

Jae Hyun Kim

List of Publications by Year in descending order

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276
papers

5,518
citations

76326

40
h-index

123424

61
g-index

277
all docs

277
docs citations

277
times ranked

8191
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of solvent on the downconversion efficiency of the N-QDs/PMMA layer: Application in CIGS solar cells. <i>Optik</i> , 2022, 253, 168569.	2.9	3
2	A comprehensive degradation assessment of silicon photovoltaic modules installed on a concrete base under hot and low-humidity environments: Building applications. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102314.	2.7	3
3	Enhancement of the ionic conductivity of a composite polymer electrolyte via surface functionalization of SSZ-13 zeolite for all-solid-state Li-metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4126-4137.	10.3	29
4	Structure-based modification of pyrazolone derivatives to inhibit mTORC1 by targeting the leucyl-tRNA synthetase-RagD interaction. <i>Bioorganic Chemistry</i> , 2021, 112, 104907.	4.1	5
5	Technological advances in electrochemical biosensors for the detection of disease biomarkers. <i>Biomedical Engineering Letters</i> , 2021, 11, 309-334.	4.1	33
6	Exploring Rapid Photocatalytic Degradation of Organic Pollutants with Porous CuO Nanosheets: Synthesis, Dye Removal, and Kinetic Studies at Room Temperature. <i>ACS Omega</i> , 2021, 6, 2601-2612.	3.5	117
7	Development of Three-Dimensional Nickel-Cobalt Oxide Nanoflowers for Superior Photocatalytic Degradation of Food Colorant Dyes: Catalyst Properties and Reaction Kinetic Study. <i>Langmuir</i> , 2021, 37, 12929-12939.	3.5	13
8	Enhanced compatibility of a polymer-based electrolyte with Li-metal for stable and dendrite-free all-solid-state Li-metal batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27304-27319.	10.3	17
9	Enhanced charge-transportation properties of low-temperature processed Al-doped ZnO and its impact on PV cell parameters of organic-inorganic perovskite solar cells. <i>Solid-State Electronics</i> , 2020, 164, 107714.	1.4	21
10	Analysis of PV cell parameters of solution processed Cu-doped nickel oxide hole transporting layer-based organic-inorganic perovskite solar cells. <i>Solar Energy</i> , 2020, 209, 226-234.	6.1	28
11	Multiplexed femtomolar detection of Alzheimer's disease biomarkers in biofluids using a reduced graphene oxide field-effect transistor. <i>Biosensors and Bioelectronics</i> , 2020, 167, 112505.	10.1	54
12	UV-Curable Polymer-QD Flexible Films as the Downconversion Layer for Improved Performance of Cu(In,Ga)Se ₂ Solar Cells. <i>Energy & Fuels</i> , 2020, 34, 14581-14590.	5.1	10
13	Universal inherent fluctuations in statistical counting of large particles in slurry used for semiconductor manufacturing. <i>Scientific Reports</i> , 2020, 10, 14731.	3.3	1
14	Structural color and near-infrared tunability of ruthenium-coated anodic aluminum oxide by atomic layer deposition. <i>Scripta Materialia</i> , 2020, 187, 125-129.	5.2	12
15	Controlled Size Growth of Thermally Stable Organometallic Halide Perovskite Microrods: Synergistic Effect of Dual-Doping, Lattice Strain Engineering, Antisolvent Crystallization, and Band Gap Tuning Properties. <i>ACS Omega</i> , 2020, 5, 16106-16119.	3.5	8
16	Reliability Study of c-Si PV Module Mounted on a Concrete Slab by Thermal Cycling Using Electroluminescence Scanning: Application in Future Solar Roadways. <i>Materials</i> , 2020, 13, 470.	2.9	16
17	Fluorescent N-Doped Graphene Quantum Dots Embedded in Transparent Polymer Films for Photon-Downconversion Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 2322-2335.	5.0	16
18	Gentianae Macrophyllae Radix Water Extract Inhibits RANKL-Induced Osteoclastogenesis and Osteoclast Specific Genes. <i>Korean Journal of Acupuncture</i> , 2020, 37, 63-75.	0.4	4

