

Won-Kook Choi

List of Publications by Year in descending order

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171
papers

5,749
citations

87888

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88630

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175
all docs

175
docs citations

175
times ranked

8422
citing authors

#	ARTICLE	IF	CITATIONS
1	Emissive ZnO-graphene quantum dots for white-light-emitting diodes. <i>Nature Nanotechnology</i> , 2012, 7, 465-471.	31.5	646
2	Flexible Organic Bistable Devices Based on Graphene Embedded in an Insulating Poly(methyl Tj ETQq0 0 0 rgBT /Oyerlock 10, If, 50 702	9.1	277
3	Few-Layer Black Phosphorus Field-Effect Transistors with Reduced Current Fluctuation. <i>ACS Nano</i> , 2014, 8, 11753-11762.	14.6	264
4	The grain size effects on the photoluminescence of ZnO/Al ₂ O ₃ grown by radio-frequency magnetron sputtering. <i>Journal of Applied Physics</i> , 2000, 87, 3573-3575.	2.5	218
5	Alternative Patterning Process for Realization of Large-Area, Full-Color, Active Quantum Dot Display. <i>Nano Letters</i> , 2016, 16, 6946-6953.	9.1	171
6	Low-resistance and nonalloyed ohmic contacts to plasma treated ZnO. <i>Applied Physics Letters</i> , 2001, 78, 3842-3844.	3.3	136
7	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
8	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
9	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
10	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
11	Inverted Quantum Dot Light Emitting Diodes using Polyethylenimine ethoxylated modified ZnO. <i>Scientific Reports</i> , 2015, 5, 8968.	3.3	113
12	Low-resistance Ti/Au ohmic contacts to Al-doped ZnO layers. <i>Applied Physics Letters</i> , 2000, 77, 1647-1649.	3.3	112
13	Bistable Organic Memory Device with Gold Nanoparticles Embedded in a Conducting Poly(N-vinylcarbazole) Colloids Hybrid. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2341-2348.	3.1	110
14	Chemical reaction of sputtered Cu film with PI modified by low energy reactive atomic beam. <i>Applied Surface Science</i> , 2006, 252, 5877-5891.	6.1	107
15	Mixed-Dimensional 1D ZnO-2D WSe ₂ van der Waals Heterojunction Device for Photosensors. <i>Advanced Functional Materials</i> , 2017, 27, 1703822.	14.9	98
16	Dry Etching of ZnO Using an Inductively Coupled Plasma. <i>Journal of the Electrochemical Society</i> , 2001, 148, G1.	2.9	86
17	Nonvolatile flexible organic bistable devices fabricated utilizing CdSe/ZnS nanoparticles embedded in a conducting N-vinylcarbazole polymer layer. <i>Nanotechnology</i> , 2008, 19, 055204.	2.6	85
18	Surface modification of polytetrafluoroethylene by Ar ⁺ irradiation for improved adhesion to other materials. <i>Journal of Applied Polymer Science</i> , 1997, 64, 1913-1921.	2.6	80

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19	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
20	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
21	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
22	High Thermal Conductivity Enhancement of Polymer Composites with Vertically Aligned Silicon Carbide Sheet Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23388-23398.	8.0	69
23	Structurally Nanocrystalline-Electrically Single Crystalline ZnO-Reduced Graphene Oxide Composites. <i>Nano Letters</i> , 2014, 14, 5104-5109.	9.1	64
24	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
25	Improving wettability of polycarbonate and adhesion with aluminum by Ar ⁺ ion irradiation. <i>Journal of Materials Research</i> , 1995, 10, 2390-2394.	2.6	56
26	Two-Dimensionally Grown Single-Crystal Silicon Nanosheets with Tunable Visible-Light Emissions. <i>ACS Nano</i> , 2014, 8, 6556-6562.	14.6	55
27	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
28	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
29	Nonvolatile Charge Injection Memory Based on Black Phosphorous 2D Nanosheets for Charge Trapping and Active Channel Layers. <i>Advanced Functional Materials</i> , 2016, 26, 5701-5707.	14.9	49
30	Ferromagnetism in 200-MeV Ag ⁺ -ion-irradiated Co-implanted ZnO thin films. <i>Applied Physics Letters</i> , 2006, 88, 142502.	3.3	47
31	Mn:SnO ₂ ceramics as p-type oxide semiconductor. <i>Materials Letters</i> , 2011, 65, 722-725.	2.6	45
32	Ar ⁺ ion irradiation in oxygen environment for improving wettability of polymethylmethacrylate. <i>Journal of Materials Research</i> , 1996, 11, 2933-2939.	2.6	44
33	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
34	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
35	Solution-processed quantum dot light-emitting diodes with PANI:PSS hole-transport interlayers. <i>Organic Electronics</i> , 2015, 19, 131-139.	2.6	43
36	Direct Electron Transfer of Enzymes in a Biologically Assembled Conductive Nanomesh Enzyme Platform. <i>Advanced Materials</i> , 2016, 28, 1577-1584.	21.0	43

