Wen-Chang Chen

List of Publications by Year in Descending Order

438 papers	15,359 citations	65 h-index	95 g-index
458 ext. papers	16,686 ext. citations	6.3 avg, IF	6.88 L-index

#	Paper	IF	Citations
438	Low-Energy-Consumption and Electret-Free Photosynaptic Transistor Utilizing Poly(3-hexylthiophene)-Based Conjugated Block Copolymers.. *Advanced Science*, **2022**, e2105190	13.6	5
437	Self-Assembled Nanostructures of Quantum Dot/Conjugated Polymer Hybrids for Photonic Synaptic Transistors with Ultralow Energy Consumption and Zero-Gate Bias (Adv. Funct. Mater. 6/2022). *Advanced Functional Materials*, **2022**, 32, 2270037	15.6	
436	Hydrogel-based sustainable and stretchable field-effect transistors. *Organic Electronics*, **2022**, 100, 106358	3.8	0
435	Unraveling the Singlet Fission Effects on Charge Modulations of Organic Phototransistor Memory Devices. *ACS Applied Electronic Materials*, **2022**, 4, 1266-1276	4	0
434	Synthesis of a novel A-b-(B-co-C)-type terpolymer with a regioregular poly(3-hexylthiophene) segment and its application to intrinsically stretchable transistor memory. *Materials Chemistry and Physics*, **2022**, 281, 125911	4.4	0
433	Mechanically Tough and Durable Poly(siloxane imide) Network Elastomer for Stretchable Electronic Applications. *ACS Applied Polymer Materials*, **2022**, 4, 3498-3510	4.3	0
432	Intrinsically stretchable naphthalenediimide□bithiophene conjugated statistical terpolymers using branched conjugation break spacers for field□effect transistors. *Polymer Chemistry*, **2021**, 12, 6167-6178	4.9	3
431	Highly Efficient Photo-Induced Recovery Conferred Using Charge-Transfer Supramolecular Electrets in Bistable Photonic Transistor Memory (Adv. Funct. Mater. 40/2021). *Advanced Functional Materials*, **2021**, 31, 2170299	15.6	0
430	Realizing Nonvolatile Photomemories with Multilevel Memory Behaviors Using Water-Processable Polymer Dots-Based Hybrid Floating Gates. *ACS Applied Electronic Materials*, **2021**, 3, 1708-1718	4	8
429	Improving Mobility□Stretchability Properties of Polythiophene Derivatives through Ester-Substituted, Biaxially Extended Conjugated Side Chains. *ACS Applied Polymer Materials*, **2021**, 3, 1628-1637	4.3	6
428	Pyrene-Incorporated Side Chain in □Conjugated Polymers for Non-Volatile Transistor-Type Memory Devices with Improved Stretchability. *ACS Applied Polymer Materials*, **2021**, 3, 2109-2119	4.3	1
427	Comprehensive Non-volatile Photo-programming Transistor Memory via a Dual-Functional Perovskite-Based Floating Gate. *ACS Applied Materials & Interfaces*, **2021**, 13, 20417-20426	9.5	9
426	Poly(styrene)--Maltoheptaose Films for Sub-10 nm Pattern Transfer: Implications for Transistor Fabrication. *ACS Applied Nano Materials*, **2021**, 4, 5141-5151	5.6	4
425	Conception of a Smart Artificial Retina Based on a Dual-Mode Organic Sensing Inverter. *Advanced Science*, **2021**, 8, e2100742	13.6	11
424	Multilevel Photonic Transistor Memory Devices Based on 1D Electrospun Semiconducting Polymer /Perovskite Composite Nanofibers. *Advanced Materials Technologies*, **2021**, 6, 2100080	6.8	5
423	Highly Efficient Photo-Induced Recovery Conferred Using Charge-Transfer Supramolecular Electrets in Bistable Photonic Transistor Memory. *Advanced Functional Materials*, **2021**, 31, 2102174	15.6	11
422	Thermally Stable Colorless Copolyimides with a Low Dielectric Constant and Dissipation Factor and Their Organic Field-Effect Transistor Applications. *ACS Applied Polymer Materials*, **2021**, 3, 3153-3163	4.3	3