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19	Impact of Cu Doping on PV Cell Parameters of NiO:Cu Nanostructure-Based Organic-Inorganic Perovskite Solar Cells. , 2020, , .		1
20	Emission-wavelength-dependent photoluminescence decay lifetime of N-functionalized graphene quantum dot downconverters: Impact on conversion efficiency of Cu(In, Ga)Se ₂ solar cells. Scientific Reports, 2019, 9, 10803.	3.3	18
21	Highly Sensitive Micropatterned Interdigitated Electrodes for Enhancing the Concentration Effect Based on Dielectrophoresis. Sensors, 2019, 19, 4152.	3.8	7
22	Well-Dispersed ZnFe ₂ O ₄ Nanoparticles onto Graphene as Superior Anode Materials for Lithium Ion Batteries. Energies, 2019, 12, 304.	3.1	5
23	Performance enhancement of triboelectric nanogenerators based on polyvinylidene fluoride/graphene quantum dot composite nanofibers. Journal of Alloys and Compounds, 2019, 797, 945-951.	5.5	44
24	N-functionalized graphene quantum dots: Charge transporting layer for high-rate and durable Li ₄ Ti ₅ O ₁₂ -based Li-ion battery. Chemical Engineering Journal, 2019, 369, 1024-1033.	12.7	55
25	In-situ growth of nitrogen-doped mesoporous carbon nanostructure supported nickel metal nanoparticles for oxygen evolution reaction in an alkaline electrolyte. Electrochimica Acta, 2019, 306, 617-626.	5.2	7
26	An RRAM-based Analog Neuron Design for the Weighted Spiking Neural network. , 2019, , .		0
27	Fast Simulation Method for Analog Deep Binarized Neural Networks. , 2019, , .		1
28	Performance Degradation Analysis of c-Si PV Modules Mounted on a Concrete Slab under Hot-Humid Conditions Using Electroluminescence Scanning Technique for Potential Utilization in Future Solar Roadways. Materials, 2019, 12, 4047.	2.9	21
29	Observation of sand movement during bucket installation. International Journal of Physical Modelling in Geotechnics, 2019, 19, 1-14.	0.6	8
30	Highly selective FET-type glucose sensor based on shape-controlled palladium nanoflower-decorated graphene. Sensors and Actuators B: Chemical, 2018, 264, 216-223.	7.8	37
31	Fabrication of Uniform Wrinkled Silica Nanoparticles and Their Application to Abrasives in Chemical Mechanical Planarization. ACS Applied Materials & Interfaces, 2018, 10, 11843-11851.	8.0	32
32	Highly improved passivation of c-Si surfaces using a gradient <i>i</i> / <i>j</i> a-Si:H layer. Journal of Applied Physics, 2018, 123, .	2.5	5
33	Ionic Conductivity of Ruddlesden-Popper Layered Perovskites (Li ₂ SrTa ₂ O ₇ , Li ₂ SrNb ₂ O ₇), Tj ETQq _{3,4} 1 0.784314 rgBT C		
	Electrolyte. ChemElectroChem. 2018. 5. 1265-1271.		
34	Effects of metformin on colorectal cancer stem cells depend on alterations in glutamine metabolism. Scientific Reports, 2018, 8, 409.	3.3	70
35	Characterization and Protective Efficacy of Type III Secretion Proteins as a Broadly Protective Subunit Vaccine against Salmonella enterica Serotypes. Infection and Immunity, 2018, 86, .	2.2	27
36	Effect of atmospheric-pressure plasma treatment on the adhesion properties of a thin adhesive layer in a selective transfer process. Applied Surface Science, 2018, 428, 1141-1148.	6.1	5

