Changhee Lee

List of Publications by Year
in descending order

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432	12,190	44069	38395
papers	citations	48 h-index	95 g-index

438	438	438	14268
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bright and Efficient Full-Color Colloidal Quantum Dot Light-Emitting Diodes Using an Inverted Device Structure. Nano Letters, 2012, 12, 2362-2366.	9.1	817
2	Multifunctional Epidermal Electronics Printed Directly Onto the Skin. Advanced Materials, 2013, 25, 2773-2778.	21.0	714
3	Controlling the influence of Auger recombination on the performance of quantum-dot light-emitting diodes. Nature Communications, 2013, 4, 2661.	12.8	605
4	Microstructured elastomeric surfaces with reversible adhesion and examples of their use in deterministic assembly by transfer printing. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17095-17100.	7.1	356
5	Highly Efficient Cadmium-Free Quantum Dot Light-Emitting Diodes Enabled by the Direct Formation of Excitons within InP@ZnSeS Quantum Dots. ACS Nano, 2013, 7, 9019-9026.	14.6	326
6	Highly Efficient Greenâ€Lightâ€Emitting Diodes Based on CdSe@ZnS Quantum Dots with a Chemicalâ€Composition Gradient. Advanced Materials, 2009, 21, 1690-1694.	21.0	265
7	Influence of Shell Thickness on the Performance of Lightâ€Emitting Devices Based on CdSe/Zn_{1â€X}Cd_XS Core/Shell Heterostructured Quantum Dots. Advanced Materials, 2014, 26, 8034-8040.	21.0	250
8	InP@ZnSeS, Core@Composition Gradient Shell Quantum Dots with Enhanced Stability. Chemistry of Materials, 2011, 23, 4459-4463.	6.7	239
9	Multicolored Light-Emitting Diodes Based on All-Quantum-Dot Multilayer Films Using Layer-by-Layer Assembly Method. Nano Letters, 2010, 10, 2368-2373.	9.1	216
10	R/G/B/Natural White Light Thin Colloidal Quantum Dotâ€Based Lightâ€Emitting Devices. Advanced Materials, 2014, 26, 6387-6393.	21.0	193
11	Using nanoscale thermocapillary flows to create arrays of purely semiconducting single-walled carbon nanotubes. Nature Nanotechnology, 2013, 8, 347-355.	31.5	167
12	Siliconâ€Cored Anthracene Derivatives as Host Materials for Highly Efficient Blue Organic Lightâ€Emitting Devices. Advanced Materials, 2008, 20, 2720-2729.	21.0	162
13	Spin-coated Ga-doped ZnO transparent conducting thin films for organic light-emitting diodes. Journal Physics D: Applied Physics, 2009, 42, 035102.	2.8	162
14	All-Inkjet-Printed Organic Thin-Film Transistor Inverter on Flexible Plastic Substrate. IEEE Electron Device Letters, 2011, 32, 1134-1136.	3.9	156
15	Highly Efficient Red Phosphorescent OLEDs based on Nonâ€Conjugated Siliconâ€Cored Spirobifluorene Derivative Doped with Irâ€Complexes. Advanced Functional Materials, 2009, 19, 420-427.	14.9	140
16	Quantum Dotâ^'Block Copolymer Hybrids with Improved Properties and Their Application to Quantum Dot Light-Emitting Devices. ACS Nano, 2009, 3, 1063-1068.	14.6	132
17	Unraveling the Origin of Operational Instability of Quantum Dot Based Light-Emitting Diodes. ACS Nano, 2018, 12, 10231-10239.	14.6	123
18	Perspective on synthesis, device structures, and printing processes for quantum dot displays. Optical Materials Express, 2012, 2, 594.	3.0	120

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19	High-resolution patterning of colloidal quantum dots via non-destructive, light-driven ligand crosslinking. Nature Communications, 2020, 11, 2874.	12.8	114
20	Water-Soluble Thin Film Transistors and Circuits Based on Amorphous Indiumâ€“Galliumâ€“Zinc Oxide. ACS Applied Materials & Interfaces, 2015, 7, 8268-8274.	8.0	113