421	Fabricating efficient flexible organic photovoltaics using an eco-friendly cellulose nanofibers/silver nanowires conductive substrate. *Chemical Engineering Journal*, **2021**, 405, 126996	14.7	16
420	Enhancing Long-Term Thermal Stability of Non-Fullerene Organic Solar Cells Using Self-Assembly Amphiphilic Dendritic Block Copolymer Interlayers. *Advanced Functional Materials*, **2021**, 31, 2005753	15.6	16
419	Correlating the Molecular Structure of Polyimides with the Dielectric Constant and Dissipation Factor at a High Frequency of 10 GHz. *ACS Applied Polymer Materials*, **2021**, 3, 362-371	4.3	9
418	Improving the performance of photonic transistor memory devices using conjugated block copolymers as a floating gate. *Journal of Materials Chemistry C*, **2021**, 9, 1259-1268	7.1	10
417	Carbohydrate-attached fullerene derivative for selective localization in ordered carbohydrate-block-poly(3-hexylthiophene) nanodomains. *Carbohydrate Polymers*, **2021**, 255, 117528	10.3	2
416	Exploring the effect of the spacer structure in the heterocyclic ring-fused isoindigo-based conjugated polymer on the charge-transporting property. *Journal of Polymer Research*, **2021**, 28, 1	2.7	0
415	Improving the performance of all-inorganic perovskite light-emitting diodes through using polymeric interlayers with a pendant design. *Materials Chemistry Frontiers*, **2021**, 5, 7199-7207	7.8	0
414	Investigating the backbone conformation and configuration effects for donor–acceptor conjugated polymers with ladder-type structures synthesized through Aldol polycondensation. *Journal of Materials Chemistry C*, **2021**, 9, 9473-9483	7.1	2
413	Stretchable OFET Memories: Tuning the Morphology and the Charge-Trapping Ability of Conjugated Block Copolymers through Soft Segment Branching. *ACS Applied Materials & Interfaces*, **2021**, 13, 2932-2943	9.5	21
412	Solvent-Enhanced Transparent Stretchable Polymer Nanocomposite Electrode for Supercapacitors. *ACS Applied Energy Materials*, **2021**, 4, 2266-2274	6.1	9
411	High Performance Biomass-Based Polyimides for Flexible Electronic Applications. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 3278-3288	8.3	12
410	Modulation of the Hydrophilicity on Asymmetric Side Chains of Isoindigo-Based Polymers for Improving Carrier Mobility–Stretchability Properties. *Macromolecules*, **2021**, 54, 1665-1676	5.5	11
409	Stretchable Multicolor Emission of Polymer/Dye Blends Induced by Intermolecular Interaction and Solid-State Aggregation. *Macromolecular Chemistry and Physics*, **2021**, 222, 2000428	2.6	2
408	Investigation of the Mobility–Stretchability Properties of Naphthalenediimide-Based Conjugated Random Terpolymers with a Functionalized Conjugation Break Spacer. *Macromolecules*, **2021**, 54, 7388-7399	5.5	10
407	Functionalized Poly(phenylene ether) with high thermal stability as flexible dielectrics and substrates for organic field-effect transistors. *Organic Electronics*, **2021**, 96, 106225	3.5	2
406	Naphthalene-diimide-based all-conjugated block copolymer as an effective compatibilizer to improve the performance and thermal stability of all-polymer solar cells. *Materials Chemistry Frontiers*, **2021**, 5, 7216-7227	7.8	3
405	Metal–ligand Based Mechanophores Enhance Both Mechanical Robustness and Electronic Performance of Polymer Semiconductors. *Advanced Functional Materials*, **2021**, 31, 2009201	15.6	9
404	Green poly-lysine as electron-extraction modified layer with over 15% power conversion efficiency and its application in bio-based flexible organic solar cells. *Organic Electronics*, **2020**, 87, 105924	3.5	11