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37	Development of seismic CPT for evaluating in-flight soil properties in centrifuge model test. KSCE Journal of Civil Engineering, 2018, 22, 544-554.	1.9	1
38	Selfie Stitch: Dual Homography Based Image Stitching for Wide-Angle Selfie. , 2018, , .		0
39	The Reliability and Degradation of Solar Roadways. , 2018, , .		3
40	N-Functionalized Graphene Quantum Dots with Ultrahigh Quantum Yield and Large Stokes Shift: Efficient Downconverters for CIGS Solar Cells. ACS Photonics, 2018, 5, 4637-4643.	6.6	37
41	Recent progress in terahertz difference-frequency quantum cascade laser sources. Nanophotonics, 2018, 7, 1795-1817.	6.0	67
42	Mid-infrared quantum cascade laser arrays with electrical switching of emission frequencies. AIP Advances, 2018, 8, .	1.3	4
43	Double-metal waveguide terahertz difference-frequency generation quantum cascade lasers with surface grating outcouplers. Applied Physics Letters, 2018, 113, 161102.	3.3	10
44	Significance of N-moieties in regulating the electrochemical properties of nano-porous graphene: Toward highly capacitive energy storage devices. Journal of Industrial and Engineering Chemistry, 2018, 68, 129-139.	5.8	6
45	Evaluation and Optimization of an Image Acquisition System for Dual-Energy Cargo Inspections. IEEE Transactions on Nuclear Science, 2018, 65, 2657-2661.	2.0	5
46	PĶ: Resistive Type 2D Mapping Positional Strain Sensor Array for Advanced Tactile Displays. Digest of Technical Papers SID International Symposium, 2018, 49, 1909-1912.	0.3	0
47	Difference-Frequency Generation Terahertz Quantum Cascade Lasers with Surface Grating Outcouplers. , 2018, , .		1
48	Effects of preoperative ultrasound-guided transversus abdominis plane block on pain after laparoscopic surgery for colorectal cancer: a double-blind randomized controlled trial. Surgical Endoscopy and Other Interventional Techniques, 2017, 31, 127-134.	2.4	47
49	Nitrogen and sulfur co-doped metal monochalcogen encapsulated honeycomb like carbon nanostructure as a high performance lithium-ion battery anode material. Carbon, 2017, 115, 249-260.	10.3	57
50	Dual Heteroatom–Doped Carbon Nanofoam–Wrapped Iron Monosulfide Nanoparticles: An Efficient Cathode Catalyst for Li–O₂ Batteries. ChemSusChem, 2017, 10, 1554-1562.	6.8	15
51	Non-destructive micro-Raman analysis of Si near Cu through silicon via. Electronic Materials Letters, 2017, 13, 120-128.	2.2	8
52	Narrow-linewidth ultra-broadband terahertz sources based on difference-frequency generation in mid-infrared quantum cascade lasers. , 2017, , .		2
53	Terahertz difference frequency generation in quantum cascade lasers on silicon. , 2017, , .		0
54	Ultimate Control of Rate-Dependent Adhesion for Reversible Transfer Process via a Thin Elastomeric Layer. ACS Applied Materials & Interfaces, 2017, 9, 12886-12892.	8.0	23

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55	Influence of oxygen vacancies on surface charge potential and transportation properties of Al-doped ZnO nanostructures produced via atomic layer deposition. <i>Journal of Alloys and Compounds</i> , 2017, 709, 819-828.	5.5	35
56	Size-dependent hardness of five-fold twin structured Ag nanowires. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1311-1319.	2.8	12
57	Control of leucine-dependent mTORC1 pathway through chemical intervention of leucyl-tRNA synthetase and RagD interaction. <i>Nature Communications</i> , 2017, 8, 732.	12.8	71
58	Spectral purity and tunability of terahertz quantum cascade laser sources based on intracavity difference-frequency generation. <i>Science Advances</i> , 2017, 3, e1603317.	10.3	33
59	Fabrication of Shape-Controlled Palladium Nanoparticle-Decorated Electrospun Polypyrrole/Polyacrylonitrile Nanofibers for Hydrogen Peroxide Coalescing Detection. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700573.	3.7	10
60	Comparative Characterization of Crofelemer Samples Using Data Mining and Machine Learning Approaches With Analytical Stability Data Sets. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3270-3279.	3.3	5
61	Influence of overlapped sustain waveform on panel-aging characteristics based on MgO surface morphology variation in alternating-current plasma display panel. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 645, 72-80.	0.9	1
62	Quantum cascade lasers transfer-printed on silicon-on-sapphire. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	18
63	Analysis on electron emission characteristics of MgO layer with MgO crystal powder under various panel temperatures in ac-plasma display panels. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 645, 102-111.	0.9	0
64	Enzyme precipitate coating of pyranose oxidase on carbon nanotubes and their electrochemical applications. <i>Biosensors and Bioelectronics</i> , 2017, 87, 365-372.	10.1	29
65	Enhanced cycle stability of polypyrrole-derived nitrogen-doped carbon-coated tin oxide hollow nanofibers for lithium battery anodes. <i>Carbon</i> , 2017, 111, 28-37.	10.3	63
66	Improvement in Surface Passivation of c-Si Using Gradient-Layered a-Si:H Film for High Efficiency Silicon Heterojunction Solar Cells. , 2017, , .		0
67	Terahertz difference-frequency quantum cascade laser sources on silicon. <i>Optica</i> , 2017, 4, 38.	9.3	25
68	Effects of MgO Nanocrystal Powder on Long-Term Sustain and Address Discharge Characteristics in ac-Plasma Display Panel. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 335-340.	0.9	0
69	Roughness Reduction of PVDF-TrFE Insulator by Reverse Transfer Printing for Enhanced Performance of Ferroelectric Organic Memory Transistors. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4149-4152.	0.9	3
70	One-Pot Synthesis of ZnAl Double Hydroxide Powders and Their Calcined Oxide Composites for Lithium-Ion Battery Applications. <i>Science of Advanced Materials</i> , 2017, 9, 1801-1805.	0.7	6
71	Difference-Frequency Generation Quantum Cascade Laser Sources on Silicon. , 2017, , .		0
72	1.9 THz Difference-Frequency Generation in Mid-Infrared Quantum Cascade Lasers with Grating Outcouplers. , 2017, , .		0

