Changhee Lee

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Mitigation on self-discharge behaviors via morphological control of hierarchical Ni-sulfides/Ni-oxides electrodes for long-life-supercapacitors. *Journal of Materials Science and Technology*, **2022**, 113, 217-228	9.1	3
406	Hierarchical formation of Ni sulfide single walled carbon nanotubes heterostructure on tin-sulfide scaffolds via mediated SILAR process: Application towards long cycle-life solid-state supercapacitors. *Ceramics International*, **2022**, 48, 16656-16656	5.1	1
405	Physically Detachable and Operationally Stable Cs SnI Photodetector Arrays Integrated with LEDs for Broadband Flexible Optical System.. *Advanced Materials*, **2022**, e2109673	24	2
404	Discrimination of Degradation Mechanisms for Organic Light-Emitting Diodes by In Situ, Layer-Specific Spectroscopic Analysis. *ACS Photonics*, **2022**, 9, 82-89	6.3	0
403	Thickness dependent resistive switching behaviors in Ta2O5 layer at low temperature: Towards flexible, invisible, cryo-electronic applications in aerospace. *Materials Letters*, **2022**, 319, 132272	3.3	
402	All inkjet-printed 6.95? 217 ppi active matrix QD-LED display with RGB Cd-free QDs in the top-emission device structure. *Journal of the Society for Information Display*, **2022**, 30, 433-440	2.1	1
401	A transient, closed-loop network of wireless, body-integrated devices for autonomous electrotherapy. *Science*, **2022**, 376, 1006-1012	33.3	17
400	Nanosilver-Particles Integrated Ni Sn S -CoS Composite as an Advanced Electrode for High Energy Density Hybrid Cell.. *Small Methods*, **2021**, 5, e2100907	12.8	2
399	Interface polarization in heterovalent core-shell nanocrystals. *Nature Materials*, **2021**,	27	11
398	Enhanced Performance of Pixelated Quantum Dot Light-Emitting Diodes by Inkjet Printing of Quantum Dot Polymer Composites. *Advanced Optical Materials*, **2021**, 9, 2002129	8.1	12
397	Evolution of hierarchically formed petal-like 3 dimensional layer structures for SnS2 via ratio control of Sn/thiourea and their electrochemical charge storage behavior. *Ceramics International*, **2021**,	5.1	2
396	Self-discharge and voltage-holding in symmetric supercapacitors for energy storage based on branch-like MoS2 nanomaterial electrodes. *Ceramics International*, **2021**, 47, 11231-11239	5.1	5
395	Reversible and controllable threshold voltage modulation for n-channel MoS2 and p-channel MoTe2 field-effect transistors via multiple counter doping with ODTS/poly-L-lysine charge enhancers. *Nano Research*, **2021**, 14, 3214-3227	10	3
394	Scalable and selective N-type conversion for carbon nanotube transistors via patternable polyvinyl alcohol stacked with hydrophobic layers and their application to complementary logic circuits. *Journal of Materials Research and Technology*, **2021**, 12, 243-256	5.5	1
393	65-2: Red Electroluminescence Quantum Dot Devices (EL-QD) with Improved Efficiency and Lifetime. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 949-952	0.5	
392	Flexible Light-to-Frequency Conversion Circuits Built with Si-Based Frequency-to-Digital Converters via Complementary Photosensitive Ring Oscillators with p-Type SWNT and n-Type a-IGZO Thin Film Transistors. *Small*, **2021**, 17, e2008131	11	3
391	Enhancement of Photodetective Properties on Multilayered MoS Thin Film Transistors via Self-Assembled Poly-L-Lysine Treatment and Their Potential Application in Optical Sensors. *Nanomaterials*, **2021**, 11,	5.4	1

390	Cu2FeSnS4 decorated Ni-TiO2 nanorods heterostructured photoanode for enhancing water splitting performance. *Applied Surface Science*, **2021**, 551, 149377	6.7	3
389	Progress in light-to-frequency conversion circuits based on low dimensional semiconductors. *Nano Research*, **2021**, 14, 2938-2964	10	1
388	Polarized Electroluminescence Emission in High-Performance Quantum Rod Light-Emitting Diodes via the Langmuir-Blodgett Technique. *Small*, **2021**, 17, e2101204	11	4
387	Flexible Photodetectors: Flexible Light-to-Frequency Conversion Circuits Built with Si-Based Frequency-to-Digital Converters via Complementary Photosensitive Ring Oscillators with p-Type SWNT and n-Type a-IGZO Thin Film Transistors (Small 26/2021). *Small*, **2021**, 17, 2170134	11	