403	Eco-Friendly Polyfluorene/Poly(butylene succinate) Blends and Their Electronic Device Application on Biodegradable Substrates. *ACS Applied Polymer Materials*, **2020**, 2, 2469-2476	4.3	7
402	Study on Intrinsic Stretchability of Diketopyrrolopyrrole-Based Conjugated Copolymers with Poly(acryl amide) Side Chains for Organic Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2020**, 12, 33014-33027	9.5	31
401	Carbohydrates as Hard Segments for Sustainable Elastomers: Carbohydrates Direct the Self-Assembly and Mechanical Properties of Fully Bio-Based Block Copolymers. *Macromolecules*, **2020**, 53, 5408-5417	5.5	15
400	Thermally and Mechanically Stable Polyimides as Flexible Substrates for Organic Field-Effect Transistors. *ACS Applied Polymer Materials*, **2020**, 2, 3422-3432	4.3	18
399	Investigation of the Mobility–Stretchability Relationship of Ester-Substituted Polythiophene Derivatives. *Macromolecules*, **2020**, 53, 4968-4981	5.5	15
398	Morphology and properties of PEDOT:PSS/soft polymer blends through hydrogen bonding interaction and their pressure sensor application. *Journal of Materials Chemistry C*, **2020**, 8, 6013-6024	7.1	24
397	Environmentally Friendly Resistive Switching Memory Devices with DNA as the Active Layer and Bio-Based Polyethylene Furanoate as the Substrate. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5100-5106	8.3	14
396	Nano-Micro Dimensional Structures of Fiber-Shaped Luminous Halide Perovskite Composites for Photonic and Optoelectronic Applications. *Macromolecular Rapid Communications*, **2020**, 41, e2000157	4.8	5
395	Development of Block Copolymers with Poly(3-hexylthiophene) Segments as Compatibilizers in Non-Fullerene Organic Solar Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 12083-12092	9.5	15
394	Biaxially-extended side-chain engineering of benzodithiophene-based conjugated polymers and their applications in polymer solar cells. *Organic Electronics*, **2020**, 79, 105630	3.5	10
393	Structure–Mobility Relationship of Benzodithiophene-Based Conjugated Polymers with Varied Biaxially Extended Conjugated Side Chains. *Industrial & Engineering Chemistry Research*, **2020**, 59, 9105-9115	3.9	9
392	Improving the Performance and Stability of Perovskite Light-Emitting Diodes by a Polymeric Nanothick Interlayer-Assisted Grain Control Process. *ACS Omega*, **2020**, 5, 8972-8981	3.9	13
391	An intrinsically stretchable and ultrasensitive nanofiber-based resistive pressure sensor for wearable electronics. *Journal of Materials Chemistry C*, **2020**, 8, 5361-5369	7.1	19
390	Nanostructure- and Orientation-Controlled Resistive Memory Behaviors of Carbohydrate--Polystyrene with Different Molecular Weights via Solvent Annealing. *ACS Applied Materials & Interfaces*, **2020**, 12, 23217-23224	9.5	8
389	Electrospinning-induced elastomeric properties of conjugated polymers for extremely stretchable nanofibers and rubbery optoelectronics. *Journal of Materials Chemistry C*, **2020**, 8, 873-882	7.1	20
388	Organic-Inorganic Nanocomposite Film for High-Performance Stretchable Resistive Memory Device. *Macromolecular Rapid Communications*, **2020**, 41, e1900542	4.8	16
387	Inducing Molecular Aggregation of Polymer Semiconductors in a Secondary Insulating Polymer Matrix to Enhance Charge Transport. *Chemistry of Materials*, **2020**, 32, 897-905	9.6	25
386	Competing Molecular Packing of Blocks in a Lamella-Forming Carbohydrate-block-poly(3-hexylthiophene) Copolymer. *Macromolecules*, **2020**, 53, 9054-9064	5.5	6

