Jeonghun Kwak

List of Publications by Year
in descending order

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105	4,557	126907	102487
papers	citations	33 h-index	66 g-index

108	108	108	5618
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bright and Stable Quantum Dot Lightâ€Emitting Diodes. Advanced Materials, 2022, 34, e2106276.	21.0	109
2	Synthesis of UV/blue light-emitting aluminum hydroxide with oxygen vacancy and their application to electrically driven light-emitting diodes. RSC Advances, 2022, 12, 4322-4328.	3.6	3
3	Progress in the development of the display performance of AR, VR, QLED and OLED devices in recent years. Journal of Information Display, 2022, 23, 1-17.	4.0	80
4	Quantum-dot and organic hybrid light-emitting diodes employing a blue common layer for simple fabrication of full-color displays. Nano Research, 2022, 15, 6477-6482.	10.4	8
5	Transient Dynamics of Charges and Excitons in Quantum Dot Lightâ€Emitting Diodes. Small, 2022, 18, .	10.0	15
6	Degenerately Doped Semiâ€Crystalline Polymers for High Performance Thermoelectrics. Advanced Functional Materials, 2021, 31, 2006900.	14.9	31
7	Origin of enhanced efficiency and stability in diblock copolymer-grafted Cd-free quantum dot-based light-emitting diodes. Journal of Materials Chemistry C, 2021, 9, 10398-10405.	5.5	9
8	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
9	Stoichiometric Doping of Highly Coupled Cu_{2â€“x}S Nanocrystal Assemblies. ACS Applied Materials & Interfaces, 2021, 13, 26330-26338.	8.0	3
10	Highly Efficient, Surface Ligand Modified Quantum Dot Lightâ€Emitting Diodes Driven by Typeâ€Controllable MoTe₂ Thin Film Transistors via Electron Charge Enhancer. Advanced Electronic Materials, 2021, 7, 2100535.	5.1	9
11	Effect of Solvent on the Interfacial Crystallinity in Sequentially Processed Organic Solar Cells. Advanced Materials Interfaces, 2021, 8, 2100029.	3.7	7
12	20.3: Invited Paper: Organicâ€“Quantum Dot Hybrid Lightâ€Emitting Diodes and Inkjetâ€printed Quantum Dot Pixels for Fullâ€color Displays. Digest of Technical Papers SID International Symposium, 2021, 52, 276-276.	0.3	0
13	Photovoltaic characterizing method of degradation of polymer light-emitting diodes based on ideality factor and density of states. Applied Physics Letters, 2021, 119, .	3.3	1
14	A Bioinspired Stretchable Sensoryâ€Neuromorphic System. Advanced Materials, 2021, 33, e2104690.	21.0	67
15	Analysis of the effect of solvents on the performance of solution-processed organic light-emitting diodes based on Fourier-transform infrared spectroscopy. Organic Electronics, 2021, 97, 106264.	2.6	1
16	Mechanically and electrically durable, stretchable electronic textiles for robust wearable electronics. RSC Advances, 2021, 11, 22327-22333.	3.6	10
17	Study on graphene oxide as a hole extraction layer for stable organic solar cells. RSC Advances, 2021, 11, 27199-27206.	3.6	7
18	Closely Packed Polypyrroles via Ionic Cross-Linking: Correlation of Molecular Structureâ€“Morphologyâ€“Thermoelectric Properties. ACS Applied Materials & Interfaces, 2020, 12, 1110-1119.	8.0	21