386	Highly Efficient, Surface Ligand Modified Quantum Dot Light-Emitting Diodes Driven by Type-Controllable MoTe2 Thin Film Transistors via Electron Charge Enhancer. *Advanced Electronic Materials*, **2021**, 7, 2100535	6.4	4
385	Recent advances and challenges in solar photovoltaic and energy storage materials: future directions in Indian perspective. *JPhys Energy*, **2021**, 3, 034018	4.9	0
384	Temperature-Time profile effects on evolution of physical and electronic properties in visible light Cu2CoSnS4 photodetectors. *Materials Science in Semiconductor Processing*, **2021**, 121, 105443	4.3	6
383	Effect of Alkyl Chain Lengths of Highly Crystalline Nonfullerene Acceptors on Open-Circuit Voltage of All-Small-Molecule Organic Solar Cells. *ACS Applied Energy Materials*, **2021**, 4, 259-267	6.1	2
382	. *IEEE Access*, **2021**, 9, 73090-73102	3.5	2
381	Analysis of the improved thermal stability of Al-doped ZnO-adopted organic solar cells. *Applied Physics Letters*, **2021**, 118, 023302	3.4	3
380	Study on the Enhanced Shelf Lifetime of CYTOP-Encapsulated Organic Solar Cells. *Energies*, **2021**, 14, 3993	3.1	3
379	Effect of Solvent on the Interfacial Crystallinity in Sequentially Processed Organic Solar Cells. *Advanced Materials Interfaces*, **2021**, 8, 2100029	4.6	1
378	Polarized Electroluminescence Emission in High-Performance Quantum Rod Light-Emitting Diodes via the Langmuir-Blodgett Technique (Small 32/2021). *Small*, **2021**, 17, 2170165	11	
377	Photovoltaic characterizing method of degradation of polymer light-emitting diodes based on ideality factor and density of states. *Applied Physics Letters*, **2021**, 119, 123301	3.4	
376	Photo-Detectivity Modulation in Complementary Light-to-Frequency Conversion Circuits via Oxygen Vacancy Controlled Amorphous Indium□Gallium□Zinc Oxide Films. *IEEE Electron Device Letters*, **2021**, 42, 1315-1318	4.4	0
375	Hierarchically-formed nickel sulfide heterostructure via SILAR on hydrothermally grown cobalt oxide scaffolds: Role of number of over-coating and evolution of electrochemical performance in supercapacitor electrodes. *Applied Surface Science*, **2021**, 564, 150436	6.7	2
374	Synthesis process dependent physico-chemical and opto-electronic properties of Cu2FeSnS4 nanoparticle films. *Ceramics International*, **2021**, 47, 27898-27907	5.1	
373	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	3.5	

372	Thickness dependent photodetection properties of solution-processed CuI films: Towards cost-effective flexible visible photodetectors. *Materials Letters*, **2021**, 305, 130815	3.3	1
371	Solution-processed CuI films towards flexible visible-photodetectors: Role of annealing temperature on Cu/I ratio and photodetective properties. *Journal of Alloys and Compounds*, **2021**, 887, 161326	5.7	2
370	Bias stress instability in multilayered MoTe2 field effect transistors under DC and pulse-mode operation. *Electronics Letters*, **2021**, 57, 193-195	1.1	1
369	Study on graphene oxide as a hole extraction layer for stable organic solar cells.. *RSC Advances*, **2021**, 11, 27199-27206	3.7	1
368	Directly grown two dimensional InS nanoflakes via one-step solvothermal method: Material properties on InS and performance data for supercapacitors. *Data in Brief*, **2020**, 32, 106272	1.2	1
367	72-2: Highly Efficient Cadmium-Free Quantum Dot Light-Emitting Diodes Employing Top-Emitting Architecture. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 1075-1077	0.5	2
366	Perovskite Solar Cells: Universal Elaboration of Al-Doped TiO2 as an Electron Extraction Layer in Inorganic□Organic Hybrid Perovskite and Organic Solar Cells (Adv. Mater. Interfaces 10/2020). *Advanced Materials Interfaces*, **2020**, 7, 2070057	4.6	
365	Influence of air atmosphere on electrical characteristics of p-type MoTe2 FETs under DC and pulsed mode operation. *Microelectronics Reliability*, **2020**, 111, 113680	1.2	2
364	Self-assembled nis-sns heterostructure via facile successive adsorption and reaction method for high-performance solid-state asymmetric supercapacitors. *Thin Solid Films*, **2020**, 709, 138138	2.2	7
