Changhee Lee

List of Publications by Citations

407 papers	9,811 citations	43 h-index	86 g-index
438 ext. papers	10,941 ext. citations	4.9 avg, IF	6.22 L-index

#	Paper	IF	Citations
407	Bright and efficient full-color colloidal quantum dot light-emitting diodes using an inverted device structure. *Nano Letters*, **2012**, 12, 2362-6	11.5	688
406	Multifunctional epidermal electronics printed directly onto the skin. *Advanced Materials*, **2013**, 25, 2773-8	24	590
405	Controlling the influence of Auger recombination on the performance of quantum-dot light-emitting diodes. *Nature Communications*, **2013**, 4, 2661	17.4	483
404	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, 17095-100	11.5	280
403	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, 9019-26	16.7	276
402	Highly Efficient Green-Light-Emitting Diodes Based on CdSe@ZnS Quantum Dots with a Chemical-Composition Gradient. *Advanced Materials*, **2009**, 21, 1690-1694	24	236
401	Influence of shell thickness on the performance of light-emitting devices based on CdSe/Zn1-X CdX S core/shell heterostructured quantum dots. *Advanced Materials*, **2014**, 26, 8034-40	24	211
400	, Gradient Shell Quantum Dots with Enhanced Stability. *Chemistry of Materials*, **2011**, 23, 4459-4463	9.6	190
399	Multicolored light-emitting diodes based on all-quantum-dot multilayer films using layer-by-layer assembly method. *Nano Letters*, **2010**, 10, 2368-73	11.5	189
398	R/G/B/natural white light thin colloidal quantum dot-based light-emitting devices. *Advanced Materials*, **2014**, 26, 6387-93	24	164
397	Silicon-cored anthracene derivatives as host materials for highly efficient blue organic light-emitting devices. *Advanced Materials*, **2008**, 20, 2720-9	24	151
396	Spin-coated Ga-doped ZnO transparent conducting thin films for organic light-emitting diodes. *Journal Physics D: Applied Physics*, **2009**, 42, 035102	3	146
395	Using nanoscale thermocapillary flows to create arrays of purely semiconducting single-walled carbon nanotubes. *Nature Nanotechnology*, **2013**, 8, 347-55	28.7	144
394	All-Inkjet-Printed Organic Thin-Film Transistor Inverter on Flexible Plastic Substrate. *IEEE Electron Device Letters*, **2011**, 32, 1134-1136	4.4	137
393	Highly Efficient Red Phosphorescent OLEDs based on Non-Conjugated Silicon-Cored Spirobifluorene Derivative Doped with Ir-Complexes. *Advanced Functional Materials*, **2009**, 19, 420-427	15.6	133
392	Quantum dot-block copolymer hybrids with improved properties and their application to quantum dot light-emitting devices. *ACS Nano*, **2009**, 3, 1063-8	16.7	127
391	Perspective on synthesis, device structures, and printing processes for quantum dot displays. *Optical Materials Express*, **2012**, 2, 594	2.6	104