21	Design Principle for Bright, Robust, and Color-Pure InP/ZnSe_xS_{1â€“x}/ZnS Heterostructures. Chemistry of Materials, 2019, 31, 3476-3484.	6.7	112
22	High-Power Genuine Ultraviolet Light-Emitting Diodes Based On Colloidal Nanocrystal Quantum Dots. Nano Letters, 2015, 15, 3793-3799.	9.1	105
23	Sources of Hysteresis in Carbon Nanotube Fieldâ€Effect Transistors and Their Elimination Via Methylsiloxane Encapsulants and Optimized Growth Procedures. Advanced Functional Materials, 2012, 22, 2276-2284.	14.9	103
24	A dual-scale metal nanowire network transparent conductor for highly efficient and flexible organic light emitting diodes. Nanoscale, 2017, 9, 1978-1985.	5.6	101
25	An Ultrastretchable and Self-Healable Nanocomposite Conductor Enabled by Autonomously Percolative Electrical Pathways. ACS Nano, 2019, 13, 6531-6539.	14.6	99
26	Characterization of Quantum Dot/Conducting Polymer Hybrid Films and Their Application to Lightâ€Emitting Diodes. Advanced Materials, 2009, 21, 5022-5026.	21.0	90
27	A transient, closed-loop network of wireless, body-integrated devices for autonomous electrotherapy. Science, 2022, 376, 1006-1012.	12.6	90
28	Plasmonic Organic Solar Cells Employing Nanobump Assembly via Aerosol-Derived Nanoparticles. ACS Nano, 2014, 8, 2590-2601.	14.6	89
29	Hysteresis mechanism and reduction method in the bottom-contact pentacene thin-film transistors with cross-linked poly(vinyl alcohol) gate insulator. Applied Physics Letters, 2006, 88, 252102.	3.3	86
30	Improvement of electron injection in inverted bottom-emission blue phosphorescent organic light emitting diodes using zinc oxide nanoparticles. Applied Physics Letters, 2010, 96, .	3.3	85
31	Aligned networks of cadmium sulfidenanowires for highly flexible photodetectors with improved photoconductive responses. Journal of Materials Chemistry, 2012, 22, 2173-2179.	6.7	84
32	One-step solvothermal synthesis of carnation flower-like SnS 2 as superior electrodes for supercapacitor applications. Applied Surface Science, 2017, 425, 923-931.	6.1	74
33	Multifunctional Dendrimer Ligands for High-Efficiency, Solution-Processed Quantum Dot Light-Emitting Diodes. ACS Nano, 2017, 11, 684-692.	14.6	70
34	Comparison of trapped charges and hysteresis behavior in hBN encapsulated single MoS₂ flake based field effect transistors on SiO₂ and hBN substrates. Nanotechnology, 2018, 29, 335202.	2.6	70
35	Towards the commercialization of colloidal quantum dot solar cells: perspectives on device structures and manufacturing. Energy and Environmental Science, 2020, 13, 404-431.	30.8	68
36	Effects of Li doping on the performance and environmental stability of solution processed ZnO thin film transistors. Applied Physics Letters, 2009, 95, 193503.	3.3	64

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37	Single Chain White-Light-Emitting Polyfluorene Copolymers Containing Iridium Complex Coordinated on the Main Chain. Macromolecules, 2010, 43, 1379-1386.	4.8	62
38	Highly loaded PbS/Mn-doped CdS quantum dots for dual application in solar-to-electrical and solar-to-chemical energy conversion. Applied Catalysis B: Environmental, 2018, 227, 409-417.	20.2	59
39	Direct Evidence of Ion-Migration-Induced Degradation of Ultrabright Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2019, 11, 11667-11673.	8.0	59
40	Efficient white organic light emission by single emitting layer. Thin Solid Films, 2003, 426, 246-249.	1.8	58