363	High-resolution patterning of colloidal quantum dots via non-destructive, light-driven ligand crosslinking. *Nature Communications*, **2020**, 11, 2874	17.4	42
362	Bias Stress Instability in Multilayered MoS2 Field-Effect Transistors Under Pulse-Mode Operation. *IEEE Transactions on Electron Devices*, **2020**, 67, 1864-1872	2.9	8
361	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
360	Colloidal quantum dot light-emitting diodes employing solution-processable tin dioxide nanoparticles in an electron transport layer.. *RSC Advances*, **2020**, 10, 8261-8265	3.7	9
359	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	3.8	4
358	Surface Engineered Colloidal Quantum Dots for Complete Green Process. *ACS Applied Materials & Interfaces*, **2020**, 12, 10563-10570	9.5	5
357	Degradation of electrical characteristics in low-bandgap polymer solar cells associated with light-induced aging. *Organic Electronics*, **2020**, 81, 105686	3.5	3
356	Improving Performance of Inverted Blue Quantum-Dot Light-Emitting Diodes by Adopting Organic/Inorganic Double Electron Transport Layers. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 1900737	2.5	5
355	Cation-Exchange-Derived InGaP Alloy Quantum Dots toward Blue Emissivity. *Chemistry of Materials*, **2020**, 32, 3537-3544	9.6	24

354	Impact of CsI concentration, relative humidity, and annealing temperature on lead-free Cs2SnI6 perovskites: Toward visible light photodetectors application. *Materials Letters*, **2020**, 269, 127675	3.3	9
353	Solution-processed Ga-TiO2 electron transport layer for efficient inverted organic solar cells. *Materials Letters*, **2020**, 274, 128003	3.3	3
352	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	5.7	13
351	Improved electrical performance and transparency of bottom-gate, bottom-contact single-walled carbon nanotube transistors using graphene source/drain electrodes. *Journal of Industrial and Engineering Chemistry*, **2020**, 81, 488-495	6.3	5
350	Hydrophobic Polymer Encapsulation Effects on Subgap Density of States in Multilayered Molybdenum Disulfide Field-Effect Transistors. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 1900492	2.5	3
349	Two dimensional, bi-layered SnS2@Co3S4 heterostructure formation via SILAR method: Toward high performance supercapacitors with superior electrodes. *Materials Letters*, **2020**, 262, 127173	3.3	9
348	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
347	Physical and electrical properties of CuCoSnS nanoparticles synthesized by hydrothermal growth at different reaction time and copper concentration. *Data in Brief*, **2020**, 32, 106103	1.2	0
346	Environmentally friendly quantum-dot color filters for ultra-high-definition liquid crystal displays. *Scientific Reports*, **2020**, 10, 15817	4.9	8
345	Photosensitive Complementary Inverters Composed of n-Channel ReS2 and p-Channel Single-Walled Carbon Nanotube Field-Effect Transistors. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 2000420	2.5	5
344	Photo-cleavable perfluoroalkylated copolymers for tailoring quantum dot thin films. *Polymer Chemistry*, **2020**, 11, 6624-6631	4.9	1
343	Two dimensional, sponge-like In2S3 nanoflakes aligned on nickel foam via one-pot solvothermal growth and their application toward high performance supercapacitors. *Materials Letters*, **2020**, 279, 128467	3.3	5
342	Cu/(Co+Sn) ratio effects on physical and photodetective properties for visible light absorbing Cu2CoSnS4 nanoparticles via a one-pot hydrothermal process. *Journal of Alloys and Compounds*, **2020**, 847, 156174	5.7	7
341	Germinant ZnO nanorods as a charge-selective layer in organic solar cells. *Journal of Materials Science and Technology*, **2020**, 55, 89-94	9.1	5
340	Origin of Off-State Current in Multilayered MoTe2 Field-Effect Transistors: Gate-Induced Drain Leakage and Poole–Frenkel Conduction. *Physica Status Solidi - Rapid Research Letters*, **2020**, 14, 2000158	2.5	
339	Haptic Soft-Keyboard for Tablet-Sized Touchscreens. *Applied Sciences (Switzerland)*, **2019**, 9, 3080	2.6	1
338	High-density quantum dots composites and its photolithographic patterning applications. *Polymers for Advanced Technologies*, **2019**, 30, 749-754	3.2	14
337	Influence of Electrical Traps on the Current Density Degradation of Inverted Perovskite Solar Cells. *Materials*, **2019**, 12,	3.5	12

