Antonio Facchetti

List of Publications by Year in Descending Order

528 papers	52,739 citations	116 h-index	216 g-index
568 ext. papers	57,319 ext. citations	13.2 avg, IF	8.11 L-index

#	Paper	IF	Citations
528	Processing–Structure–Performance Relationship in Organic Transistors: Experiments and Model. *Electronics (Switzerland)*, **2022**, 11, 197	2.6	0
527	Paper-based substrates for sustainable (opto)electronic devices **2022**, 339-390		0
526	Low-Temperature Thin-Film Combustion Synthesis of Metal-Oxide Semiconductors: Science and Technology **2022**, 159-184		
525	Transition metal-catalysed molecular n-doping of organic semiconductors. *Nature*, **2021**, 599, 67-73	50.4	40
524	Vertically Stacked Full Color Quantum Dots Phototransistor Arrays for High-Resolution and Enhanced Color-Selective Imaging. *Advanced Materials*, **2021**, e2106215	24	4
523	Flexible complementary circuits operating at sub-0.5 V via hybrid organic-inorganic electrolyte-gated transistors. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
522	Recent Advances in Multi-Layer Light-Emitting Heterostructure Transistors. *Small*, **2021**, 17, e2007661	11	7
521	A facile approach for significantly enhancing fluorescent gas sensing by oxygen plasma treatments. *Sensors and Actuators B: Chemical*, **2021**, 331, 129397	8.5	1
520	Porous Semiconducting Polymers Enable High-Performance Electrochemical Transistors. *Advanced Materials*, **2021**, 33, e2007041	24	23
519	Self-Assembled Nanodielectrics for Solution-Processed Top-Gate Amorphous IGZO Thin-Film Transistors. *ACS Applied Materials & Interfaces*, **2021**, 13, 15399-15408	9.5	8
518	Systematic Merging of Nonfullerene Acceptor Extension and Tetrafluorination Strategies Affords Polymer Solar Cells with >16% Efficiency. *Journal of the American Chemical Society*, **2021**, 143, 6123-6139	16.4	34
517	Molecular conformation-induced interfacial stress at the origin of the instability of organic transistors. *Science China Chemistry*, **2021**, 64, 1437-1438	7.9	
516	Doping Indium Oxide Films with Amino-Polymers of Varying Nitrogen Content Markedly Affects Charge Transport and Mechanical Flexibility. *Advanced Functional Materials*, **2021**, 31, 2100451	15.6	3
515	A Solution Processable Dithioalkyl Dithienothiophene (DSDTT) Based Small Molecule and Its Blends for High Performance Organic Field Effect Transistors. *ACS Nano*, **2021**, 15, 727-738	16.7	11
514	Ultraviolet Light-Densified Oxide-Organic Self-Assembled Dielectrics: Processing Thin-Film Transistors at Room Temperature. *ACS Applied Materials & Interfaces*, **2021**, 13, 3445-3453	9.5	4
513	22.1: Invited Paper: Active and Passive Organic Materials for Mechanically Flexible and Stable Transistors for Backplane Applications. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 143-143	0.5	
512	Processable High Electron Mobility Copolymers via Mesoscale Backbone Conformational Ordering. *Advanced Functional Materials*, **2021**, 31, 2009359	15.6	4

511	Foundry-compatible high-resolution patterning of vertically phase-separated semiconducting films for ultraflexible organic electronics. *Nature Communications*, **2021**, 12, 4937	17.4	4
510	New Opportunities for High-Performance Source-Gated Transistors Using Unconventional Materials. *Advanced Science*, **2021**, 8, e2101473	13.6	5
509	50.2: Invited Paper: Organic Materials for High-Performance and Flexible TFT Backplanes. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 608-608	0.5	0
