Jae Hyun Kim

List of Publications by Year
in descending order

276	5,518	76326	123424
papers	citations	40 h-index	61 g-index

277	277	277	8191
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetic properties of epitaxially grown semiconducting Zn1â^'xCoxO thin films by pulsed laser deposition. Journal of Applied Physics, 2002, 92, 6066-6071.	2.5	323
2	Mechanism Study of ZnO Nanorod-Bundle Sensors for H₂S Gas Sensing. Journal of Physical Chemistry C, 2011, 115, 7218-7224.	3.1	261
3	CuO/ZnO Heterostructured Nanorods: Photochemical Synthesis and the Mechanism of H₂S Gas Sensing. Journal of Physical Chemistry C, 2012, 116, 15682-15691.	3.1	188
4	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
5	Exploring Rapid Photocatalytic Degradation of Organic Pollutants with Porous CuO Nanosheets: Synthesis, Dye Removal, and Kinetic Studies at Room Temperature. ACS Omega, 2021, 6, 2601-2612.	3.5	117
6	Duplex Bioelectronic Tongue for Sensing Umami and Sweet Tastes Based on Human Taste Receptor Nanovesicles. ACS Nano, 2016, 10, 7287-7296.	14.6	78
7	Double-layer CVD graphene as stretchable transparent electrodes. Nanoscale, 2014, 6, 6057-6064.	5.6	77
8	Extraction of diode parameters of silicon solar cells under high illumination conditions. Energy Conversion and Management, 2013, 76, 421-429.	9.2	74
9	Intensity dependency of photovoltaic cell parameters under high illumination conditions: An analysis. Applied Energy, 2014, 133, 356-362.	10.1	74
10	Control of leucine-dependent mTORC1 pathway through chemical intervention of leucyl-tRNA synthetase and RagD interaction. Nature Communications, 2017, 8, 732.	12.8	71
11	Effects of metformin on colorectal cancer stem cells depend on alterations in glutamine metabolism. Scientific Reports, 2018, 8, 409.	3.3	70
12	Recent progress in terahertz difference-frequency quantum cascade laser sources. Nanophotonics, 2018, 7, 1795-1817.	6.0	67
13	Electrochemically deposited Fe2O3 nanorods on carbon nanofibers for free-standing anodes of lithium-ion batteries. Carbon, 2015, 94, 9-17.	10.3	66
14	Hierarchical ZnO Nanorods on Si Micropillar Arrays for Performance Enhancement of Piezoelectric Nanogenerators. ACS Applied Materials & Interfaces, 2015, 7, 5768-5774.	8.0	65
15	Optical and magnetic properties of laser-deposited Co-doped ZnO thin films. Solid State Communications, 2004, 131, 677-680.	1.9	64
16	Ultraconformal Contact Transfer of Monolayer Graphene on Metal to Various Substrates. Advanced Materials, 2014, 26, 6394-6400.	21.0	63
17	Enhanced cycle stability of polypyrrole-derived nitrogen-doped carbon-coated tin oxide hollow nanofibers for lithium battery anodes. Carbon, 2017, 111, 28-37.	10.3	63
18	Low Temperature Atomic Layer Deposition of Ruthenium Thin Films Using Isopropylmethylbenzene-Cyclohexadiene-Ruthenium and O[sub 2]. Electrochemical and Solid-State Letters, 2009, 12, D85.	2.2	62