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73	Mid-infrared quantum cascade lasers transfer-printed on silicon-on-sapphire. , 2017, , .		0
74	Efficient THz Generation in Long-Wavelength Infrared Quantum Cascade Lasers. , 2017, , .		0
75	Broadly tunable terahertz difference-frequency generation in quantum cascade lasers on silicon. Optical Engineering, 2017, 57, 1.	1.0	0
76	High Performance Flexible Actuator of Urchin-Like ZnO Nanostructure/Polyvinylene fluoride Hybrid Thin Film with Graphene Electrodes for Acoustic Generator and Analyzer. Small, 2016, 12, 2567-2574.	10.0	11
77	Spectroscopic study of terahertz difference-frequency nonlinear susceptibility in mid-infrared quantum cascade lasers. , 2016, , .		0
78	Direct observation of x-ray radiation-induced damage to SiO ₂ /Si interface using multiwavelength room temperature photoluminescence. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, 041208.	1.2	2
79	Effect of loading pattern on longitudinal bowing in flexible roll forming. Journal of Mechanical Science and Technology, 2016, 30, 5633-5639.	1.5	13
80	Synthesis of ZnO Nanorods/Carbon Nanofiber Composites Using Electrochemical Deposition for Efficient Supercapacitor Electrodes: Control of Nucleation and Growth of ZnO Nanorods. Journal of Nanoscience and Nanotechnology, 2016, 16, 11669-11673.	0.9	2
81	Biosimilarity Assessments of Model IgG1-Fc Glycoforms Using a Machine Learning Approach. Journal of Pharmaceutical Sciences, 2016, 105, 602-612.	3.3	11
82	Enhanced charge transport properties of Ag and Al co-doped ZnO nanostructures via solution process. Journal of Alloys and Compounds, 2016, 682, 232-237.	5.5	38
83	Solenoid assembly with beam focusing and radiation shielding functions for the 9/6 MeV dual energy linac. Journal of the Korean Physical Society, 2016, 69, 1042-1047.	0.7	2
84	Effect of Si nanostructures on PEDOT:PSS Si hybrid solar cells. Thin Solid Films, 2016, 616, 335-338.	1.8	10
85	Novel approach for fabrication of buried contact silicon nanowire solar cells with improved performance. Solar Energy, 2016, 137, 122-128.	6.1	12
86	Wide range temperature dependence of analytical photovoltaic cell parameters for silicon solar cells under high illumination conditions. Applied Energy, 2016, 183, 715-724.	10.1	61
87	Immobilization of glucose oxidase on graphene oxide for highly sensitive biosensors. Biotechnology and Bioprocess Engineering, 2016, 21, 573-579.	2.6	20
88	Spectroscopic Study of Terahertz Generation in Mid-Infrared Quantum Cascade Lasers. Scientific Reports, 2016, 6, 21169.	3.3	32
89	Communication-In-Line Detection of Silicon Surface Quality Variation Using Surface Photovoltage and Room Temperature Photoluminescence Measurements. ECS Journal of Solid State Science and Technology, 2016, 5, P438-P440.	1.8	5
90	Duplex Bioelectronic Tongue for Sensing Umami and Sweet Tastes Based on Human Taste Receptor Nanovesicles. ACS Nano, 2016, 10, 7287-7296.	14.6	78

