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Printed assemblies of inorganic light-emitting diodes for deformable and semitransparent displays

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#	Paper	IF	Citations
693	Two-Dimensional Active Tuning of an Aluminum Plasmonic Array for Full-Spectrum Response.		
692	Mechanics of hemispherical electronics. 2009 , 95, 181912		18
691	Electrically interconnected assemblies of microscale device components by printing and molding. 2009 , 95, 214101		7
690	P-82: Highly Transparent ac Plasma Display. <i>Digest of Technical Papers SID International Symposium</i> , 2010 , 41, 1555	0.5	
689	A strain-isolation design for stretchable electronics. 2010 , 26, 881-888		25
688	Stretchable, curvilinear electronics based on inorganic materials. 2010 , 22, 2108-24		437
687	Stretchable, large-area organic electronics. 2010 , 22, 2228-46		626
686	High-density stretchable electronics: toward an integrated multilayer composite. 2010 , 22, 4030-3		44
685	Light emission characteristics and mechanics of foldable inorganic light-emitting diodes. 2010 , 22, 3062	-6	89
684	Three-dimensional printing of interconnects by laser direct-write of silver nanopastes. 2010 , 22, 4462-6		118
683	Principles and applications of micro and nanoscale wrinkles. <i>Materials Science and Engineering Reports</i> , 2010 , 70, 209-224	30.9	116
682	An effective lift-off method for patterning high-density gold interconnects on an elastomeric substrate. 2010 , 6, 2847-52		37
681	Mechanics analysis of two-dimensionally prestrained elastomeric thin film for stretchable electronics. 2010 , 23, 592-599		11
680	Development of efficient and durable sources of white light. 2010 , 126, 1-10		15
679	Electronics: A diverse printed future. <i>Nature</i> , 2010 , 468, 177-8	50.4	40
678	Neuroscience: the split view of motion. <i>Nature</i> , 2010 , 468, 178-9	50.4	3
677	Nanowire active-matrix circuitry for low-voltage macroscale artificial skin. 2010 , 9, 821-6		1013

(2011-2010)

676	and robotics. 2010 , 9, 929-37	474
675	Large-area InP-based crystalline nanomembrane flexible photodetectors. 2010 , 96, 121107	52
674	Facile Fabrication of Honeycomb-Patterned Thin Films of Amorphous Calcium Carbonate and Mosaic Calcite. 2010 , 22, 3206-3211	48
673	Piezoelectric BaTiOlthin film nanogenerator on plastic substrates. <i>Nano Letters</i> , 2010 , 10, 4939-43	597
672	Room temperature light emission from the low-dimensional semiconductors AZrPS6 (A = K, Rb, Cs). 2010 , 132, 5348-50	32
671	Introduction. 2010 , 18, 717	2
670	Materials and mechanics for stretchable electronics. <i>Science</i> , 2010 , 327, 1603-7	3464
669	Vertical pillar-superlattice array and graphene hybrid light emitting diodes. <i>Nano Letters</i> , 2010 , 10, 2783- & .5	126
668	Heterogeneous Integration of Compound Semiconductors. 2010 , 40, 469-500	98
667	\$hbox{PbZr}_{x}hbox{Ti}_{1 - x}hbox{O}_{3}\$ Ferroelectric Thin-Film Capacitors for Flexible Nonvolatile Memory Applications. <i>IEEE Electron Device Letters</i> , 2010 , 31, 1017-1019	37
666	Self-Assembly of Gold Nanowires along Carbon Nanotubes for Ultrahigh-Aspect-Ratio Hybrids. 2011 , 23, 2760-2765	17
665	SnO2 nanowire logic devices on deformable nonplanar substrates. <i>ACS Nano</i> , 2011 , 5, 10009-16 16.7	28
664	Flexible energy storage devices based on graphene paper. 2011 , 4, 1277	497
663	Synthesis, assembly and applications of semiconductor nanomembranes. <i>Nature</i> , 2011 , 477, 45-53 50.4	526
662	Stretchable, transparent graphene interconnects for arrays of microscale inorganic light emitting diodes on rubber substrates. <i>Nano Letters</i> , 2011 , 11, 3881-6	281
661	Ab initio nonadiabatic molecular dynamics of the ultrafast electron injection from a PbSe quantum dot into the TiO2 surface. 2011 , 133, 19240-9	114
660	Highly Transparent SU-8 Photoresist Barrier Rib for a Transparent AC Plasma Display Panel. 2011 , 7, 40-43	10
659	Inkjet-Printed Organic Field-Effect Transistor by Using Composite Semiconductor Material of Carbon Nanoparticles and Poly(3-Hexylthiophene). 2011 , 2011, 1-7	6

658	Self-Assembly of Microscale Parts through Magnetic and Capillary Interactions. <i>Micromachines</i> , 2011 , 2, 69-81	3.3	7
657	Light-emitting diodes composed of n-ZnO and p-Si nanowires constructed on plastic substrates by dielectrophoresis. 2011 , 13, 1735-1739		20
656	Enhancement of carrier mobility in all-inkjet-printed organic thin-film transistors using a blend of poly(3-hexylthiophene) and carbon nanoparticles. 2011 , 519, 8008-8012		22
655	Flexible field emission of nitrogen-doped carbon nanotubes/reduced graphene hybrid films. 2011 , 7, 95-100		111
654	Stretchable field-effect-transistor array of suspended SnO[hanowires. 2011 , 7, 1181-5		64
653	Cross-Stacked Superaligned Carbon Nanotube Films for Transparent and Stretchable Conductors. <i>Advanced Functional Materials</i> , 2011 , 21, 2721-2728	15.6	142
652	Water-Based Isotropically Conductive Adhesives: Towards Green and Low-Cost Flexible Electronics. Advanced Functional Materials, 2011 , 21, 4582-4588	15.6	77
651	Stretchable GaAs photovoltaics with designs that enable high areal coverage. 2011 , 23, 986-91		245
650	Stretchable inorganic-semiconductor electronic systems. 2011 , 23, 2933-6		117
649	Silver nanowires: from scalable synthesis to recyclable foldable electronics. 2011 , 23, 3052-6		255
648	Highly flexible, printed alkaline batteries based on mesh-embedded electrodes. 2011 , 23, 3251-5		196
647	Monolithic integration of arrays of single-walled carbon nanotubes and sheets of graphene. 2011 , 23, 3821-6		33
646	Intrinsically stretchable polymer light-emitting devices using carbon nanotube-polymer composite electrodes. 2011 , 23, 3989-94		428
645	Flexible inorganic nanostructure light-emitting diodes fabricated on graphene films. 2011 , 23, 4614-9		186
644	The effects of encapsulation on deformation behavior and failure mechanisms of stretchable interconnects. 2011 , 519, 2225-2234		57
643	Electromechanical stability of buckled thin metal films on elastomer. 2011 , 519, 5511-5515		1
642	Flexible vertical structure GaN-based light emitting diodes on an AuSn substrate. 2011,		1
641	Highly flexible polymer light-emitting devices using carbon nanotubes as both anodes and cathodes. 2011 , 1, 011003		39

640 Microscale, printed LEDs for unusual lighting and display systems. **2011**,

639	Unusual strategies for using indium gallium nitride grown on silicon (111) for solid-state lighting. 2011 , 108, 10072-7		189
638	Transparent lithium-ion batteries. 2011 , 108, 13013-8		208
637	Shear-enhanced adhesiveless transfer printing for use in deterministic materials assembly. 2011 , 98, 264104		106
636	. 2012 , 21, 1049-1058		75
635	Enhanced adhesion with pedestal-shaped elastomeric stamps for transfer printing. 2012 , 100, 171909		47
634	Microscale Inorganic Light-Emitting Diodes on Flexible and Stretchable Substrates. 2012 , 4, 607-612		29
633	Materials for stretchable electronics in bioinspired and biointegrated devices. 2012 , 37, 226-235		166
632	VCSEL bonding to silicon and plastic substrates. 2012 ,		
631	Flexible GaN LED on a polyimide substrate for display applications. 2012,		9
630	Highly stretchable electric circuits from a composite material of silver nanoparticles and elastomeric fibres. <i>Nature Nanotechnology</i> , 2012 , 7, 803-9	28.7	666
629	Mechanics of stretchable electronics with high fill factors. 2012 , 49, 3416-3421		21
628	tuPOY: Epitomizing a New Epoch in Communications With Polymer Textiles. 2012, 100, 3079-3098		2
627	Thermo-mechanical modeling of laser-driven non-contact transfer printing: two-dimensional analysis. 2012 , 8, 7122		46
626	Transfer of GaN LEDs From Sapphire to Flexible Substrates by Laser Lift-Off and Contact Printing. 2012 , 24, 2115-2118		85
625	Waveparticle superposition. 2012 , 6, 579-580		8
624	Substrate-free self-assembly approach toward large-area nanomembranes. ACS Nano, 2012, 6, 2602-9	16.7	35
623	Water-resistant flexible GaN LED on a liquid crystal polymer substrate for implantable biomedical applications. <i>Nano Energy</i> , 2012 , 1, 145-151	17.1	107

622	Transfer printing techniques for materials assembly and micro/nanodevice fabrication. 2012 , 24, 5284-31	8	572
621	Flexible vertical light emitting diodes. 2012 , 8, 3123-8		44
620	The influence of MWNT composite on the stretchability of conductive nanopaste screen-printed on elastomeric substrate. 2012 , 12, S99-S103		10
619	Stretchable Electronic and Optoelectronic Devices Using Single-Crystal Inorganic Semiconductor Materials. 2012 , 235-269		1
618	Stretchable Organic Transistors. 2012 , 271-285		2
617	Rubber stamp for silicon photonics. 2012 , 6, 577-579		11
616	Intrinsically stretchable transparent electrodes based on silver-nanowire-crosslinked-polyacrylate composites. 2012 , 23, 344002		145
615	Chalcogenide glass based integrated photonics. 2012,		1
614	Fast flexible electronics using transferrable silicon nanomembranes. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 143001		61
613	Stretchable semiconductor technologies with high areal coverages and strain-limiting behavior: demonstration in high-efficiency dual-junction GaInP/GaAs photovoltaics. 2012 , 8, 1851-6		86
612	High-efficiency, microscale GaN light-emitting diodes and their thermal properties on unusual substrates. 2012 , 8, 1643-9		156
611	Materials and designs for wirelessly powered implantable light-emitting systems. 2012 , 8, 2812-8		88
610	Fully inorganic oxide-in-oxide ultraviolet nanocrystal light emitting devices. <i>Nature Communications</i> , 2012 , 3, 690	7.4	53
609	Highly Transparent and Conductive Stretchable Conductors Based on Hierarchical Reticulate Single-Walled Carbon Nanotube Architecture. <i>Advanced Functional Materials</i> , 2012 , 22, 5238-5244	5.6	136
608	Active, Programmable Elastomeric Surfaces with Tunable Adhesion for Deterministic Assembly by Transfer Printing. <i>Advanced Functional Materials</i> , 2012 , 22, 4476-4484	5.6	107
607	Giant moisture responsiveness of VS2 ultrathin nanosheets for novel touchless positioning interface. 2012 , 24, 1969-74		324
606	Flexible and stretchable electronics for biointegrated devices. 2012 , 14, 113-28		546
605	An analytical model for shear-enhanced adhesiveless transfer printing. 2012 , 43, 46-49		40

604	Postbuckling analysis and its application to stretchable electronics. 2012 , 60, 487-508		107
603	Breakthroughs in Photonics 2011. 2012 , 4, 561-656		1
602	User-interactive electronic skin for instantaneous pressure visualization. 2013 , 12, 899-904		911
601	High performance flexible sensor based on inorganic nanomaterials. 2013 , 176, 522-533		64
600	Highly stretchable patterned gold electrodes made of Au nanosheets. 2013 , 25, 2707-12		143
599	Fabrication and transfer of flexible few-layers MoS2 thin film transistors to any arbitrary substrate. ACS Nano, 2013 , 7, 8809-15	.7	158
598	Transparent and ultra-bendable all-solid-state supercapacitors without percolation problems. 2013 , 4, 1663		54
597	Fabrication of a stretchable solid-state micro-supercapacitor array. <i>ACS Nano</i> , 2013 , 7, 7975-82	.7	220
596	Reverse Switching Phenomena in Hybrid Organic[horganic Thin Film Composite Material. 2013 , 117, 124-130		10
595	High-performance flexible solid-state supercapacitors based on MnO2-decorated nanocarbon electrodes. 2013 , 3, 20613		32
594	Evaluation of directed self-assembly process for LED assembly on flexible substrates. 2013,		2
593	Chalcogenide glass planar photonics: from mid-IR sensing to 3-D flexible substrate integration. 2013 ,		1
592	Fabrication and application of flexible, multimodal light-emitting devices for wireless optogenetics. 2013 , 8, 2413-2428		142
591	Elastomeric polymer light-emitting devices and displays. 2013 , 7, 817-824		747
590	Nanophotonics for plasma heating. 2013, 7, 771-772		3
589	Light-emitting electronic skin. 2013 , 7, 769-771		78
588	Electrically conducting film of silver sub-micron particles as mechanical and electrical interfaces for transfer printed micro- and nano-pillar devices. 2013 , 111, 251-259		8
587	Separating InGaN membranes from GaN/sapphire templates through a crystallographic-etch-limited process. 2013 , 3, 13446		3