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19	Mechanical and Environmental Stability of Polymer Thin-Film-Coated Graphene. ACS Nano, 2012, 6, 2096-2103.	14.6	61
20	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
21	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
22	Physical Characterization and In Vitro Biological Impact of Highly Aggregated Antibodies Separated into Size-Enriched Populations by Fluorescence-Activated Cell Sorting. Journal of Pharmaceutical Sciences, 2015, 104, 1575-1591.	3.3	57
23	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
24	N-functionalized graphene quantum dots: Charge transporting layer for high-rate and durable Li4Ti5O12-based Li-ion battery. Chemical Engineering Journal, 2019, 369, 1024-1033.	12.7	55
25	Highly stable enzyme precipitate coatings and their electrochemical applications. Biosensors and Bioelectronics, 2011, 26, 1980-1986.	10.1	54
26	Synthesis of biolubricants using sulfated zirconia catalysts. Applied Catalysis A: General, 2013, 455, 164-171.	4.3	54
27	Multiplexed femtomolar detection of Alzheimer's disease biomarkers in biofluids using a reduced graphene oxide field-effect transistor. Biosensors and Bioelectronics, 2020, 167, 112505.	10.1	54
28	Improved electrochemical performance of boron-doped SiO negative electrode materials in lithium-ion batteries. Journal of Power Sources, 2015, 299, 25-31.	7.8	52
29	The origin of room temperature ferromagnetism in cobalt-doped zinc oxide thin films fabricated by PLD. Journal of the European Ceramic Society, 2004, 24, 1847-1851.	5.7	51
30	Stacked Bilayer Graphene and Redox-Active Interlayer for Transparent and Flexible High-Performance Supercapacitors. Chemistry of Materials, 2015, 27, 3621-3627.	6.7	50
31	Tunable Electrical and Optical Properties in Composition Controlled Hf:ZnO Thin Films Grown by Atomic Layer Deposition. Journal of the Electrochemical Society, 2012, 159, H384-H387.	2.9	48
32	Visible emission from Ce-doped ZnO nanorods grown by hydrothermal method without a post thermal annealing process. Nanoscale Research Letters, 2012, 7, 43.	5.7	48
33	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
34	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
35	Nanoscale enzyme reactors in mesoporous carbon for improved performance and lifetime of biosensors and biofuel cells. Biosensors and Bioelectronics, 2010, 26, 655-660.	10.1	45
36	Preparation of hybrid silicon wire and planar solar cells having ZnO antireflection coating by all-solution processes. Solar Energy Materials and Solar Cells, 2012, 96, 251-256.	6.2	44

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37	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
38	Conformal Coating of Conductive ZnO:Al Films as Transparent Electrodes on High Aspect Ratio Si Microrods. Electrochemical and Solid-State Letters, 2010, 13, K12.	2.2	43
39	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
40	Improved data visualization techniques for analyzing macromolecule structural changes. Protein Science, 2012, 21, 1540-1553.	7.6	42
41	Effect of Ionic Strength and pH on the Physical and Chemical Stability of a Monoclonal Antibody Antigen-Binding Fragment. Journal of Pharmaceutical Sciences, 2013, 102, 2520-2537.	3.3	40
42	Effective passivation of silicon surface by AZO films: Application in bifacial solar cells. Solar Energy, 2013, 97, 474-483.	6.1	40
43	Low-temperature annealed PbS quantum dot films for scalable and flexible ambipolar thin-film-transistors and circuits. Journal of Materials Chemistry C, 2014, 2, 10305-10311.	5.5	40
44	Miniature Cone Tip Resistance on Sand in a Centrifuge. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	3.0	40
45	Effects of a dopant on the electrochemical properties of Li4Ti5O12 as a lithium-ion battery anode material. Journal of Power Sources, 2013, 244, 527-531.	7.8	38
46	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
47	Radar Chart Array Analysis to Visualize Effects of Formulation Variables on IgG1 Particle Formation as Measured by Multiple Analytical Techniques. Journal of Pharmaceutical Sciences, 2013, 102, 4256-4267.	3.3	37
48	Monatomic Chemical-Vapor-Deposited Graphene Membranes Bridge a Half-Millimeter-Scale Gap. ACS Nano, 2014, 8, 2336-2344.	14.6	37
49	Precipitated and chemically-crosslinked laccase over polyaniline nanofiber for high performance phenol sensing. Chemosphere, 2016, 143, 142-147.	8.2	37
50	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
51	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
52	Influence of oxygen vacancies on surface charge potential and transportation properties of Al-doped ZnO nanostructures produced via atomic layer deposition. Journal of Alloys and Compounds, 2017, 709, 819-828.	5.5	35
53	Characterization of hafnium silicate thin films grown by MOCVD using a new combination of precursors. Journal of Crystal Growth, 2004, 263, 442-446.	1.5	34
54	Spectral purity and tunability of terahertz quantum cascade laser sources based on intracavity difference-frequency generation. Science Advances, 2017, 3, e1603317.	10.3	33

