

# Won-Kook Choi

## List of Publications by Year in descending order

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171  
papers

5,749  
citations

87888

38  
h-index

88630

70  
g-index

175  
all docs

175  
docs citations

175  
times ranked

8422  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Organic Framework-Assisted Metal-Ion Doping in All-Inorganic Perovskite for Dual-Mode Image Sensing Display. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	12
2	Blue-Light Emissive Type II ZnO@5-Amino-2-Naphthalene Sulfonic Acid Core-Shell Quantum Dots. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	3
3	Thin film encapsulation for quantum dot light-emitting diodes using a-SiN <sub>x</sub> :H/SiO <sub>N</sub> /hybrid SiO <sub>x</sub> barriers. <i>RSC Advances</i> , 2022, 12, 4113-4119.	3.6	2
4	Halide Perovskite Nanocrystal-Enabled Stabilization of Transition Metal Dichalcogenide Nanosheets (Small 6/2022). <i>Small</i> , 2022, 18, .	10.0	0
5	Photoluminescence and Electron Paramagnetic Resonance Spectroscopy for Revealing Visible Emission of ZnO Quantum Dots. <i>Annalen Der Physik</i> , 2022, 534, .	2.4	9
6	Halide Perovskite Nanocrystal-Enabled Stabilization of Transition Metal Dichalcogenide Nanosheets. <i>Small</i> , 2022, 18, e2106035.	10.0	7
7	Scalable graphene fluoride sandwiched aramid nanofiber paper with superior high-temperature capacitive energy storage. <i>Chemical Engineering Journal</i> , 2022, 444, 136504.	12.7	7
8	Enhanced Luminance of CdSe/ZnS Quantum Dots Light-Emitting Diodes Using ZnO-Oleic Acid/ZnO Quantum Dots Double Electron Transport Layer. <i>Nanomaterials</i> , 2022, 12, 2038.	4.1	2
9	3D printing of copper particles and poly(methyl methacrylate) beads containing poly(lactic acid) composites for enhancing thermomechanical properties. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49776.	2.6	19
10	Scalable ultrarobust thermoconductive nonflammable bioinspired papers of graphene nanoplatelet crosslinked aramid nanofibers for thermal management and electromagnetic shielding. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8527-8540.	10.3	53
11	Luminance efficiency roll-off mechanism in CsPbBr <sub>3</sub> Cl mixed-halide perovskite quantum dot blue light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3608-3619.	5.5	32
12	High-performance coaxial piezoelectric energy generator (C-PEG) yarn of Cu/PVDF-TrFE/PDMS/Nylon/Ag. <i>Nanotechnology</i> , 2021, 32, 145401.	2.6	15
13	Exploitation of Improved Long-Term Stability and Enhanced Photoconversion Efficiency of Organic Photovoltaics Using Flexible Transparent Conducting Electrode with Dual Functions of Antireflection and Ultrahigh Moisture Barrier. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100112.	5.8	3
14	Ultrathin thermally conductive yet electrically insulating exfoliated graphene fluoride film for high performance heat dissipation. <i>Carbon</i> , 2020, 157, 741-749.	10.3	69
15	Rapid Defrost Transparent Thin-Film Heater with Flexibility and Chemical Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 38406-38414.	8.0	12
16	Self-defect-passivation by Br-enrichment in FA-doped Cs <sub>1-x</sub> FAPbBr <sub>3</sub> quantum dots: towards high-performance quantum dot light-emitting diodes. <i>Scientific Reports</i> , 2020, 10, 14758.	3.3	9
17	Highly Flexible Graphene Derivative Hybrid Film: An Outstanding Nonflammable Thermally Conductive yet Electrically Insulating Material for Efficient Thermal Management. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26413-26423.	8.0	38
18	Effect of aspect ratio of vertically aligned copper nanowires in the presence of cellulose nanofibers on the thermal conductivity of epoxy composites. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2351-2359.	3.2	13