385	Highly Stretchable Semiconducting Polymers for Field-Effect Transistors through Branched Soft□Hard□Soft Type Triblock Copolymers. *Macromolecules*, **2020**, 53, 7496-7510	5.5	17
384	Recent advance in renewable materials and green processes for optoelectronic applications. *Materials Today Sustainability*, **2020**, 11-12, 100057	5	2
383	One-dimensional micro-scale patterned conjugated polymer structures in bilayer architecture and light emitting diode application. *Organic Electronics*, **2020**, 87, 105965	3.5	2
382	High-Performance Nonvolatile Organic Photonic Transistor Memory Devices using Conjugated Rod-Coil Materials as a Floating Gate. *Advanced Materials*, **2020**, 32, e2002638	24	34
381	Two-Dimensional CsPb(SCN)Br-Based Photomemory Devices Showing a Photoinduced Recovery Behavior and an Unusual Fully Optically Driven Memory Behavior. *ACS Applied Materials & Interfaces*, **2020**, 12, 36398-36408	9.5	22
380	High Mobility Preservation of Near Amorphous Conjugated Polymers in the Stretched States Enabled by Biaxially-Extended Conjugated Side-Chain Design. *Chemistry of Materials*, **2020**, 32, 7370-7382	9.6	27
379	Backbone Engineering of Diketopyrrolopyrrole-Based Conjugated Polymers through Random Terpolymerization for Improved Mobility-Stretchability Property. *ACS Applied Materials & Interfaces*, **2020**, 12, 50648-50659	9.5	20
378	An ultra heat-resistant polyimide formulated with photo-base generator for alkaline-developable, negative-type photoresist. *Reactive and Functional Polymers*, **2020**, 157, 104760	4.6	3
377	Alkaline-developable and negative-type photosensitive polyimide with high sensitivity and excellent mechanical properties using photo-base generator. *Journal of Polymer Science*, **2020**, 58, 2366-2375	3.4	3
376	Improving Performance of Nonvolatile Perovskite-Based Photomemory by Size Restrain of Perovskites Nanocrystals in the Hybrid Floating Gate. *Advanced Electronic Materials*, **2020**, 6, 2000458	6.4	14
375	Solvent Effects on Morphology and Electrical Properties of Poly(3-hexylthiophene) Electrospun Nanofibers. *Polymers*, **2019**, 11,	4.5	7
374	Effect of a conjugated/elastic block sequence on the morphology and electronic properties of polythiophene based stretchable block copolymers. *Polymer Chemistry*, **2019**, 10, 5452-5464	4.9	21
373	Stretchable and Ambient Stable Perovskite/Polymer Luminous Hybrid Nanofibers of Multicolor Fiber Mats and Their White LED Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 23605-23615	9.5	37
372	Tailoring Carbosilane Side Chains toward Intrinsically Stretchable Semiconducting Polymers. *Macromolecules*, **2019**, 52, 4396-4404	5.5	41
371	A compatible and crosslinked poly(2-allyl-6-methylphenol-co-2,6-dimethylphenol)/polystyrene blend for insulating adhesive film at high frequency. *Journal of Applied Polymer Science*, **2019**, 136, 47828	2.9	4
370	Donor-Acceptor Core-Shell Nanoparticles and Their Application in Non-Volatile Transistor Memory Devices. *Macromolecular Rapid Communications*, **2019**, 40, e1900115	4.8	9
369	A rapid and green method for the fabrication of conductive hydrogels and their applications in stretchable supercapacitors. *Journal of Power Sources*, **2019**, 426, 205-215	8.9	50
368	Enhancing performance of nonvolatile transistor memories via electron-accepting composition in triphenylamine-based random copolymers. *Journal of Polymer Science Part A*, **2019**, 57, 1113-1121	2.5	8

367	Intrinsically stretchable isoindigoBithiophene conjugated copolymers using poly(acrylate amide) side chains for organic field-effect transistors. *Polymer Chemistry*, **2019**, 10, 5172-5183	4.9	23