586 Toward microwave integrated circuits on flexible substrates (invited). 2013,

585	Fabrication and assembly of ultrathin high-efficiency silicon solar microcells integrating electrical passivation and anti-reflection coatings. 2013 , 6, 3071		30
584	Wavelength Tuning by Bending a Flexible Photonic Crystal Laser. <i>Journal of Lightwave Technology</i> , 2013 , 31, 1960-1964	4	9
583	Micropatterned stretchable circuit and strain sensor fabricated by lithography on an electrospun nanofiber mat. ACS Applied Materials & amp; Interfaces, 2013, 5, 8766-71	9.5	37
582	Large area flexible lighting foils using distributed bare LED dies on polyester substrates. 2013 , 53, 1907	'-1915	11
581	Ultrathin two-dimensional MnO2/graphene hybrid nanostructures for high-performance, flexible planar supercapacitors. <i>Nano Letters</i> , 2013 , 13, 2151-7	11.5	751
580	Reversible sliding in networks of nanowires. <i>Nano Letters</i> , 2013 , 13, 2381-6	11.5	66
579	Epitaxial GaN microdisk lasers grown on graphene microdots. <i>Nano Letters</i> , 2013 , 13, 2782-5	11.5	68
578	Highly Conductive, Flexible, Polyurethane-Based Adhesives for Flexible and Printed Electronics. <i>Advanced Functional Materials</i> , 2013 , 23, 1459-1465	15.6	112
577	Spontaneous phase transformation and exfoliation of rectangular single-crystal zinc hydroxy dodecylsulfate nanomembranes. <i>ACS Nano</i> , 2013 , 7, 6007-16	16.7	15
576	Nanotransfer molding of free-standing nanowire and porous nanomembranes suspended on microtrenches. <i>ACS Applied Materials & amp; Interfaces</i> , 2013 , 5, 418-24	9.5	3
575	25th anniversary article: The evolution of electronic skin (e-skin): a brief history, design considerations, and recent progress. 2013 , 25, 5997-6038		1622
574	Stretchable copper interconnects with three-dimensional coiled structures. 2013 , 23, 127002		8
573	Actively transparent display with enhanced legibility based on an organic light-emitting diode and a cholesteric liquid crystal blind panel. <i>Optics Express</i> , 2013 , 21, 10358-66	3.3	15
572	Mechanics of Stretchable Electronics. 2013 , 535-536, 25-31		
571	Nanomembranes and Nanofibers from Biodegradable Conducting Polymers. 2013 , 5, 1115-1157		66
570	A Finite-Deformation Mechanics Theory for Kinetically Controlled Transfer Printing. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2013 , 80,	2.7	19
569	Nanoscale-accuracy transfer printing of ultra-thin AlInGaN light-emitting diodes onto mechanically flexible substrates. 2013 , 103, 253302		43

(2014-2013)

	Observation and simulation of microdroplet shapes on surface-energy-patterned substrates: Contact line engineering for printed electronics. 2013 , 114, 044905		10
567	Directionally controlled transfer printing using micropatterned stamps. 2013 , 103, 151607		15
566	Flexible surface acoustic wave resonators built on disposable plastic film for electronics and lab-on-a-chip applications. 2013 , 3, 2140		94
565	Sticker-type Alq(3)-based OLEDs based on printable ultrathin substrates in periodically anchored and suspended configurations. 2013 , 25, 5626-31		16
564	Crystalline structure effect on the performance of flexible ZnO/polyimide surface acoustic wave devices. 2013 , 114, 044502		27
563	Directly writing resistor, inductor and capacitor to composite functional circuits: a super-simple way for alternative electronics. 2013 , 8, e69761		43
562	Intrinsically Elastomeric Polymer Light-Emitting Devices. 2014 , 30, 12-18		
561	Stretchable conducting materials with multi-scale hierarchical structures for biomedical applications. 2014 ,		
560	Design, fabrication and failure analysis of stretchable electrical routings. 2014 , 14, 11855-77		46
559	Capillary-bonding of thin LEDs onto non-native substrates by transfer-printing. 2014,		1
558	Flexible InGaN LEDs on a Polyimide Substrate Fabricated Using a Simple Direct-Transfer Method. 2014 , 26, 2115-2117		20
557	Luminance enhancement of electroluminescent devices using highly dielectric UV-curable polymer and oxide nanoparticle composite. 2014 , 4, 1824		13
557 556			13 35
	and oxide nanoparticle composite. 2014 , 4, 1824		
556	and oxide nanoparticle composite. 2014 , 4, 1824 Extremely compliant and highly stretchable patterned graphene. 2014 , 104, 173103 Design and fabrication of novel stretchable device arrays on a deformable polymer substrate with	16.7	35
556 555	and oxide nanoparticle composite. 2014 , 4, 1824 Extremely compliant and highly stretchable patterned graphene. 2014 , 104, 173103 Design and fabrication of novel stretchable device arrays on a deformable polymer substrate with embedded liquid-metal interconnections. 2014 , 26, 6580-6	16.7	35 75
556 555 554	Extremely compliant and highly stretchable patterned graphene. 2014, 104, 173103 Design and fabrication of novel stretchable device arrays on a deformable polymer substrate with embedded liquid-metal interconnections. 2014, 26, 6580-6 Flexible single-crystal silicon nanomembrane photonic crystal cavity. ACS Nano, 2014, 8, 12265-71 Compliant, Heterogeneously Integrated GaAs Micro-VCSELs towards Wearable and Implantable	16.7	35 75 29

550 High performance bio-integrated devices. **2014**,

549	New directions in GaN material research: thinner and smaller. 2014,		
548	Flexible surface acoustic wave devices and its applications in microfluidics. 2014 , 1659, 27-33		
547	Fabrication of well-controlled wavy metal interconnect structures on stress-free elastomeric substrates. 2014 , 113, 55-60		16
546	All-Elastomeric, Strain-Responsive Thermochromic Color Indicators. 2014 , 10, 1266-1271		46
545	Fully Flexible GaN Light-Emitting Diodes through Nanovoid-Mediated Transfer. 2014 , 2, 267-274		33
544	Flexible and transparent silicon-on-polymer based sub-20 nm non-planar 3D FinFET for brain-architecture inspired computation. 2014 , 26, 2794-9		43
543	Laser lift-off transfer printing of patterned GaN light-emitting diodes from sapphire to flexible substrates using a Cr/Au laser blocking layer. 2014 , 77, 13-16		29
542	Flexible and Stretchable Electronics Paving the Way for Soft Robotics. 2014 , 1, 53-62		358
541	Wafer-scale design of lightweight and transparent electronics that wraps around hairs. <i>Nature Communications</i> , 2014 , 5, 2982	17.4	249
540	Flexible electromagnetic interference shields made of silver flakes, carbon nanotubes and nitrile butadiene rubber. 2014 , 68, 118-124		92
539	Growth and characterizations of GaN micro-rods on graphene films for flexible light emitting diodes. 2014 , 2, 092512		86
538	Solution-processed high-performance colloidal quantum dot tandem photodetectors on flexible substrates. 2014 , 116, 084303		10
537	Elastomeric angled microflaps with reversible adhesion for transfer-printing semiconductor membranes onto dry surfaces. <i>ACS Applied Materials & Discrete Applied </i>	9.5	35
536	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. <i>Nature Communications</i> , 2014 , 5, 4779	17.4	245
535	Geckoprinting: assembly of microelectronic devices on unconventional surfaces by transfer printing with isolated gecko setal arrays. 2014 , 11,		29
534	Bendable transparent ZnO thin film surface acoustic wave strain sensors on ultra-thin flexible glass substrates. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 9109-9114	7.1	35
533	Vacuum-induced wrinkle arrays of InGaAs semiconductor nanomembranes on polydimethylsiloxane microwell arrays. <i>ACS Nano</i> , 2014 , 8, 3080-7	16.7	23

532	Cephalopod-inspired design of electro-mechano-chemically responsive elastomers for on-demand fluorescent patterning. <i>Nature Communications</i> , 2014 , 5, 4899	17.4	176
531	Flexible nanoscale high-performance FinFETs. ACS Nano, 2014 , 8, 9850-6	16.7	53
530	Bio-integrated electronics. 2014 ,		
529	GaN-based micro-LED arrays on flexible substrates for optical cochlear implants. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 205401	3	120
528	Self-powered fully-flexible light-emitting system enabled by flexible energy harvester. 2014 , 7, 4035-40	43	144
527	Thermal Effects in a Bendable InGaN/GaN Quantum-Well Light-Emitting Diode. 2014 , 26, 1442-1445		2
526	Flexible photoanodes of TiO2 particles and metallic single-walled carbon nanotubes for flexible dye-sensitized solar cells. 2014 , 79, 337-345		8
525	Systematic approach in designing rare-Earth-free hybrid semiconductor phosphors for general lighting applications. 2014 , 136, 14230-6		141
524	Mechanisms in the solution growth of free-standing two-dimensional inorganic nanomaterials. 2014 , 6, 6398-414		46
523	Experimental and Theoretical Studies of Serpentine Microstructures Bonded To Prestrained Elastomers for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2014 , 24, 2028-2037	15.6	220
522	Integrated flexible chalcogenide glass photonic devices. 2014 , 8, 643-649		216
521	Negative differential conductance materials for flexible electronics. 2014 , 131, n/a-n/a		4
520	Wide bandgap III-nitride nanomembranes for optoelectronic applications. <i>Nano Letters</i> , 2014 , 14, 4293-	8 11.5	56
519	Design of conductive composite elastomers for stretchable electronics. 2014 , 9, 244-260		194
518	Highly stretchable polymer transistors consisting entirely of stretchable device components. 2014 , 26, 3706-11		134
517	Heterogeneously integrated silicon photonics for the mid-infrared and spectroscopic sensing. <i>ACS Nano</i> , 2014 , 8, 6955-61	16.7	104
516	Silicone-Based Soft Electronics. 2014 , 273-292		
515	Millimeter Thin and Rubber-Like Solid-State Lighting Modules Fabricated Using Roll-to-Roll Fluidic Self-Assembly and Lamination. 2015 , 27, 3661-8		24

514	Flexible and Transparent Surface Acoustic Wave Microsensors and Microfluidics. 2015, 120, 717-720	7
513	Highly Stretchable Electrodes on Wrinkled Polydimethylsiloxane Substrates. 2015 , 5, 16527	78
512	Functional integrity of flexible n-channel metalBxideBemiconductor field-effect transistors on a reversibly bistable platform. 2015 , 107, 174101	15
511	Roll-to-roll printed and assembled large area LED lighting element. 2015 , 81, 529-536	30
510	Controlling the directionality of spontaneous emission by evanescent wave coupling. 2015 , 107, 131112	4
509	Heterogeneously Integrated Optoelectronic Devices Enabled by Micro-Transfer Printing. 2015 , 3, 1313-1335	88
508	Stretchable Si Logic Devices with Graphene Interconnects. 2015 , 11, 6272-7	15
507	A Chemical Display: Generating Animations by Controlled Diffusion from Porous Voxels. <i>Advanced Functional Materials</i> , 2015 , 25, 3998-4004	5
506	Scalable Microfabrication Procedures for Adhesive-Integrated Flexible and Stretchable Electronic Sensors. 2015 , 15, 23459-76	32
505	Improved Light Output Power of Chemically Transferred InGaN/GaN Light-Emitting Diodes for Flexible Optoelectronic Applications. 2015 , 2015, 1-6	1
504	Fabrication of GaN-Based White Light-Emitting Diodes on Yttrium Aluminum Garnet-Polydimethylsiloxane Flexible Substrates. 2015 , 2015, 1-5	5
503	Can Advanced Assembly Techniques Alter the Dynamic of Display Manufacturing?. 2015 , 31, 32-34	1
502	Enhanced emission intensity of vertical aligned flexible ZnO nanowire/p-polymer hybridized LED array by piezo-phototronic effect. <i>Nano Energy</i> , 2015 , 14, 364-371	79
501	Infrared Detection Using Transparent and Flexible Field-Effect Transistor Array with Solution Processable Nanocomposite Channel of Reduced Graphene Oxide and P(VDF-TrFE). <i>Advanced</i> 15.6 Functional Materials, 2015 , 25, 1745-1754	30
500	Mechanics of stretchable electronics. 2015 , 19, 160-170	73
499	Ice-assisted transfer of carbon nanotube arrays. Nano Letters, 2015 , 15, 1843-8	9
498	Nanomaterial-enabled stretchable conductors: strategies, materials and devices. 2015 , 27, 1480-511	510
497	Inorganic Semiconductor Nanomaterials for Flexible Electronics. 2015 , 187-224	