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37	Structure and gas-sensing characteristics of undoped tin oxide thin films fabricated by ion-assisted deposition. <i>Sensors and Actuators B: Chemical</i> , 1998, 46, 42-49.	7.8	42
38	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
39	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
40	Highly Flexible Graphene Derivative Hybrid Film: An Outstanding Nonflammable Thermally Conductive yet Electrically Insulating Material for Efficient Thermal Management. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26413-26423.	8.0	38
41	Polymer-Assisted Nanoimprinting for Environment- and Phase-Stable Perovskite Nanopatterns. <i>ACS Nano</i> , 2020, 14, 1645-1655.	14.6	38
42	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
43	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
44	Enhancement of CO sensitivity of indium oxide-based semiconductor gas sensor through ultra-thin cobalt adsorption. <i>Sensors and Actuators B: Chemical</i> , 2001, 79, 200-205.	7.8	35
45	Two-dimensional growth of ZnO epitaxial films on c-Al ₂ O ₃ (0001) substrates with optimized growth temperature and low-temperature buffer layer by plasma-assisted molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2005, 274, 418-424.	1.5	35
46	A facile chemical synthesis of ZnO@multilayer graphene nanoparticles with fast charge separation and enhanced performance for application in solar energy conversion. <i>Nano Energy</i> , 2016, 25, 9-17.	16.0	35
47	Reduced graphene oxide wrapped core-shell metal nanowires as promising flexible transparent conductive electrodes with enhanced stability. <i>Nanoscale</i> , 2016, 8, 18938-18944.	5.6	35
48	High-performance flexible transparent electrode films based on silver nanowire-PEDOT:PSS hybrid-gels. <i>RSC Advances</i> , 2016, 6, 64428-64433.	3.6	35
49	Enhancement of Photoluminescence and Electrical Properties of Ga-Doped ZnO Thin Film Grown on \pm -Al ₂ O ₃ (0001) Single-Crystal Substrate by rf Magnetron Sputtering through Rapid Thermal Annealing. <i>Japanese Journal of Applied Physics</i> , 2001, 40, L1040-L1043.	1.5	32
50	Characteristics of ultrathin HfO ₂ gate dielectrics on strained-Si _{0.74} Ge _{0.26} layers. <i>Applied Physics Letters</i> , 2003, 83, 779-781.	3.3	32
51	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
52	Luminance efficiency roll-off mechanism in CsPbBr _{3-x} Cl _x mixed-halide perovskite quantum dot blue light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3608-3619.	5.5	32
53	Polymer-ultrathin graphite sheet-polymer composite structured flexible nonvolatile bistable organic memory devices. <i>Nanotechnology</i> , 2011, 22, 295203.	2.6	31
54	Effect of oxygen gas on polycarbonate surface in keV energy Ar ⁺ ion irradiation. <i>Journal of Materials Research</i> , 1997, 12, 277-282.	2.6	29