508	Molecular Encapsulation of Naphthalene Diimide (NDI) Based Conjugated Polymers: A Tool for Understanding Photoluminescence. *Angewandte Chemie - International Edition*, **2021**, 60, 25005-25012	16.4	3
507	High-Efficiency All-Polymer Solar Cells with Poly-Small-Molecule Acceptors Having Extended Units with Broad Near-IR Absorption. *ACS Energy Letters*, **2021**, 6, 728-738	20.1	35
506	Dielectric materials for electrolyte gated transistor applications. *Journal of Materials Chemistry C*, **2021**, 9, 9348-9376	7.1	6
505	3D versus 2D Electrolyte Semiconductor Interfaces in Rylenediimide-Based Electron-Transporting Water-Gated Organic Field-Effect Transistors. *Advanced Electronic Materials*, **2020**, 6, 2000638	6.4	1
504	Fluorinating Extended Molecular Acceptors Yields Highly Connected Crystal Structures and Low Reorganization Energies for Efficient Solar Cells. *Advanced Energy Materials*, **2020**, 10, 2000635	21.8	45
503	Readily Accessible Benzo[d]thiazole Polymers for Nonfullerene Solar Cells with >16% Efficiency and Potential Pitfalls. *ACS Energy Letters*, **2020**, 5, 1780-1787	20.1	31
502	Flexible and stretchable metal´oxide nanofiber networks for multimodal and monolithically integrated wearable electronics. *Nature Communications*, **2020**, 11, 2405	17.4	73
501	High-Performance n-Type Polymer Semiconductors: Applications, Recent Development, and Challenges. *CheM*, **2020**, 6, 1310-1326	16.2	120
500	Frequency-Agile Low-Temperature Solution-Processed Alumina Dielectrics for Inorganic and Organic Electronics Enhanced by Fluoride Doping. *Journal of the American Chemical Society*, **2020**, 142, 12440-12452	16.4	14
499	Materials and Processes for Stretchable and Wearable e-Textile Devices **2020**, 305-334		1
498	Green solvents for organic thin-film transistor processing. *Journal of Materials Chemistry C*, **2020**, 8, 5786-5794	7.1	18
497	Breath figure-derived porous semiconducting films for organic electronics. *Science Advances*, **2020**, 6, eaaz1042	14.3	33
496	Cross-Plane Thermal Conductance of Phosphonate-Based Self-Assembled Monolayers and Self-Assembled Nanodielectrics. *ACS Applied Materials & Interfaces*, **2020**, 12, 34901-34909	9.5	1
495	Mixed-flow design for microfluidic printing of two-component polymer semiconductor systems. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 17551-17557	11.5	12
494	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSe-Organic van der Waals Heterostructures. *ACS Nano*, **2020**, 14, 3509-3518	16.7	12

493	Solution Processable Pseudo n-Thienoacenes via Intramolecular S□□S Lock for High Performance Organic Field Effect Transistors. *Chemistry of Materials*, **2020**, 32, 1422-1429	9.6	24
492	Engineering Intrinsic Flexibility in Polycrystalline Molecular Semiconductor Films by Grain Boundary Plasticization. *Journal of the American Chemical Society*, **2020**, 142, 5487-5492	16.4	15
491	Solution-Processable Quinoidal Dithioalkylterthiophene-Based Small Molecules Pseudo-Pentathienoacenes an Intramolecular S□□S Lock for High-Performance n-Type Organic Field-Effect Transistors. *ACS Applied Materials & Interfaces*, **2020**, 12, 25081-25091	9.5	16
490	Over 14% Efficiency Folding-Flexible ITO-free Organic Solar Cells Enabled by Eco-friendly Acid-Processed Electrodes. *IScience*, **2020**, 23, 100981	6.1	24
489	□Extended Naphthalene Diimide Derivatives for n-Type Semiconducting Polymers. *Chemistry of Materials*, **2020**, 32, 5317-5326	9.6	16