41	Deep blue light-emitting diodes based on Cd1â^'xZnxS@ZnS quantum dots. Nanotechnology, 2009, 20, 075202.	2.6	58
42	Improved Efficiency of Inverted Organic Light-Emitting Diodes Using Tin Dioxide Nanoparticles as an Electron Injection Layer. ACS Applied Materials & Interfaces, 2013, 5, 1977-1981.	8.0	56
43	All-solution-processed bottom-gate organic thin-film transistor with improved subthreshold behaviour using functionalized pentacene active layer. Journal Physics D: Applied Physics, 2009, 42, 115107.	2.8	55
44	Toward highâ€resolution, inkjetâ€printed, quantum dot lightâ€emitting diodes for nextâ€generation displays. Journal of the Society for Information Display, 2016, 24, 545-551.	2.1	55
45	Analysis of Ionâ€Diffusionâ€Induced Interface Degradation in Inverted Perovskite Solar Cells via Restoration of the Ag Electrode. Advanced Energy Materials, 2018, 8, 1702197.	19.5	55
46	Highly Efficient and Bright Inverted Topâ€Emitting InP Quantum Dot Lightâ€Emitting Diodes Introducing a Holeâ€Suppressing Interlayer. Small, 2019, 15, e1905162.	10.0	54
47	Structureâ€“Property Correlation in Luminescent Indolo[3,2-b]indole (IDID) Derivatives: Unraveling the Mechanism of High Efficiency Thermally Activated Delayed Fluorescence (TADF). ACS Applied Materials & Interfaces, 2017, 9, 41413-41420.	8.0	52
48	Interface polarization in heterovalent coreâ€“shell nanocrystals. Nature Materials, 2022, 21, 246-252.	27.5	52
49	Solution-processed single-walled carbon nanotube field effect transistors and bootstrapped inverters for disintegratable, transient electronics. Applied Physics Letters, 2014, 105, .	3.3	51
50	Enhanced Light Trapping and Power Conversion Efficiency in Ultrathin Plasmonic Organic Solar Cells: A Coupled Optical-Electrical Multiphysics Study on the Effect of Nanoparticle Geometry. ACS Photonics, 2015, 2, 78-85.	6.6	49
51	Carrier conduction mechanism for phosphorescent material doped organic semiconductor. Journal of Applied Physics, 2009, 105, 033709.	2.5	48
52	1 GHz Pentacene Diode Rectifiers Enabled by Controlled Film Deposition on SAMâ€Treated Au Anodes. Advanced Electronic Materials, 2016, 2, 1500282.	5.1	48
53	Grapheneâ€“nanowire hybrid structures for high-performance photoconductive devices. Journal of Materials Chemistry, 2012, 22, 8372.	6.7	47
54	Multifunctional Organicâ€Semiconductor Interfacial Layers for Solutionâ€Processed Oxideâ€Semiconductor Thinâ€Film Transistor. Advanced Materials, 2017, 29, 1607055.	21.0	47

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55	High-Mobility Pyrene-Based Semiconductor for Organic Thin-Film Transistors. ACS Applied Materials & Interfaces, 2013, 5, 3855-3860.	8.0	46
56	Fluorinated CYTOP passivation effects on the electrical reliability of multilayer MoS₂ field-effect transistors. Nanotechnology, 2015, 26, 455201.	2.6	46
57	Cation-Exchange-Derived InGaP Alloy Quantum Dots toward Blue Emissivity. Chemistry of Materials, 2020, 32, 3537-3544.	6.7	46
58	High performance inverted organic solar cells with solution processed Ga-doped ZnO as an interfacial electron transport layer. Journal of Materials Chemistry C, 2013, 1, 8161.	5.5	45
59	Improvement of Long-Term Durability and Bias Stress Stability in p-Type SnO Thin-Film Transistors Using a SU-8 Passivation Layer. IEEE Electron Device Letters, 2014, 35, 1260-1262.	3.9	45
60	Electrical and rheological properties of polycarbonate/multiwalled carbon nanotube nanocomposites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 313-314, 242-245.	4.7	43