336	Sulphur precursor dependent crystallinity and optical properties of solution grown Cu2FeSnS4 particles. *Materials Research Express*, **2019**, 6, 085099	1.7	7
335	Low-Frequency Noise Characteristics in Multi-Layer WSe Field Effect Transistors with Different Contact Metals. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 6422-6428	1.3	2
334	Optical and electrical effects of nanobump structure combined with an undulated active layer on plasmonic organic solar cells. *Organic Electronics*, **2019**, 71, 136-142	3.5	3
333	Emergent Anisotropic Non-Fermi Liquid at a Topological Phase Transition in Three Dimensions. *Physical Review Letters*, **2019**, 122, 187601	7.4	13
332	An Ultrastretchable and Self-Healable Nanocomposite Conductor Enabled by Autonomously Percolative Electrical Pathways. *ACS Nano*, **2019**, 13, 6531-6539	16.7	66
331	Environmentally benign nanocrystals: challenges and future directions. *Journal of Information Display*, **2019**, 20, 61-72	4.1	13
330	Degradation mechanism of blue thermally activated delayed fluorescent organic light-emitting diodes under electrical stress. *Organic Electronics*, **2019**, 70, 286-291	3.5	17
329	Direct Evidence of Ion-Migration-Induced Degradation of Ultrabright Perovskite Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 11667-11673	9.5	44
328	Highly crystalline, large grain Cu2CoSnS4 films with reproducible stoichiometry via direct solution spin coating for optoelectronic device application. *Ceramics International*, **2019**, 45, 12399-12405	5.1	7
327	Design Principle for Bright, Robust, and Color-Pure InP/ZnSexS1 /ZnS Heterostructures. *Chemistry of Materials*, **2019**, 31, 3476-3484	9.6	74
326	Highly Stable Organic Transistors on Paper Enabled by a Simple and Universal Surface Planarization Method. *Advanced Materials Interfaces*, **2019**, 6, 1801731	4.6	5
325	Field-Effect Transistors: Threshold Voltage Control of Multilayered MoS2 Field-Effect Transistors via Octadecyltrichlorosilane and their Applications to Active Matrixed Quantum Dot Displays Driven by Enhancement-Mode Logic Gates (Small 7/2019). *Small*, **2019**, 15, 1970037	11	
324	Bias Temperature Stress Instability of Multilayered MoS2 Field-Effect Transistors With CYTOP Passivation. *IEEE Transactions on Electron Devices*, **2019**, 66, 2208-2213	2.9	9
323	Photosensitive Complementary Inverters Based on n-Channel MoS2 and p-Channel MoTe2 Transistors for Light-to-Frequency Conversion Circuits. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1900317	2.5	11
322	Role of monoethanolamine concentration for physical properties of Cu2CoSnS4 nanoparticles via one-pot hydrothermal synthesis: Toward low temperature, high performance nanocrystalline CCTS photodetectors by hybrid UV-vacuum annealing. *Materials Letters*, **2019**, 254, 9-12	3.3	9
321	Investigation of Improved Performance for Organic Rectifying Diodes via Electrical Annealing. *IEEE Access*, **2019**, 7, 84082-84090	3.5	1
320	"Positive Incentive" Approach To Enhance the Operational Stability of Quantum Dot-Based Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2019**, 11, 40252-40259	9.5	12
319	Highly Efficient and Bright Inverted Top-Emitting InP Quantum Dot Light-Emitting Diodes Introducing a Hole-Suppressing Interlayer. *Small*, **2019**, 15, e1905162	11	25

318	Simulation for forming uniform inkjet-printed quantum dot layer. *Journal of Applied Physics*, **2019**, 125, 065304	2.5	5
317	Photosensitive Complementary Inverters Based on n-Channel MoS2 and p-Channel MoTe2 Transistors for Light-to-Frequency Conversion Circuits. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1970042	2.5	1
316	Low-Frequency Noise Characteristics in Multilayer MoTe2 FETs With Hydrophobic Amorphous Fluoropolymers. *IEEE Electron Device Letters*, **2019**, 40, 251-254	4.4	11
315	CdSe tetrapod interfacial layer for improving electron extraction in planar heterojunction perovskite solar cells. *Nanotechnology*, **2019**, 30, 065401	3.4	4
314	Threshold Voltage Control of Multilayered MoS Field-Effect Transistors via Octadecyltrichlorosilane and their Applications to Active Matrixed Quantum Dot Displays Driven by Enhancement-Mode Logic Gates. *Small*, **2019**, 15, e1803852	11	14
