers. <i>Nano Energy</i> , 2019, 65, 104079.	8.2	35
16	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
17	Enhanced output performance on LbL multilayer PVDF-TrFE piezoelectric films for charging supercapacitor. <i>Scientific Reports</i> , 2019, 9, 6581.	1.6	20
18	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

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19	Label-free and real-time monitoring of human mesenchymal stem cell differentiation in 2D and 3D cell culture systems using impedance cell sensors. RSC Advances, 2018, 8, 31246-31254.	1.7	13
20	Artificial Synaptic Emulators Based on MoS ₂ Flash Memory Devices with Double Floating Gates. ACS Applied Materials & Interfaces, 2018, 10, 31480-31487.	4.0	66
21	Analysis of Tertiary Interactions between SART3 and U6 Small Nuclear RNA Using Modified Nanocapillaries. Analytical Chemistry, 2017, 89, 2390-2397.	3.2	1
22	Dielectric imaging for differentiation between cancer and inflammation in vivo. Scientific Reports, 2017, 7, 13137.	1.6	4
23	NO ₂ gas sensor based on hydrogenated graphene. Applied Physics Letters, 2017, 111, .	1.5	29
24	Mo _{1-x} W _x Se ₂ -Based Schottky Junction Photovoltaic Cells. ACS Applied Materials & Interfaces, 2016, 8, 33811-33820.	4.0	24
25	Multilevel Nonvolatile Memristive and Memcapacitive Switching in Stacked Graphene Sheets. ACS Applied Materials & Interfaces, 2016, 8, 14046-14052.	4.0	30
26	Optoelectric Properties of Gate-Tunable MoS ₂ /WSe ₂ Heterojunction. IEEE Nanotechnology Magazine, 2016, 15, 499-505.	1.1	16
27	Memristive Switching in Bi _{1-x} Sb _x Nanowires. ACS Applied Materials & Interfaces, 2016, 8, 9224-9230.	4.0	8
28	Selective Detection of Single-Stranded DNA Molecules Using a Glass Nanocapillary Functionalized with DNA. Analytical Chemistry, 2016, 88, 688-694.	3.2	17
29	Real-time monitoring of 3D cell culture using a 3D capacitance biosensor. Biosensors and Bioelectronics, 2016, 77, 56-61.	5.3	53
30	Macrophage Differentiation from Monocytes Is Influenced by the Lipid Oxidation Degree of Low Density Lipoprotein. Mediators of Inflammation, 2015, 2015, 1-10.	1.4	40
31	Transparent photodiodes consisting of p-type CNT/n-type ZnO heterojunction with graphene electrodes. , 2015, , .		0
32	Drug-loaded gold/iron/gold plasmonic nanoparticles for magnetic targeted chemo-photothermal treatment of rheumatoid arthritis. Biomaterials, 2015, 61, 95-102.	5.7	121
33	Near-infrared photodetectors utilizing MoS ₂ -based heterojunctions. Journal of Applied Physics, 2015, 118, 044504.	1.1	17
34	Metal-insulator crossover in multilayered MoS ₂ . Nanoscale, 2015, 7, 15127-15133.	2.8	17
35	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
36	Scaling behaviors for resistive memory switching in NiO nanowire devices. Applied Physics Letters, 2014, 104, .	1.5	18

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37	Detection of IFN- β for latent tuberculosis diagnosis using an anodized aluminum oxide-based capacitive sensor. <i>Biosensors and Bioelectronics</i> , 2014, 51, 366-370.	5.3	19
38	Drug-loaded gold plasmonic nanoparticles for treatment of multidrug resistance in cancer. <i>Biomaterials</i> , 2014, 35, 2272-2282.	5.7	84
39	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
40	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
41	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
42	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
43	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
44	One-step electrochemical fabrication of vertically self-organized silver nanograss. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4851.	5.2	27
45	Targeted Chemo-Photothermal Treatments of Rheumatoid Arthritis Using Gold Half-Shell Multifunctional Nanoparticles. <i>ACS Nano</i> , 2013, 7, 50-57.	7.3	217
46	Glucose oxidase nanotube-based enzymatic biofuel cells with improved laccase biocathodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3510.	1.3	21
47	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
48	Ag Interlayered Transparent Conducting Electrode for Photovoltaic Cells. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 10NE07.	0.8	2
49	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
50	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
51	Capacitance-based assay for real-time monitoring of endocytosis and cell viability. <i>Lab on A Chip</i> , 2012, 12, 2377.	3.1	21
52	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
53	Magnetic nanoparticle-based separation of metallic and semiconducting carbon nanotubes. <i>Nanotechnology</i> , 2011, 22, 045703.	1.3	3
54	Phase Change Memory in Bi ₂ Te ₃ Nanowires. <i>Advanced Materials</i> , 2011, 23, 1871-1875.	11.1	49