366	Asymmetric Side-Chain Engineering of Isoindigo-Based Polymers for Improved Stretchability and Applications in Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2019**, 11, 34158-34170	9.5	35
365	Multilevel Photonic Transistor Memory Devices Using Conjugated/Insulated Polymer Blend Electrets. *ACS Applied Materials & Interfaces*, **2019**, 11, 42429-42437	9.5	30
364	Robust Sub-10 nm Pattern of Standing Sugar Cylinders via Rapid Microwave Cooking *Macromolecules*, **2019**, 52, 8751-8758	5.5	6
363	Synthesis of poly(o-cresol) by oxidative coupling polymerization of o-cresol. *Journal of Polymer Science Part A*, **2019**, 57, 878-884	2.5	3
362	The green poly-lysine enantiomers as electron-extraction layers for high performance organic photovoltaics. *Journal of Materials Chemistry C*, **2019**, 7, 12572-12579	7.1	12
361	Fabrication and Application of Highly Stretchable Conductive Fiber-Based Electrode of Epoxy/NBR Electrospun Fibers Spray-Coated with AgNW/PU Composites. *Macromolecular Chemistry and Physics* , **2019**, 220, 1800387	2.6	13
360	S,N-Heteroacene-Based Copolymers for Highly Efficient Organic Field Effect Transistors and Organic Solar Cells: Critical Impact of Aromatic Subunits in the Ladder System. *ACS Applied Materials & Interfaces*, **2018**, 10, 6471-6483	9.5	19
359	A star polymer with a metallo-phthalocyanine core as a tunable charge storage material for nonvolatile transistor memory devices. *Journal of Materials Chemistry C*, **2018**, 6, 2724-2732	7.1	26
358	A cross-disciplinary overview of naturally derived materials for electrochemical energy storage. *Materials Today Energy*, **2018**, 7, 58-79	7	34
357	Mechanically robust, stretchable organic solar cells via buckle-on-elastomer strategy. *Organic Electronics*, **2018**, 53, 339-345	3.5	25
356	Synthesis and characterization of poly(2,6-dialkoxy-1,5-naphthylene)s with low dielectric constants. *Polymer Journal*, **2018**, 50, 277-280	2.7	8
355	Uniform Luminous Perovskite Nanofibers with Color-Tunability and Improved Stability Prepared by One-Step Core/Shell Electrospinning. *Small*, **2018**, 14, e1704379	11	68
354	Synthesis of block copolymers comprised of poly(3-hexylthiophene) segment with trisiloxane side chains and their application to organic thin film transistor. *Journal of Polymer Science Part A*, **2018**, 56, 1787-1794	2.5	16
353	Bio-Based Transparent Conductive Film Consisting of Polyethylene Furanoate and Silver Nanowires for Flexible Optoelectronic Devices. *Macromolecular Rapid Communications*, **2018**, 39, e1800271	4.8	29
352	Realization of Intrinsically Stretchable Organic Solar Cells Enabled by Charge-Extraction Layer and Photoactive Material Engineering. *ACS Applied Materials & Interfaces*, **2018**, 10, 21712-21720	9.5	36
351	Efficient and UV-stable perovskite solar cells enabled by side chain-engineered polymeric hole-transporting layers. *Journal of Materials Chemistry A*, **2018**, 6, 12999-13004	13	36
350	Control over Molecular Architectures of Carbohydrate-Based Block Copolymers for Stretchable Electrical Memory Devices. *Macromolecules*, **2018**, 51, 4966-4975	5.5	23

349	Advances and challenges of green materials for electronics and energy storage applications: from design to end-of-life recovery. *Journal of Materials Chemistry A*, **2018**, 6, 20546-20563	13	65
348	Alcohol-Soluble Cross-Linked Poly(nBA) - b-Poly(NVTri) Block Copolymer and Its Applications in Organic Photovoltaic Cells for Improved Stability. *ACS Applied Materials & Interfaces*, **2018**, 10, 44741-44750	9.5	8