61	Transparent electrode with ZnO nanoparticles in tandem organic solar cells. Solar Energy Materials and Solar Cells, 2011, 95, 365-368.	6.2	43
62	Microwave purification of large-area horizontally aligned arrays of single-walled carbon nanotubes. Nature Communications, 2014, 5, 5332.	12.8	43
63	Pushâ€Pull Design of Bis(tridentate) Ruthenium(II) Polypyridine Chromophores as Deep Red Light Emitters in Lightâ€Emitting Electrochemical Cells. European Journal of Inorganic Chemistry, 2014, 2014, 288-295.	2.0	42
64	Synthesis of garland like ZnO nanorods and their application in dye sensitized solar cells. Materials Letters, 2013, 92, 104-107.	2.6	41
65	Degradation of organic light emitting diode: Heat related issues and solutions. Synthetic Metals, 2016, 216, 40-50.	3.9	41
66	Effect of main ligands on organic photovoltaic performance of Ir(iii) complexes. New Journal of Chemistry, 2011, 35, 2557.	2.8	40
67	New carbazole-based host material for low-voltage and highly efficient red phosphorescent organic light-emitting diodes. Journal of Materials Chemistry, 2012, 22, 6351.	6.7	40
68	Cross-Stacked Single-Crystal Organic Nanowire pâ€“n Nanojunction Arrays by Nanotransfer Printing. Nano Letters, 2015, 15, 289-293.	9.1	40
69	Multi-layer WSe 2 field effect transistor with improved carrier-injection contact by using oxygen plasma treatment. Solid-State Electronics, 2018, 140, 2-7.	1.4	40
70	Enhanced Performance of Pixelated Quantum Dot Lightâ€Emitting Diodes by Inkjet Printing of Quantum Dotâ€“Polymer Composites. Advanced Optical Materials, 2021, 9, 2002129.	7.3	39
71	Pyrene end-capped oligothiophene derivatives for organic thin-film transistors and organic solar cells. New Journal of Chemistry, 2012, 36, 1813.	2.8	38
72	Enhanced Lifetime and Efficiency of Red Quantum Dot Lightâ€Emitting Diodes with Yâ€Doped ZnO Solâ€“Gel Electronâ€Transport Layers by Reducing Excess Electron Injection. Advanced Quantum Technologies, 2018, 1, 1700006.	3.9	38

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73	Grain size effects on contact resistance of top-contact pentacene TFTs. Synthetic Metals, 2006, 156, 196-201.	3.9	37
74	Overcoming tradeoff between mobility and bias stability in organic field-effect transistors according to the self-assembled monolayer chain lengths. Applied Physics Letters, 2014, 104, .	3.3	37
75	Enhanced photovoltaic performance of inverted organic solar cells with In-doped ZnO as an electron extraction layer. Renewable Energy, 2014, 66, 433-442.	8.9	36
76	Reduced efficiency roll-off in light-emitting diodes enabled by quantum dotâ€“conducting polymer nanohybrids. Journal of Materials Chemistry C, 2014, 2, 4974-4979.	5.5	36
77	Thin Film Receiver Materials for Deterministic Assembly by Transfer Printing. Chemistry of Materials, 2014, 26, 3502-3507.	6.7	35
78	Deterministic assembly of releasable single crystal silicon-metal oxide field-effect devices formed from bulk wafers. Applied Physics Letters, 2013, 102, .	3.3	34
79	Electrical-Stress-Induced Threshold Voltage Instability in Solution-Processed ZnO Thin-Film Transistors: An Experimental and Simulation Study. IEEE Transactions on Electron Devices, 2011, 58, 1995-2002.	3.0	33
80	Hydroiodic acid treated PEDOT:PSS thin film as transparent electrode: an approach towards ITO free organic photovoltaics. RSC Advances, 2015, 5, 52019-52025.	3.6	33
81	The Role of Emission Layer Morphology on the Enhanced Performance of Lightâ€Emitting Diodes Based on Quantum Dotâ€Semiconducting Polymer Hybrids. Advanced Materials Interfaces, 2016, 3, 1600279.	3.7	33