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55	Technological advances in electrochemical biosensors for the detection of disease biomarkers. Biomedical Engineering Letters, 2021, 11, 309-334.	4.1	33
56	Influence of Ag doping on structural, optical, and photoluminescence properties of nanostructured AZO films by solâ€“gel technique. Journal of Alloys and Compounds, 2014, 584, 190-194.	5.5	32
57	Spectroscopic Study of Terahertz Generation in Mid-Infrared Quantum Cascade Lasers. Scientific Reports, 2016, 6, 21169.	3.3	32
58	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
59	High-Throughput Biophysical Analysis and Data Visualization of Conformational Stability of an IgG1 Monoclonal Antibody After Deglycosylation. Journal of Pharmaceutical Sciences, 2013, 102, 3942-3956.	3.3	31
60	Physical Stability Comparisons of IgG1-Fc Variants: Effects of N-Glycosylation Site Occupancy and Asp/Gln Residues at Site Asn 297. Journal of Pharmaceutical Sciences, 2014, 103, 1613-1627.	3.3	31
61	A low temperature process for phosphorous doped ZnO nanorods via a combination of hydrothermal and spin-on dopant methods. Nanoscale, 2014, 6, 2046-2051.	5.6	31
62	Transparent conductive ZnO:Al films grown by atomic layer deposition for Si-wire-based solar cells. Current Applied Physics, 2012, 12, 273-279.	2.4	30
63	A Novel Algorithm for Zero Block Detection in High Efficiency Video Coding. IEEE Journal on Selected Topics in Signal Processing, 2013, 7, 1124-1134.	10.8	30
64	Enzyme precipitate coating of pyranose oxidase on carbon nanotubes and their electrochemical applications. Biosensors and Bioelectronics, 2017, 87, 365-372.	10.1	29
65	Enhancement of the ionic conductivity of a composite polymer electrolyte via surface functionalization of SSZ-13 zeolite for all-solid-state Li-metal batteries. Journal of Materials Chemistry A, 2021, 9, 4126-4137.	10.3	29
66	Analysis of PV cell parameters of solution processed Cu-doped nickel oxide hole transporting layer-based organic-inorganic perovskite solar cells. Solar Energy, 2020, 209, 226-234.	6.1	28
67	Characterization of Zirconium Silicate Gate Dielectrics Deposited on Si(100) Using Zr(NEt[sub 2])[sub 4] and Si(O[sup n]Bu)[sub 4]. Electrochemical and Solid-State Letters, 2004, 7, F35.	2.2	27
68	Catalytic activity of carbon-sphere/Co3O4/RuO2 nanocomposite for Li-air batteries. Journal of Electroceramics, 2013, 31, 224-230.	2.0	27
69	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
70	Enhanced performance of silicon solar cells by application of low-cost solâ€“gel-derived Al-rich ZnO film. Solar Energy, 2014, 101, 265-271.	6.1	26
71	Characterization of optical absorption and photovoltaic properties of silicon wire solar cells with different aspect ratio. Current Applied Physics, 2011, 11, S30-S33.	2.4	25
72	Enhanced electrochemical sensitivity of enzyme precipitate coating (EPC)-based glucose oxidase biosensors with increased free CNT loadings. Bioelectrochemistry, 2015, 101, 114-119.	4.6	25

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73	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
74	Terahertz difference-frequency quantum cascade laser sources on silicon. Optica, 2017, 4, 38.	9.3	25
75	An empirical phase diagram approach to investigate conformational stability of â€œsecondâ€generationâ€• functional mutants of acidic fibroblast growth factorâ€1. Protein Science, 2012, 21, 418-432.	7.6	24
76	High-Purity Ultraviolet Electroluminescence fromn-ZnO Nanowires/p⁺-Si Heterostructure LEDs withi-MgO Film as Carrier Control Layer. Journal of the Electrochemical Society, 2011, 159, H102-H106.	2.9	23
77	A facile, coverage controlled deposition of Au nanoparticles on ZnO nanorods by sonochemical reaction for enhancement of photocatalytic activity. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	23
78	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
79	Growth of ZnO nanorod arrays by hydrothermal method using homoâ€seed layers annealed at various temperatures. Surface and Interface Analysis, 2010, 42, 978-982.	1.8	22
80	Fabrication and characterization of silicon wire solar cells having ZnO nanorod antireflection coating on Al-doped ZnO seed layer. Nanoscale Research Letters, 2012, 7, 29.	5.7	22
81	Comparative experimental and simulative investigations of radial pâ€“n junction Si microwire array solar cells. Solar Energy Materials and Solar Cells, 2012, 103, 93-97.	6.2	22
82	Multiwavelength Raman characterization of silicon stress near through-silicon vias and its inline monitoring applications. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2014, 13, 011205.	0.9	22
83	Conductive framework supported high rate performance of SnO2 hollow nanofibers for lithium battery anodes. Electrochimica Acta, 2015, 161, 1-9.	5.2	22
84	Local Dynamics and Their Alteration by Excipients Modulate the Global Conformational Stability of an lgG1 Monoclonal Antibody. Journal of Pharmaceutical Sciences, 2012, 101, 4444-4457.	3.3	21
85	Preformulation Study of Highly Purified Inactivated Polio Vaccine, Serotype 3. Journal of Pharmaceutical Sciences, 2014, 103, 140-151.	3.3	21
86	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
87	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
88	Enhanced charge-transportation properties of low-temperature processed Al-doped ZnO and its impact on PV cell parameters of organic-inorganic perovskite solar cells. Solid-State Electronics, 2020, 164, 107714.	1.4	21
89	Immobilization of glucose oxidase on graphene oxide for highly sensitive biosensors. Biotechnology and Bioprocess Engineering, 2016, 21, 573-579.	2.6	20
90	Influence of nickel oxide nanolayer and doping in organic light-emitting devices. Journal of Industrial and Engineering Chemistry, 2009, 15, 716-718.	5.8	19