347	Blends of polythiophene nanowire/fluorine rubber with multiscale phase separation suitable for stretchable semiconductors. *Polymer*, **2018**, 155, 146-151	3.9	16
346	Intrinsically stretchable, solution-processable functional poly(siloxane-imide)s for stretchable resistive memory applications. *Polymer Chemistry*, **2018**, 9, 5145-5154	4.9	19
345	Interlayer Modification Using Eco-friendly Glucose-Based Natural Polymers in Polymer Solar Cells. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14621-14630	8.3	29
344	Influence of polymeric electrets on the performance of derived hybrid perovskite-based photo-memory devices. *Nanoscale*, **2018**, 10, 18869-18877	7.7	40
343	A Robust, Air-Stable and Recyclable Hydrogel Toward Stretchable Electronic Device Applications. *Macromolecular Materials and Engineering*, **2018**, 303, 1800282	3.9	5
342	Electrospun Nanofibers: Uniform Luminous Perovskite Nanofibers with Color-Tunability and Improved Stability Prepared by One-Step Core/Shell Electrospinning (Small 22/2018). *Small*, **2018**, 14, 1870103	11	2
341	High-performance ternary polymer solar cells using wide-bandgap biaxially extended octithiophene-based conjugated polymers. *Journal of Materials Chemistry C*, **2018**, 6, 6920-6928	7.1	15
340	Enhanced Charge Transport and Stability Conferred by Iron(III)-Coordination in a Conjugated Polymer Thin-Film Transistors. *Advanced Electronic Materials*, **2018**, 4, 1800239	6.4	9
339	Unraveling the stress effects on the optical properties of stretchable rod-coil polyfluorene-poly(n-butyl acrylate) block copolymer thin films. *Polymer Chemistry*, **2018**, 9, 3820-3831	4.9	19
338	Stretchable Fluorescent Polyfluorene/Acrylonitrile Butadiene Rubber Blend Electrospun Fibers through Physical Interaction and Geometrical Confinement. *Macromolecular Rapid Communications*, **2018**, 39, 1700616	4.8	10
337	All-conjugated donor–acceptor graft/block copolymers as single active components and surfactants in all-polymer solar cells. *Microsystem Technologies*, **2017**, 23, 1183-1189	1.7	5
336	n-Type Doped Conjugated Polymer for Nonvolatile Memory. *Advanced Materials*, **2017**, 29, 1605166	24	47
335	Highly Reliable and Sensitive Tactile Transistor Memory. *Advanced Electronic Materials*, **2017**, 3, 1600548	6.4	15
334	Stretchable Conjugated Rod–Coil Poly(3-hexylthiophene)-block-poly(butyl acrylate) Thin Films for Field Effect Transistor Applications. *Macromolecules*, **2017**, 50, 1442-1452	5.5	63
333	Conception of Stretchable Resistive Memory Devices Based on Nanostructure-Controlled Carbohydrate-block-Polyisoprene Block Copolymers. *Advanced Functional Materials*, **2017**, 27, 1606161	15.6	55
332	Low-temperature electrodeposited crystalline SnO2 as an efficient electron-transporting layer for conventional perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2017**, 164, 47-55	6.4	57

331	RGB-Switchable Porous Electrospun Nanofiber Chemoprobe-Filter Prepared from Multifunctional Copolymers for Versatile Sensing of pH and Heavy Metals. *ACS Applied Materials & Interfaces*, **2017**, 9, 16381-16396	9.5	42
330	Nonvolatile Perovskite-Based Photomemory with a Multilevel Memory Behavior. *Advanced Materials*, **2017**, 29, 1702217	24	87
329	Enhancing the Mechanical Durability of an Organic Field Effect Transistor through a Fluoroelastomer Substrate with a Crosslinking-Induced Self-Wrinkled Structure. *Advanced Electronic Materials*, **2017**, 3, 1600477	6.4	18