82	The effect of band gap alignment on the hole transport from semiconducting block copolymers to quantum dots. Journal of Materials Chemistry C, 2013, 1, 1722.	5.5	32
83	The photovoltaic effect of the pâ€“n heterojunction organic photovoltaic device using a nano template method. Current Applied Physics, 2005, 5, 55-58.	2.4	31
84	Fabrication of a high-aspect-ratio stainless steel shadow mask and its application to pentacene thin-film transistors. Journal of Micromechanics and Microengineering, 2005, 15, 263-269.	2.6	31
85	Soft Contact Transplanted Nanocrystal Quantum Dots for Light-Emitting Diodes: Effect of Surface Energy on Device Performance. ACS Applied Materials & Interfaces, 2015, 7, 10828-10833.	8.0	31
86	Electroluminescence characteristics of n-type matrix materials doped with iridium-based green and red phosphorescent emitters. Journal of Applied Physics, 2008, 103, 054510.	2.5	30
87	Contact Resistance of Inkjet-Printed Silver Sourceâ€“Drain Electrodes in Bottom-Contact OTFTs. Journal of Display Technology, 2012, 8, 48-53.	1.2	30
88	Acetylene-bridged Dâ€“Aâ€“D type small molecule comprising pyrene and diketopyrrolopyrrole for high efficiency organic solar cells. Organic Electronics, 2013, 14, 2341-2347.	2.6	30
89	Low frequency noise characteristics in multilayer WSe2 field effect transistor. Applied Physics Letters, 2015, 106, .	3.3	30
90	Direct Optical Probing of Transverse Electric Mode in Graphene. Scientific Reports, 2016, 6, 21523.	3.3	30

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91	Ligand-Asymmetric Janus Quantum Dots for Efficient Blue-Quantum Dot Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 22453-22459.	8.0	30
92	High-performance organic semiconductors for thin-film transistors based on 2,7-divinyl[1]benzothieno[3,2-b]benzothiophene. Journal of Materials Chemistry, 2008, 18, 4698.	6.7	29
93	High-performance polymer light emitting diodes with interface-engineered graphene anodes. Organic Electronics, 2013, 14, 2324-2330.	2.6	29
94	Binder-free, scalable hierarchical MoS2 as electrode materials in symmetric supercapacitors for energy harvesting applications. Materials Letters, 2019, 236, 167-170.	2.6	29
95	Synthesis and Electroluminescence of New Polyfluorene Copolymers Containing Iridium Complex Coordinated on the Main Chain. Macromolecules, 2009, 42, 5551-5557.	4.8	28
96	High-efficiency inverted organic solar cells with polyethylene oxide-modified Zn-doped TiO2as an interfacial electron transport layer. Nanoscale, 2014, 6, 8585.	5.6	28
97	Enhanced light out-coupling in OLED employing thermal-assisted, self-aggregated silver nano particles. Organic Electronics, 2018, 52, 230-236.	2.6	28
98	Selectively modulated inkjet printing of highly conductive and transparent foldable polymer electrodes for flexible polymer light-emitting diode applications. Organic Electronics, 2015, 19, 147-156.	2.6	27
99	Injection-modulated polarity conversion by charge carrier density control via a self-assembled monolayer for all-solution-processed organic field-effect transistors. Scientific Reports, 2017, 7, 46365.	3.3	27
100	Vertical-slate-like MoS2 nanostructures on 3D-Ni-foam for binder-free, low-cost, and scalable solid-state symmetric supercapacitors. Current Applied Physics, 2019, 19, 1-7.	2.4	27
101	The effect of a buffer layer on the photovoltaic properties of solar cells with P3OT:fullerene composites. Synthetic Metals, 2005, 153, 97-100.	3.9	26