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55	Organic photovoltaic cells fabricated on a SnO _x /Ag/SnO _x multilayer transparent conducting electrode. <i>Thin Solid Films</i> , 2012, 520, 6215-6220.	1.8	29
56	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
57	High efficiency ultraviolet photovoltaic cells based on ZnO@C ₆₀ core-shell QDs with organic-inorganic multilayer structure. <i>Journal of Materials Chemistry</i> , 2012, 22, 816-819.	6.7	27
58	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
59	Carrier transport of inverted quantum dot LED with PEIE polymer. <i>Organic Electronics</i> , 2014, 15, 886-892.	2.6	25
60	Surface reaction on polyvinylidene fluoride (PVDF) irradiated by low energy ion beam in reactive gas environment. <i>Journal of Applied Polymer Science</i> , 1999, 72, 41-47.	2.6	24
61	XPS/EXAFS study of cycleability improved LiMn ₂ O ₄ thin film cathodes prepared by solution deposition. <i>Electrochemistry Communications</i> , 2009, 11, 695-698.	4.7	24
62	Bottom-Up Synthesis of Carbon Quantum Dots With High Performance Photo- and Electroluminescence. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800080.	2.3	23
63	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
64	Relation between hydrophilicity and cell culturing on polystyrene Petri dish modified by ion-assisted reaction. <i>Journal of Applied Polymer Science</i> , 1999, 73, 41-46.	2.6	22
65	Fabrication and properties of As-doped ZnO films grown on GaAs(0 0 1) substrates by radio frequency (rf) magnetron sputtering. <i>Applied Surface Science</i> , 2004, 221, 32-37.	6.1	22
66	The effect of ZnO homo-buffer layer on ZnO thin films grown on c-Al ₂ O ₃ (0001) by plasma assisted molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2004, 267, 85-91.	1.5	22
67	Effects of interfacial NH ₃ /N ₂ O-plasma treatment on the structural and electrical properties of ultra-thin HfO ₂ gate dielectrics on p-Si substrates. <i>Solid-State Electronics</i> , 2005, 49, 524-528.	1.4	22
68	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
69	Effects of H ₂ Annealing Treatment on Photoluminescence and Structure of ZnO:Al/Al ₂ O ₃ Grown by Radio-Frequency Magnetron Sputtering. <i>Journal of the Electrochemical Society</i> , 2003, 150, H225.	2.9	21
70	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
71	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
72	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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73	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
74	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
75	ZrO ₂ -Modified LiMn ₂ O ₄ Thin-Film Cathodes Prepared by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , 2010, 157, A567.	2.9	17
76	Doped SnO ₂ Transparent Conductive Multilayer Thin Films Explored by Continuous Composition Spread. <i>ACS Combinatorial Science</i> , 2015, 17, 247-252.	3.8	17
77	Highly flexible inverted-quantum-dot light-emitting diodes on elastic polyurethane substrates. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1596-1600.	5.5	17
78	Electron transport in high quality undoped ZnO film grown by plasma-assisted molecular beam epitaxy. <i>Solid State Communications</i> , 2006, 137, 474-477.	1.9	16
79	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
80	Single active-layer structured dual-function devices using hybrid polymer-quantum dots. <i>Nanotechnology</i> , 2008, 19, 395201.	2.6	16
81	Direct Fabrication of Zero- and One-Dimensional Metal Nanocrystals by Thermally Assisted Electromigration. <i>ACS Nano</i> , 2010, 4, 2999-3004.	14.6	16
82	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
83	Ultralow Water Permeation Barrier Films of Triad a-SiN _x :H/n-SiO _x N _x /h-SiO _x Structure for Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 32106-32118.	8.0	16
84	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
85	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
86	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
87	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
88	Alkali-metal chemisorption on Ta(110). <i>Physical Review B</i> , 1995, 51, 1823-1829.	3.2	13
89	Synthesis of p-type GaN nanowires. <i>Nanoscale</i> , 2013, 5, 8550.	5.6	13
90	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 & Interfaces</i> , 2014, 6, 1495-1501.	8.0	13