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19	Ultralow Water Permeation Barrier Films of Triad a-SiN <sub>x</sub> :H/n-SiO <sub>x</sub> N <sub>y</sub> /h-SiO <sub>x</sub> Structure for Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 32106-32118.	8.0	16
20	Ultralight covalently interconnected silicon carbide aerofoam for high performance thermally conductive epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 138, 106028.	7.6	22
21	Hybrid Thin-Film Encapsulation for All-Solid-State Thin-Film Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11504-11510.	8.0	11
22	Realization of Excitation Wavelength Independent Blue Emission of ZnO Quantum Dots with Intrinsic Defects. <i>ACS Photonics</i> , 2020, 7, 723-734.	6.6	29
23	Polymer-Assisted Nanoimprinting for Environment- and Phase-Stable Perovskite Nanopatterns. <i>ACS Nano</i> , 2020, 14, 1645-1655.	14.6	38
24	High Thermal Conductivity Enhancement of Polymer Composites with Vertically Aligned Silicon Carbide Sheet Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 23388-23398.	8.0	69
25	Direct conjugation with a zero length linker of fullerene C <sub>70</sub> to ZnO quantum dots for multicolor light-emitting diodes. <i>Materials Horizons</i> , 2020, 7, 1533-1541.	12.2	2
26	Perovskite Nanopatterning: Highly Photoluminescent and Environmentally Stable Perovskite Nanocrystals Templated in Thin Self-Assembled Block Copolymer Films ( <i>Adv. Funct. Mater.</i> 26/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970181.	14.9	1
27	Highly Photoluminescent and Environmentally Stable Perovskite Nanocrystals Templated in Thin Self-Assembled Block Copolymer Films. <i>Advanced Functional Materials</i> , 2019, 29, 1808193.	14.9	37
28	Electrical energy generated by silicone elastomers filled with nanospring-carbon-nanotubes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3535-3542.	5.5	13
29	Insertion of an Inorganic Barrier Layer as a Method of Improving the Performance of Quantum Dot Light-Emitting Diodes. <i>ACS Photonics</i> , 2019, 6, 743-748.	6.6	23
30	Optimization of the electron transport in quantum dot light-emitting diodes by codoping ZnO with gallium (Ga) and magnesium (Mg). <i>RSC Advances</i> , 2019, 9, 32066-32071.	3.6	20
31	Electron transport phenomena at the interface of Al electrode and heavily doped degenerate ZnO nanoparticles in quantum dot light emitting diode. <i>Nanotechnology</i> , 2019, 30, 035207.	2.6	4
32	Resistive switching functional quantum-dot light-emitting diodes. <i>Current Applied Physics</i> , 2019, 19, 102-107.	2.4	4
33	Thermally conductive adhesives from covalent-bonding of reduced graphene oxide to acrylic copolymer. <i>Journal of Adhesion</i> , 2019, 95, 887-910.	3.0	12
34	Performance enhancement in organic photovoltaic solar cells using iridium (Ir) ultra-thin surface modifier (USM). <i>Applied Surface Science</i> , 2018, 444, 97-104.	6.1	11
35	InGaZnO transistor based on porous Ag nanowire-functionalized gate electrode for detection of bio-relevant molecules. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 36-43.	7.8	7
36	Synergistic effects of segregated network by polymethylmethacrylate beads and sintering of copper nanoparticles on thermal and electrical properties of epoxy composites. <i>Composites Science and Technology</i> , 2018, 155, 144-150.	7.8	40