102	Full-swing pentacene organic inverter with enhancement-mode driver and depletion-mode load. Solid-State Electronics, 2006, 50, 1216-1218.	1.4	26
103	Frequency analysis on poly(3-hexylthiopene) rectifier using impedance spectroscopy. Thin Solid Films, 2009, 518, 889-892.	1.8	26
104	Quantum confinement effects in Gd-doped CdS nanoparticles prepared by chemical precipitation technique. Journal of Materials Science: Materials in Electronics, 2013, 24, 4535-4541.	2.2	26
105	Degradation mechanism of blue thermally activated delayed fluorescent organic light-emitting diodes under electrical stress. Organic Electronics, 2019, 70, 286-291.	2.6	26
106	All-Inkjet-Printed Organic Thin-Film Transistors with Silver Gate, Source/Drain Electrodes. Japanese Journal of Applied Physics, 2011, 50, 03CB05.	1.5	26
107	White LEDs using conjugated polymer blends. Synthetic Metals, 2005, 152, 205-208.	3.9	25
108	4,4â€²,4â€³-Tris(4-naphthalen-1-yl-phenyl)amine as a multifunctional material for organic light-emitting diodes, organic solar cells, and organic thin-film transistors. Organic Electronics, 2010, 11, 1288-1295.	2.6	25

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109	Temperature dependent transport properties in molybdenum oxide doped Î±-NPD. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 166, 147-151.	3.5	25
110	Naphtho[2,3,a]pyrene as an efficient multifunctional organic semiconductor for organic solar cells, organic light-emitting diodes, and organic thin-film transistors. Organic Electronics, 2010, 11, 1103-1110.	2.6	25
111	Effect of Temperature and Electric Field on Degradation in Amorphous InGaZnO TFTs Under Positive Gate and Drain Bias Stress. IEEE Electron Device Letters, 2014, 35, 458-460.	3.9	25
112	Nanocrystalline Ga-doped ZnO thin films for inverted polymer solar cells. Solar Energy, 2014, 106, 95-101.	6.1	25
113	Comparison of the electroluminescence of a red fluorescent dye doped into the Alq3 and Alq3:rubrene mixed host. Materials Science and Engineering C, 2004, 24, 229-232.	7.3	24
114	Enhanced photovoltaic performance of ZnO nanoparticle/poly(phenylene vinylene) hybrid photovoltaic cells by semiconducting surfactant. Organic Electronics, 2011, 12, 424-428.	2.6	24
115	Hole transport materials with high glass transition temperatures for highly stable organic light-emitting diodes. Thin Solid Films, 2012, 520, 7157-7163.	1.8	24
116	Side-chain conjugated polymers for use in the active layers of hybrid semiconducting polymer/quantum dot light emitting diodes. Polymer Chemistry, 2016, 7, 101-112.	3.9	24
117	Emergent Anisotropic Non-Fermi Liquid at a Topological Phase Transition in Three Dimensions. Physical Review Letters, 2019, 122, 187601.	7.8	23
118	Universal Elaboration of Alâ€Ðoped TiO₂ as an Electron Extraction Layer in Inorganicâ€“Organic Hybrid Perovskite and Organic Solar Cells. Advanced Materials Interfaces, 2020, 7, 1902003.	3.7	23
119	Control of resonant wavelength from organic light-emitting materials by use of a Fabry-Perot microcavity structure. Applied Optics, 2002, 41, 3312.	2.1	22
120	Structural origin of the mobility enhancement in a pentacene thin-film transistor with a photocrosslinking insulator. Journal of Applied Physics, 2007, 102, 063508.	2.5	22
121	Spin-coated Ga-doped ZnO transparent conducting thin films for organic light-emitting diodes. Journal Physics D: Applied Physics, 2009, 42, 139801-139801.	2.8	22
122	Synthesis of ZnO nanorods and their application in quantum dot sensitized solar cells. Journal of Sol-Gel Science and Technology, 2012, 64, 750-755.	2.4	22