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91	The administration of high-dose propofol sedation with manual and target-controlled infusion in children undergoing radiation therapy: a 7-year clinical investigation. SpringerPlus, 2016, 5, 376.	1.2	4
92	Precipitated and chemically-crosslinked laccase over polyaniline nanofiber for high performance phenol sensing. Chemosphere, 2016, 143, 142-147.	8.2	37
93	Investigation of the surface passivation mechanism through an Ag-doped Al-rich film using a solution process. Nanoscale, 2016, 8, 1007-1014.	5.6	11
94	One-step and controllable bipolar doping of reduced graphene oxide using TMAH as reducing agent and doping source for field effect transistors. Carbon, 2016, 100, 608-616.	10.3	25
95	Influence of Gate Dielectric and Its Surface Treatment on Electrical Characteristics of Solution-Processed ZnO Transistors. Journal of Nanoscience and Nanotechnology, 2016, 16, 1848-1851.	0.9	1
96	Improved Comparative Signature Diagrams to Evaluate Similarity of Storage Stability Profiles of Different IgG1 mAbs. Journal of Pharmaceutical Sciences, 2016, 105, 1028-1035.	3.3	4
97	Facile synthesis of Ag-coated silicon nanowires as anode materials for high-performance rechargeable lithium battery. Journal of Alloys and Compounds, 2016, 660, 387-391.	5.5	47
98	Miniature Cone Tip Resistance on Sand in a Centrifuge. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	3.0	40
99	Biophysical Characterization of the Type III Secretion Tip Proteins and the Tip Proteins Attached to Bacterium-Like Particles. Journal of Pharmaceutical Sciences, 2015, 104, 424-432.	3.3	9
100	A study on the development of post processor for five-axis machining using angle head spindle. International Journal of Precision Engineering and Manufacturing, 2015, 16, 2683-2689.	2.2	10
101	Cost-Effective Local Dimming Driving Scheme of Xe-Lamp for Low-Power Backlight Unit. Molecular Crystals and Liquid Crystals, 2015, 617, 147-157.	0.9	0
102	Characterization of the Physical Stability of a Lyophilized IgG1 mAb after Accelerated Shipping-Like Stress. Journal of Pharmaceutical Sciences, 2015, 104, 495-507.	3.3	43
103	Improvement of stability of sinusoidally driven atmospheric pressure plasma jet using auxiliary bias voltage. AIP Advances, 2015, 5, 127141.	1.3	4
104	Network analysis of photovoltaic-related Science Citation Index papers in Korea. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	5
105	Biophysical Characterization of the Type III Secretion System Translocator Proteins and the Translocator Proteins Attached to Bacterium-Like Particles. Journal of Pharmaceutical Sciences, 2015, 104, 4065-4073.	3.3	9
106	A biomemory chip composed of a myoglobin/CNT heterolayer fabricated by the protein-adsorption-precipitation-crosslinking (PAPC) technique. Colloids and Surfaces B: Biointerfaces, 2015, 136, 853-858.	5.0	6
107	Paraboloid Structured Silicon Surface for Enhanced Light Absorption: Experimental and Simulative Investigations. Nanoscale Research Letters, 2015, 10, 376.	5.7	12
108	Improving luminous efficacy using dual sustain pulse waveform associated with short sustain pulse width in AC-plasma display panels. AIP Advances, 2015, 5, 057119.	1.3	6

