

# Kyekyoon Kevin Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

1,756  
citations

471509

17  
h-index

265206

42  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protease-activated indocyanine green nanoprobe for intraoperative NIR fluorescence imaging of primary tumors. <i>Nanoscale Advances</i> , 2022, 4, 4041-4050.	4.6	2
2	Observation of bandgap closing in Sr <sub>1-x</sub> Ba <sub>1-x</sub> BiO <sub>3</sub> films: Evidence toward topological order in BaBiO <sub>3</sub> . <i>Journal of Applied Physics</i> , 2022, 132, .	2.5	1
3	High-Performance GaN Vertical p-i-n Diodes via Silicon Nitride Shadowed Selective-Area Growth and Optimized FGR- and JTE-Based Edge Termination. <i>IEEE Journal of the Electron Devices Society</i> , 2021, 9, 68-78.	2.1	2
4	Design of selective-area growth compatible fully-vertical GaN p-i-n diodes with dielectric vertical sidewall appended edge termination schemes. <i>Semiconductor Science and Technology</i> , 2021, 36, 035024.	2.0	1
5	Investigation of optical properties of aluminum-doped zinc oxide films via flow-limited field-injection electrostatic spraying. <i>AIP Advances</i> , 2020, 10, 095211.	1.3	3
6	Single intranasal administration of 17 $\beta$ -estradiol loaded gelatin nanoparticles confers neuroprotection in the post-ischemic brain. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 29, 102246.	3.3	14
7	Sustained exenatide delivery via intracapsular microspheres for improved survival and function of microencapsulated porcine islets. <i>Drug Delivery and Translational Research</i> , 2018, 8, 857-862.	5.8	12
8	Moving mesh adaptation for Si and GaN-based power device simulation. <i>Journal of Computational Electronics</i> , 2018, 17, 1621-1629.	2.5	1
9	Improved survival of anchorage-dependent cells in core-shell hydrogel microcapsules via co-encapsulation with cell-friendly microspheres. <i>Journal of Microencapsulation</i> , 2017, 34, 57-62.	2.8	6
10	Acute effects of aerobic stretching, health and happiness improving movement exercise on cortical activity of children. <i>Journal of Exercise Rehabilitation</i> , 2016, 12, 320-327.	1.0	9
11	Toxicity of silica nanoparticles depends on size, dose, and cell type. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1407-1416.	3.3	292
12	High-current AlGaN/GaN high electron mobility transistors achieved by selective-area growth via plasma-assisted molecular beam epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 180-183.	1.8	3
13	Biodegradable gelatin microspheres enhance the neuroprotective potency of osteopontin via quick and sustained release in the post-ischemic brain. <i>Acta Biomaterialia</i> , 2014, 10, 3126-3135.	8.3	46
14	Effects of controlled surface treatment on titanium dioxide electrode nanostructure for dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 371-380.	2.3	7
15	AlGaN/GaN MOSHEMT With High-Quality $\text{SiO}_2$ Gate Achieved by Room-Temperature Radio Frequency Magnetron Sputtering. <i>IEEE Transactions on Electron Devices</i> , 2012, 59, 2650-2655.	3.0	45
16	Controlled release of <i>Pantoea agglomerans</i> E325 for biocontrol of fire blight disease of apple. <i>Journal of Controlled Release</i> , 2012, 161, 109-115.	9.9	52
17	Integration of Type II Nanorod Heterostructures into Photovoltaics. <i>ACS Nano</i> , 2011, 5, 7677-7683.	14.6	72
18	Nonalloyed ohmic contact of AlGaN/GaN HEMTs by selective area growth of single-crystal n <sup>+</sup> -GaN using plasma assisted molecular beam epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 951-954.	1.8	14

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19	Interface analysis of Ti/Al/Ti/Au ohmic contacts with regrown n <sup>+</sup> GaN layers using molecular beam epitaxy. Surface and Interface Analysis, 2011, 43, 1627-1631.	1.8	4
20	Modeling of small-molecule release from crosslinked hydrogel microspheres: Effect of crosslinking and enzymatic degradation of hydrogel matrix. International Journal of Pharmaceutics, 2011, 403, 90-95.	5.2	13
21	Breakdown Voltage Enhancement of AlGaIn/GaN High-Electron-Mobility Transistors via Selective-Area Growth for Ohmic Contacts over Ion Implantation. Journal of Electronic Materials, 2010, 39, 499-503.	2.2	14
22	Structural Properties of AlN Grown on Sapphire at Plasma Self-Heating Conditions Using Reactive Magnetron Sputter Deposition. Journal of Electronic Materials, 2010, 39, 1146-1151.	2.2	19
23	TiO <sub>2</sub> nanoparticle-nanofiber composites and their application in dye-sensitized solar cells. , 2010, , .		0
24	TiO <sub>2</sub> nanoparticle generation by flame pyrolysis FFESS system. , 2010, , .		0
25	Large-Periphery AlGaIn/GaN High Electron Mobility Transistors for High-Power Operation. , 2010, , .		0
26	Elastic buckling of AlN ribbons on elastomeric substrate. Applied Physics Letters, 2009, 94, 092104.	3.3	5
27	Uniform ethyl cellulose microspheres of controlled sizes and polymer viscosities and their drug release profiles. Journal of Applied Polymer Science, 2009, 112, 850-857.	2.6	10
28	Formation of Low-Resistance Ohmic Contact by Damage-Proof Selective-Area Growth of Single-Crystal n <sup>+</sup> GaN Using Plasma-Assisted Molecular Beam Epitaxy. Journal of Electronic Materials, 2008, 37, 635-640.	2.2	3
29	Monodisperse Gelatin Microspheres as a Drug Delivery Vehicle: Release Profile and Effect of Crosslinking Density. Macromolecular Bioscience, 2008, 8, 758-765.	4.1	36
30	Uniform Chitosan Microspheres for Potential Application to Colon-Specific Drug Delivery. Macromolecular Bioscience, 2008, 8, 1173-1181.	4.1	8
31	Ti-based nonalloyed Ohmic contacts for Al <sub>0.15</sub> Ga <sub>0.85</sub> N-GaN high electron mobility transistors using regrown n <sup>+</sup> GaN by plasma assisted molecular beam epitaxy. Applied Physics Letters, 2008, 93, .	3.3	23
32	13.4: Copper Nanowires with Five-Twinned Structure Grown by Chemical Vapor Deposition and their Application to Field Emission Displays. Digest of Technical Papers SID International Symposium, 2008, 39, 163-166.	0.3	1
33	Comprehensive model for fine Coulomb fission of liquid droplets charged to Rayleigh limit. Applied Physics Letters, 2007, 91, .	3.3	33
34	Uniform Biodegradable Hydrogel Microspheres Fabricated by a Surfactant-Free Electric-Field-Assisted Method. Macromolecular Bioscience, 2007, 7, 423-428.	4.1	18
35	Monodisperse Liquid-filled Biodegradable Microcapsules. Pharmaceutical Research, 2007, 24, 1007-1013.	3.5	57
36	A quantum mechanical approach to an analytical expression of the single-molecule-single-nanoparticle surface enhanced raman scattering. , 2006, , .		0