123	Petal-like MoS 2 nanostructures with metallic 1ÂT phase for high performance supercapacitors. Current Applied Physics, 2018, 18, 345-352.	2.4	22
124	Highâ€density quantum dots composites and its photolithographic patterning applications. Polymers for Advanced Technologies, 2019, 30, 749-754.	3.2	22
125	Liquid crystalline mesophases based on symmetric tetrathiafulvalene derivatives. Journal of Materials Chemistry, 2011, 21, 60-64.	6.7	21
126	Effect of variations in diameter and density on the statistics of aligned array carbon-nanotube field effect transistors. Journal of Applied Physics, 2012, 111, .	2.5	21

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127	Role of tunneling layer in graphene-oxide based organic nonvolatile memory transistors. Organic Electronics, 2012, 13, 2887-2892.	2.6	21
128	Photocurable propyl-cinnamate-functionalized polyhedral oligomeric silsesquioxane as a gate dielectric for organic thin film transistors. Organic Electronics, 2013, 14, 2315-2323.	2.6	21
129	Characterization of white electroluminescent devices fabricated using conjugated polymer blends. Journal of Materials Research, 2004, 19, 2081-2086.	2.6	20
130	Surface Coatings Based on Polysilsesquioxanes: Solutionâ€Processible Smooth Holeâ€Injection Layers for Optoelectronic Applications. Macromolecular Rapid Communications, 2009, 30, 1238-1242.	3.9	20
131	AC impedance spectroscopic studies of transport properties in metal oxide doped Î±-NPD. Current Applied Physics, 2009, 9, 978-984.	2.4	20
132	Study of Buffer Layer Thickness on Bulk Heterojunction Solar Cell. Journal of Nanoscience and Nanotechnology, 2010, 10, 6815-6818.	0.9	20
133	Solution processable donor materials based on thiophene and triphenylamine for bulk heterojunction solar cells. New Journal of Chemistry, 2010, 34, 744.	2.8	20
134	Modular Fabrication of Hybrid Bulk Heterojunction Solar Cells Based on Breakwater-like CdSe Tetrapod Nanocrystal Network Infused with P3HT. Journal of Physical Chemistry C, 2014, 118, 3942-3952.	3.1	20
135	Enhanced power conversion efficiency of inverted organic solar cells by using solution processed Sn-doped TiO2 as an electron transport layer. Journal of Materials Chemistry A, 2014, 2, 11426.	10.3	20
136	Zero-line modes at stacking faulted domain walls in multilayer graphene. Physical Review B, 2016, 94, .	3.2	20
137	Vertical organic light-emitting transistor showing a high current on/off ratio through dielectric encapsulation for the effective charge pathway. Journal of Applied Physics, 2017, 121, .	2.5	20
138	â€œPositive Incentiveâ€•Approach To Enhance the Operational Stability of Quantum Dot-Based Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2019, 11, 40252-40259.	8.0	20
139	Environmentally friendly quantum-dot color filters for ultra-high-definition liquid crystal displays. Scientific Reports, 2020, 10, 15817.	3.3	20
140	Surface Engineered Colloidal Quantum Dots for Complete Green Process. ACS Applied Materials & Interfaces, 2020, 12, 10563-10570.	8.0	20
141	Inkjet-Printed Silver Gate Electrode and Organic Dielectric Materials for Bottom-Gate Pentacene Thin-Film Transistors. Journal of the Korean Physical Society, 2009, 54, 518-522.	0.7	20
142	Effect of molar mass on electroluminescence of poly(p-phenylene). Synthetic Metals, 2002, 130, 9-16.	3.9	19
143	Highly efficient yellow and white phosphorescent organic light-emitting diodes using a benzothiazole-liganded new iridium complex. Synthetic Metals, 2012, 162, 1421-1428.	3.9	19