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109	DSP Based Programmable FHD HEVC Decoder. , 2015, , .		2
110	Correlation between reflectance and photoluminescent properties of Al-rich ZnO nano-structures. Metals and Materials International, 2015, 21, 561-568.	3.4	11
111	Address Discharge Characteristics by Changes in Sustain Pulse Numbers in Plasma Display Panel with High Xe Contents. Molecular Crystals and Liquid Crystals, 2015, 617, 158-167.	0.9	0
112	Influences of MgO Thicknesses Variation on Degradation Characteristics during Long-term Discharge in Microdischarge Cells. Molecular Crystals and Liquid Crystals, 2015, 617, 109-118.	0.9	0
113	Modified Driving Waveform for Stable High-Speed Address Discharge in AC PDP under High Xe Gas Mixture. Molecular Crystals and Liquid Crystals, 2015, 617, 119-129.	0.9	0
114	Programmable multimedia platform based on reconfigurable processor for 8K UHD TV. IEEE Transactions on Consumer Electronics, 2015, 61, 516-523.	3.6	13
115	Modification of electrical and piezoelectric properties of ZnO nanorods based on arsenic incorporation via low temperature spin-on-dopant method. Journal of the Korean Physical Society, 2015, 67, 930-935.	0.7	2
116	Conductive framework supported high rate performance of SnO ₂ hollow nanofibers for lithium battery anodes. Electrochimica Acta, 2015, 161, 1-9.	5.2	22
117	Impact of Detergent on Biophysical Properties and Immune Response of the IpaDB Fusion Protein, a Candidate Subunit Vaccine against Shigella Species. Infection and Immunity, 2015, 83, 292-299.	2.2	21
118	Passivation analysis of silicon surfaces via sol-gel derived Al-rich ZnO film. Semiconductor Science and Technology, 2015, 30, 015012.	2.0	7
119	Hierarchical ZnO Nanorods on Si Micropillar Arrays for Performance Enhancement of Piezoelectric Nanogenerators. ACS Applied Materials & Interfaces, 2015, 7, 5768-5774.	8.0	65
120	Highly Sensitive and Multifunctional Tactile Sensor Using Free-standing ZnO/PVDF Thin Film with Graphene Electrodes for Pressure and Temperature Monitoring. Scientific Reports, 2015, 5, 7887.	3.3	160
121	Electron beam modification of anode materials for high-rate lithium ion batteries. Journal of Power Sources, 2015, 296, 109-116.	7.8	9
122	Widely tunable terahertz source based on intra-cavity frequency mixing in quantum cascade laser arrays. Applied Physics Letters, 2015, 106, .	3.3	17
123	Electrochemically deposited Fe ₂ O ₃ nanorods on carbon nanofibers for free-standing anodes of lithium-ion batteries. Carbon, 2015, 94, 9-17.	10.3	66
124	Stacked Bilayer Graphene and Redox-Active Interlayer for Transparent and Flexible High-Performance Supercapacitors. Chemistry of Materials, 2015, 27, 3621-3627.	6.7	50
125	Leakage current behavior in MIM capacitors and MISM organic capacitors with a thin AlO _x insulator. Electronic Materials Letters, 2015, 11, 241-245.	2.2	3
126	Enhanced electrochemical performance of template-free carbon-coated iron(II, III) oxide hollow nanofibers as anode material for lithium-ion batteries. Journal of Power Sources, 2015, 284, 392-399.	7.8	57