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19	Photo-cleavable perfluoroalkylated copolymers for tailoring quantum dot thin films. Polymer Chemistry, 2020, 11, 6624-6631.	3.9	4
20	Tailoring the Electronic Landscape of Quantum Dot Light-Emitting Diodes for High Brightness and Stable Operation. ACS Nano, 2020, 14, 17496-17504.	14.6	33
21	Optimization of Thermoelectric Properties of Polymers by Incorporating Oligoethylene Glycol Side Chains and Sequential Solution Doping with Preannealing Treatment. Macromolecules, 2020, 53, 7063-7072.	4.8	25
22	Sunlike White Quantum Dot Lightâ€Emitting Diodes with High Color Rendition Quality. Advanced Optical Materials, 2020, 8, 2001051.	7.3	16
23	Enhanced Output Performance of All-Solution-Processed Organic Thermoelectrics: Spray Printing and Interface Engineering. ACS Applied Materials & Interfaces, 2020, 12, 26250-26257.	8.0	10
24	Understanding of the aging pattern in quantum dot light-emitting diodes using low-frequency noise. Nanoscale, 2020, 12, 15888-15895.	5.6	12
25	High-resolution patterning of colloidal quantum dots via non-destructive, light-driven ligand crosslinking. Nature Communications, 2020, 11, 2874.	12.8	114
26	Progress of display performances: AR, VR, QLED, and OLED. Journal of Information Display, 2020, 21, 1-9.	4.0	52
27	Direct Observation of Crystal Engineering in Perovskite Solar Cells in a Moisture-Free Environment Using Conductive Atomic Force Microscopy and Friction Force Microscopy. Journal of Physical Chemistry C, 2020, 124, 4946-4952.	3.1	6
28	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
29	Enhanced efficiency and high temperature stability of hybrid quantum dot light-emitting diodes using molybdenum oxide doped hole transport layer. RSC Advances, 2019, 9, 16252-16257.	3.6	14
30	Inverted quantum dot light-emitting diodes with defect-passivated ZnO as an electron transport layer. Semiconductor Science and Technology, 2019, 34, 085002.	2.0	5
31	Flexible transparent film heaters using a ternary composite of silver nanowire, conducting polymer, and conductive oxide. RSC Advances, 2019, 9, 5731-5737.	3.6	39
32	Highly Stable Organic Transistors on Paper Enabled by a Simple and Universal Surface Planarization Method. Advanced Materials Interfaces, 2019, 6, 1801731.	3.7	10
33	Progress of display performances: AR, VR, QLED, OLED, and TFT. Journal of Information Display, 2019, 20, 1-8.	4.0	92
34	Enhanced Humid Reliability of Organic Thermoelectrics via Crosslinking with Glycerol. Nanomaterials, 2019, 9, 1591.	4.1	3
35	Ileâ€Lysâ€Valâ€alaâ€Val (IKVAV) peptide for neuronal tissue engineering. Polymers for Advanced Technologies, 2019, 30, 4-12.	3.2	35
36	A Planar Cyclopentadithiopheneâ€“Benzothiadiazole-Based Copolymer with sp²-Hybridized Bis(alkylsulfanyl)methylene Substituents for Organic Thermoelectric Devices. Macromolecules, 2018, 51, 3360-3368.	4.8	51

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37	Transition-metal-based layered double hydroxides tailored for energy conversion and storage. Journal of Materials Chemistry A, 2018, 6, 12-29.	10.3	170
38	Simultaneous improvement of performance and stability in PEDOT:PSSâ€“sorbitol composite based flexible thermoelectric modules by novel design and fabrication process. Macromolecular Research, 2018, 26, 61-65.	2.4	14
39	Pâ€114: Green Quantum Dot Lightâ€Emitting Diodes with High Color Purity and Their Efficiency Improvement. Digest of Technical Papers SID International Symposium, 2018, 49, 1640-1642.	0.3	0
40	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
41	Polymeric microspheres: a delivery system for osteogenic differentiation. Polymers for Advanced Technologies, 2017, 28, 1595-1609.	3.2	10
42	Controlling charge balance using non-conjugated polymer interlayer in quantum dot light-emitting diodes. Organic Electronics, 2017, 50, 82-86.	2.6	22
43	Improved electron injection in all-solution-processed n-type organic field-effect transistors with an inkjet-printed ZnO electron injection layer. Applied Surface Science, 2017, 420, 100-104.	6.1	15
44	Structural and Morphological Evolution for Water-resistant Organic Thermoelectrics. Scientific Reports, 2017, 7, 13287.	3.3	18
45	Sulfuric acid vapor treatment for enhancing the thermoelectric properties of PEDOT:PSS thin-films. Journal of Materials Science: Materials in Electronics, 2016, 27, 6122-6127.	2.2	58
46	Vapor-phase-processed fluorinated self-assembled monolayer for organic thin-film transistors. Journal of the Korean Physical Society, 2015, 67, 941-945.	0.7	4
47	46.1: Invited Paper: Recent Progress of Lightâ€Emitting Diodes Based on Colloidal Quantum Dots. Digest of Technical Papers SID International Symposium, 2015, 46, 685-687.	0.3	5
48	The influence of sequential ligand exchange and elimination on the performance of P3HT:CdSe quantum dot hybrid solar cells. Nanotechnology, 2015, 26, 465401.	2.6	9
49	Silver Nanowireâ€“Conducting Polymerâ€“ITO Hybrids for Flexible and Transparent Conductive Electrodes with Excellent Durability. ACS Applied Materials & Interfaces, 2015, 7, 15928-15934.	8.0	50
50	Enhanced thermoelectric properties of sorbitol-mixed PEDOT:PSS thin films by chemical reduction. Journal of Materials Science: Materials in Electronics, 2015, 26, 2838-2843.	2.2	29
51	High-Power Genuine Ultraviolet Light-Emitting Diodes Based On Colloidal Nanocrystal Quantum Dots. Nano Letters, 2015, 15, 3793-3799.	9.1	105
52	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
53	Thermoset polymers consisting of novolac and melamine derivatives as insulators for organic thin-film transistors. Journal of Materials Chemistry C, 2015, 3, 3623-3628.	5.5	2
54	New alkylthio-thieno[3,2-b]thiophene-substituted benzodithiophene-based highly efficient photovoltaic polymer. Journal of Materials Chemistry C, 2015, 3, 4250-4253.	5.5	19