328	High-performance, robust, stretchable organic photovoltaics using commercially available tape as a deformable substrate. *Solar Energy Materials and Solar Cells*, **2017**, 165, 111-118	6.4	22
327	Effects of Molecular Structure and Packing Order on the Stretchability of Semicrystalline Conjugated Poly(Tetrathienoacene-diketopyrrolopyrrole) Polymers. *Advanced Electronic Materials*, **2017**, 3, 1600311	6.4	66
326	A Redox-Based Resistive Switching Memory Device Consisting of Organic–Inorganic Hybrid Perovskite/Polymer Composite Thin Film. *Advanced Electronic Materials*, **2017**, 3, 1700344	6.4	52
325	Carbohydrate-Based Block Copolymer Thin Films: Ultrafast Nano-Organization with 7 nm Resolution Using Microwave Energy. *Advanced Materials*, **2017**, 29, 1701645	24	26
324	Intrinsically Stretchable Nanostructured Silver Electrodes for Realizing Efficient Strain Sensors and Stretchable Organic Photovoltaics. *ACS Applied Materials & Interfaces*, **2017**, 9, 27853-27862	9.5	24
323	Multi-state memristive behavior in a light-emitting electrochemical cell. *Journal of Materials Chemistry C*, **2017**, 5, 11421-11428	7.1	4
322	Soft Poly(butyl acrylate) Side Chains toward Intrinsically Stretchable Polymeric Semiconductors for Field-Effect Transistor Applications. *Macromolecules*, **2017**, 50, 4982-4992	5.5	69
321	Stretchable Polymer Dielectrics for Low-Voltage-Driven Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2017**, 9, 25522-25532	9.5	61
320	Renewable polymeric materials for electronic applications. *Polymer Journal*, **2017**, 49, 61-73	2.7	28
319	A stable, efficient textile-based flexible perovskite solar cell with improved washable and deployable capabilities for wearable device applications. *RSC Advances*, **2017**, 7, 54361-54368	3.7	35
318	Crosslinked copolymer with low dielectric constant and dissipation factor based on poly(2,6-Dimethylphenol-co-2,6-Diphenylphenol) and a crosslinker. *Journal of Polymer Science Part A*, **2016**, 54, 3218-3223	2.5	11
317	High-performance stretchable resistive memories using donor–acceptor block copolymers with fluorene rods and pendent isoindigo coils. *NPG Asia Materials*, **2016**, 8, e298-e298	10.3	36
316	Crosslinkable high dielectric constant polymer dielectrics for low voltage organic field-effect transistor memory devices. *Journal of Polymer Science Part A*, **2016**, 54, 3224-3236	2.5	9
315	Isoindigo-Based Semiconducting Polymers Using Carbosilane Side Chains for High Performance Stretchable Field-Effect Transistors. *Macromolecules*, **2016**, 49, 8540-8548	5.5	64
314	High Performance Transparent Transistor Memory Devices Using Nano-Floating Gate of Polymer/ZnO Nanocomposites. *Scientific Reports*, **2016**, 6, 20129	4.9	60

313	Transparent deoxyribonucleic acid substrate with high mechanical strength for flexible and biocompatible organic resistive memory devices. *Chemical Communications*, **2016**, 52, 13463-13466	5.8	20
312	Synthesis and FET characterization of novel ambipolar and low-bandgap naphthalene-diimide-based semiconducting polymers. *Journal of Polymer Science Part A*, **2016**, 54, 359-367	2.5	8
311	Manipulation of electrical characteristics of non-volatile transistor-type memory devices through the acceptor strength of donor–acceptor conjugated copolymers. *Journal of Materials Chemistry C*, **2016**, 4, 5702-5708	7.1	15
310	Low voltage operation of non-volatile flexible OFET memory devices using high- k P(VDF-TrFE) gate dielectric and polyimide charge storage layer. *Reactive and Functional Polymers*, **2016**, 108, 39-46	4.6	19