496	Screen Printing of Multilayered Hybrid Printed Circuit Boards on Different Substrates. 2015 , 5, 415-421	65
495	Mechanics for stretchable sensors. 2015 , 19, 149-159	57
494	Material approaches to stretchable strain sensors. 2015 , 16, 1155-63	126
493	A theoretical model of reversible adhesion in shape memory surface relief structures and its application in transfer printing. 2015 , 77, 27-42	29
492	Competing buckling of micro/nanowires on compliant substrates. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 045302	15
491	Temporal full-colour tuning through non-steady-state upconversion. <i>Nature Nanotechnology</i> , 2015 , 10, 237-42	670
490	Stretchable biofuel cell with enzyme-modified conductive textiles. 2015 , 74, 947-52	56
489	Directed self-assembly of mesoscopic electronic components into sparse arrays with controlled orientation using diamagnetic levitation. 2015 , 385, 286-291	10
488	Chemically Driven, Water-Soluble Composites of Carbon Nanotubes and Silver Nanoparticles as Stretchable Conductors. 2015 , 4, 769-773	10
487	Liquid on Paper: Rapid Prototyping of Soft Functional Components for Paper Electronics. 2015 , 5, 11488	26
487	Liquid on Paper: Rapid Prototyping of Soft Functional Components for Paper Electronics. 2015, 5, 11488 Soft electronics for soft robotics. 2015,	26
486	Soft electronics for soft robotics. 2015,	6
486 485	Soft electronics for soft robotics. 2015, Processing and characterisation of IIIVI ZnCdMgSe thin film gain structures. 2015, 590, 84-89 Wearable red-green-blue quantum dot light-emitting diode array using high-resolution intaglio	6
486 485 484	Soft electronics for soft robotics. 2015, Processing and characterisation of IIVI ZnCdMgSe thin film gain structures. 2015, 590, 84-89 Wearable red-green-blue quantum dot light-emitting diode array using high-resolution intaglio transfer printing. Nature Communications, 2015, 6, 7149	6
486 485 484 483	Soft electronics for soft robotics. 2015, Processing and characterisation of IIIVI ZnCdMgSe thin film gain structures. 2015, 590, 84-89 Wearable red-green-blue quantum dot light-emitting diode array using high-resolution intaglio transfer printing. Nature Communications, 2015, 6, 7149 Stable Junction Polymer Light-Emitting Electrochemical Cells. 2015, 87-117 Flexible one diode-one phase change memory array enabled by block copolymer self-assembly. ACS	6 6 397
486 485 484 483 482	Soft electronics for soft robotics. 2015, Processing and characterisation of IIIVI ZnCdMgSe thin film gain structures. 2015, 590, 84-89 Wearable red-green-blue quantum dot light-emitting diode array using high-resolution intaglio transfer printing. Nature Communications, 2015, 6, 7149 Stable Junction Polymer Light-Emitting Electrochemical Cells. 2015, 87-117 Flexible one diode-one phase change memory array enabled by block copolymer self-assembly. ACS Nano, 2015, 9, 4120-8	6639753

Nanomembranes and soft fabrication methods for high performance, low cost energy technologies. **2015**,

	Highly Improved Efficiency of Deep-Blue Fluorescent Polymer Light-Emitting Device Based on a		
477	Novel Hole Interface Modifier with 1,3,5-Triazine Core. <i>ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. <i>ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. <i>ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. ACS Applied Materials & Device Based on a Novel Hole Interface Modifier with 1,3,5-Triazine Core. ACS Applied Materials & Device Based on Accordance Modifier With 1,3,5-Triazine Core. ACS Applied Materials & Device Based on Accordance Modifier With 1,3,5-Triazine Core. ACS Applied Materials & Device Based on Accordance Modifier With 1,3,5-Triazine Core. ACS Applied Materials & Device Based on Accordance Modifier With 1,3,5-Triazine Core. ACS Applied Materials & Device Based on Accordance Modifier With 1,3,5-Triazine Core. ACS Applied Materials & Device Based on Accordance Modifier With 1,3,5-Triazine Core. ACS Applied Materials & Device Based on Accordance Modifier With 1,3,5-Triazine Core. ACS Applied Materials & Device Based on Accordance Modifier With 1,3,5-Triazine Modifier With</i></i></i>	9.5	20
476	Highly Stretchable Conductive Fibers from Few-Walled Carbon Nanotubes Coated on Poly(m-phenylene isophthalamide) Polymer Core/Shell Structures. <i>ACS Nano</i> , 2015 , 9, 10252-7	16.7	50
475	Carbon Nanotube Flexible and Stretchable Electronics. 2015 , 10, 1013		92
474	Mechanics of flexible and stretchable piezoelectrics for energy harvesting. 2015, 58, 1		13
473	Bending behavior of a flexible single crystal nanomembrane photonic crystal cavity. 2015 ,		
472	Transparent and flexible conducting hybrid film combined with 3-Aminopropyltriethoxysilane-coated polymer and graphene. 2015 , 357, 287-292		9
471	Compact Tunable Laser With InGaAsP Photonic Crystal Nanorods for C-Band Communication. 2015 , 21, 738-742		6
470	A Self-Assembled, Low-Cost, Microstructured Layer for Extremely Stretchable Gold Films. <i>ACS Applied Materials & District Materials & D</i>	9.5	31
469	Mechanics of mechanochemically responsive elastomers. 2015 , 82, 320-344		64
468	Self-powered flexible inorganic electronic system. <i>Nano Energy</i> , 2015 , 14, 111-125	17.1	94
467	Transparent conducting films of hierarchically nanostructured polyaniline networks on flexible substrates for high-performance gas sensors. 2015 , 11, 306-10		122
466	Organic Nanophotonics. 2015 ,		6
465	Personal electronics printing via tapping mode composite liquid metal ink delivery and adhesion mechanism. 2014 , 4, 4588		146
464	Active polymer nanofibers for photonics, electronics, energy generation and micromechanics. 2015 , 43, 48-95		135
463	Soft-Matter Micro-optics. 67-91		
462	Conductive Elastomers for Stretchable Electronics, Sensors and Energy Harvesters. 2016 , 8,		63
461	Disposable photonic integrated circuits for evanescent wave sensors by ultra-high volume roll-to-roll method. <i>Optics Express</i> , 2016 , 24, 2527-41	3.3	24

460	Patterned ion-sliced lithium niobate for hybrid photonic integration on silicon. 2016 , 6, 2460	16
459	55-1: Invited Paper: Passive Matrix Displays with Transfer-Printed Microscale Inorganic LEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 743-746	31
458	Bright Stretchable Alternating Current Electroluminescent Displays Based on High Permittivity Composites. 2016 , 28, 7200-3	83
457	Mechanical and Electronic Properties of Thin-Film Transistors on Plastic, and Their Integration in Flexible Electronic Applications. 2016 , 28, 4266-82	178
456	Octopus-Inspired Smart Adhesive Pads for Transfer Printing of Semiconducting Nanomembranes. 2016 , 28, 7457-65	112
455	Heteroepitaxial Growth of GaN on Unconventional Templates and Layer-Transfer Techniques for Large-Area, Flexible/Stretchable Light-Emitting Diodes. 2016 , 4, 505-521	20
454	Third-Order Polynomials Model for Analyzing Multilayer Hard/Soft Materials in Flexible Electronics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2016 , 83,	16
453	Conductive network formation of carbon nanotubes in elastic polymer microfibers and its effect on the electrical conductance: Experiment and simulation. 2016 , 144, 194903	10
452	Horizontally assembled green InGaN nanorod LEDs: scalable polarized surface emitting LEDs using electric-field assisted assembly. 2016 , 6, 28312	21
451	3D thermal analysis of rectangular microscale inorganic light-emitting diodes in a pulsed operation. Journal Physics D: Applied Physics, 2016, 49, 405101	17
450	Pressure activated interconnection of micro transfer printed components. 2016 , 108, 203503	8
449	High performance high-Imetal gate complementary metal oxide semiconductor circuit element on flexible silicon. 2016 , 108, 094102	15
448	Stretchable Thin Film Materials: Fabrication, Application, and Mechanics. 2016 , 138,	48
447	Stretchable Bioelectronics for Medical Devices and Systems. 2016 ,	70
446	Sensor Skins: An Overview. 2016 , 173-191	6
445	Extraordinarily high conductivity of flexible adhesive films by hybrids of silver nanoparticle-nanowires. 2016 , 27, 225603	19
444	Dependence of adhesion strength between GaN LEDs and sapphire substrate on power density of UV laser irradiation. 2016 , 384, 353-359	18
443	Planar integration of flexible micro-supercapacitors with ultrafast charge and discharge based on interdigital nanoporous gold electrodes on a chip. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9502-9510 ¹³	51

442	Selective lift-off of GaN light-emitting diode from a sapphire substrate using 266-nm diode-pumped solid-state laser irradiation. 2016 , 122, 1		8
441	Facile, Low-Cost, UV-Curing Approach to Prepare Highly Conductive Composites for Flexible Electronics Applications. 2016 , 45, 3603-3611		5
440	Biodegradable electronics: cornerstone for sustainable electronics and transient applications. Journal of Materials Chemistry C, 2016 , 4, 5531-5558	7.1	124
439	Omnidirectionally Stretchable and Transparent Graphene Electrodes. ACS Nano, 2016 , 10, 9446-9455	16.7	75
438	A particle-free silver precursor ink useful for inkjet printing to fabricate highly conductive patterns. Journal of Materials Chemistry C, 2016 , 4, 10494-10499	7.1	28
437	A Stretchable Multicolor Display and Touch Interface Using Photopatterning and Transfer Printing. 2016 , 28, 9770-9775		102
436	Adhesiveless Transfer Printing of Ultrathin Microscale Semiconductor Materials by Controlling the Bending Radius of an Elastomeric Stamp. 2016 , 32, 7951-7		26
435	A Novel Approach to Integrating 3D/4D Printing and Stretchable Conductive Adhesive Technologies for High Frequency Packaging Applications. 2016 ,		
434	Effect of defects in oxide templates on Non-catalytic growth of GaN nanowires for high-efficiency light-emitting diodes. 2016 , 68, 864-868		
433	Wrinkles in Electronics. 2016 , 63, 3372-3384		6
433	Wrinkles in Electronics. 2016 , 63, 3372-3384 High Responsivity, Large-Area Graphene/MoS2 Flexible Photodetectors. <i>ACS Nano</i> , 2016 , 10, 8252-62	16.7	206
		16.7	
432	High Responsivity, Large-Area Graphene/MoS2 Flexible Photodetectors. <i>ACS Nano</i> , 2016 , 10, 8252-62	16.7	206
43 ² 43 ¹	High Responsivity, Large-Area Graphene/MoS2 Flexible Photodetectors. <i>ACS Nano</i> , 2016 , 10, 8252-62 Fan-Out Packaging of Microdevices Assembled Using Micro-Transfer-Printing. 2016 ,	16.7	206
43 ² 43 ¹ 43 ⁰	High Responsivity, Large-Area Graphene/MoS2 Flexible Photodetectors. <i>ACS Nano</i> , 2016 , 10, 8252-62 Fan-Out Packaging of Microdevices Assembled Using Micro-Transfer-Printing. 2016 , Pressure-Activated Electrical Interconnection During Micro-Transfer-Printing. 2016 ,	16.7	206 0 5
43 ² 43 ¹ 43 ⁰ 429	High Responsivity, Large-Area Graphene/MoS2 Flexible Photodetectors. <i>ACS Nano</i> , 2016 , 10, 8252-62 Fan-Out Packaging of Microdevices Assembled Using Micro-Transfer-Printing. 2016 , Pressure-Activated Electrical Interconnection During Micro-Transfer-Printing. 2016 , Synthesis, Assembly, and Applications of Semiconductor Nanomembranes. 2016 , 1-36 Design of micro, flexible light-emitting diode arrays and fabrication of flexible electrodes. <i>Journal</i>		206 0 5
43 ² 43 ¹ 43 ⁰ 429 428	High Responsivity, Large-Area Graphene/MoS2 Flexible Photodetectors. <i>ACS Nano</i> , 2016 , 10, 8252-62 Fan-Out Packaging of Microdevices Assembled Using Micro-Transfer-Printing. 2016 , Pressure-Activated Electrical Interconnection During Micro-Transfer-Printing. 2016 , Synthesis, Assembly, and Applications of Semiconductor Nanomembranes. 2016 , 1-36 Design of micro, flexible light-emitting diode arrays and fabrication of flexible electrodes. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 405108 Synthesis of integrated graphene films with self-assembled single-layer channels and multi-layer		206 0 5