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55	Trap-level-engineered common red layer for fabricating red, green, and blue subpixels of full-color organic light-emitting diode displays. Optics Express, 2015, 23, 11424.	3.4	14
56	Pâ€86: Improved Performance of Quantum Dot Light Emitting Diodes by Using Charge Blocking Layer. Digest of Technical Papers SID International Symposium, 2014, 45, 1309-1311.	0.3	1
57	Improvement in the efficiency of organic solar cells using a low-temperature evaporable optical spacer. Japanese Journal of Applied Physics, 2014, 53, 08NJ04.	1.5	1
58	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
59	Pâ€21: nâ€type Organic Thin Film Transistors with High Operational Stability. Digest of Technical Papers SID International Symposium, 2014, 45, 1021-1023.	0.3	0
60	Fast and low-temperature sintering of silver complex using oximes as a potential reducing agent for solution-processible, highly conductive electrodes. Nanotechnology, 2014, 25, 465706.	2.6	2
61	Highly Efficient Blue Fluorescent Organic Light-Emitting Diodes by Engineering Hole-Transporting/Exciton-Blocking Layer. ECS Solid State Letters, 2014, 4, R5-R9.	1.4	4
62	Composite film of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) and MoO3 as an efficient hole injection layer for polymer light-emitting diodes. Organic Electronics, 2014, 15, 1083-1087.	2.6	12
63	Thermally curable organic/inorganic hybrid polymers as gate dielectrics for organic thin-film transistors. Journal of Polymer Science Part A, 2014, 52, 3260-3268.	2.3	13
64	Room-temperature and solution-processed vanadium oxide buffer layer for efficient charge injection in bottom-contact organic field-effect transistors. Current Applied Physics, 2014, 14, 1809-1812.	2.4	9
65	Thermally curable polymers consisting of alcohol-functionalized cyclotetrasiloxane and melamine derivatives for use as insulators in OTFTs. Organic Electronics, 2014, 15, 3666-3673.	2.6	6
66	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
67	Effect of Ï€-conjugated bridges of TPD-based medium bandgap conjugated copolymers for efficient tandem organic photovoltaic cells. Energy and Environmental Science, 2014, 7, 4118-4131.	30.8	115
68	R/G/B/Natural White Light Thin Colloidal Quantum Dotâ€Based Lightâ€Emitting Devices. Advanced Materials, 2014, 26, 6387-6393.	21.0	193
69	Tetrafluorene-9,9â€²-bifluorenylidene as a non-fullerene type electron acceptor for P3HT-based bulk-heterojunction polymer solar cells. Solar Energy Materials and Solar Cells, 2013, 116, 275-282.	6.2	32
70	High open circuit voltage organic photovoltaic cells fabricated using 9,9â€²-bifluorenylidene as a non-fullerene type electron acceptor. Chemical Communications, 2013, 49, 10950.	4.1	55
71	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
72	High-Mobility Pyrene-Based Semiconductor for Organic Thin-Film Transistors. ACS Applied Materials & Interfaces, 2013, 5, 3855-3860.	8.0	46