488	Processing Strategies for an Organic Photovoltaic Module with over 10% Efficiency. *Joule*, **2020**, 4, 189-2068	39.8	87
487	Structure□Charge Transport Relationships in Fluoride-Doped Amorphous Semiconducting Indium Oxide: Combined Experimental and Theoretical Analysis. *Chemistry of Materials*, **2020**, 32, 805-820	9.6	9
486	Crystallography, Morphology, Electronic Structure, and Transport in Non-Fullerene/Non-Indacenodithienothiophene Polymer:Y6 Solar Cells. *Journal of the American Chemical Society*, **2020**, 142, 14532-14547	16.4	120
485	Hole (donor) and electron (acceptor) transporting organic semiconductors for bulk-heterojunction solar cells. *EnergyChem*, **2020**, 2, 100042	36.9	25
484	Experimental and theoretical evidence for hydrogen doping in polymer solution-processed indium gallium oxide. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 18231-18239	11.5	16
483	Teaching an Old Anchoring Group New Tricks: Enabling Low-Cost, Eco-Friendly Hole-Transporting Materials for Efficient and Stable Perovskite Solar Cells. *Journal of the American Chemical Society*, **2020**, 142, 16632-16643	16.4	74
482	Printable Organic-Inorganic Nanoscale Multilayer Gate Dielectrics for Thin-Film Transistors Enabled by a Polymeric Organic Interlayer. *Advanced Functional Materials*, **2020**, 30, 2005069	15.6	7
481	Host-Free Deep-Blue Organic Light-Emitting Transistors Based on a Novel Fluorescent Emitter. *ACS Applied Materials & Interfaces*, **2020**, 12, 40558-40565	9.5	7
480	The journey of conducting polymers from discovery to application. *Nature Materials*, **2020**, 19, 922-928	27	124
479	Thienoisoindigo (TII)-Based Quinoidal Small Molecules for High-Performance n-Type Organic Field Effect Transistors. *Advanced Science*, **2020**, 8, 2002930	13.6	12
478	Building Blocks for High-Efficiency Organic Photovoltaics: Interplay of Molecular, Crystal, and Electronic Properties in Post-Fullerene ITIC Ensembles. *ChemPhysChem*, **2019**, 20, 2608-2626	3.2	29
477	Facile organic surfactant removal of various dimensionality nanomaterials using low-temperature photochemical treatment.. *RSC Advances*, **2019**, 9, 730-737	3.7	3
476	New Benzo[1,2-d:4,5-d?]bis([1,2,3]thiadiazole) (iso-BBT)-Based Polymers for Application in Transistors and Solar Cells. *Chemistry of Materials*, **2019**, 31, 6519-6529	9.6	14

475	Fluorination Effects on Indacenodithienothiophene Acceptor Packing and Electronic Structure, End-Group Redistribution, and Solar Cell Photovoltaic Response. *Journal of the American Chemical Society*, **2019**, 141, 3274-3287	16.4	226
474	High Electron Mobility in [1]Benzothieno[3,2-b][1]benzothiophene-Based Field-Effect Transistors: Toward n-Type BTBTs. *Chemistry of Materials*, **2019**, 31, 5254-5263	9.6	37
473	Recent Advances in Squaraine Dyes for Bulk-Heterojunction Organic Solar Cells. *Organic Photonics and Photovoltaics*, **2019**, 6, 1-16	5	7
472	Stable Postfullerene Solar Cells via Direct C–H Arylation Polymerization. Morphology–Performance Relationships. *Chemistry of Materials*, **2019**, 31, 4313-4321	9.6	24
471	Mechanically Flexible Conductors for Stretchable and Wearable E-Skin and E-Textile Devices. *Advanced Materials*, **2019**, 31, e1901408	24	193
470	Expeditious, scalable solution growth of metal oxide films by combustion blade coating for flexible electronics. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 9230-9238	11.5	25