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91	One-step etching, doping, and adhesion-control process for graphene electrodes. Carbon, 2015, 82, 168-175.	10.3	19
92	Fabrication of precisely controlled silicon wire and cone arrays by electrochemical etching. Materials Letters, 2009, 63, 2567-2569.	2.6	18
93	Optimization of metal-assisted chemical etching process in fabrication of p-type silicon wire arrays. Current Applied Physics, 2011, 11, S25-S29.	2.4	18
94	Enhanced electrochemical performance of carbon-coated TiO2 nanobarbed fibers as anode material for lithium-ion batteries. Electrochemistry Communications, 2015, 60, 204-207.	4.7	18
95	Quantum cascade lasers transfer-printed on silicon-on-sapphire. Applied Physics Letters, 2017, 111, .	3.3	18
96	Emission-wavelength-dependent photoluminescence decay lifetime of N-functionalized graphene quantum dot downconverters: Impact on conversion efficiency of Cu(In, Ga)Se2 solar cells. Scientific Reports, 2019, 9, 10803.	3.3	18
97	LOW-TEMPERATURE SYNTHESIZED ZnO NANONEEDLES: XPS AND PL ANALYSIS. Surface Review and Letters, 2007, 14, 1061-1065.	1.1	17
98	Widely tunable terahertz source based on intra-cavity frequency mixing in quantum cascade laser arrays. Applied Physics Letters, 2015, 106, .	3.3	17
99	Three-dimensional Macropore Arrays in p-type Silicon Fabricated by Electrochemical Etching. Journal of the Korean Physical Society, 2009, 55, 5-9.	0.7	17
100	Enhanced compatibility of a polymer-based electrolyte with Li-metal for stable and dendrite-free all-solid-state Li-metal batteries. Journal of Materials Chemistry A, 2021, 9, 27304-27319.	10.3	17
101	Atomic Layer Chemical Vapor Deposition and Electrical Characterization of Hafnium Silicate Films. Journal of the Electrochemical Society, 2005, 152, F45.	2.9	16
102	Analysis of photovoltaic cell parameters of non-vacuum solution processed Cu(In, Ga)Se 2 thin film based solar cells. Solar Energy, 2014, 108, 189-198.	6.1	16
103	Reliability Study of c-Si PV Module Mounted on a Concrete Slab by Thermal Cycling Using Electroluminescence Scanning: Application in Future Solar Roadways. Materials, 2020, 13, 470.	2.9	16
104	Fluorescent N-Doped Graphene Quantum Dots Embedded in Transparent Polymer Films for Photon-Downconversion Applications. ACS Applied Nano Materials, 2020, 3, 2322-2335.	5.0	16
105	The Design of Photosensitive Polyimide Materials for Buffer Coating Processes. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 403-405.	0.3	15
106	Dual Heteroatomâ€Đoped Carbon Nanofoamâ€Wrapped Iron Monosulfide Nanoparticles: An Efficient Cathode Catalyst for Liâ€“O₂ Batteries. ChemSusChem, 2017, 10, 1554-1562.	6.8	15
107	Physical and electrical characterizations of ultrathin Si-rich Hf-silicate film and Hf-silicate/SiO2 bilayer deposited by atomic layer chemical vapor deposition. Journal of Applied Physics, 2006, 100, 044106.	2.5	14
108	Role of HbA1c in the Screening of Diabetes Mellitus in a Korean Rural Community. Diabetes and Metabolism Journal, 2012, 36, 37.	4.7	14