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37	Bottom-Up Synthesis of Carbon Quantum Dots With High Performance Photo- and Electroluminescence. Particle and Particle Systems Characterization, 2018, 35, 1800080.	2.3	23
38	Modeling large permittivity of poly(vinylidene fluoride-co-trifluoroethylene) and nanospring single-walled carbon nanotube-polyvinylpyrrolidone nanocomposites. AIP Advances, 2018, 8, 085113.	1.3	2
39	Transparent high-performance SiO <sub>x</sub> N <sub>y</sub> /SiO <sub>x</sub> barrier films for organic photovoltaic cells with high durability. Nano Energy, 2017, 33, 12-20.	16.0	8
40	Highly flexible inverted-quantum-dot light-emitting diodes on elastic polyurethane substrates. Journal of Materials Chemistry C, 2017, 5, 1596-1600.	5.5	17
41	Mixed-Dimensional 1D ZnO@2D WSe <sub>2</sub> van der Waals Heterojunction Device for Photosensors. Advanced Functional Materials, 2017, 27, 1703822.	14.9	98
42	Surface engineering of the electron collecting layers for high performance organic photovoltaic cells. Current Applied Physics, 2017, 17, 1476-1482.	2.4	1
43	Graphene Oxide Inserted Poly(N-vinylcarbazole)/Vanadium Oxide Hole Transport Heterojunctions for High-Efficiency Quantum-Dot Light-Emitting Diodes. Advanced Materials Interfaces, 2017, 4, 1700476.	3.7	11
44	Nonvolatile Charge Injection Memory Based on Black Phosphorous 2D Nanosheets for Charge Trapping and Active Channel Layers. Advanced Functional Materials, 2016, 26, 5701-5707.	14.9	49
45	Chemical free device fabrication of two dimensional van der Waals materials based transistors by using one-off stamping. Applied Physics Letters, 2016, 108, .	3.3	13
46	Metal-oxide thin-film transistor-based pH sensor with a silver nanowire top gate electrode. Journal of the Korean Physical Society, 2016, 68, 901-907.	0.7	3
47	A facile chemical synthesis of ZnO@multilayer graphene nanoparticles with fast charge separation and enhanced performance for application in solar energy conversion. Nano Energy, 2016, 25, 9-17.	16.0	35
48	Alternative Patterning Process for Realization of Large-Area, Full-Color, Active Quantum Dot Display. Nano Letters, 2016, 16, 6946-6953.	9.1	171
49	Reduced graphene oxide wrapped core-shell metal nanowires as promising flexible transparent conductive electrodes with enhanced stability. Nanoscale, 2016, 8, 18938-18944.	5.6	35
50	High-performance black phosphorus top-gate ferroelectric transistor for nonvolatile memory applications. Journal of the Korean Physical Society, 2016, 69, 1347-1351.	0.7	6
51	Emissive CdTe/ZnO/GO quasi-core-shell hybrid quantum dots for white light emitting diodes. Nanoscale, 2016, 8, 19737-19743.	5.6	12
52	Ultrasoother transparent conductive hybrid films of reduced graphene oxide and single-walled carbon nanotube by ultrasonic spraying. Synthetic Metals, 2016, 221, 340-344.	3.9	12
53	Direct Electron Transfer of Enzymes in a Biologically Assembled Conductive Nanomesh Enzyme Platform. Advanced Materials, 2016, 28, 1577-1584.	21.0	43
54	High-performance flexible transparent electrode films based on silver nanowire-PEDOT:PSS hybrid-gels. RSC Advances, 2016, 6, 64428-64433.	3.6	35