390	Water-soluble thin film transistors and circuits based on amorphous indium-gallium-zinc oxide. *ACS Applied Materials & Interfaces*, **2015**, 7, 8268-74	9.5	98
389	Sources of Hysteresis in Carbon Nanotube Field-Effect Transistors and Their Elimination Via Methylsiloxane Encapsulants and Optimized Growth Procedures. *Advanced Functional Materials*, **2012**, 22, 2276-2284	15.6	93
388	High-Power Genuine Ultraviolet Light-Emitting Diodes Based On Colloidal Nanocrystal Quantum Dots. *Nano Letters*, **2015**, 15, 3793-9	11.5	88
387	A dual-scale metal nanowire network transparent conductor for highly efficient and flexible organic light emitting diodes. *Nanoscale*, **2017**, 9, 1978-1985	7.7	85
386	Plasmonic organic solar cells employing nanobump assembly via aerosol-derived nanoparticles. *ACS Nano*, **2014**, 8, 2590-601	16.7	79
385	Characterization of quantum dot/conducting polymer hybrid films and their application to light-emitting diodes. *Advanced Materials*, **2009**, 21, 5022-5026	24	79
384	Aligned networks of cadmium sulfide nanowires for highly flexible photodetectors with improved photoconductive responses. *Journal of Materials Chemistry*, **2012**, 22, 2173-2179		77
383	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	3.4	76
382	Design Principle for Bright, Robust, and Color-Pure InP/ZnSexS1□/ZnS Heterostructures. *Chemistry of Materials*, **2019**, 31, 3476-3484	9.6	74
381	Improvement of electron injection in inverted bottom-emission blue phosphorescent organic light emitting diodes using zinc oxide nanoparticles. *Applied Physics Letters*, **2010**, 96, 153306	3.4	73
380	Unraveling the Origin of Operational Instability of Quantum Dot Based Light-Emitting Diodes. *ACS Nano*, **2018**, 12, 10231-10239	16.7	68
379	An Ultrastretchable and Self-Healable Nanocomposite Conductor Enabled by Autonomously Percolative Electrical Pathways. *ACS Nano*, **2019**, 13, 6531-6539	16.7	66
378	Single Chain White-Light-Emitting Polyfluorene Copolymers Containing Iridium Complex Coordinated on the Main Chain. *Macromolecules*, **2010**, 43, 1379-1386	5.5	60
377	Multifunctional Dendrimer Ligands for High-Efficiency, Solution-Processed Quantum Dot Light-Emitting Diodes. *ACS Nano*, **2017**, 11, 684-692	16.7	59
376	Effects of Li doping on the performance and environmental stability of solution processed ZnO thin film transistors. *Applied Physics Letters*, **2009**, 95, 193503	3.4	59
375	Deep blue light-emitting diodes based on Cd1-xZnx S @ ZnS quantum dots. *Nanotechnology*, **2009**, 20, 075202	3.4	57
374	Efficient white organic light emission by single emitting layer. *Thin Solid Films*, **2003**, 426, 246-249	2.2	54
373	Improved efficiency of inverted organic light-emitting diodes using tin dioxide nanoparticles as an electron injection layer. *ACS Applied Materials & Interfaces*, **2013**, 5, 1977-81	9.5	52

372	One-step solvothermal synthesis of carnation flower-like SnS 2 as superior electrodes for supercapacitor applications. *Applied Surface Science*, **2017**, 425, 923-931	6.7	50
371	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	3	50
370	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	6.3	45
369	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	21.8	45
368	Direct Evidence of Ion-Migration-Induced Degradation of Ultrabright Perovskite Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 11667-11673	9.5	44
367	Comparison of trapped charges and hysteresis behavior in hBN encapsulated single MoS flake based field effect transistors on SiO and hBN substrates. *Nanotechnology*, **2018**, 29, 335202	3.4	44
366	Structure-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	9.5	43
365	Towards the commercialization of colloidal quantum dot solar cells: perspectives on device structures and manufacturing. *Energy and Environmental Science*, **2020**, 13, 404-431	35.4	43
364	High-resolution patterning of colloidal quantum dots via non-destructive, light-driven ligand crosslinking. *Nature Communications*, **2020**, 11, 2874	17.4	42
363	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	7.1	42
362	Solution-processed single-walled carbon nanotube field effect transistors and bootstrapped inverters for disintegratable, transient electronics. *Applied Physics Letters*, **2014**, 105, 013506	3.4	42
361	Carrier conduction mechanism for phosphorescent material doped organic semiconductor. *Journal of Applied Physics*, **2009**, 105, 033709	2.5	42
360	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	4.4	41
359	Graphene–nanowire hybrid structures for high-performance photoconductive devices. *Journal of Materials Chemistry*, **2012**, 22, 8372		40
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357	Effect of main ligands on organic photovoltaic performance of Ir(III) complexes. *New Journal of Chemistry*, **2011**, 35, 2557	3.6	40
356	Electrical and rheological properties of polycarbonate/multiwalled carbon nanotube nanocomposites. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 313-314, 242-245	5.1	40
355	Transparent electrode with ZnO nanoparticles in tandem organic solar cells. *Solar Energy Materials and Solar Cells*, **2011**, 95, 365-368	6.4	39