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37	Simultaneous generation and deposition of cobalt nanoparticles by flow-limited field-injection electrostatic spraying for catalytic growth of single-walled carbon nanotubes. , 2006, , .		0
38	Generation and characterization of copper nanowires, nanoparticles, and thin films by flow-limited field-injection electrostatic spraying. , 2006, , .		0
39	Selective-area growth and fabrication of recessed-gate GaN MESFET using plasma-assisted molecular beam epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1872-1875.	1.8	5
40	The improvement of selective-area growth using plasma assisted molecular beam epitaxy for low ohmic contact resistance. , 2006, , .		0
41	Field emission characteristics of vertically aligned free-standing copper nanowires grown by chemical vapor deposition with no template. , 2006, , .		0
42	Transmission electron microscopy analysis of freestanding copper nanowires grown by chemical vapor deposition with no template or seed. , 2006, , .		0
43	A new approach to accurate resistivity measurement for a single nanowire &#x2014; theory and application. , 2006, , .		0
44	Imaging Therapeutic Proteins in Gelatin for Controlled Drug Release. Macromolecular Symposia, 2005, 227, 295-306.	0.7	2
45	SrTiO <sub>3</sub> Thin Films Deposited by CLCB in Combination with Sol-Gel Processing. Electrochemical and Solid-State Letters, 2004, 7, F70.	2.2	4
46	Low-Temperature Growth of Highly Crystalline (Ba, $\delta$ %Sr)TiO <sub>3</sub> Films by CLCB Method. Electrochemical and Solid-State Letters, 2004, 7, F77.	2.2	8
47	Precision Polymer Microparticles for Controlled-Release Drug Delivery. ACS Symposium Series, 2004, , 197-213.	0.5	5
48	Near-field photoluminescence spectroscopy of InGaN films grown by molecular-beam epitaxy. Applied Physics Letters, 2002, 80, 989-991.	3.3	18
49	Low-temperature fabrication of high-quality (Ba, Sr)TiO <sub>3</sub> films using charged liquid cluster beam method. Journal of Materials Research, 2002, 17, 1888-1891.	2.6	7
50	Precise control of PLG microsphere size provides enhanced control of drug release rate. Journal of Controlled Release, 2002, 82, 137-147.	9.9	348
51	Fabrication of PLG microspheres with precisely controlled and monodisperse size distributions. Journal of Controlled Release, 2001, 73, 59-74.	9.9	314
52	Buffer layer strain transfer in AlN/GaN near critical thickness. Journal of Applied Physics, 1999, 85, 4040-4044.	2.5	22
53	Critical thickness of GaN thin films on sapphire (0001). Applied Physics Letters, 1996, 69, 2358-2360.	3.3	105
54	Extrapolation of critical thickness of GaN thin films from lattice constant data using synchrotron X-ray. Materials Research Society Symposia Proceedings, 1996, 423, 557.	0.1	2

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55	Fabrication of ZnO thin films using charged liquid cluster beam technique. Applied Physics Letters, 1995, 67, 3337-3339.	3.3	29
56	Fabrication of highly concentrated Er <sup>3+</sup> doped aluminosilicate films via sol-gel processing. Applied Physics Letters, 1995, 66, 2496-2498.	3.3	60
57	Fabrication of Glass Micro- and Nanospheres from Liquid Precursors Using Droplet Generation and Sol-Gel Processing. Materials Research Society Symposia Proceedings, 1994, 372, 25.	0.1	1
58	Noncontact coating of spherical-shell ICF targets using gas-dynamic levitation and charged liquid cluster beam. , 0, , .		0
59	Design of PAMBE-based selective-area growth compliant ultra-low leakage GaN mixed-conduction vertical diodes for high-power applications. Semiconductor Science and Technology, 0, , .	2.0	0