144	Surface coverage enhancement of a mixed halide perovskite film by using an UV-ozone treatment. Journal of the Korean Physical Society, 2016, 69, 406-411.	0.7	19

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145	Photosensitive Full-Swing Multi-Layer MoS₂Inverters With Light Shielding Layers. IEEE Electron Device Letters, 2017, 38, 67-70.	3.9	19
146	Versatile use of ZnO interlayer in hybrid solar cells for self-powered near infra-red photo-detecting application. Journal of Alloys and Compounds, 2020, 813, 152202.	5.5	19
147	Physically Detachable and Operationally Stable Cs₂SnI₆ Photodetector Arrays Integrated with Âµâ€ŁEDs for Broadband Flexible Optical Systems. Advanced Materials, 2022, 34, e2109673.	21.0	19
148	Organic light-emitting devices based on vacuum-deposited poly(p-phenylene) thin film. Synthetic Metals, 2000, 114, 355-359.	3.9	18
149	Device characteristics of blue phosphorescent organic light-emitting diodes depending on the electron transport materials. Journal of Information Display, 2011, 12, 219-222.	4.0	18
150	All-Inkjet-Printed Organic Thin-Film Transistors with Silver Gate, Source/Drain Electrodes. Japanese Journal of Applied Physics, 2011, 50, 03CB05.	1.5	18
151	Low-Driving-Voltage, Long-Lifetime Organic Light-Emitting Diodes with Molybdenum-Oxide (MoO3)-Doped Hole Transport Layers. Journal of the Korean Physical Society, 2008, 53, 1660-1664.	0.7	18
152	Simple white organic light emitting diodes with improved color stability and efficiency using phosphorescent and fluorescent emitters. Journal of Applied Physics, 2008, 103, 124504.	2.5	17
153	Effect of Nanoscale SubPc Interfacial Layer on the Performance of Inverted Polymer Solar Cells Based on P3HT/PC₇₁BM. ACS Applied Materials & Interfaces, 2011, 3, 4279-4285.	8.0	17
154	Improved performances in organic and polymer lightâ€emitting diodes using solutionâ€processed vanadium pentoxide as a hole injection layer. Journal of the Society for Information Display, 2012, 20, 640-645.	2.1	17
155	Synthesis and characterization of flower like ZnO nanorods for dye-sensitized solar cells. Journal of Materials Science: Materials in Electronics, 2013, 24, 2367-2371.	2.2	17
156	Chemical bath deposition of ZnO nanorods for dye sensitized solar cell applications. Journal of Materials Science: Materials in Electronics, 2013, 24, 1921-1926.	2.2	17
157	Tunable Electron and Hole Injection Enabled by Atomically Thin Tunneling Layer for Improved Contact Resistance and Dual Channel Transport in MoS₂/WSe₂ van der Waals Heterostructure. ACS Applied Materials & Interfaces, 2018, 10, 23961-23967.	8.0	17
158	Annealing temperature and stabilizer effects on morphological evolution of Cu2CoSnS4 films on thermally oxidized Si wafers via direct spin-coating. Journal of Alloys and Compounds, 2019, 781, 1091-1100.	5.5	17
159	Solution-Processable Zinc Oxide for the Polymer Solar Cell Based on P3HT:PCBM. Journal of Nanoscience and Nanotechnology, 2011, 11, 5995-6000.	0.9	16
160	Multi-Functional Electronics: Multifunctional Epidermal Electronics Printed Directly Onto the Skin (Adv. Mater. 20/2013). Advanced Materials, 2013, 25, 2772-2772.	21.0	16
161	Light outcoupling enhancement from top-emitting organic light-emitting diodes made on a nano-sized stochastic texture surface. Optics Express, 2014, 22, A1687.	3.4	16
162	Rosa centifolia sensitized ZnO nanorods for photoelectrochemical solar cell applications. Solar Energy, 2014, 106, 143-150.	6.1	16

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