424	Annealing Effect on Structural, Functional, and Device Properties of Flexible ZnO Acoustic Wave Sensors Based on Commercially Available Al Foil. 2016 , 63, 4535-4541	11
423	Stretchable, adhesive and ultra-conformable elastomer thin films. 2016 , 12, 9202-9209	36
422	Two-Dimensional Stretchable Organic Light-Emitting Devices with High Efficiency. <i>ACS Applied Materials & Devices and Materials & Devices & Device</i>	46
421	Mechanical assembly of complex, 3D mesostructures from releasable multilayers of advanced materials. 2016 , 2, e1601014	152
420	Extremely Stretchable Electroluminescent Devices with Ionic Conductors. 2016 , 28, 4490-6	146
419	Recent Advances in Stretchable and Transparent Electronic Materials. 2016 , 2, 1500407	201
418	Highly Stretchable Anisotropic Structures for Flexible Micro/nano-electrode Applications. 2016 , 11, 112	8
417	Impact of the Bending on the Electroluminescence of Flexible InGaN/GaN Light-Emitting Diodes. 2016 , 28, 1661-1664	6
416	Deformable devices with integrated functional nanomaterials for wearable electronics. 2016 , 3, 4	37
415	Fabrication, characterization and applications of flexible vertical InGaN micro-light emitting diode arrays. <i>Optics Express</i> , 2016 , 24, 699-707	39
414	Stress analysis for nanomembranes under stamp compression. 2016 , 7, 136-144	2
413	Mechanics and thermal management of stretchable inorganic electronics. 2016 , 3, 128-143	92
412	A wearable multiplexed silicon nonvolatile memory array using nanocrystal charge confinement. 2016 , 2, e1501101	113
411	Manufacturing Process of Thermally Unstable Partially Oriented Yarns. 2016, 13-18	
410	Characterization of flexible InGaN LEDs with various curvatures. 2016 , 165, 252-256	7
409	Progress and Prospects in Stretchable Electroluminescent Devices. 2017 , 6, 435-451	21
408	Transparent Ag@Augraphene patterns with conductive stability via inkjet printing. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2800-2806	28
407	Symmetric transparent and flexible supercapacitor based on bio-inspired graphene-wrapped FeO nanowire networks. 2017 , 28, 075402	20

406	Printable stretchable interconnects. Flexible and Printed Electronics, 2017, 2, 013003	3.1	107
405	Stretchable, alternating-current-driven white electroluminescent device based on bilayer-structured quantum-dot-embedded polydimethylsiloxane elastomer. 2017 , 7, 8816-8822		14
404	Miniaturized LEDs for flat-panel displays. 2017,		5
403	White light-emitting diodes: History, progress, and future. Laser and Photonics Reviews, 2017, 11, 16001	4 7.3	352
402	Stretchable Active Matrix Inorganic Light-Emitting Diode Display Enabled by Overlay-Aligned Roll-Transfer Printing. <i>Advanced Functional Materials</i> , 2017 , 27, 1606005	15.6	80
401	Flexible Electronics. 2017, 1-10		
400	9.1-inch stretchable AMOLED display based on LTPS technology. 2017 , 25, 194-199		37
399	Soft Multifunctional Composites and Emulsions with Liquid Metals. 2017 , 29, 1605985		206
398	Strategy and mechanics for bendable micro-light emitting diode array integrated by polymer. 2017 , 179, 13-17		2
397	Fully Printable Organic and Perovskite Solar Cells with Transfer-Printed Flexible Electrodes. <i>ACS Applied Materials & Applied Materials & Description</i> , 9, 18730-18738	9.5	12
396	High performance flexible copper indium gallium selenide corellhell nanorod array photodetectors. 2017 , 35, 03E112		5
395	Laser patterning of highly conductive flexible circuits. 2017 , 28, 165301		9
394	Luminous tiles: A new building device for smart architectures and applications. 2017 , 51, 198-208		1
393	Light-emitting diodes fabricated on an electrical conducting flexible substrate. 2017 , 127, 57-60		5
392	Ternary NiCoP nanoparticles assembled on graphene for high-performance lithium-ion batteries and supercapacitors. 2017 , 7, 26120-26124		43
391	Stretchable electronic devices using graphene and its hybrid nanostructures. 2017, 3, 71-91		26
390	Curving silver nanowires using liquid droplets for highly stretchable and durable percolation networks. 2017 , 9, 8938-8944		16
389	Fully Stretchable Optoelectronic Sensors Based on Colloidal Quantum Dots for Sensing Photoplethysmographic Signals. <i>ACS Nano</i> , 2017 , 11, 5992-6003	16.7	67

388	5-5: Distinguished Paper/Late-News Paper: The First 9.1-inch Stretchable AMOLED Display based on LTPS Technology. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 47-50	0.5	7
387	Transfer Printing of Micron-Size Graphene for Photonic Integrated Circuits and Devices. 2017 , 6, P435-P	439	6
386	19-3: Invited Paper: Key Enabling Technology for Stretchable LED Display and Electronic System. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 253-256	0.5	4
385	19-4: Invited Paper: Emissive Displays with Transfer-Printed Microscale Inorganic LEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 257-263	0.5	19
384	Laser-Material Interactions for Flexible Applications. 2017 , 29, 1606586		96
383	Assembly of Heterogeneous Materials for Biology and Electronics: From Bio-Inspiration to Bio-Integration. 2017 , 139,		12
382	Stretchable Light-Emitting Diodes with Organometal-Halide-Perovskite-Polymer Composite Emitters. 2017 , 29, 1607053		113
381	Controllable deposition distance of aligned pattern via dual-nozzle near-field electrospinning. 2017 , 7, 035310		18
380	Aziridine-functionalized polydimethylsiloxanes for tailorable polymeric scaffolds: aziridine as a clickable moiety for structural modification of materials. 2017 , 8, 2287-2291		16
379	Graphene Oxide Scroll Meshes Prepared by Molecular Combing for Transparent and Flexible Electrodes. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600231	6.8	11
378	In-Plane Deformation Mechanics for Highly Stretchable Electronics. 2017 , 29, 1604989		101
377	Deposition and characterization of AZO thin films on flexible glass substrates using DC magnetron sputtering technique. 2017 , 43, 4536-4544		32
376	Flexible inorganic light emitting diodes based on semiconductor nanowires. 2017, 8, 7904-7911		35
375	Nature-Inspired Structural Materials for Flexible Electronic Devices. <i>Chemical Reviews</i> , 2017 , 117, 12893	1 894	1401
374	Enhanced DC-Operated Electroluminescence of Forwardly Aligned p/MQW/n InGaN Nanorod LEDs via DC Offset-AC Dielectrophoresis. <i>ACS Applied Materials & Description of the Enhanced DC-Operated Electrophoresis and DC-Operated Electrophoresis and DC-Operated Electrophoresis and DC-Operated Electrophoresis. ACS Applied Materials & DC-Operated Electrophoresis and DC-Operated Electrophoresis. ACS Applied Materials & DC-Operated Electrophoresis and DC-Operated Electrophoresis. ACS Applied Materials & DC-Operated Electrophoresis and DC-Operated Electrophoresis. ACS Applied Materials & DC-Operated Electrophoresis and DC-Operated Electrophoresis. ACS Applied Materials & DC-Operated Electrophoresis and DC-Operated Electrophoresis and DC-Operated Electrophoresis. ACS Applied Materials & DC-Operated Electrophoresis and DC-Operated El</i>	9.5	4
373	A silk fabric derived carbon fibre net for transparent capacitive touch pads and all-solid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20608-20614	13	26
372	Tunable Near-Infrared Organic Nanowire Nanolasers. Advanced Functional Materials, 2017, 27, 1703470	15.6	52
371	Wearable Electrocardiogram Monitor Using Carbon Nanotube Electronics and Color-Tunable Organic Light-Emitting Diodes. <i>ACS Nano</i> , 2017 , 11, 10032-10041	16.7	137

370	Ultrathin Quantum Dot Display Integrated with Wearable Electronics. 2017, 29, 1700217		129
369	Fabrication of Flexible White Light-Emitting Diodes from Photoluminescent Polymer Materials with Excellent Color Quality. <i>ACS Applied Materials & Excellent Color Quality</i> . <i>ACS Applied Materials & Excellent Color Quality</i> .	9.5	22
368	Two-Dimensional Active Tuning of an Aluminum Plasmonic Array for Full-Spectrum Response. <i>Nano Letters</i> , 2017 , 17, 6034-6039	11.5	175
367	Mechanical Analyses and Structural Design Requirements for Flexible Energy Storage Devices. 2017 , 7, 1700535		122
366	A flexible, gigahertz, and free-standing thin film piezoelectric MEMS resonator with high figure of merit. 2017 , 111, 023505		19
365	3D Printing of Free-Standing Stretchable Electrodes with Tunable Structure and Stretchability. 2017 , 19, 1700341		42
364	Thermal Release Transfer Printing for Stretchable Conformal Bioelectronics. 2017, 4, 1700251		69
363	Synthesis of Ag/CNT composite films on photo-grafted polyimide substrate by two component spin-spray deposition. 2017 , 56, 355-363		9
362	Deterministic Integration of Biological and Soft Materials onto 3D Microscale Cellular Frameworks. 2017 , 1, 1700068		12
361	Flexible and stretchable mechanoluminescent fiber and fabric. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8027-8032	7.1	39
360	Inorganic light-emitting diode displays using micro-transfer printing. 2017 , 25, 589-609		68
359	Polymer Brushes as Interfacial Materials for Soft Metal Conductors and Electronics. 2017 , 709-734		
358	Nonconventional Biosensors Based on Nanomembrane Materials. 2017 , 241-257		1
357	Highly Efficient Broadband Yellow Phosphor Based on Zero-Dimensional Tin Mixed-Halide Perovskite. <i>ACS Applied Materials & Discrete Series</i> , 2017, 9, 44579-44583	9.5	125
356	Mechanical response of spiral interconnect arrays for highly stretchable electronics. 2017 , 111, 214102		17
355	Origami silicon optoelectronics for hemispherical electronic eye systems. <i>Nature Communications</i> , 2017 , 8, 1782	17.4	119
354	Omnidirectional Deformable Energy Textile for Human Joint Movement Compatible Energy Storage. <i>ACS Applied Materials & amp; Interfaces</i> , 2017 , 9, 41363-41370	9.5	11
353	Multiaxial wavy top-emission organic light-emitting diodes on thermally prestrained elastomeric substrates. 2017 , 48, 314-322		10

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352	Recent Progress on Stretchable Electronic Devices with Intrinsically Stretchable Components. 2017 , 29, 1603167		281
351	Dissolvable tattoo sensors: from science fiction to a viable technology. 2017 , 92, 013001		16
350	Electronic, Mechanical, and Dielectric Properties of Two-Dimensional Atomic Layers of Noble Metals. 2017 , 46, 650-659		11
349	Fabrication of a vertically-stacked passive-matrix micro-LED array structure for a dual color display. <i>Optics Express</i> , 2017 , 25, 2489-2495	3.3	41
348	Manufacturing with light - micro-assembly of opto-electronic microstructures. <i>Optics Express</i> , 2017 , 25, 28838	3.3	12
347	Emissive displays with transfer-printed assemblies of 8 th 🗈 5 th inorganic light-emitting diodes. 2017 , 5, A23		79
346	Transparent Conducting Film Fabricated by Metal Mesh Method with Ag and Cu@Ag Mixture Nanoparticle Pastes. 2017 , 7, 176		8
345	Mechanisms and Materials of Flexible and Stretchable Skin Sensors. <i>Micromachines</i> , 2017 , 8, 69	3.3	31
344	Miniature Heterogeneous Fan-Out Packages for High-Performance, Large-Format Systems. 2017 ,		7
343	Recent Advances in Flexible/Stretchable Optoelectronics: From Next-Generation Displays to Skin-Mounted Wearables. 2017 ,		
342	Printable Superelastic Conductors with Extreme Stretchability and Robust Cycling Endurance Enabled by Liquid-Metal Particles. 2018 , 30, e1706157		150
341	Flexible/Stretchable Devices for Medical Applications. 2018, 351-380		1
340	Carbon Nanotube Based Flexible and Stretchable Electronics. 2018, 7-51		4
339	Optical semitransparent silver nanostructured layer electrode toward semitransparent lithium ion batteries. 2018 , 653, 4-12		3
338	Three-dimensional thermal analysis of rectangular micro-scale inorganic light-emitting diodes integrated with human skin. 2018 , 127, 321-328		23
337	Wafer Scale Transfer of Ultrathin Silicon Chips on Flexible Substrates for High Performance Bendable Systems. 2018 , 4, 1700277		47
336	Patternable and Widely Colour-Tunable Elastomer-Based Electroluminescent Devices. 2018 , 8, 3331		18
335	Direct Graphene Transfer and Its Application to Transfer Printing Using Mechanically Controlled, Large Area Graphene/Copper Freestanding Layer. <i>Advanced Functional Materials</i> , 2018 , 28, 1707102	15.6	26