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73	Enhanced Lifetime of Organic Light-Emitting Diodes Using an Anthracene Derivative with High Glass Transition Temperature. Journal of Nanoscience and Nanotechnology, 2013, 13, 4216-4222.	0.9	1
74	Analysis of Annealing Process on P3HT:PCBM-Based Polymer Solar Cells Using Optical and Impedance Spectroscopy. Journal of Nanoscience and Nanotechnology, 2013, 13, 3360-3364.	0.9	11
75	P.119: Highâ€Performance Polymer Lightâ€Emitting Diodes with a Conjugated Polyelectrolyte. Digest of Technical Papers SID International Symposium, 2013, 44, 1431-1433.	0.3	3
76	Origin of the Mixing Ratio Dependence of Power Conversion Efficiency in Bulk Heterojunction Organic Solar Cells with Low Donor Concentration. Journal of Nanoscience and Nanotechnology, 2013, 13, 7982-7987.	0.9	3
77	Effect of Solâ€“Gel-Derived ZnO Interfacial Layer on the Photovoltaic Properties of Polymer Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NE29.	1.5	1
78	Perspective on synthesis, device structures, and printing processes for quantum dot displays. Optical Materials Express, 2012, 2, 594.	3.0	120
79	Enhanced Performance of SubPC/C₆₀ Solar Cells by Annealing and Modifying Surface Morphology. Journal of Nanoscience and Nanotechnology, 2012, 12, 5724-5727.	0.9	5
80	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
81	Efficient inverted bottom-emission blue phosphorescent organic light-emitting diodes with a ytterbium-doped electron injection layer. Journal of the Korean Physical Society, 2012, 61, 1536-1540.	0.7	6
82	Organic thin-film transistors using photocurable acryl-fuctionalized polyhedral oligomeric silsesquioxanes as gate dielectrics. Synthetic Metals, 2012, 162, 1798-1803.	3.9	5
83	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
84	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
85	Effect of Solâ€“Gel-Derived ZnO Interfacial Layer on the Photovoltaic Properties of Polymer Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NE29.	1.5	2
86	Improvement of efficiency in inverted bottom-emission white OLEDs by doping the hole transport layer. , 2011, , .		1
87	38.4: Fullâ€Color Patterning of Quantum Dot (QD) Lightâ€Emitting Diodes using QD Transplanting Techniques. Digest of Technical Papers SID International Symposium, 2011, 42, 526-528.	0.3	3
88	Organic complementary inverter and ring oscillator on a flexible substrate. Journal of Information Display, 2011, 12, 1-4.	4.0	1
89	Pâ€153: Colorâ€Saturated LEDs Based on Colloidal Quantumâ€Dot by Improving Charge Injection and Transport Layers. Digest of Technical Papers SID International Symposium, 2010, 41, 1824-1826.	0.3	2
90	Fluorescent white OLEDs with a high colorâ€rendering index using a siliconâ€cored anthracene derivative as a blue host. Journal of Information Display, 2010, 11, 123-127.	4.0	0

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91	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
92	Pâ€160: Highly Efficient Inverted Bottomâ€Emission OLEDs with ZnO Nanoparticles as an Electronâ€Injection Layer. Digest of Technical Papers SID International Symposium, 2010, 41, 1849-1852.	0.3	0
93	Single Chain White-Light-Emitting Polyfluorene Copolymers Containing Iridium Complex Coordinated on the Main Chain. Macromolecules, 2010, 43, 1379-1386.	4.8	62
94	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
95	Effect of the plasmaâ€assisted patterning of the organic layers on the performance of organic lightâ€emitting diodes. Journal of Information Display, 2009, 10, 111-116.	4.0	1
96	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
97	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
98	Characterization of Quantum Dot/Conducting Polymer Hybrid Films and Their Application to Lightâ€Emitting Diodes. Advanced Materials, 2009, 21, 5022-5026.	21.0	90
99	Synthesis and Electroluminescence of New Polyfluorene Copolymers Containing Iridium Complex Coordinated on the Main Chain. Macromolecules, 2009, 42, 5551-5557.	4.8	28
100	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
101	Deep blue light-emitting diodes based on Cd1â^'xZnxS@ZnS quantum dots. Nanotechnology, 2009, 20, 075202.	2.6	58
102	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
103	Thin-Films of Poly-Triarylamines for Electro-Optic Applications. Polymer Bulletin, 2008, 59, 795-803.	3.3	6
104	Siliconâ€Cored Anthracene Derivatives as Host Materials for Highly Efficient Blue Organic Lightâ€Emitting Devices. Advanced Materials, 2008, 20, 2720-2729.	21.0	162
105	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