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109	Dewetted gold nanoparticles on ZnO nanorods for three-dimensionally distributed plasmonic hot spots. Scripta Materialia, 2013, 69, 654-657.	5.2	14
110	Influence of Al content on surface passivation properties of Al rich ZnO films for solar cell application. Solar Energy, 2014, 110, 595-602.	6.1	14
111	Programmable multimedia platform based on reconfigurable processor for 8K UHD TV. IEEE Transactions on Consumer Electronics, 2015, 61, 516-523.	3.6	13
112	Effect of loading pattern on longitudinal bowing in flexible roll forming. Journal of Mechanical Science and Technology, 2016, 30, 5633-5639.	1.5	13
113	Development of Three-Dimensional Nickelâ€“Cobalt Oxide Nanoflowers for Superior Photocatalytic Degradation of Food Colorant Dyes: Catalyst Properties and Reaction Kinetic Study. Langmuir, 2021, 37, 12929-12939.	3.5	13
114	Coefficient of thermal expansion measurements for freestanding nanocrystalline ultra-thin gold films. International Journal of Precision Engineering and Manufacturing, 2014, 15, 105-110.	2.2	12
115	Paraboloid Structured Silicon Surface for Enhanced Light Absorption: Experimental and Simulative Investigations. Nanoscale Research Letters, 2015, 10, 376.	5.7	12
116	Novel approach for fabrication of buried contact silicon nanowire solar cells with improved performance. Solar Energy, 2016, 137, 122-128.	6.1	12
117	Size-dependent hardness of five-fold twin structured Ag nanowires. Physical Chemistry Chemical Physics, 2017, 19, 1311-1319.	2.8	12
118	Structural color and near-infrared tunability of ruthenium-coated anodic aluminum oxide by atomic layer deposition. Scripta Materialia, 2020, 187, 125-129.	5.2	12
119	Thermal decomposition pathway and desorption study of isopropanol andtert-butanol on Si(100). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1582-1586.	2.1	11
120	ZnO Wurtzite Single Crystals Prepared by Nanorod-Assisted Epitaxial Lateral Overgrowth. Crystal Growth and Design, 2010, 10, 321-326.	3.0	11
121	Influence of the crystallographic orientation of silicon nanowires in a carbon matrix on electrochemical performance as negative electrode materials for lithium-ion batteries. Journal of Power Sources, 2013, 244, 515-520.	7.8	11
122	Photo-assisted molecular engineering in solution-processed organic thin-film transistors with a blended semiconductor for high mobility anisotropy. Applied Physics Letters, 2013, 102, 013306.	3.3	11
123	Optimal design of organicâ€“inorganic hybrid tandem solar cell based on aâ€Si:H and organic photovoltaics for high efficiency. Micro and Nano Letters, 2014, 9, 881-883.	1.3	11
124	Correlation between reflectance and photoluminescent properties of al-rich ZnO nano-structures. Metals and Materials International, 2015, 21, 561-568.	3.4	11
125	Materialization of strained CVD-graphene using thermal mismatch. Nano Research, 2015, 8, 2082-2091.	10.4	11
126	High Performance Flexible Actuator of Urchinâ€Like ZnO Nanostructure/Polyvinylenefluoride Hybrid Thin Film with Graphene Electrodes for Acoustic Generator and Analyzer. Small, 2016, 12, 2567-2574.	10.0	11