334	Morphological Behavior of Printed Silver Electrodes with Protective Self-Assembled Monolayers for Electrochemical Migration. <i>ACS Applied Materials & District Self-Assembled Monolayers</i>	9.5	9
333	Flexible quantum dot light-emitting diodes for next-generation displays. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	177
332	Recent developments of truly stretchable thin film electronic and optoelectronic devices. 2018 , 10, 576	54-579	264
331	A Sub-minute Curable Nanoadhesive with High Transparency, Strong Adhesion, and Excellent Flexibility. 2018 , 51, 992-1001		18
330	Iron Oxide Nanoparticle-Based Magnetic Ink Development for Fully Printed Tunable Radio-Frequency Devices. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700242	6.8	20
329	Experimental and Theoretical Study on Mechanical Properties of Porous PDMS. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018 , 85,	2.7	20
328	Implantable, wireless device platforms for neuroscience research. 2018 , 50, 42-49		71
327	Microscopic Observation of Low Efficiency in Green Light-Emitting Diodes. 2018 , 5, 1129-1136		7
326	Integrated Optical Amplifier Photodetector on a Wearable Nanocellulose Substrate. 2018, 6, 1800201		16
325	Inkjet printing for the fabrication of flexible/stretchable wearable electronic devices and sensors. 2018 , 38, 438-452		43
324	Functionalization of stretchable networks with sensors and switches for composite materials. 2018 , 17, 598-623		13
323	Extremely Vivid, Highly Transparent, and Ultrathin Quantum Dot Light-Emitting Diodes. 2018 , 30, 1703.	279	122
322	Strong interplay between dopant and SnO2 in amorphous transparent (Sn, Nb)O2 anode with high conductivity in electrochemical cycling. 2018 , 735, 2401-2409		28
321	Heterogeneous Integration of Microscale GaN Light-Emitting Diodes and Their Electrical, Optical, and Thermal Characteristics on Flexible Substrates. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700239	6.8	23
320	Understanding the Stretching Mechanism of Spiral-Island Configurations for Highly Stretchable Elecronics. 2018 ,		
319	Breakdown-induced conductive channel for III-nitride light-emitting devices. 2018 , 8, 16547		3
318	Toward all-day wearable health monitoring: An ultralow-power, reflective organic pulse oximetry sensing patch. 2018 , 4, eaas9530		93
317	Chromium/Nickel-Doped Silicon Oxide Thin-Film Electrode: Mechanism and Application to Microscale Light-Emitting Diodes. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 40967-40972	9.5	2

316	Square Column Structure of High Efficiency, Reliable, Uniformly Flexible LED Devices. 2018 , 8, 472		3
315	Engineering the work function of solution-processed electrodes of silver nanocrystal thin film through surface chemistry modification. 2018 , 6, 121105		5
314	Dependent Analyses of Multilayered Material/Geometrical Characteristics on the Mechanical Reliability of Flexible Display Devices. 2018 , 18, 639-642		4
313	Bright Stretchable Electroluminescent Devices based on Silver Nanowire Electrodes and High-k Thermoplastic Elastomers. <i>ACS Applied Materials & Samp; Interfaces</i> , 2018 , 10, 44760-44767	9.5	44
312	A 250 fb fb7 fb Microscale Opto-electronically Transduced Electrodes (MOTEs) for Neural Recording. 2018 , 12, 1256-1266		44
311	Transfer printing techniques for flexible and stretchable inorganic electronics. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	115
310	Direct Fabrication of Stretchable Electronics on a Polymer Substrate with Process-Integrated Programmable Rigidity. <i>Advanced Functional Materials</i> , 2018 , 28, 1804604	15.6	43
309	Trapped Photons Induced Ultrahigh External Quantum Efficiency and Photoresponsivity in Hybrid Graphene/Metal-Organic Framework Broadband Wearable Photodetectors. <i>Advanced Functional Materials</i> , 2018 , 28, 1804802	15.6	38
308	Stretchable metal films. Flexible and Printed Electronics, 2018, 3, 043001	3.1	10
307	Self-Assembly of Perovskite Crystals Anchored Al O -La O Nanofibrous Membranes with Robust Flexibility and Luminescence. 2018 , 14, e1801963		14
306	In Situ Growth of the NiVO@PANI Composite Electrode for Flexible and Transparent Symmetric Supercapacitors. <i>ACS Applied Materials & District Supercapacitors</i> . <i>ACS Applied Materials & District Supercapacitors</i> .	9.5	53
305	Elastic Fiber Supercapacitors for Wearable Energy Storage. 2018 , 39, e1800103		21
304	Monolithic Flexible Vertical GaN Light-Emitting Diodes for a Transparent Wireless Brain Optical Stimulator. 2018 , 30, e1800649		64
303	High Performance, Biocompatible Dielectric Thin-Film Optical Filters Integrated with Flexible Substrates and Microscale Optoelectronic Devices. 2018 , 6, 1800146		16
302	The effect of crystalline defects and geometry factors of multi-walled carbon nanotubes on electrical conductivity of silver-nitrile butadiene rubber composites. 2018 , 242, 23-28		5
301	Review on flexible photonics/electronics integrated devices and fabrication strategy. 2018 , 61, 1		57
300	52-4: Laser-Enabled Extremely-High Rate Technology for μLED Assembly. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 692-695	0.5	24
299	45-2: Invited Paper: Micro-LED Displays: Key Manufacturing Challenges and Solutions. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 597-600	0.5	46

298	38-2: Invited Paper: Strain-engineered Platform Technology for Stretchable Hybrid Electronics. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 483-485	0.5	1
297	Semiconductor Nanomembrane Materials for High-Performance Soft Electronic Devices. 2018 , 140, 90	01-901	922
296	Potential of Graphene for Miniature Sensors and Conducting Devices for Biomedical Applications. 2018 ,		
295	Super flexible GaN light emitting diodes using microscale pyramid arrays through laser lift-off and dual transfer. <i>Optics Express</i> , 2018 , 26, 1817-1824	3.3	15
294	Flexible and Stretchable Smart Display: Materials, Fabrication, Device Design, and System Integration. <i>Advanced Functional Materials</i> , 2018 , 28, 1801834	15.6	221
293	Novel Electronics for Flexible and Neuromorphic Computing. <i>Advanced Functional Materials</i> , 2018 , 28, 1801690	15.6	74
292	In-plane and out-of-plane structural response of spiral interconnects for highly stretchable electronics. 2018 , 124, 034905		10
291	Soft Display Using Photonic Crystals on Dielectric Elastomers. <i>ACS Applied Materials & Amp;</i> Interfaces, 2018 , 10, 24758-24766	9.5	32
290	A Stretchable Alternating Current Electroluminescent Fiber. 2018 , 11,		27
289	2D library beyond graphene and transition metal dichalcogenides: a focus on photodetection. <i>Chemical Society Reviews</i> , 2018 , 47, 6296-6341	58.5	145
288	Fabrication and evaluation of controllable deposition distance for aligned pattern by multi-nozzle near-field electrospinning. 2018 , 8, 075111		5
287	Ultra-stretchable Archimedean interconnects for stretchable electronics. 2018 , 24, 6-13		8
286	Trichogenic Photostimulation Using Monolithic Flexible Vertical AlGaInP Light-Emitting Diodes. <i>ACS Nano</i> , 2018 , 12, 9587-9595	16.7	51
285	Microscale optoelectronic infrared-to-visible upconversion devices and their use as injectable light sources. 2018 , 115, 6632-6637		51
284	Wearables in Medicine. 2018 , 30, e1706910		223
283	Recent Advances in Biointegrated Optoelectronic Devices. 2018 , 30, e1800156		49
282	Stable and efficient transfer-printing including repair using a GaN-based microscale light-emitting diode array for deformable displays. 2019 , 9, 11551		7
281	A Structured Design for Highly Stretchable Electronic Skin. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900492	6.8	6

280	Narrowband deep-blue organic light-emitting diode featuring an organoboron-based emitter. 2019 , 13, 678-682	390
279	Highly stretchable electrochromic hydrogels for use in wearable electronic devices. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9481-9486	19
278	Free-standing and ultrathin inorganic light-emitting diode array. 2019 , 11,	7
277	Ultraflexible and Lightweight Bamboo-Derived Transparent Electrodes for Perovskite Solar Cells. 2019 , 15, e1902878	27
276	Planar all-solid-state rechargeable ZnBir batteries for compact wearable energy storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17581-17593	77
275	Stretchable High-Permittivity Nanocomposites for Epidermal Alternating-Current Electroluminescent Displays. 2019 , 1, 511-518	41
274	Large-Area Soft e-Skin: The Challenges Beyond Sensor Designs. 2019 , 107, 2016-2033	117
273	High-Bandwidth InGaN Self-Powered Detector Arrays toward MIMO Visible Light Communication Based on Micro-LED Arrays. 2019 , 6, 3186-3195	41
272	Design, mechanics, and operation of spiral-interconnect based networked sensor for stretchable electronics. 2019 , 115, 181904	4
271	Control of adhesion force for micro LED transfer using a magnetorheological elastomer. 2019 , 33, 5321-532	25 8
270	High Yield Precision Transfer and Assembly of GaN µLEDs Using Laser Assisted Micro Transfer Printing. 2019 ,	4
269	A UV-responsive pressure sensitive adhesive for damage-free fabrication of an ultrathin imperceptible mechanical sensor with ultrahigh optical transparency. <i>Journal of Materials Chemistry</i> 13 <i>A</i> , 2019 , 7, 22588-22595	16
268	Pen drawing display. <i>Nature Communications</i> , 2019 , 10, 4334	4 9
267	High-performance flat-type InGaN-based light-emitting diodes with local breakdown conductive channel. 2019 , 9, 13654	6
266	In-plane deformation mechanics of highly stretchable Archimedean interconnects. 2019 , 9, 015224	2
265	Fully rubbery integrated electronics from high effective mobility intrinsically stretchable semiconductors. 2019 , 5, eaav5749	72
264	Stretchable Organometal-Halide-Perovskite Quantum-Dot Light-Emitting Diodes. 2019 , 31, e1807516	43
263	An efficient computational method for curved interconnects deformation. 2019 , 75, 82-92	5

262	Droplet-Mediated Deterministic Microtransfer Printing: Water as a Temporary Adhesive. <i>ACS Applied Materials & Description of the Printing Section 11</i> , 8645-8653	9.5	6
261	Morphological/nanostructural control toward intrinsically stretchable organic electronics. <i>Chemical Society Reviews</i> , 2019 , 48, 1741-1786	58.5	87
260	Stimuli-responsive materials: a web themed collection. 2019 , 3, 10-11		16
259	Self-Powered Flexible Blood Oxygen Monitoring System Based on a Triboelectric Nanogenerator. 2019 , 9,		9
258	3D-Printed Flexible Tactile Sensor Mimicking the Texture and Sensitivity of Human Skin. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900147	6.8	13
257	Wearable high-powered biofuel cells using enzyme/carbon nanotube composite fibers on textile cloth. 2019 , 141, 111471		52
256	Metal nanowire networks: Recent advances and challenges for new generation photovoltaics. 2019 , 13, 152-185		19
255	11-1: Invited Paper: Technologies for the Crystal LED Display System. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 121-124	0.5	15
254	Advanced Electronic Packaging. 2019 , 1-27		
253	Origins of Inhomogeneous Light Emission From GaN-Based Flip-Chip Green Micro-LEDs. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1132-1135	4.4	6
253 252		4.4	54
	Electron Device Letters, 2019 , 40, 1132-1135	4.4	
252	Electron Device Letters, 2019, 40, 1132-1135 Laser Transfer, Printing, and Assembly Techniques for Flexible Electronics. 2019, 5, 1800900 Flexible Inorganic Light Emitting Diodes Enabled by New Materials and Designs, With Examples of	4.4	
252 251	Electron Device Letters, 2019, 40, 1132-1135 Laser Transfer, Printing, and Assembly Techniques for Flexible Electronics. 2019, 5, 1800900 Flexible Inorganic Light Emitting Diodes Enabled by New Materials and Designs, With Examples of Their Use in Neuroscience Research. 2019, 1-39 Flexible Light-Emitting Diodes Based on Inorganic Semiconductor Nanostructures: From Thin Films	4.4	
252 251 250	Laser Transfer, Printing, and Assembly Techniques for Flexible Electronics. 2019, 5, 1800900 Flexible Inorganic Light Emitting Diodes Enabled by New Materials and Designs, With Examples of Their Use in Neuroscience Research. 2019, 1-39 Flexible Light-Emitting Diodes Based on Inorganic Semiconductor Nanostructures: From Thin Films to Nanowires. 2019, 41-77	14.4	54
252 251 250 249	Laser Transfer, Printing, and Assembly Techniques for Flexible Electronics. 2019, 5, 1800900 Flexible Inorganic Light Emitting Diodes Enabled by New Materials and Designs, With Examples of Their Use in Neuroscience Research. 2019, 1-39 Flexible Light-Emitting Diodes Based on Inorganic Semiconductor Nanostructures: From Thin Films to Nanowires. 2019, 41-77 Modeling and Application of Flexible Electronics Packaging. 2019, Assembly and applications of 3D conformal electronics on curvilinear surfaces. <i>Materials Horizons</i> ,		1
252 251 250 249 248	Laser Transfer, Printing, and Assembly Techniques for Flexible Electronics. 2019, 5, 1800900 Flexible Inorganic Light Emitting Diodes Enabled by New Materials and Designs, With Examples of Their Use in Neuroscience Research. 2019, 1-39 Flexible Light-Emitting Diodes Based on Inorganic Semiconductor Nanostructures: From Thin Films to Nanowires. 2019, 41-77 Modeling and Application of Flexible Electronics Packaging. 2019, Assembly and applications of 3D conformal electronics on curvilinear surfaces. <i>Materials Horizons</i> , 2019, 6, 642-683 Integration of GaN light-emitting diodes with a-Si:H thin-film transistors for flexible displays. 2019,		54 1 90