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91	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
92	Electrical energy generated by silicone elastomers filled with nanospring-carbon-nanotubes. Journal of Materials Chemistry C, 2019, 7, 3535-3542.	5.5	13
93	Effect of aspect ratio of vertically aligned copper nanowires in the presence of cellulose nanofibers on the thermal conductivity of epoxy composites. Polymers for Advanced Technologies, 2020, 31, 2351-2359.	3.2	13
94	X-ray photoelectron spectroscopy studies of modified surfaces of Al_2O_3 , SiO_2 , and Si_3N_4 by low energy reactive ion beam irradiation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 3362-3367.	2.1	12
95	Theoretical investigation on the electronic and charge transport characteristics of push-pull molecules for organic photovoltaic cells. Synthetic Metals, 2014, 194, 118-125.	3.9	12
96	Emissive CdTe/ZnO/GO quasi-core-shell hybrid quantum dots for white light emitting diodes. Nanoscale, 2016, 8, 19737-19743.	5.6	12
97	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
98	Thermally conductive adhesives from covalent-bonding of reduced graphene oxide to acrylic copolymer. Journal of Adhesion, 2019, 95, 887-910.	3.0	12
99	Rapid Defrost Transparent Thin-Film Heater with Flexibility and Chemical Stability. ACS Applied Materials & Interfaces, 2020, 12, 38406-38414.	8.0	12
100	Metal-Organic Framework-Assisted Metal Ion Doping in All-Inorganic Perovskite for Dual-Mode Image Sensing Display. Advanced Functional Materials, 2022, 32, .	14.9	12
101	Auger Electron and X-Ray Photoelectron Spectroscopy Studies of Oxidation of Tin Using SnO ₂ Thin Films Grown by Reactive Ion-Assisted Deposition. Japanese Journal of Applied Physics, 1996, 35, 5820-5824.	1.5	11
102	Effect of Oxygen Ion Energy and Annealing in Formation of Tin Oxide Thin Films. Japanese Journal of Applied Physics, 1997, 36, 2281-2287.	1.5	11
103	Graphene Oxide Inserted Poly(<i>N</i> -vinylcarbazole)/Vanadium Oxide Hole Transport Heterojunctions for High-Efficiency Quantum Dot Light-Emitting Diodes. Advanced Materials Interfaces, 2017, 4, 1700476.	3.7	11
104	Performance enhancement in organic photovoltaic solar cells using iridium (Ir) ultra-thin surface modifier (USM). Applied Surface Science, 2018, 444, 97-104.	6.1	11
105	Hybrid Thin-Film Encapsulation for All-Solid-State Thin-Film Batteries. ACS Applied Materials & Interfaces, 2020, 12, 11504-11510.	8.0	11
106	Polyimide surface modification by linear stationary plasma thruster. Surface and Coatings Technology, 2009, 203, 2739-2742.	4.8	10
107	Low-temperature-fabricated ZnO, AZO, and SnO ₂ nanoparticle-based dye-sensitized solar cells. Journal of the Korean Physical Society, 2014, 65, 1315-1319.	0.7	10
108	Ultrasonic-sprayed Graphene Oxide and Air-sprayed Silver Nanowire for the Preparation of Flexible Transparent Conductive Films. Chemistry Letters, 2014, 43, 1242-1244.	1.3	10

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109	Photoluminescence studies on MBE grown Co-doped ZnO thin films fabricated through ion implantation and swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2012, 272, 305-308.	1.4	9
110	Self-defect-passivation by Br-enrichment in FA-doped Cs _{1-x} FAPbBr ₃ quantum dots: towards high-performance quantum dot light-emitting diodes. Scientific Reports, 2020, 10, 14758.	3.3	9
111	Ag Interlayered Transparent Conducting Electrode for Photovoltaic Cells. Japanese Journal of Applied Physics, 2012, 51, 10NE07.	1.5	9
112	Photoluminescence and Electron Paramagnetic Resonance Spectroscopy for Revealing Visible Emission of ZnO Quantum Dots. Annalen Der Physik, 2022, 534, .	2.4	9
113	Amorphous indium tin oxide electrodes for piezoelectric and light-emitting device deposited by vacuum roll to roll process. Thin Solid Films, 2009, 517, 4015-4018.	1.8	8
114	Low energy O ₂ ⁺ and N ₂ O ⁺ ion beam modification of polyimide for improving adhesive strength of Cu/PI in roll-to-roll process. Thin Solid Films, 2009, 517, 4222-4225.	1.8	8
115	Transparent high-performance SiO _x N _y /SiO _x barrier films for organic photovoltaic cells with high durability. Nano Energy, 2017, 33, 12-20.	16.0	8
116	Cu films deposited by a partially ionized beam (PIB). Thin Solid Films, 1996, 287, 266-270.	1.8	7
117	InGaZnO transistor based on porous Ag nanowire-functionalized gate electrode for detection of bio-relevant molecules. Sensors and Actuators B: Chemical, 2018, 254, 36-43.	7.8	7
118	Halide Perovskite Nanocrystal-Enabled Stabilization of Transition Metal Dichalcogenide Nanosheets. Small, 2022, 18, e2106035.	10.0	7
119	Scalable graphene fluoride sandwiched aramid nanofiber paper with superior high-temperature capacitive energy storage. Chemical Engineering Journal, 2022, 444, 136504.	12.7	7
120	Delocalization of the Fe 3d levels in the quasi-two-dimensional correlated insulator FePS ₃ . Physical Review B, 1994, 50, 15276-15286.	3.2	6
121	Low-energy ion beam treatment of α -Al ₂ O ₃ (0001) and improvement of photoluminescence of ZnO thin films. Metals and Materials International, 2004, 10, 351-355.	3.4	6
122	Improved cycleability of LiMn ₂ O ₄ -based thin films by Sn substitution. Applied Physics Letters, 2008, 93, .	3.3	6
123	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
124	Reactive ion (N ₂) beam pretreatment of sapphire for GaN growth. Thin Solid Films, 1998, 326, 151-153.	1.8	5
125	Linear ion source with closed drift and extended acceleration region. Review of Scientific Instruments, 2008, 79, 02B312.	1.3	5
126	Improved Electrical Properties of Indium Gallium Zinc Oxide Thin-Film Transistors by AZO/Ag/AZO Multilayer Electrode. Journal of Sensor Science and Technology, 2013, 22, 105-110.	0.2	5