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55	Convertible Organic Nanoparticles for Near-Infrared Photothermal Ablation of Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 441-444.	7.2	440
56	Multifunctional Nanoparticles for Targeted Chemophotothermal Treatment of Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7581-7586.	7.2	87
57	Aptamer-modified anodized aluminum oxide-based capacitive sensor for the detection of bisphenol A. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	20
58	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
59	Photoelectrochemical cells using metal-decorated carbon nanotube electrodes. <i>Current Applied Physics</i> , 2010, 10, 153-157.	1.1	6
60	Synergistic Cancer Therapeutic Effects of Locally Delivered Drug and Heat Using Multifunctional Nanoparticles. <i>Advanced Materials</i> , 2010, 22, 4049-4053.	11.1	164
61	Capacitance-based real time monitoring of receptor-mediated endocytosis. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1325-1332.	5.3	19
62	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
63	Nanoisland-Based Random Activation of Fluorescence for Visualizing Endocytotic Internalization of Adenovirus. <i>Small</i> , 2010, 6, 1293-1299.	5.2	63
64	Reversible resistive switching behaviors in NiO nanowires. , 2010, , .		0
65	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
66	An RF Circuit Model for Interdigital Capacitors-Based Carbon Nanotube Biosensors. <i>IEEE Nanotechnology Magazine</i> , 2010, 9, 682-686.	1.1	22
67	DNA sensing using split-ring resonator alone at microwave regime. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	120
68	Carbon Nanotube-Based Dual-Mode Biosensor for Electrical and Surface Plasmon Resonance Measurements. <i>Nano Letters</i> , 2010, 10, 2755-2760.	4.5	53
69	Coulomb blockade effect and negative differential resistance in the electronic transport of bacteriorhodopsin. <i>Applied Physics Letters</i> , 2009, 94, 153301.	1.5	15
70	Distinguishing between apoptosis and necrosis using a capacitance sensor. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2586-2591.	5.3	32
71	Polypyrrole nanowire-based enzymatic biofuel cells. <i>Biosensors and Bioelectronics</i> , 2009, 25, 350-355.	5.3	33
72	Carbon nanotube-based biosensor for detection hepatitis B. <i>Current Applied Physics</i> , 2009, 9, e229-e231.	1.1	20

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73	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
74	DNA sensing based on single element planar double split-ring resonator. , 2009, , .		20
75	Numerical Simulation of a DNA Sensor Based on the CNT-Gold Island Structure. , 2009, , .		0
76	Multifunctional Nanoparticles for Combined Doxorubicin and Photothermal Treatments. <i>ACS Nano</i> , 2009, 3, 2919-2926.	7.3	333
77	Multifunctional Nanoparticles for Photothermally Controlled Drug Delivery and Magnetic Resonance Imaging Enhancement. <i>Small</i> , 2008, 4, 192-196.	5.2	157
78	On the possibility of Biosensors Based on Split Ring Resonators. , 2008, , .		10
79	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
80	Carbon Nanotube Resonator Based Biosensors. <i>Small</i> , 2008, 4, 1723-1727.	5.2	17
81	Reversible resistive switching behaviors in NiO nanowires. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	93
82	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
83	Detection technique of biotin-streptavidin binding using semiconducting single walled carbon nanotube based on interdigital capacitors. , 2008, , .		0
84	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
85	Electrically refreshable carbon-nanotube-based gas sensors. <i>Nanotechnology</i> , 2007, 18, 435504.	1.3	75
86	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
87	Temperature Dependence of Coulomb Oscillations on DNA-Mediated Au Nanoparticle Assembly. <i>IEEE Nanotechnology Magazine</i> , 2007, 6, 718-721.	1.1	1
88	Templated Carbon Nanofiber with Mesoporosity and Semiconductivity. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6447-6450.	1.2	35
89	Electrical transport properties and their reproducibility for linear porphyrin arrays. <i>Materials Science and Engineering C</i> , 2006, 26, 1023-1027.	3.8	22
90	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

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91	Length and temperature dependence of electrical conduction through dithiolated porphyrin arrays. Chemical Physics Letters, 2005, 412, 303-306.	1.2	48
92	DNA linker controlled single electron tunneling behavior of nanoparticle assembly. Journal of Applied Physics, 2005, 98, 084315.	1.1	12
93	Langmuir Monolayers of Co Nanoparticles and Their Patterning by Microcontact Printing. Journal of Physical Chemistry B, 2005, 109, 13119-13123.	1.2	39
94	Fano Resonance in Crossed Carbon Nanotubes. Physical Review Letters, 2003, 90, 166403.	2.9	95
95	Influence of Humidity on the Electrical Conductivity of Synthesized DNA Film on Nanogap Electrode. Japanese Journal of Applied Physics, 2002, 41, 891-894.	0.8	49
96	Control of electrical conduction in DNA using oxygen hole doping. Applied Physics Letters, 2002, 80, 1670-1672.	1.5	83
97	Humidity effects on the conductance of the assembly of DNA molecules. Chemical Physics Letters, 2002, 355, 405-409.	1.2	66
98	Correlated Electrical Transport through Multiwall Carbon Nanotubes in a Crossed Geometry. Journal of the Physical Society of Japan, 2001, 70, 1464-1467.	0.7	19
99	Non-Local Transport in a Multi-Wall Carbon Nanotube. Journal of the Physical Society of Japan, 2001, 70, 789-792.	0.7	5
100	Nonlinear transport properties in multiwall carbon nanotube heterojunctions. Applied Physics Letters, 2001, 79, 1351-1353.	1.5	22
101	Temperature dependence of the current-voltage characteristics of a carbon-nanotube heterojunction. Physical Review B, 2001, 64, .	1.1	19
102	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
103	Formation of low-resistance ohmic contacts between carbon nanotube and metal electrodes by a rapid thermal annealing method. Journal Physics D: Applied Physics, 2000, 33, 1953-1956.	1.3	151
104	Memory Effect in an Aluminum Single-Electron Floating-Node Memory Cell. Japanese Journal of Applied Physics, 2000, 39, 4826-4829.	0.8	1