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127	Biosimilarity Assessments of Model IgG1-Fc Glycoforms Using a Machine Learning Approach. Journal of Pharmaceutical Sciences, 2016, 105, 602-612.	3.3	11
128	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
129	Reduction of permanent image sticking in ACPDPs using RFâ€plasma pretreatment on MgO surface. Journal of the Society for Information Display, 2010, 18, 606-613.	2.1	10
130	Combinational Approach of Electrochemical Etching and Metal-Assisted Chemical Etching for p-Type Silicon Wire Formation. Electrochemical and Solid-State Letters, 2011, 14, D5.	2.2	10
131	Electrochemical Activity Studies of Glucose Oxidase (GOx)-Based and Pyranose Oxidase (POx)-Based Electrodes in Mesoporous Carbon: Toward Biosensor and Biofuel Cell Applications. Electroanalysis, 2014, 26, 2075-2079.	2.9	10
132	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
133	Work function tuning and fluorescence enhancement of hydrogen annealed Ag-doped Al-rich zinc oxide nanostructures using a solâ€“gel process. Journal of Alloys and Compounds, 2015, 647, 566-572.	5.5	10
134	Effect of Si nanostructures on PEDOT:PSS Si hybrid solar cells. Thin Solid Films, 2016, 616, 335-338.	1.8	10
135	Fabrication of Shapeâ€Controlled Palladium Nanoparticleâ€Decorated Electrospun Polypyrrole/Polyacrylonitrile Nanofibers for Hydrogen Peroxide Coalescing Detection. Advanced Materials Interfaces, 2017, 4, 1700573.	3.7	10
136	Double-metal waveguide terahertz difference-frequency generation quantum cascade lasers with surface grating outcouplers. Applied Physics Letters, 2018, 113, 161102.	3.3	10
137	UV-Curable Polymerâ€“QD Flexible Films as the Downconversion Layer for Improved Performance of Cu(In,Ga)Se₂ Solar Cells. Energy & Fuels, 2020, 34, 14581-14590.	5.1	10
138	Interfacial Properties of Hf-silicateâˆ•Si and Hf-silicateâˆ•Al[sub 2]O[sub 3]âˆ•Si Deposited by Atomic Layer Chemical Vapor Deposition. Journal of the Electrochemical Society, 2005, 152, F153.	2.9	9
139	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
140	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
141	Electron beam modification of anode materials for high-rate lithium ion batteries. Journal of Power Sources, 2015, 296, 109-116.	7.8	9
142	Ionic Conductivity of Ruddlesdenâ€Popper Layered Perovskites (Li₂SrTa₂O₇, Li₂SrNb₂O₇,) Tj ETQq0 0 0 rgBT /Overlock Electrolyte. ChemElectroChem, 2018, 5, 1265-1271.	3.4	9
143	Highly Conformal Hafnium Silicate Film Growth by Atomic-Layer Chemical Vapor Deposition using a New Combination of Precursors: Hf(OC(CH3)3)4and Si(N(CH3)(C2H5))4. Japanese Journal of Applied Physics, 2006, 45, 5174-5177.	1.5	8
144	n-ZnO:Ga/i-ZnO/p-Si heterojunction light emitting diodes fabricated on patterned Si substrates. Journal of Materials Science: Materials in Electronics, 2009, 20, 1214-1218.	2.2	8

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145	Non-destructive micro-Raman analysis of Si near Cu through silicon via. Electronic Materials Letters, 2017, 13, 120-128.	2.2	8
146	Observation of sand movement during bucket installation. International Journal of Physical Modelling in Geotechnics, 2019, 19, 1-14.	0.6	8
147	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. ACS Omega, 2020, 5, 16106-16119.	3.5	8
148	MOCVD and characterization of Hf-silicate thin films using HTB and TEMAS. Journal of Non-Crystalline Solids, 2007, 353, 1172-1176.	3.1	7
149	Surface Plasmon-Enhanced Light-Emission Mechanism of Ag-Coated ZnO/Al₂O₃ Core/Shell Nanorod Structures. Journal of Nanoscience and Nanotechnology, 2013, 13, 3335-3340.	0.9	7
150	Improving the electrochemical properties of Al, Zr Co-doped Li4Ti5O12 as a lithium-ion battery anode material. Journal of the Korean Physical Society, 2014, 64, 1545-1549.	0.7	7
151	Passivation analysis of silicon surfaces via solâ€"gel derived Al-rich ZnO film. Semiconductor Science and Technology, 2015, 30, 015012.	2.0	7
152	Highly Sensitive Micropatterned Interdigitated Electrodes for Enhancing the Concentration Effect Based on Dielectrophoresis. Sensors, 2019, 19, 4152.	3.8	7
153	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
154	Heterojunction light emitting diodes fabricated with different n-layer oxide structures on p-GaN layers by magnetron sputtering. Applied Surface Science, 2010, 256, 4972-4976.	6.1	6
155	Optical and photovoltaic properties of silicon wire solar cells with controlled ZnO nanorods antireflection coating. Journal of Materials Science, 2012, 47, 4138-4145.	3.7	6
156	Dimensional dependence of phonon transport in freestanding atomic layer systems. Nanoscale, 2013, 5, 11870.	5.6	6
157	Lactamâ€Based HDAC Inhibitors for Anticancer Chemotherapy: Restoration of RUNX3 by Posttranslational Modification and Epigenetic Control. ChemMedChem, 2014, 9, 649-656.	3.2	6
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