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127	Characteristics of MIS capacitors using Ta ₂ O ₅ films deposited on ZnO/p-Si. Microelectronic Engineering, 2003, 66, 637-642.	2.4	4
128	Negative thermal quenching in undoped ZnO and Ga-doped ZnO film grown on c-Al ₂ O ₃ (0001) by plasma-assisted molecular beam epitaxy. Journal of Electroceramics, 2009, 23, 331-334.	2.0	4
129	Order-Disorder Transition in the Molecular Orientation during Initial Growth of Organic Thin Film. ACS Applied Materials & Interfaces, 2013, 5, 1896-1901.	8.0	4
130	Dye-sensitized solar cells with ZnO nanoparticles fabricated at low temperature. Journal of the Korean Physical Society, 2014, 65, 1430-1434.	0.7	4
131	Electron transport phenomena at the interface of Al electrode and heavily doped degenerate ZnO nanoparticles in quantum dot light emitting diode. Nanotechnology, 2019, 30, 035207.	2.6	4
132	Resistive switching functional quantum-dot light-emitting diodes. Current Applied Physics, 2019, 19, 102-107.	2.4	4
133	Carrier transport mechanisms of hybrid ZnO nanorod-polymer LEDs. Journal of the Korean Physical Society, 2014, 65, 162-167.	0.7	3
134	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
135	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. Advanced Energy and Sustainability Research, 2021, 2, 2100112.	5.8	3
136	Improvement of Electrochemical Characteristics by Changing Morphologies of Carbon Electrode. Korean Journal of Materials Research, 2009, 19, 544-549-544-549.	0.2	3
137	Electrical and Optical Properties of Al-doped Zinc-oxide Thin Films Deposited at Room Temperature by Using the Continuous Composition Spread Method. Journal of the Korean Physical Society, 2010, 57, 1092-1095.	0.7	3
138	Blue-Light Emissive Type II ZnO@5Å-Amino-C ₂ N-Naphthalene Sulfonic Acid Core-Shell Quantum Dots. Advanced Photonics Research, 2022, 3, .	3.6	3
139	Blue Light Emitting Diodes based on Bright Quasi-Type-II ZnO@1Å-Aminopyrene Hybrid Quantum Dots with a Long Operation Life. Advanced Optical Materials, 0, , 2200601.	7.3	3
140	A gas cluster ion beam accelerator. Current Applied Physics, 2001, 1, 521-528.	2.4	2
141	Enhancement of the surface and structural properties of ZnO epitaxial films grown on Al ₂ O ₃ substrates utilizing annealed ZnO buffer layers. Journal of Electroceramics, 2006, 17, 283-285.	2.0	2
142	STRUCTURAL AND OPTICAL PROPERTIES OF ZnO THIN FILMS GROWN ON FLEXIBLE POLYIMIDE SUBSTRATES. Surface Review and Letters, 2007, 14, 801-805.	1.1	2
143	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
144	Direct conjugation with a zero length linker of fullerene C ₇₀ to ZnO quantum dots for multicolor light-emitting diodes. Materials Horizons, 2020, 7, 1533-1541.	12.2	2

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145	Surface reaction on polyvinylidene fluoride (PVDF) irradiated by low energy ion beam in reactive gas environment. <i>Journal of Applied Polymer Science</i> , 1999, 72, 41-47.	2.6	2
146	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
147	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
148	Thin film encapsulation for quantum dot light-emitting diodes using a-SiN _x :H/SiO _x /N _x /hybrid SiO _x barriers. <i>RSC Advances</i> , 2022, 12, 4113-4119.	3.6	2
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