244	Prospects and challenges of mini-LED and micro-LED displays. 2019 , 27, 387-401	83
243	Microfluidic Synthesis of Semiconducting Colloidal Quantum Dots and Their Applications. 2019 , 2, 1773-1790	35
242	High-Performance Liquid Alloy Patterning of Epidermal Strain Sensors for Local Fine Skin Movement Monitoring. 2019 , 6, 414-421	12
241	Hybrid Heterostructured LEDs Based on Superstrate Architecture of ZnO and ZnS Quantum Dots. 2019 , 55, 1-7	2
240	Structure-Property Relationships in Graphene-Based Strain and Pressure Sensors for Potential Artificial Intelligence Applications. 2019 , 19,	36
239	Flexible Mid-infrared Photonic Circuits for Real-time and Label-Free Hydroxyl Compound Detection. 2019 , 9, 4153	8
238	Kirigami Patterning of MXene/Bacterial Cellulose Composite Paper for All-Solid-State Stretchable Micro-Supercapacitor Arrays. 2019 , 6, 1900529	143
237	Low-resistance stretchable electrodes using a thick silver layer and a PDMS-PDMS bonding technique. 2019 , 9, 025016	2
236	A novel strategy for markedly enhancing the green upconversion emission in Er3+/Yb3+ co-doped VO2. 2019 , 791, 593-600	12
235	Structural colors in metasurfaces: principle, design and applications. 2019 , 3, 750-761	41
234	The research status and challenges of shape memory polymer-based flexible electronics. <i>Materials Horizons</i> , 2019 , 6, 931-944	73
233	Transfer Printing and its Applications in Flexible Electronic Devices. 2019 , 9,	35
232	Sub-millisecond Control of Neuronal Firing by Organic Light-Emitting Diodes. 2019 , 7, 278	13
231	Sandwiched Polyethylene Shrink Film Masking with Tunable Resolution and Shape for Liquid Alloy Patterning. 2019 , 1, 145-151	6
230	Highly Conductive Flexible Metal-Ceramic Nanolaminate Electrode for High-Performance Soft Electronics. <i>ACS Applied Materials & ACS ACS Applied Materials & ACS ACS ACS ACS APPLIED & ACS ACS ACS ACS ACS ACS ACS ACS ACS ACS</i>	5
229	Wireless powered wearable micro light-emitting diodes. <i>Nano Energy</i> , 2019 , 55, 454-462	54
228	Recent progress in printed flexible solid-state supercapacitors for portable and wearable energy storage. 2019 , 410-411, 69-77	104
227	Progress of binary cooperative complementary interfacial nanomaterials. 2019 , 24, 48-80	10

226	Self-powered flexible electronics beyond thermal limits. <i>Nano Energy</i> , 2019 , 56, 531-546	17.1	51
225	Recent Advances in Flexible Inorganic Light Emitting Diodes: From Materials Design to Integrated Optoelectronic Platforms. 2019 , 7, 1800936		46
224	3D Ag/NiO-Fe2O3/Ag nanomembranes as carbon-free cathode materials for Li-O2 batteries. 2019 , 16, 155-162		34
223	Rubbery Electronics Fully Made of Stretchable Elastomeric Electronic Materials. 2020 , 32, e1902417		58
222	Inverse-opal-structured hybrids of N, S-codoped-carbon-confined Co9S8 nanoparticles as bifunctional oxygen electrocatalyst for on-chip all-solid-state rechargeable Zn-air batteries. 2020 , 260, 118209		86
221	Design of Nanoparticle Systems by Controllable Assembly and Temporal/Spatial Regulation. <i>Advanced Functional Materials</i> , 2020 , 30, 1903351	15.6	8
220	Printing Flexible and Hybrid Electronics for Human Skin and Eye-Interfaced Health Monitoring Systems. 2020 , 32, e1902051		53
219	Mechanically-Guided Structural Designs in Stretchable Inorganic Electronics. 2020 , 32, e1902254		104
218	Printable Semiconductors for Backplane TFTs of Flexible OLED Displays. <i>Advanced Functional Materials</i> , 2020 , 30, 1904588	15.6	82
217	Review B rogress in High Performance III-Nitride Micro-Light-Emitting Diodes. 2020 , 9, 015012		63
216	Multifunctional materials for implantable and wearable photonic healthcare devices. 2020 , 5, 149-165		206
215	Voltage-Tunable Dual Image of Electrostatic Force-Assisted Dispensing Printed, Tungsten Trioxide-Based Electrochromic Devices with a Symmetric Configuration. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 4022-4030	9.5	15
214	Roller-Assisted Adhesion Imprinting for High-Throughput Manufacturing of Wearable and Stretchable Organic Light-Emitting Devices. 2020 , 8, 1901525		11
213	Fully Screen-Printed, Multicolor, and Stretchable Electroluminescent Displays for Epidermal Electronics. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 47902-47910	9.5	24
212	Autonomous Light Management in Flexible Photoelectrochromic Films Integrating High Performance Silicon Solar Microcells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1540-1551	6.1	9
211	Heat Dissipation in Flexible Nitride Nanowire Light-Emitting Diodes. 2020 , 10,		1
210	Selective-Area Remote Epitaxy of ZnO Microrods Using Multilayer Monolayer-Patterned Graphene for Transferable and Flexible Device Fabrications. 2020 , 3, 8920-8930		13
209	. 2020 ,		1

(2020-2020)

208	Highly Integrated Elastic Island-Structured Printed Circuit Board with Controlled Young's Modulus for Stretchable Electronics. <i>Micromachines</i> , 2020 , 11,	3.3	1
207	Printable elastic silver nanowire-based conductor for washable electronic textiles. 2020 , 13, 2879-2884		12
206	Damage-Free Plasma Etching to Enhance Performance of AlGaInP-Based Micro-Light Emitting Diode. 2020 , 1-1		2
205	Concurrently Realizing Geometric Confined Growth and Doping of Transition Metals within Graphene Hosts for Bifunctional Electrocatalysts toward a Solid-State Rechargeable Micro-Zn-Air Battery. <i>ACS Applied Materials & Discrete States</i> , 2020, 12, 38031-38044	9.5	10
204	Flexible and Stretchable Photonics: The Next Stretch of Opportunities. 2020 , 7, 2618-2635		18
203	A wireless, implantable optoelectrochemical probe for optogenetic stimulation and dopamine detection. 2020 , 6, 64		29
202	Wafer-Scale Micro-LEDs Transferred onto an Adhesive Film for Planar and Flexible Displays. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000549	6.8	13
201	Self-Aligned Capillarity-Assisted Printing of High Aspect Ratio Flexible Metal Conductors: Optimizing Ink Flow, Plating, and Mechanical Adhesion. 2020 , 59, 22107-22122		4
200	Si Nanoribbons based High Performance Printed FETs using Room-Temperature deposited Dielectric. 2020 ,		0
199	Full-Color Realization of Micro-LED Displays. 2020 , 10,		20
199 198	Full-Color Realization of Micro-LED Displays. 2020, 10, Alternating Current Electroluminescent Devices with Inorganic Phosphors for Deformable Displays. 2020, 1, 100213		20
	Alternating Current Electroluminescent Devices with Inorganic Phosphors for Deformable Displays.		
198	Alternating Current Electroluminescent Devices with Inorganic Phosphors for Deformable Displays. 2020 , 1, 100213 Selective Transfer of Light-Emitting Diodes onto a Flexible Substrate via Laser Lissajous Scanning.		8
198	Alternating Current Electroluminescent Devices with Inorganic Phosphors for Deformable Displays. 2020, 1, 100213 Selective Transfer of Light-Emitting Diodes onto a Flexible Substrate via Laser Lissajous Scanning. 2020, 5, 27749-27755 High-performance printed electronics based on inorganic semiconducting nano to chip scale		8
198 197 196	Alternating Current Electroluminescent Devices with Inorganic Phosphors for Deformable Displays. 2020, 1, 100213 Selective Transfer of Light-Emitting Diodes onto a Flexible Substrate via Laser Lissajous Scanning. 2020, 5, 27749-27755 High-performance printed electronics based on inorganic semiconducting nano to chip scale structures. 2020, 7, 33 Structural and Optical Properties of Self-Catalyzed Axially Heterostructured GaPN/GaP Nanowires	9.5	8 2 34
198 197 196	Alternating Current Electroluminescent Devices with Inorganic Phosphors for Deformable Displays. 2020, 1, 100213 Selective Transfer of Light-Emitting Diodes onto a Flexible Substrate via Laser Lissajous Scanning. 2020, 5, 27749-27755 High-performance printed electronics based on inorganic semiconducting nano to chip scale structures. 2020, 7, 33 Structural and Optical Properties of Self-Catalyzed Axially Heterostructured GaPN/GaP Nanowires Embedded into a Flexible Silicone Membrane. 2020, 10, Redox-Active Vertically Aligned Mesoporous Silica Thin Films as Transparent Surfaces for Energy	9.5	8 2 34 6
198 197 196 195	Alternating Current Electroluminescent Devices with Inorganic Phosphors for Deformable Displays. 2020, 1, 100213 Selective Transfer of Light-Emitting Diodes onto a Flexible Substrate via Laser Lissajous Scanning. 2020, 5, 27749-27755 High-performance printed electronics based on inorganic semiconducting nano to chip scale structures. 2020, 7, 33 Structural and Optical Properties of Self-Catalyzed Axially Heterostructured GaPN/GaP Nanowires Embedded into a Flexible Silicone Membrane. 2020, 10, Redox-Active Vertically Aligned Mesoporous Silica Thin Films as Transparent Surfaces for Energy Storage Applications. ACS Applied Materials & Camp; Interfaces, 2020, 12, 24262-24270 Optically Tunable Bifunctional Structures Fabricated by Hybrid Imprint-Photo Lithography (HIPL).		8 2 34 6

190	Transparent Supercapacitors: From Optical Theories to Optoelectronics Applications. 2020 , 3, 265-285		6
189	Mini-LED, Micro-LED and OLED displays: present status and future perspectives. 2020 , 9, 105		258
188	Programmable and scalable transfer printing with high reliability and efficiency for flexible inorganic electronics. 2020 , 6, eabb2393		35
187	Improved Light Output of AlGaInP-Based Micro-Light Emitting Diode Using Distributed Bragg Reflector. 2020 , 32, 438-441		8
186	Omnidirectionally Stretchable Organic Transistors for Use in Wearable Electronics: Ensuring Overall Stretchability by Applying Nonstretchable Wrinkled Components. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 32979-32986	9.5	7
185	Using SiO2-Based Distributed Bragg Reflector to Improve the Performance of AlGaInP-Based Red Micro-Light Emitting Diode. 2020 , 9, 036002		4
184	Injectable Biomedical Devices for Sensing and Stimulating Internal Body Organs. 2020, 32, e1907478		23
183	Enhanced Stretchable and Sensitive Strain Sensor via Controlled Strain Distribution. 2020, 10,		10
182	Intertwined Nanosponge Solid-State Polymer Electrolyte for Rollable and Foldable Lithium-Ion Batteries. <i>ACS Applied Materials & Damp; Interfaces</i> , 2020 , 12, 11657-11668	9.5	11
181	Facile Fabrication of Stretchable Touch-Responsive Perovskite Light-Emitting Diodes Using Robust Stretchable Composite Electrodes. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 14408-14415	9.5	20
180	Self-Integratable, Healable, and Stretchable Electroluminescent Device Fabricated via Dynamic Urea Bonds Equipped in Polyurethane. <i>ACS Applied Materials & Device Fabricated</i> , 12, 10949-10958	9.5	9
179	TiCT MXene-Reduced Graphene Oxide Composite Electrodes for Stretchable Supercapacitors. <i>ACS Nano</i> , 2020 , 14, 3576-3586	16.7	130
178	Near-Infrared Laser-Triggered Full-Color Tuning Photon Upconversion and Intense White Emission in Single Gd2O3 Microparticle. 2020 , 8, 2557-2567		10
177	High-Brightness Perovskite Light-Emitting Diodes Using a Printable Silver Microflake Contact. <i>ACS Applied Materials & Diodes and State </i>	9.5	6
176	Printable carbon nanotube-based elastic conductors for fully-printed sub-1 V stretchable electrolyte-gated transistors and inverters. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3639-3645	7.1	11
175	Highly Elastic and >200% Reversibly Stretchable Down-Conversion White Light-Emitting Diodes Based on Quantum Dot Gel Emitters. 2020 , 8, 1901972		14
174	Thermal and optical properties of high-density GaN micro-LED arrays on flexible substrates. <i>Nano Energy</i> , 2020 , 73, 104724	17.1	11
173	Growth, transfer printing and colour conversion techniques towards full-colour micro-LED display. 2020 , 71, 100263		75