313	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	2.6	16
312	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	5.7	12
311	Binder-free, scalable hierarchical MoS2 as electrode materials in symmetric supercapacitors for energy harvesting applications. *Materials Letters*, **2019**, 236, 167-170	3.3	25
310	Phase Transitions of the Polariton Condensate in 2D Dirac Materials. *Physical Review Letters*, **2018**, 120, 157601	7.4	3
309	Novel two-dimensional In2O3 nanodiscs for high-rate performance of solid-state symmetric supercapacitors. *Materials Letters*, **2018**, 218, 131-134	3.3	10
308	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
307	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
306	Petal-like MoS 2 nanostructures with metallic 1□T phase for high performance supercapacitors. *Current Applied Physics*, **2018**, 18, 345-352	2.6	15
305	Highly efficient solution-processed inverted polymer light emitting diodes with uniformly coated poly(3,4-ethylenedioxythiophene):poly(styrene-sulfonate) layers on a hydrophobic emission layer using a dilution method. *Thin Solid Films*, **2018**, 660, 782-788	2.2	3
304	Enhanced light out-coupling in OLED employing thermal-assisted, self-aggregated silver nano particles. *Organic Electronics*, **2018**, 52, 230-236	3.5	23
303	Multi-layer WSe 2 field effect transistor with improved carrier-injection contact by using oxygen plasma treatment. *Solid-State Electronics*, **2018**, 140, 2-7	1.7	25
302	Tunable Electron and Hole Injection Enabled by Atomically Thin Tunneling Layer for Improved Contact Resistance and Dual Channel Transport in MoS/WSe van der Waals Heterostructure. *ACS Applied Materials & Interfaces*, **2018**, 10, 23961-23967	9.5	7
301	Simultaneous Enhancement of Electrical Conductivity and Seebeck Coefficient of [6,6]-Phenyl-C71 Butyric Acid Methyl Ester (PC70BM) by Adding Co-Solvents. *Crystals*, **2018**, 8, 237	2.3	3

300	A new strategy for integrating semiconducting SWCNTs into pseudo-cubic In2O3 heterostructures for solid-state symmetric supercapacitors with a superior stability and specific-capacitance. *Journal of Materials Chemistry A*, **2018**, 6, 15253-15264	13	10
299	Enhanced Lifetime and Efficiency of Red Quantum Dot Light-Emitting Diodes with Y-Doped ZnO Sol–Gel Electron-Transport Layers by Reducing Excess Electron Injection. *Advanced Quantum Technologies*, **2018**, 1, 1700006	4.3	25
298	Ligand-Asymmetric Janus Quantum Dots for Efficient Blue-Quantum Dot Light-Emitting Diodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 22453-22459	9.5	25
297	Significance of Polymeric Nanowire-Network Structures for Stable and Efficient Organic Solar Cells. *Macromolecular Research*, **2018**, 26, 623-629	1.9	8
296	Light-Shield Layers Free Photosensitive Inverters Comprising GaN-Drivers and Multi-Layered MoS2-Loads. *IEEE Electron Device Letters*, **2018**, 1-1	4.4	2
295	Perovskite photovoltaic cells with ultra-thin buffer layers for tandem applications. *Japanese Journal of Applied Physics*, **2018**, 57, 102303	1.4	2
294	Unraveling the Origin of Operational Instability of Quantum Dot Based Light-Emitting Diodes. *ACS Nano*, **2018**, 12, 10231-10239	16.7	68
293	Spray-coated single walled carbon nanotubes as source and drain electrodes in SnO thin-film transistors. *Semiconductor Science and Technology*, **2018**, 33, 075013	1.8	0
292	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
291	A circuit mechanism of time-to-space conversion for perception. *Hearing Research*, **2018**, 366, 32-37	3.9	2
290	Low-temperature solution-processed zinc oxide field effect transistor by blending zinc hydroxide and zinc oxide nanoparticle in aqueous solutions. *Japanese Journal of Applied Physics*, **2018**, 57, 05GD04	1.4	4
289	P-111: Black Photoresist Bank for Inkjet-Printed Quantum Dot Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1629-1631	0.5	2
288	P-115: Effect of Solvents and Pressure on the Performance of Quantum Dot light Emitting Diodes Fabricated with Soft-Contact Transfer Printing. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1643-1646	0.5	2