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55	Synthesis and optoelectronic characteristics of 20 nm diameter silver nanowires for highly transparent electrode films. <i>RSC Advances</i> , 2016, 6, 11702-11710.	3.6	58
56	Enhanced photovoltaic performance of inverted polymer solar cells utilizing versatile chemically functionalized ZnO@graphene quantum dot monolayer. <i>Nano Energy</i> , 2016, 20, 221-232.	16.0	44
57	Ultrasensitive PbS quantum-dot-sensitized InGaZnO hybrid photoinverter for near-infrared detection and imaging with high photogain. <i>NPG Asia Materials</i> , 2016, 8, e233-e233.	7.9	129
58	Black phosphorus saturable absorber for ultrafast mode-locked pulse laser via evanescent field interaction. <i>Annalen Der Physik</i> , 2015, 527, 770-776.	2.4	115
59	Solution-processed quantum dot light-emitting diodes with PANI:PSS hole-transport interlayers. <i>Organic Electronics</i> , 2015, 19, 131-139.	2.6	43
60	Nano carbon conformal coating strategy for enhanced photoelectrochemical responses and long-term stability of ZnO quantum dots. <i>Nano Energy</i> , 2015, 13, 258-266.	16.0	53
61	Enhanced Light Scattering and Trapping Effect of Ag Nanowire Mesh Electrode for High Efficient Flexible Organic Solar Cell. <i>Small</i> , 2015, 11, 1905-1911.	10.0	78
62	Inverted Quantum Dot Light Emitting Diodes using Polyethylenimine ethoxylated modified ZnO. <i>Scientific Reports</i> , 2015, 5, 8968.	3.3	113
63	Doped SnO <sub>2</sub> Transparent Conductive Multilayer Thin Films Explored by Continuous Composition Spread. <i>ACS Combinatorial Science</i> , 2015, 17, 247-252.	3.8	17
64	Nonvolatile Ferroelectric Memory Circuit Using Black Phosphorus Nanosheet-Based Field-Effect Transistors with P(VDF-TrFE) Polymer. <i>ACS Nano</i> , 2015, 9, 10394-10401.	14.6	130
65	Crystal Structure and Optical Properties of Al-Doped ZnO Large-Area Thin Films Using 1500 mm Dual Cylindrical Cathodes. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 8370-8374.	0.9	0
66	Fluorine doped zinc tin oxide multilayer transparent conducting Oxides for organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 134, 5-14.	6.2	32
67	Nano-sized indium-free MTO/Ag/MTO transparent conducting electrode prepared by RF sputtering at room temperature for organic photovoltaic cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 80-85.	6.2	27
68	Transparent Conducting Multilayer Electrode (GTO/Ag/GTO) Prepared by Radio-Frequency Sputtering for Organic Photovoltaic's Cells. <i>Journal of Sensor Science and Technology</i> , 2015, 24, 219-223.	0.2	2
69	Electrical and Optical Properties of Asymmetric Dielectric/Metal/Dielectric (D/M/D) Multilayer Electrode Prepared by Radio-Frequency Sputtering for Solar Cells. <i>Journal of Sensor Science and Technology</i> , 2015, 24, 15-21.	0.2	0
70	Dye-sensitized solar cells with ZnO nanoparticles fabricated at low temperature. <i>Journal of the Korean Physical Society</i> , 2014, 65, 1430-1434.	0.7	4
71	Low-temperature-fabricated ZnO, AZO, and SnO <sub>2</sub> nanoparticle-based dye-sensitized solar cells. <i>Journal of the Korean Physical Society</i> , 2014, 65, 1315-1319.	0.7	10
72	Effect of geometric lattice design on optical/electrical properties of transparent silver grid for organic solar cells. <i>Optics Express</i> , 2014, 22, 26891.	3.4	36