172	Microscopic sensors using optical wireless integrated circuits. 2020 , 117, 9173-9179	26
171	High-resolution and high-brightness full-colour Bilicon DisplayIfor augmented and mixed reality. 2021 , 29, 57-67	8
170	Direct Writing Large-Area Multi-Layer Ultrasmooth Films by an All-Solution Process: Toward High-Performance QLEDs. 2021 , 133, 690-694	О
169	R/G/B Micro-LEDs for In-Pixel Integrated Arrays and Temperature Sensing. 2021 , 3, 3-10	5
168	Multi-acrylate-based UV-curable dismantlable adhesives. 2021 , 104, 102758	7
167	Recent Progress in Artificial Muscles for Interactive Soft Robotics. 2021 , 33, e2003088	40
166	Direct Writing Large-Area Multi-Layer Ultrasmooth Films by an All-Solution Process: Toward High-Performance QLEDs. 2021 , 60, 680-684	4
165	Potential of Graphene for Miniature Sensors and Conducting Devices in Biomedical Applications. 2021 , 96-96	
164	Experimental and Modeling Investigations of Miniaturization in InGaN/GaN Light-Emitting Diodes and Performance Enhancement by Micro-Wall Architecture. 2020 , 8, 630050	1
163	Stretchable micro-scale concentrator photovoltaic module with 15.4% efficiency for three-dimensional curved surfaces. 2021 , 2,	5
162	Micro-LEDs for biomedical applications. 2021 , 106, 57-94	2
161	Molecular Orientation Control of Liquid Crystal Organic Semiconductor for High-Performance Organic Field-Effect Transistors. <i>ACS Applied Materials & amp; Interfaces</i> , 2021 , 13, 11125-11133	7
160	A Flash-Induced Robust Cu Electrode on Glass Substrates and Its Application for Thin-Film 🛭 EDs. 2021 , 33, e2007186	6
159	Thermal Controlled Tunable Adhesive for Deterministic Assembly by Transfer Printing. <i>Advanced Functional Materials</i> , 2021 , 31, 2010297	13
158	Skin Electronics: Next-Generation Device Platform for Virtual and Augmented Reality. <i>Advanced Functional Materials</i> , 2021 , 31, 2009602	42
157	Layer-Scale and Chip-Scale Transfer Techniques for Functional Devices and Systems: A Review. 2021 , 11,	6
156	Micro-Light Emitting Diode: From Chips to Applications. Laser and Photonics Reviews, 2021 , 15, 2000133 8.3	31
155	Design and engineering of high-performance triboelectric nanogenerator for ubiquitous unattended devices. 2021 , 3, e12093	16

154	Soft, Wireless and subdermally implantable recording and neuromodulation tools. 2021,		4
153	Technologies for the Crystal LED display system. 2021 , 29, 435-445		5
152	Recent advances in flexible alternating current electroluminescent devices. 2021, 9, 030701		5
151	Si nanomebranes: Material properties and applications. 2021 , 14, 3010-3032		2
150	Transfer-printed, tandem microscale light-emitting diodes for full-color displays. 2021, 118,		7
149	Materials and devices for flexible and stretchable photodetectors and light-emitting diodes. 2021 , 14, 2919-2937		10
148	Edge/direct-lit hybrid mini-LED backlight with U-grooved light guiding plates for local dimming. <i>Optics Express</i> , 2021 , 29, 12179-12194	3.3	11
147	60-1: Invited Paper: Mass Transfer Throughput and Yield Using Elastomer Stamps. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 849-852	0.5	1
146	Highly efficient, heat dissipating, stretchable organic light-emitting diodes based on a MoO/Au/MoO electrode with encapsulation. <i>Nature Communications</i> , 2021 , 12, 2864	17.4	12
145	Peripheral Decoration of Multi-Resonance Molecules as a Versatile Approach for Simultaneous Long-Wavelength and Narrowband Emission. <i>Advanced Functional Materials</i> , 2021 , 31, 2102017	15.6	43
144	Ultrastretchable and Washable Conductive Microtextiles by Coassembly of Silver Nanowires and Elastomeric Microfibers for Epidermal Human Machine Interfaces. 2021 , 3, 912-920		20
143	Full-color flexible laser displays based on random laser arrays. Science China Materials, 2021, 64, 2805-2	8 , 1.2	3
142	Stick-and-play system based on interfacial adhesion control enhanced by micro/nanostructures. 2021 , 14, 3143-3158		4
141	Heterogeneously Integrated Graphene/Silicon/Halide Waveguide Photodetectors toward Chip-Scale Zero-Bias Long-Wave Infrared Spectroscopic Sensing. <i>ACS Nano</i> , 2021 , 15, 10084-10094	16.7	10
140	Single-Step Dual-Layer Photolithography for Tunable and Scalable Nanopatterning. <i>ACS Nano</i> , 2021 ,	16.7	11
139	Highly Efficient Full-Color Inorganic LEDs on a Single Wafer by Using Multiple Adhesive Bonding. 2021 , 8, 2100300		O
138	Instant, multiscale dry transfer printing by atomic diffusion control at heterogeneous interfaces. 2021 , 7,		4
137	Ultrathin, Flexible, and Transparent Oxide Thin-Film Transistors by Delamination and Transfer Methods for Deformable Displays. <i>Advanced Materials Technologies</i> , 2100431	6.8	O

136	Conformal manufacturing of soft deformable sensors on the curved surface. 2021 , 3, 042001		13
135	Transferable, flexible white light-emitting diodes of GaN pB junction microcrystals fabricated by remote epitaxy. <i>Nano Energy</i> , 2021 , 86, 106075	17.1	6
134	Projection optical engine design based on tri-color LEDs and digital light processing technology. 2021 , 60, 6971-6977		1
133	Effectiveness of high curvature segmentation on the curved flexible surface plasmon resonance. <i>Optics Express</i> , 2021 , 29, 26955-26970	3.3	О
132	Recent advances in flexible batteries: From materials to applications. 1		8
131	Printed Electronic Devices with Inks of TiS Quasi-One-Dimensional van der Waals Material. <i>ACS Applied Materials & Applied & A</i>	9.5	3
130	Synchronously manipulating Zn2+ transfer and hydrogen/oxygen evolution kinetics in MXene host electrodes toward symmetric Zn-ions micro-supercapacitor with enhanced areal energy density. 2021 , 40, 10-21		18
129	Ultralow-switching current density multilevel phase-change memory on a flexible substrate. <i>Science</i> , 2021 , 373, 1243-1247	33.3	20
128	Three-dimensional monolithic micro-LED display driven by atomically thin transistor matrix. <i>Nature Nanotechnology</i> , 2021 , 16, 1231-1236	28.7	20
127	Efficiency Boosting by Thermal Harvesting in InGaN/GaN Light-Emitting Diodes. 2021, 9,		1
126	Red GaPAs/GaP Nanowire-Based Flexible Light-Emitting Diodes. 2021 , 11,		1
125	Stretchable conductive elastomer composites based on a processing of Ag+ swelling, in situ reduction, and drying shrinkage. 2021 , 149, 106565		О
124	Development of triboelectric-enabled tunable Fabry-PEot photonic-crystal-slab filter towards wearable mid-infrared computational spectrometer. <i>Nano Energy</i> , 2021 , 89, 106446	17.1	8
123	Stretchable array of CdSe/ZnS quantum-dot light emitting diodes for visual display of bio-signals. <i>Chemical Engineering Journal</i> , 2022 , 427, 130858	14.7	6
122	Review on property regulation of semiconducting materials in flexible electronics. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021 , 70, 164203-164203	0.6	
121	MicroLED technologies and applications: characteristics, fabrication, progress, and challenges. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 123001	3	32
		\\	
120	Electronic Applications of Polyurethane and Its Composites. 2016 , 87-134		1

118	Modified silicone rubber for fabrication and contacting of flexible suspended membranes of n-/p-GaP nanowires with a single-walled carbon nanotube transparent contact. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3764-3772	7.1	15
117	Fabrication and electrical study of large area free-standing membrane with embedded GaP NWs for flexible devices. 2020 , 31, 46LT01		6
116	Transfer-printed micro-LED and polymer-based transceiver for visible light communications. <i>Optics Express</i> , 2018 , 26, 31474-31483	3.3	14
115	Transfer printing of vertical-type microscale light-emitting diode array onto flexible substrate using biomimetic stamp. <i>Optics Express</i> , 2019 , 27, 6832-6841	3.3	7
114	Direct integration of micro-LEDs and a SPAD detector on a silicon CMOS chip for data communications and time-of-flight ranging. <i>Optics Express</i> , 2020 , 28, 6909-6917	3.3	11
113	Flexible and stretchable inorganic optoelectronics. 2019 , 9, 4023		26
112	Direct writing of flexible electronics through room temperature liquid metal ink. 2012, 7, e45485		124
111	MPTMS Treated Au/PDMS Membrane for Flexible and Stretchable Strain Sensors. 2016 , 25, 247-251		1
110	Review on stretchable and flexible inorganic electronics. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 014	20.6	8
109	Structures and Materials in Stretchable Electroluminescent Devices. 2021 , e2106184		6
108	Solution-based, additive fabrication of flush metal conductors in plastic substrates by printing and plating in two-level capillary channels. <i>Flexible and Printed Electronics</i> , 2021 , 6, 045005	3.1	
107	A Locally Actuatable Soft Robotic Film for Actively Reconfiguring Shapes of Flexible Electronics. 2021 ,		1
106	Batch Transfer Printing of Small-Size Silicon Nano-Films with Flat Stamp. <i>Micromachines</i> , 2021 , 12,	3.3	0
105	Optical and electrical characterizations of micro-LEDs grown on lower defect density epitaxial layers. 2021 , 119, 142103		2
104	Self-alignment Method on a Temperature-Controlled Transfer. 2010 , 130, 188-193		
103	Flexible LEDs to boost biomedicine. <i>Nature</i> ,	50.4	
102	Nanofabricated Systems: Combined to Function. 333-357		
101	Nanofabrication Techniques and Their Applications to Terahertz Science and Technology. 2012 , 147-16	2	

Flexible and tunable silicon photonic devices. 2012, 100 7 3-D Flexible Glass Photonics. 2013, 99 Technology of Flexible Semiconductor/Memory Device. 2013, 20, 1-9 98 3 Flexibility Study of Silicon Thin Film Transferred on Flexible Substrate. 2013, 20, 23-29 97 Fabrication of Nanowires and Their Applications. 2014, 89-128 96 Recent Progress in Flexible/Wearable Electronics. 2014, 32, 34-42 95 94 Flexible Micro/Nano-lasers and Compact Optical Curvature Sensors. 2015, 387-401 Evaluation for Adhesion Characteristics of UV-curable Bump Shape Stamp for Transfer Process. 93 Journal of the Korean Society of Tribologists and Lubrication Engineers, 2016, 32, 75-81 Conformal Peeling. 2019, 165-200 92 Physico-chemical properties and application of the conductive organic polymer poly-3,4 91 1 ethylenedioxythiophene-polystyrol sulfona. Surface, 2019, 11(26), 414-435 Inter-layer light transition in hybrid III-V/Si waveguides integrated by μ -transfer printing. Optics 90 2 3.3 Express, 2020, 28, 19772-19782 Plane Position Measurement for \$mu text{LED}\$ Based on Single Camera. 2021, 89 Nature inspired emerging sensing technology: Recent progress and perspectives. Materials Science 88 30.9 3 and Engineering Reports, 2021, 146, 100647 Modified silicone rubbers for fabrication and contacting of flexible suspended membranes of n-/p-GaP nanowires with single-walled carbon nanotube transparent contact. Journal of Physics: 87 0.3 Conference Series, **2020**, 1695, 012010 Commercialization of the Crystal LED Display System Using Micro LEDs to Realize Scalable and High-Quality Images. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and 86 O Television Engineers, **2020**, 74, 174-179 A review of key technologies for epitaxy and chip process of micro light-emitting diodes in display 85 0.6 application. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 198501 A wireless, implantable optoelectrochemical probe for optogenetic stimulation and dopamine 84 detection. Theoretical Modeling of Conformal Criterion for Flexible Electronics Attached onto Complex 83 Surface. Journal of Applied Mechanics, Transactions ASME, 1-10