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127	Discovery of Orally Available Runt-Related Transcription Factor 3 (RUNX3) Modulators for Anticancer Chemotherapy by Epigenetic Activation and Protein Stabilization. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 3512-3521.	6.4	4
128	Materialization of strained CVD-graphene using thermal mismatch. <i>Nano Research</i> , 2015, 8, 2082-2091.	10.4	11
129	Enhanced electrochemical performance of carbon-coated TiO ₂ nanobarbed fibers as anode material for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2015, 60, 204-207.	4.7	18
130	Physical Characterization and In Vitro Biological Impact of Highly Aggregated Antibodies Separated into Size-Enriched Populations by Fluorescence-Activated Cell Sorting. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 1575-1591.	3.3	57
131	Work function tuning and fluorescence enhancement of hydrogen annealed Ag-doped Al-rich zinc oxide nanostructures using a sol-gel process. <i>Journal of Alloys and Compounds</i> , 2015, 647, 566-572.	5.5	10
132	Ultra-low-power voice trigger for wearable devices. , 2015, , .		0
133	Improved electrochemical performance of boron-doped SiO ₂ negative electrode materials in lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 299, 25-31.	7.8	52
134	One-step etching, doping, and adhesion-control process for graphene electrodes. <i>Carbon</i> , 2015, 82, 168-175.	10.3	19
135	Enhanced electrochemical sensitivity of enzyme precipitate coating (EPC)-based glucose oxidase biosensors with increased free CNT loadings. <i>Bioelectrochemistry</i> , 2015, 101, 114-119.	4.6	25
136	Cu(InGa)Se ₂ Photovoltaic Absorber Formation by Spray-Deposition of Aqueous Precursors Followed by Selenization. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2015, 10, 574-577.	0.5	1
137	Dependence of Performance of Si Nanowire Solar Cells on Geometry of the Nanowires. <i>Scientific World Journal</i> , The, 2014, 2014, 1-7.	2.1	3
138	Influence of the active layer pattern on the electrical characteristics of organic inverters. <i>Journal of the Korean Physical Society</i> , 2014, 65, 1965-1968.	0.7	1
139	Evaluation of the density of the charge trapped in organic ferroelectric capacitors based on the Mott-Schottky model. <i>Journal of the Korean Physical Society</i> , 2014, 65, 745-750.	0.7	2
140	Solvent-Tolerant Patterning of Poly(3-hexylthiophene) Film by Subtractive Photolithography. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 599, 36-42.	0.9	0
141	Improvement of Current Efficiency at High Field Regime Via Description of Roll-off Characteristic in Model Device of OLEDs. <i>Molecular Crystals and Liquid Crystals</i> , 2014, 599, 79-85.	0.9	2
142	Optimal design of organic-inorganic hybrid tandem solar cell based on a-Si:H and organic photovoltaics for high efficiency. <i>Micro and Nano Letters</i> , 2014, 9, 881-883.	1.3	11
143	Lactam-Based HDAC Inhibitors for Anticancer Chemotherapy: Restoration of RUNX3 by Posttranslational Modification and Epigenetic Control. <i>ChemMedChem</i> , 2014, 9, 649-656.	3.2	6
144	Preformulation Study of Highly Purified Inactivated Polio Vaccine, Serotype 3. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 140-151.	3.3	21

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145	Low-temperature annealed PbS quantum dot films for scalable and flexible ambipolar thin-film-transistors and circuits. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10305-10311.	5.5	40
146	Intensity dependency of photovoltaic cell parameters under high illumination conditions: An analysis. <i>Applied Energy</i> , 2014, 133, 356-362.	10.1	74
147	Electrochemical Activity Studies of Glucose Oxidase (GOx)-Based and Pyranose Oxidase (POx)-Based Electrodes in Mesoporous Carbon: Toward Biosensor and Biofuel Cell Applications. <i>Electroanalysis</i> , 2014, 26, 2075-2079.	2.9	10
148	Narrow gap filling in 25 nm shallow trench isolation using highly porous organosilica. <i>Thin Solid Films</i> , 2014, 562, 166-171.	1.8	2
149	Coefficient of thermal expansion measurements for freestanding nanocrystalline ultra-thin gold films. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 105-110.	2.2	12
150	Multiwavelength Raman characterization of silicon stress near through-silicon vias and its inline monitoring applications. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2014, 13, 011205.	0.9	22
151	Physical Stability Comparisons of IgG1-Fc Variants: Effects of N-Glycosylation Site Occupancy and Asp/Gln Residues at Site Asn 297. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 1613-1627.	3.3	31
152	Double-layer CVD graphene as stretchable transparent electrodes. <i>Nanoscale</i> , 2014, 6, 6057-6064.	5.6	77
153	Influence of Ag doping on structural, optical, and photoluminescence properties of nanostructured AZO films by sol-gel technique. <i>Journal of Alloys and Compounds</i> , 2014, 584, 190-194.	5.5	32
154	A low temperature process for phosphorous doped ZnO nanorods via a combination of hydrothermal and spin-on dopant methods. <i>Nanoscale</i> , 2014, 6, 2046-2051.	5.6	31
155	Enhanced performance of silicon solar cells by application of low-cost sol-gel-derived Al-rich ZnO film. <i>Solar Energy</i> , 2014, 101, 265-271.	6.1	26
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