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73	Fabrication and surface plasmon coupling studies on the dielectric/Ag structure for transparent conducting electrode applications. <i>Optical Materials Express</i> , 2014, 4, 2078.	3.0	16
74	Highly transparent ZTO/Ag/ZTO multilayer electrode deposited by inline sputtering process for organic photovoltaic cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1860-1867.	1.8	14
75	Two-Dimensionally Grown Single-Crystal Silicon Nanosheets with Tunable Visible-Light Emissions. <i>ACS Nano</i> , 2014, 8, 6556-6562.	14.6	55
76	Inverted CdSe/ZnS quantum dots light-emitting diode using low-work function organic material polyethylenimine ethoxylated. <i>Journal of Materials Chemistry C</i> , 2014, 2, 510-514.	5.5	77
77	Few-Layer Black Phosphorus Field-Effect Transistors with Reduced Current Fluctuation. <i>ACS Nano</i> , 2014, 8, 11753-11762.	14.6	264
78	Carrier transport mechanisms of hybrid ZnO nanorod-polymer LEDs. <i>Journal of the Korean Physical Society</i> , 2014, 65, 162-167.	0.7	3
79	Structurally Nanocrystalline-Electrically Single Crystalline ZnO-Reduced Graphene Oxide Composites. <i>Nano Letters</i> , 2014, 14, 5104-5109.	9.1	64
80	Split-Second Nanostructure Control of a Polymer:Fullerene Photoactive Layer using Intensely Pulsed White Light for Highly Efficient Production of Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1495-1501.	8.0	13
81	Carrier transport of inverted quantum dot LED with PEIE polymer. <i>Organic Electronics</i> , 2014, 15, 886-892.	2.6	25
82	Theoretical investigation on the electronic and charge transport characteristics of push/pull molecules for organic photovoltaic cells. <i>Synthetic Metals</i> , 2014, 194, 118-125.	3.9	12
83	Ultrasonic-sprayed Graphene Oxide and Air-sprayed Silver Nanowire for the Preparation of Flexible Transparent Conductive Films. <i>Chemistry Letters</i> , 2014, 43, 1242-1244.	1.3	10
84	Synthesis of p-type GaN nanowires. <i>Nanoscale</i> , 2013, 5, 8550.	5.6	13
85	Highly conductive and damp heat stable transparent ZnO based thin films for flexible electronics. <i>Journal of Alloys and Compounds</i> , 2013, 554, 240-245.	5.5	14
86	Chemical exfoliation of pure graphene sheets from synthesized ZnO/graphene quasi core/shell quantum dots. <i>Carbon</i> , 2013, 59, 289-295.	10.3	21
87	Order/Disorder Transition in the Molecular Orientation during Initial Growth of Organic Thin Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 1896-1901.	8.0	4
88	Improved Electrical Properties of Indium Gallium Zinc Oxide Thin-Film Transistors by AZO/Ag/AZO Multilayer Electrode. <i>Journal of Sensor Science and Technology</i> , 2013, 22, 105-110.	0.2	5
89	Charge separation and ultraviolet photovoltaic conversion of ZnO quantum dots conjugated with graphene nanoshells. <i>Nano Research</i> , 2012, 5, 747-761.	10.4	40
90	High efficiency ultraviolet photovoltaic cells based on ZnO <sub>60</sub> core/shell QDs with organic/inorganic multilayer structure. <i>Journal of Materials Chemistry</i> , 2012, 22, 816-819.	6.7	27

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91	Emissive ZnO-graphene quantum dots for white-light-emitting diodes. <i>Nature Nanotechnology</i> , 2012, 7, 465-471.	31.5	646
92	Influence of substrate temperature on the electrical and optical properties of Ga-doped ZnO thin films fabricated by continuous composition spread. <i>Ceramics International</i> , 2012, 38, S605-S608.	4.8	15
93	Photoluminescence studies on MBE grown Co-doped ZnO thin films fabricated through ion implantation and swift heavy ion irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2012, 272, 305-308.	1.4	9
94	Organic photovoltaic cells fabricated on a SnOx/Ag/SnOx multilayer transparent conducting electrode. <i>Thin Solid Films</i> , 2012, 520, 6215-6220.	1.8	29
95	Ag Interlayered Transparent Conducting Electrode for Photovoltaic Cells. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 10NE07.	1.5	9
96	Effect of Substrate Temperature on Electrical and Optical Properties of Al Doped ZnO Thin Films by Continuous Composition Spread. <i>Journal of Sensor Science and Technology</i> , 2012, 21, 263-269.	0.2	0
97	Bistable Organic Memory Device with Gold Nanoparticles Embedded in a Conducting Poly( <i>N</i> -vinylcarbazole) Colloids Hybrid. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2341-2348.	3.1	110
98	Mn:SnO <sub>2</sub> ceramics as p-type oxide semiconductor. <i>Materials Letters</i> , 2011, 65, 722-725.	2.6	45
99	Polymer-ultrathin graphite sheet-polymer composite structured flexible nonvolatile bistable organic memory devices. <i>Nanotechnology</i> , 2011, 22, 295203.	2.6	31
100	Electrical and optical properties of Ga doped zinc oxide thin films deposited at room temperature by continuous composition spread. <i>Applied Surface Science</i> , 2010, 256, 6219-6223.	6.1	18
101	ZrO <sub>2</sub> -Modified LiMn <sub>2</sub> O <sub>4</sub> Thin-Film Cathodes Prepared by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , 2010, 157, A567.	2.9	17
102	Direct Fabrication of Zero- and One-Dimensional Metal Nanocrystals by Thermally Assisted Electromigration. <i>ACS Nano</i> , 2010, 4, 2999-3004.	14.6	16
103	Flexible Organic Bistable Devices Based on Graphene Embedded in an Insulating Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 9.1 277	9.1	277
104	Magnetic Field Dependent Characteristics of Al-doped ZnO by High Power Impulse Magnetron Sputtering (HIPIMS). <i>Korean Journal of Materials Research</i> , 2010, 20, 629-635.	0.2	1
105	Electrical and Optical Properties of Al-doped Zinc-oxide Thin Films Deposited at Room Temperature by Using the Continuous Composition Spread Method. <i>Journal of the Korean Physical Society</i> , 2010, 57, 1092-1095.	0.7	3
106	ZnO Nanoparticle Based Dye-Sensitized Solar Cells Devices Fabricated Utilizing Hydropolymer at Low Temperature. <i>Korean Journal of Materials Research</i> , 2010, 20, 483-487.	0.2	0
107	Carrier transport in flexible organic bistable devices of ZnO nanoparticles embedded in an insulating poly(methyl methacrylate) polymer layer. <i>Nanotechnology</i> , 2009, 20, 195203.	2.6	131
108	Electroluminescence of a single active layer polymer-nanocrystal hybrid light-emitting diode with inversion symmetry. <i>Nanotechnology</i> , 2009, 20, 275205.	2.6	19