309	Structural details and digital memory performances of difluorene-containing diblock copolymers in nanoscale thin films. *European Polymer Journal*, **2016**, 81, 582-597	5.2	2
308	Biaxially extended thiophene–isoindigo donor–acceptor conjugated polymers for high-performance flexible field-effect transistors. *Polymer Chemistry*, **2016**, 7, 4378-4392	4.9	10
307	Novel highly sensitive and reversible electrospun nanofibrous chemosensor-filters composed of poly(HEMA-co-MNA) and bpy-F-bpy with metal-ion-modulated multicolor fluorescence emission. *Polymer Journal*, **2016**, 48, 439-449	2.7	15
306	Conjugated fluorene-moiety-containing pendant polymers for the dispersion of single-wall carbon nanotubes: polymer wrapping abilities and electrical properties. *Polymer Journal*, **2016**, 48, 421-429	2.7	4
305	Synthesis, morphology, and electrical memory application of oligosaccharide-based block copolymers with π-conjugated pyrene moieties and their supramolecules. *Polymer Chemistry*, **2016**, 7, 1249-1263	4.9	12
304	Triphenylamine-based luminogens and fluorescent polyimides: effects of functional groups and substituents on photophysical behaviors. *Polymer Chemistry*, **2016**, 7, 1569-1576	4.9	39
303	Donor–Acceptor Poly(3-hexylthiophene)-block-Pendent Poly(isoindigo) with Dual Roles of Charge Transporting and Storage Layer for High-Performance Transistor-Type Memory Applications. *Advanced Functional Materials*, **2016**, 26, 2695-2705	15.6	45
302	High Performance Nonvolatile Transistor Memories Utilizing Functional Polyimide-Based Supramolecular Electrets. *Chemistry - an Asian Journal*, **2016**, 11, 1631-40	4.5	10
301	Impact of Polystyrene Oligomer Side Chains on Naphthalene Diimide–Bithiophene Polymers as n-Type Semiconductors for Organic Field-Effect Transistors. *Advanced Functional Materials*, **2016**, 26, 1261-1270	15.6	29
300	Phthalocyanine-Cored Star-Shaped Polystyrene for Nano Floating Gate in Nonvolatile Organic Transistor Memory Device. *Advanced Electronic Materials*, **2016**, 2, 1500300	6.4	36
299	Non-volatile transistor memory devices using charge storage cross-linked core-shell nanoparticles. *Chemical Communications*, **2016**, 52, 7269-72	5.8	14
298	High-performance non-volatile transistor memory devices using charge-transfer supramolecular electrets. *Reactive and Functional Polymers*, **2016**, 108, 31-38	4.6	6
297	Electrospun Poly(3-hexylthiophene) Nanofibers with Highly Extended and Oriented Chains Through Secondary Electric Field for High-Performance Field-Effect Transistors. *Advanced Electronic Materials*, **2015**, 1, 1400028	6.4	24
296	Synthesis of monodispersed polystyrene–silver core–shell particles and their application in the fabrication of stretchable large-scale anisotropic conductive films. *Journal of Materials Chemistry C*, **2015**, 3, 3318-3328	7.1	19

295	Well-defined star-shaped donor-acceptor conjugated molecules for organic resistive memory devices. *Chemical Communications*, **2015**, 51, 14179-82	5.8	23
294	Nonvolatile memories using the electrets of conjugated rod-coil block copolymer and its nanocomposite with single wall carbon nanotubes. *Journal of Materials Chemistry C*, **2015**, 3, 551-558	7.1	20
293	A 1D Electrospun Nanofiber Channel for Organic Field-Effect Transistors Using a Donor/Acceptor Planar Heterojunction Architecture. *Advanced Materials Interfaces*, **2015**, 2, 1500054	4.6	6
292	Poly(3-hexylthiophene)/graphene composite-based aligned nanofibers for high-performance field effect transistors. *Journal of Materials Chemistry C*, **2015**, 3, 4290-4296	7.1	23
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