287	P-184: The Effect of Exciplex-Type Co-Host Emitting Layer Structure in the Lifetime of Organic Light-Emitting Diodes. *Digest of Technical Papers SID International Symposium*, **2018**, 49, 1850-1852	0.5	
286	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, 024502	2.5	17
285	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
284	Crystallinity dependent thermal degradation in organic solar cell. *Applied Physics Letters*, **2017**, 110, 053301	3.4	7
283	High-Density Reconfigurable Devices With Programmable Bottom-Gate Array. *IEEE Electron Device Letters*, **2017**, 38, 564-567	4.4	8

282	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
281	Simultaneous Detection of Dopamine and Uric Acid on Indium Tin Oxides Modified with Cost-effective Gas-phase Synthesized Single Walled Carbon Nanotubes. *Electroanalysis*, **2017**, 29, 1925-1933	3	6
280	13-1: Invited Paper: White Quantum Dot Light-Emitting Diodes With Improved Efficiency and Color Stability. *Digest of Technical Papers SID International Symposium*, **2017**, 48, 153-156	0.5	3
279	P-32: Light Shielding Layers Enabled Full Swing Multi-Layer MoS2 Inverters For the Application of Photodetectors. *Digest of Technical Papers SID International Symposium*, **2017**, 48, 1346-1349	0.5	
278	Multifunctional Organic-Semiconductor Interfacial Layers for Solution-Processed Oxide-Semiconductor Thin-Film Transistor. *Advanced Materials*, **2017**, 29, 1607055	24	35
277	Highly soluble fluorous alkyl ether-tagged imaging materials for the photo-patterning of organic light-emitting devices. *Journal of Materials Chemistry C*, **2017**, 5, 926-930	7.1	6
276	Photosensitive Full-Swing Multi-Layer MoS2 Inverters With Light Shielding Layers. *IEEE Electron Device Letters*, **2017**, 38, 67-70	4.4	15
275	Multifunctional Dendrimer Ligands for High-Efficiency, Solution-Processed Quantum Dot Light-Emitting Diodes. *ACS Nano*, **2017**, 11, 684-692	16.7	59
274	Analysis of Photovoltaic Properties of a Perovskite Solar Cell: Impact of Recombination, Space Charge, Exciton, and Disorder. *IEEE Journal of Photovoltaics*, **2017**, 7, 1681-1686	3.7	6
273	Non-interlayer hybrid white organic light-emitting diodes via a bipolar mixed host for the blue-fluorescent-emitting layer. *Journal of Information Display*, **2017**, 18, 153-157	4.1	5
272	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
271	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
270	Hole Injection in N-Type Organic Semiconductors by Tuning Metal Work Function with Functional Self-Assembled Monolayers. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 3378-3381	1.3	2
269	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	6.7	12
268	Analysis of Interfacial Layer-Induced Open-Circuit Voltage Burn-In Loss in Polymer Solar Cells on the Basis of Electroluminescence and Impedance Spectroscopy. *ACS Applied Materials & Interfaces*, **2017**, 9, 24052-24060	9.5	9
267	Ternary bulk heterojunction for wide spectral range organic photodetectors. *Journal of the Korean Physical Society*, **2017**, 71, 196-202	0.6	10
266	High-frequency organic rectifiers through interface engineering. *MRS Communications*, **2017**, 7, 755-769	2.7	9
265	Light out-coupling efficiency enhancement in organic light-emitting diodes using a multilayer stacked electrode with sol-gel processed TaO. *Optics Express*, **2017**, 25, 27886-27895	3.3	4

264	Solvent-Dependent Thermoelectric Properties of PTB7 and Effect of 1,8-Diiodooctane Additive. *Crystals*, **2017**, 7, 292	2.3	9
263	Electron Clouding Effect for Improvement of Electron Injection in a Solution-Processed Organic Diode with Dipolar Self-Assembled Monolayers. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 7275-7279	1.3	
262	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
261	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	0.6	14
260	Influence of External Pressure on the Performance of Quantum Dot Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 23947-52	9.5	3
259	Polymer Interfacial Layer with High Glass Transition Temperature for the Improvement of Bias Stability in Organic Field-Effect Transistors. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 10325-10330	1.3	2
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