354	1 GHz Pentacene Diode Rectifiers Enabled by Controlled Film Deposition on SAM-Treated Au Anodes. *Advanced Electronic Materials*, **2016**, 2, 1500282	6.4	39
353	Analysis of Ion-Diffusion-Induced Interface Degradation in Inverted Perovskite Solar Cells via Restoration of the Ag Electrode. *Advanced Energy Materials*, **2018**, 8, 1702197	21.8	38
352	Microwave purification of large-area horizontally aligned arrays of single-walled carbon nanotubes. *Nature Communications*, **2014**, 5, 5332	17.4	37
351	Toward high-resolution, inkjet-printed, quantum dot light-emitting diodes for next-generation displays. *Journal of the Society for Information Display*, **2016**, 24, 545-551	2.1	37
350	New carbazole-based host material for low-voltage and highly efficient red phosphorescent organic light-emitting diodes. *Journal of Materials Chemistry*, **2012**, 22, 6351		36
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347	Synthesis of garland like ZnO nanorods and their application in dye sensitized solar cells. *Materials Letters*, **2013**, 92, 104-107	3.3	35
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344	Grain size effects on contact resistance of top-contact pentacene TFTs. *Synthetic Metals*, **2006**, 156, 196-201	3.6	34
343	Reduced efficiency roll-off in light-emitting diodes enabled by quantum dot–conducting polymer nanohybrids. *Journal of Materials Chemistry C*, **2014**, 2, 4974-4979	7.1	33
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341	Thin Film Receiver Materials for Deterministic Assembly by Transfer Printing. *Chemistry of Materials* , **2014**, 26, 3502-3507	9.6	32
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338	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, 173301	3.4	31
337	Pyrene end-capped oligothiophene derivatives for organic thin-film transistors and organic solar cells. *New Journal of Chemistry*, **2012**, 36, 1813	3.6	31

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335	Deterministic assembly of releasable single crystal silicon-metal oxide field-effect devices formed from bulk wafers. *Applied Physics Letters*, **2013**, 102, 182104	3.4	29
334	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	7.1	29
333	Acetylene-bridged D□A□D type small molecule comprising pyrene and diketopyrrolopyrrole for high efficiency organic solar cells. *Organic Electronics*, **2013**, 14, 2341-2347	3.5	29
332	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	29
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329	Contact Resistance of Inkjet-Printed Silver Source□Drain Electrodes in Bottom-Contact OTFTs. *Journal of Display Technology*, **2012**, 8, 48-53		27
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322	Ligand-Asymmetric Janus Quantum Dots for Efficient Blue-Quantum Dot Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 22453-22459	9.5	25
321	Highly Efficient and Bright Inverted Top-Emitting InP Quantum Dot Light-Emitting Diodes Introducing a Hole-Suppressing Interlayer. *Small*, **2019**, 15, e1905162	11	25
320	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	3.5	25
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307	Full-swing pentacene organic inverter with enhancement-mode driver and depletion-mode load. *Solid-State Electronics*, **2006**, 50, 1216-1218	1.7	23
306	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	4.9	22
305	Soft contact transplanted nanocrystal quantum dots for light-emitting diodes: effect of surface energy on device performance. *ACS Applied Materials & Interfaces*, **2015**, 7, 10828-33	9.5	22
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302	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	4.9	21
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283	Highly efficient yellow and white phosphorescent organic light-emitting diodes using a benzothiazole-liganded new iridium complex. *Synthetic Metals*, **2012**, 162, 1421-1428	3.6	18

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263	High-density quantum dots composites and its photolithographic patterning applications. *Polymers for Advanced Technologies*, **2019**, 30, 749-754	3.2	14
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260	Rosa centifolia sensitized ZnO nanorods for photoelectrochemical solar cell applications. *Solar Energy*, **2014**, 106, 143-150	6.8	14
259	Study of the Cesium Carbonate (Cs2CO3) Inter Layer Fabricated by Solution Process on P3HT:PCBM Solar Cells. *Molecular Crystals and Liquid Crystals*, **2011**, 538, 20-27	0.5	14
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254	Emergent Anisotropic Non-Fermi Liquid at a Topological Phase Transition in Three Dimensions. *Physical Review Letters*, **2019**, 122, 187601	7.4	13
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252	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, 11424-35	3.3	13
251	Universal Elaboration of Al-Doped TiO2 as an Electron Extraction Layer in Inorganic□Organic Hybrid Perovskite and Organic Solar Cells. *Advanced Materials Interfaces*, **2020**, 7, 1902003	4.6	13
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