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109	Negative thermal quenching in undoped ZnO and Ga-doped ZnO film grown on c-Al <sub>2</sub> O <sub>3</sub> (0001) by plasma-assisted molecular beam epitaxy. <i>Journal of Electroceramics</i> , 2009, 23, 331-334.	2.0	4
110	XPS/EXAFS study of cycleability improved LiMn <sub>2</sub> O <sub>4</sub> thin film cathodes prepared by solution deposition. <i>Electrochemistry Communications</i> , 2009, 11, 695-698.	4.7	24
111	Amorphous indium tin oxide electrodes for piezoelectric and light-emitting device deposited by vacuum roll to roll process. <i>Thin Solid Films</i> , 2009, 517, 4015-4018.	1.8	8
112	Low energy O <sub>2</sub> <sup>+</sup> and N <sub>2</sub> O <sup>+</sup> ion beam modification of polyimide for improving adhesive strength of Cu/PI in roll-to-roll process. <i>Thin Solid Films</i> , 2009, 517, 4222-4225.	1.8	8
113	Polyimide surface modification by linear stationary plasma thruster. <i>Surface and Coatings Technology</i> , 2009, 203, 2739-2742.	4.8	10
114	Improvement of Electrochemical Characteristics by Changing Morphologies of Carbon Electrode. <i>Korean Journal of Materials Research</i> , 2009, 19, 544~549-544~549.	0.2	3
115	Blue Luminescent Center in Undoped ZnO Thin Films Grown by Plasma-assisted Molecular Beam Epitaxy. <i>Korean Journal of Materials Research</i> , 2009, 19, 281-287.	0.2	1
116	Improved cycleability of LiMn <sub>2</sub> O <sub>4</sub> -based thin films by Sn substitution. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	6
117	Single active-layer structured dual-function devices using hybrid polymer-quantum dots. <i>Nanotechnology</i> , 2008, 19, 395201.	2.6	16
118	Nonvolatile flexible organic bistable devices fabricated utilizing CdSe/ZnS nanoparticles embedded in a conducting poly-N-vinylcarbazole polymer layer. <i>Nanotechnology</i> , 2008, 19, 055204.	2.6	85
119	Linear ion source with closed drift and extended acceleration region. <i>Review of Scientific Instruments</i> , 2008, 79, 02B312.	1.3	5
120	Flexible Audible Display using ITO on PVDF and Its Interface Analysis. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1116, 203.	0.1	0
121	Dependence of the Optical Properties on the Substrate Temperature in ZnO Thin Films Grown on Flexible Polyimide Substrates. <i>Journal of the Korean Physical Society</i> , 2008, 53, 347-350.	0.7	2
122	STRUCTURAL AND OPTICAL PROPERTIES OF ZnO THIN FILMS GROWN ON FLEXIBLE POLYIMIDE SUBSTRATES. <i>Surface Review and Letters</i> , 2007, 14, 801-805.	1.1	2
123	Superhydrophilic polymer surface modification by low energy reactive ion beam irradiation using a closed electron Hall drift ion source. <i>Surface and Coatings Technology</i> , 2007, 201, 8099-8104.	4.8	16
124	Fabrication of 2-layer Flexible Copper Clad Laminate by Vacuum Web Coater with a Low Energy Ion Source for Surface Modification. <i>Korean Journal of Materials Research</i> , 2007, 17, 509-515.	0.2	0
125	Characteristics of Large Area ITO/PET Fabricated by Vacuum Web Coater. <i>Korean Journal of Materials Research</i> , 2007, 17, 516-520.	0.2	1
126	Single phase formation of Co-implanted ZnO thin films by swift heavy ion irradiation: Optical studies. <i>Journal of Applied Physics</i> , 2006, 100, 113708.	2.5	44