469	Nano Pt-decorated transparent solution-processed oxide semiconductor sensor with ppm detection capability.. *RSC Advances*, **2019**, 9, 6193-6198	3.7	1
468	Effect of Backbone Regiochemistry on Conductivity, Charge Density, and Polaron Structure of n-Doped Donor-Acceptor Polymers. *Chemistry of Materials*, **2019**, 31, 3395-3406	9.6	31
467	Facial synthesis of highly active polymer vanadium molybdate nanocomposite: Improved thermoelectric and antimicrobial studies. *Journal of Physics and Chemistry of Solids*, **2019**, 131, 148-155	3.9	13
466	Combustion Synthesized Zinc Oxide Electron-Transport Layers for Efficient and Stable Perovskite Solar Cells. *Advanced Functional Materials*, **2019**, 29, 1900265	15.6	92
465	Ultrahigh Vacuum Self-Assembly of Rotationally Commensurate C8-BTBT/MoS2/Graphene Mixed-Dimensional Heterostructures. *Chemistry of Materials*, **2019**, 31, 1761-1766	9.6	13
464	Cinnamate-Functionalized Natural Carbohydrates as Photopatternable Gate Dielectrics for Organic Transistors. *Chemistry of Materials*, **2019**, 31, 7608-7617	9.6	14
463	Simultaneous Bottom-Up Interfacial and Bulk Defect Passivation in Highly Efficient Planar Perovskite Solar Cells using Nonconjugated Small-Molecule Electrolytes. *Advanced Materials*, **2019**, 31, e1903239	24	59
462	Photovoltaic Blend Microstructure for High Efficiency Post-Fullerene Solar Cells. To Tilt or Not To Tilt?. *Journal of the American Chemical Society*, **2019**, 141, 13410-13420	16.4	30
461	Marked Cofuel Tuning of Combustion Synthesis Pathways for Metal Oxide Semiconductor Films. *Advanced Electronic Materials*, **2019**, 5, 1900540	6.4	11
460	Controllable growth of LiMn2O4 by carbohydrate-assisted combustion synthesis for high performance Li-ion batteries. *Nano Energy*, **2019**, 64, 103936	17.1	28
459	Perovskite Solar Cells: Simultaneous Bottom-Up Interfacial and Bulk Defect Passivation in Highly Efficient Planar Perovskite Solar Cells using Nonconjugated Small-Molecule Electrolytes (Adv. Mater. 40/2019). *Advanced Materials*, **2019**, 31, 1970283	24	
458	Fluorine Tuning of Morphology, Energy Loss, and Carrier Dynamics in Perylenediimide Polymer Solar Cells. *ACS Energy Letters*, **2019**,	20.1	6

457	A Narrow-Bandgap n-Type Polymer Semiconductor Enabling Efficient All-Polymer Solar Cells. *Advanced Materials*, **2019**, 31, e1905161	24	76
456	A skin-like two-dimensionally pixelized full-color quantum dot photodetector. *Science Advances*, **2019**, 5, eaax8801	14.3	46
455	Molecular engineering of organic semiconductors enables noble metal-comparable SERS enhancement and sensitivity. *Nature Communications*, **2019**, 10, 5502	17.4	47
454	Polymersolarzellen: Fortschritt, Herausforderungen und Perspektiven. *Angewandte Chemie*, **2019**, 131, 4173-4186	3.6	24
453	All-Polymer Solar Cells: Recent Progress, Challenges, and Prospects. *Angewandte Chemie - International Edition*, **2019**, 58, 4129-4142	16.4	305
452	Oxide-Polymer Heterojunction Diodes with a Nanoscopic Phase-Separated Insulating Layer. *Nano Letters*, **2019**, 19, 471-476	11.5	7
451	Polymer Doping Enables a Two-Dimensional Electron Gas for High-Performance Homojunction Oxide Thin-Film Transistors. *Advanced Materials*, **2019**, 31, e1805082	24	31
450	Organic Thin-Film Transistors: Thiazole Imide-Based All-Acceptor Homopolymer: Achieving High-Performance Unipolar Electron Transport in Organic Thin-Film Transistors (Adv. Mater. 10/2018). *Advanced Materials*, **2018**, 30, 1870071	24	3