82	Research Progress of Microtransfer Printing Technology for Flexible Electronic Integrated Manufacturing. <i>Micromachines</i> , 2021 , 12,	3.3	O
81	Switchable dry adhesive based on shape memory polymer with hemispherical indenters for transfer printing. <i>Theoretical and Applied Mechanics Letters</i> , 2021 , 100308	1.8	3
80	BaTiO3-based nanogenerators: fundamentals and current status. Journal of Electroceramics, 1	1.5	2
79	A novel thermal-mechanical model and the characteristics of interfacial stress in the laminated structure for flexible electronics. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 074004	3	O
78	Highly precise measurement of depth for ILED based on single camera. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 189, 110439	4.6	
77	Advanced Epitaxial Growth of LEDs on Van Der Waals Materials. <i>Series in Display Science and Technology</i> , 2021 , 87-114	0.1	
76	Flexible and Stretchable Micro-LED Display. Series in Display Science and Technology, 2021, 141-160	0.1	
75	Light-material interfaces for self-powered optoelectronics. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 25694-25705	13	O
74	Stretchable Inorganic LED Displays with Double-Layer Modular Design for High Fill Factor ACS Applied Materials & Samp; Interfaces, 2022,	9.5	5
73	Rapid predictions of the colour purity of luminescent organic molecules. <i>Journal of Materials Chemistry C</i> ,	7.1	2
72	Printing thermoelectric inks toward next-generation energy and thermal devices. <i>Chemical Society Reviews</i> , 2021 ,	58.5	6
71	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges <i>Chemical Reviews</i> , 2022 ,	68.1	28
70	Spectral-temporal luminescence properties of Colloidal CdSe/ZnS Quantum Dots in relevant polymer matrices for integration in low turn-on voltage AC-driven LEDs <i>Optics Express</i> , 2022 , 30, 1056	63 ³ 1ð57	72 ¹
69	Highly Thin Film with Aerosol-Deposited Perovskite Quantum Dot/Metal Oxide Composite for Perfect Color Conversion and Luminance Enhancement. SSRN Electronic Journal,	1	
68	InGaN-Based Orange-Red Resonant Cavity Light-Emitting Diodes. <i>Journal of Lightwave Technology</i> , 2022 , 1-1	4	
67	Origin of the anisotropic-strain-driven photoresponse enhancement in inorganic halide-based self-powered flexible photodetectors <i>Materials Horizons</i> , 2022 ,	14.4	2
66	Auxetic Meta-Display: Stretchable Display without Image Distortion. Advanced Functional Materials, 21	132599	7
65	Planar segmentation for curved surface plasmon resonance. 2022,		

64	Thermal release tape-assisted semiconductor membrane transfer process for hybrid photonic devices embedding quantum emitters. <i>Materials for Quantum Technology</i> ,		1
63	Charge-Density-Wave Thin-Film Devices Printed with Chemically Exfoliated 1T-TaS Ink <i>ACS Nano</i> , 2022 ,	16.7	2
62	High-brightness all-polymer stretchable LED with charge-trapping dilution <i>Nature</i> , 2022 , 603, 624-630	50.4	24
61	Wafer-scale monolithic integration of full-colour micro-LED display using MoS transistor <i>Nature Nanotechnology</i> , 2022 ,	28.7	17
60	Recent Progress in Micro-LED-Based Display Technologies. Laser and Photonics Reviews, 2100427	8.3	6
59	Highly thin film with aerosol-deposited perovskite quantum dot/metal oxide composite for perfect color conversion and luminance enhancement. <i>Chemical Engineering Journal</i> , 2022 , 441, 135991	14.7	
58	Micro-Light-Emitting Diodes Based on InGaN Materials with Quantum Dots. <i>Advanced Materials Technologies</i> , 2101189	6.8	2
57	Bright Stretchable White Alternating-Current Electroluminescent Devices Enabled by Photoluminescent Phosphor. <i>Advanced Materials Technologies</i> , 2101440	6.8	1
56	Wafer-scale integration of stretchable semiconducting polymer microstructures via capillary gradient. <i>Nature Communications</i> , 2021 , 12, 7038	17.4	4
55	Image_1.pdf. 2019 ,		
55 54	Image_1.pdf. 2019, One-dimensional van der Waals quantum materials. <i>Materials Today</i> , 2022,	21.8	8
		21.8	8
54	One-dimensional van der Waals quantum materials. <i>Materials Today</i> , 2022 , Stretchable inkjet-printed electronics on mechanically compliant island-bridge architectures		Ο
54	One-dimensional van der Waals quantum materials. <i>Materials Today</i> , 2022 , Stretchable inkjet-printed electronics on mechanically compliant island-bridge architectures covalently bonded to elastomeric substrates. <i>Flexible and Printed Electronics</i> , 2022 , 7, 025007 Brightness-enhanced electroluminescence driven by triboelectric nanogenerators through	3.1	0
54 53 52	One-dimensional van der Waals quantum materials. <i>Materials Today</i> , 2022 , Stretchable inkjet-printed electronics on mechanically compliant island-bridge architectures covalently bonded to elastomeric substrates. <i>Flexible and Printed Electronics</i> , 2022 , 7, 025007 Brightness-enhanced electroluminescence driven by triboelectric nanogenerators through permittivity manipulation and impedance matching. <i>Nano Energy</i> , 2022 , 98, 107308	3.1	2
54 53 52 51	One-dimensional van der Waals quantum materials. <i>Materials Today</i> , 2022 , Stretchable inkjet-printed electronics on mechanically compliant island-bridge architectures covalently bonded to elastomeric substrates. <i>Flexible and Printed Electronics</i> , 2022 , 7, 025007 Brightness-enhanced electroluminescence driven by triboelectric nanogenerators through permittivity manipulation and impedance matching. <i>Nano Energy</i> , 2022 , 98, 107308 Material and Design Strategies for Stretchable Electroluminescent Devices. <i>Nanoscale Horizons</i> , Evolutionary Generation of Phosphor Materials and Their Progress in Future Applications for	3.1 17.1 10.8	0 2 1 15
54 53 52 51 50	One-dimensional van der Waals quantum materials. <i>Materials Today</i> , 2022, Stretchable inkjet-printed electronics on mechanically compliant island-bridge architectures covalently bonded to elastomeric substrates. <i>Flexible and Printed Electronics</i> , 2022, 7, 025007 Brightness-enhanced electroluminescence driven by triboelectric nanogenerators through permittivity manipulation and impedance matching. <i>Nano Energy</i> , 2022, 98, 107308 Material and Design Strategies for Stretchable Electroluminescent Devices. <i>Nanoscale Horizons</i> , Evolutionary Generation of Phosphor Materials and Their Progress in Future Applications for Light-Emitting Diodes. <i>Chemical Reviews</i> , Recent progress in strain-engineered elastic platforms for stretchable thin-film devices. <i>Materials</i>	3.1 17.1 10.8 68.1	0 2 1 15

46	Large-scale programmable assembly of functional micro-components for advanced electronics via light-regulated adhesion and polymer growth. <i>Npj Flexible Electronics</i> , 2022 , 6,	10.7	3
45	Performance Improvement of Red InGaN Micro-LEDs by Transfer Printing from Si Substrate onto Glass Substrate. <i>IEEE Electron Device Letters</i> , 2022 , 1-1	4.4	2
44	Mass transfer, detection and repair technologies in micro-LED displays. <i>Science China Materials</i> , 2022 , 65, 2128-2153	7.1	О
43	41-1: Invited Paper: Technical Advances in Stretchable Displays for High Pixel Density and High Stretchability. <i>Digest of Technical Papers SID International Symposium</i> , 2022 , 53, 514-516	0.5	
42	Progress, Challenges, and Prospects of Soft Robotics for Space Applications. <i>Advanced Intelligent Systems</i> , 2200071	6	2
41	Technological breakthroughs in chip fabrication, transfer, and color conversion for high performance micro-LED display. 2204947		O
40	Emerging Electrochromic Materials and Devices for Future Displays.		7
39	Recent Advances in Stretchable and Wearable Capacitive Electrophysiological Sensors for Long-Term Health Monitoring. 2022 , 12, 630		1
38	Transfer Printed, Vertical GaN-on-Silicon Micro-LED Arrays With Individually Addressable Cathodes. 2022 , 69, 5630-5636		1
37	CHAPTER 10. Printed Electronics Applications: Microelectronic, Optoelectronic Devices and Displays. 2022 , 385-444		O
36	A multicolor tunable fiber with corefhultishell structure by electroluminescence-thermochromic mixing. 2022 , 10, 12582-12587		О
35	PixelEngineTM All-in-One: a Printable Pixel-Driver MicroIC with Three-Dimensionally Integrated Red, Green, and Blue MicroLEDs. 2022 , 1-11		O
34	An Alternative Micro LED Mass Transfer Technology: Self-Assembly. 2022,		О
33	Mass transfer techniques for large-scale and high-density microLED arrays.		O
32	Micro light-emitting diodes. 2022 , 5, 564-573		1
31	The Adhesive Force Measurement between Single IED and Substrate Based on Atomic Force Microscope. 2022 , 12, 9480		O
30	Flexible GaN-based microscale light-emitting diodes with a batch transfer by wet etching. 2022 , 47, 50.	52	1
29	Additive Manufacturing of a Micropatterned Stamp for Transfer Printing of Quantum Dots. 2021 , 34, 651-656		O

28	Monolithically Integrated High-resolution Full-color GaN-on-Si Micro-LED Micro-display.	О
27	Origin of the Inhomogeneous Electroluminescence of GaN-Based Green Mini-LEDs Unveiled by Microscopic Hyperspectral Imaging.	1
26	Laser-Based Micro/Nano-Processing Techniques for Microscale LEDs and Full-Color Displays. 2200949	О
25	Stretchable conductors for stretchable field-effect transistors and functional circuits.	O
24	Flexible photoplethysmographic sensing devices for intelligent medical treatment. 2022 , 11, 97-112	1
23	Advanced transfer printing with in-situ optical monitoring for the integration of micron-scale devices. 2022 , 1-12	O
22	Gallium Nitride Blue/Green Micro-LEDs for High Brightness and Transparency Display. 2022, 1-1	O
21	Investigation of InGaN-Based Green Micro-Photonic-Crystal- Light-Emitting-Diodes with Bottom, Nanoporous, Distributed Bragg Reflectors. 2022 , 9, 939	1
20	In-situ fabrication of benzoquinone crystal layer on the surface of nest-structural ionohydrogel for flexible All-in-One upercapattery. 2208443	О
19	Elastic single-walled carbon nanotubes pixel matrix electrodes for flexible optoelectronics. 2022 , 121, 243504	О
18	3D printing of micropatterned stamps with tunable horizontal surface properties.	0
17	Silicone Materials for Flexible Optoelectronic Devices. 2022 , 15, 8731	O
16	Flexible micro-LED display and its application in Gbps multi-channel visible light communication. 2022 , 6,	0
15	Integration Technology of Micro-LED for Next-generation Display.	O
14	Impact of Ga and N Vacancies at the GaN. 2023 , 19,	О
13	Freestanding Membranes for Unique Functionality in Electronics.	O
12	Ultrastretchable alternating current electroluminescent panels for arbitrary luminous patterns. 2023 , 31, 101764	0
11	Highly transparent and stretchable organic light-emitting diodes with ultrathin metal films as double electrodes. 2023 , 122, 051105	O

10	Advancements in Electronic Materials and Devices for Stretchable Displays. 2201067	0
9	Orthogonal Trichromatic Upconversion with High Color Purity in Core-Shell Nanoparticles for a Full-Color Display. 2023 , 62,	o
8	Orthogonal Trichromatic Upconversion with High Color Purity in Core-Shell Nanoparticles for a Full-Color Display. 2023 , 135,	0
7	The Effect of Pre-Stretched Substrate on the Electrical Resistance of Printed Ag Nanowires. 2023 , 13, 719	o
6	Ionization wave propagation of a surface dielectric barrier discharge with a flexible-structure plasma sheet. 2023 , 56, 165205	0
5	Synthesis and Characteristics of Transferrable Single-Crystalline AlN Nanomembranes. 2201309	O
4	Heterostructure Engineering of Solution-Processable Semiconductors for Wearable Optoelectronics.	0
3	Optical neuromodulation at all scales: from nanomaterials to wireless optoelectronics and integrated systems.	O
2	Promising Candidature of OLEDs, Mini LEDs & Dicro LEDs in the realm of AR/VR applications. 2022 ,	O
1	High-performance photodetection sensors based on (S2Ge)100 \mathbb{Z} (S3Sb2)x (x = 15, 30, 45, 60) system for optoelectronics applications. 2023 , 34,	O