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127	Chemical reaction of sputtered Cu film with PI modified by low energy reactive atomic beam. Applied Surface Science, 2006, 252, 5877-5891.	6.1	107
128	Electron transport in high quality undoped ZnO film grown by plasma-assisted molecular beam epitaxy. Solid State Communications, 2006, 137, 474-477.	1.9	16
129	Enhancement of the surface and structural properties of ZnO epitaxial films grown on Al <sub>2</sub> O <sub>3</sub> substrates utilizing annealed ZnO buffer layers. Journal of Electroceramics, 2006, 17, 283-285.	2.0	2
130	Ferromagnetism in 200-MeV Ag <sup>+</sup> 15-ion-irradiated Co-implanted ZnO thin films. Applied Physics Letters, 2006, 88, 142502.	3.3	47
131	Two-dimensional growth of ZnO epitaxial films on c-Al <sub>2</sub> O <sub>3</sub> (0001) substrates with optimized growth temperature and low-temperature buffer layer by plasma-assisted molecular beam epitaxy. Journal of Crystal Growth, 2005, 274, 418-424.	1.5	35
132	Effects of interfacial NH <sub>3</sub> /N <sub>2</sub> O-plasma treatment on the structural and electrical properties of ultra-thin HfO <sub>2</sub> gate dielectrics on p-Si substrates. Solid-State Electronics, 2005, 49, 524-528.	1.4	22
133	Fabrication of Nanostructures on InP(100) Surface with Irradiation of Low Energy and High Flux Ion Beams. Korean Journal of Materials Research, 2005, 15, 361-369.	0.2	0
134	Superhydrophilic Surface Modification of Polyvinylidene Fluoride by Low Energy and High Flux ion Beam Irradiation. Korean Journal of Materials Research, 2005, 15, 382-387.	0.2	0
135	Low-energy ion beam treatment of $\hat{1}\pm$ -Al <sub>2</sub> O <sub>3</sub> (0001) and improvement of photoluminescence of ZnO thin films. Metals and Materials International, 2004, 10, 351-355.	3.4	6
136	Fabrication and properties of As-doped ZnO films grown on GaAs(0 0 1) substrates by radio frequency (rf) magnetron sputtering. Applied Surface Science, 2004, 221, 32-37.	6.1	22
137	The effect of ZnO homo-buffer layer on ZnO thin films grown on c-Al <sub>2</sub> O <sub>3</sub> (0001) by plasma assisted molecular beam epitaxy. Journal of Crystal Growth, 2004, 267, 85-91.	1.5	22
138	Characteristics of MIS capacitors using Ta <sub>2</sub> O <sub>5</sub> films deposited on ZnO/p-Si. Microelectronic Engineering, 2003, 66, 637-642.	2.4	4
139	Effects of H[sub 2] Annealing Treatment on Photoluminescence and Structure of ZnO:Al/Al[sub 2]O[sub 3] Grown by Radio-Frequency Magnetron Sputtering. Journal of the Electrochemical Society, 2003, 150, H225.	2.9	21
140	Characteristics of ultrathin HfO <sub>2</sub> gate dielectrics on strained-Si <sub>0.74</sub> Ge <sub>0.26</sub> layers. Applied Physics Letters, 2003, 83, 779-781.	3.3	32
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