449	Direct Printing of Graphene Electrodes for High-Performance Organic Inverters. *ACS Applied Materials & Interfaces*, **2018**, 10, 15988-15995	9.5	11
448	Metal Composition and Polyethylenimine Doping Capacity Effects on Semiconducting Metal Oxide-Polymer Blend Charge Transport. *Journal of the American Chemical Society*, **2018**, 140, 5457-5473	16.4	29
447	Probing the density of trap states in the middle of the bandgap using ambipolar organic field-effect transistors. *Journal of Applied Physics*, **2018**, 123, 161574	2.5	1
446	Measuring Dipole Inversion in Self-Assembled Nano-Dielectric Molecular Layers. *ACS Applied Materials & Interfaces*, **2018**, 10, 6484-6490	9.5	4
445	Thiazole Imide-Based All-Acceptor Homopolymer: Achieving High-Performance Unipolar Electron Transport in Organic Thin-Film Transistors. *Advanced Materials*, **2018**, 30, 1705745	24	121
444	On the Molecular Origin of Charge Separation at the Donor□Acceptor Interface. *Advanced Energy Materials*, **2018**, 8, 1702232	21.8	45
443	Photoactive Blend Morphology Engineering through Systematically Tuning Aggregation in All-Polymer Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1702173	21.8	50
442	Novel unsymmetrical squaraine-based small molecules for organic solar cells. *Journal of Materials Chemistry C*, **2018**, 6, 847-854	7.1	18
441	Nitroacetylacetone as a Cofuel for the Combustion Synthesis of High-Performance Indium□Gallium□Zinc Oxide Transistors. *Chemistry of Materials*, **2018**, 30, 3323-3329	9.6	28
440	Naphthalenediimide (NDI) polymers for all-polymer photovoltaics. *Materials Today*, **2018**, 21, 377-390	21.8	118

439	Low-Loss Near-Infrared Hyperbolic Metamaterials with Epitaxial ITO-In2O3 Multilayers. *ACS Photonics*, **2018**, 5, 2000-2007	6.3	10
438	Enhancing Polymer Photovoltaic Performance via Optimized Intramolecular Ester-Based Noncovalent Sulfur□Oxygen Interactions. *Macromolecules*, **2018**, 51, 3874-3885	5.5	41
437	Corrugated Heterojunction Metal-Oxide Thin-Film Transistors with High Electron Mobility via Vertical Interface Manipulation. *Advanced Materials*, **2018**, 30, e1804120	24	47
436	Epitaxial Growth of □Cyclodextrin-Containing Metal-Organic Frameworks Based on a Host-Guest Strategy. *Journal of the American Chemical Society*, **2018**, 140, 11402-11407	16.4	27
435	Closely packed, low reorganization energy □extended postfullerene acceptors for efficient polymer solar cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E8341-E8348	11.5	85
434	Material insights and challenges for non-fullerene organic solar cells based on small molecular acceptors. *Nature Energy*, **2018**, 3, 720-731	62.3	580
433	Suppressing Defect Formation Pathways in the Direct C□H Arylation Polymerization of Photovoltaic Copolymers. *Macromolecules*, **2018**, 51, 9140-9155	5.5	30
432	Imide-Functionalized Thiazole-Based Polymer Semiconductors: Synthesis, Structure□Property Correlations, Charge Carrier Polarity, and Thin-Film Transistor Performance. *Chemistry of Materials*, **2018**, 30, 7988-8001	9.6	59
431	Organic Semiconductors for Transparent Electronics **2018**, 13-49		6
430	Across the Board: Antonio Facchetti. *ChemSusChem*, **2018**, 11, 3829-3833	8.3	1
429	Synergistic Boron Doping of Semiconductor and Dielectric Layers for High-Performance Metal Oxide Transistors: Interplay of Experiment and Theory. *Journal of the American Chemical Society*, **2018**, 140, 12501-12510	16.4	29
428	A Chemically Doped Naphthalenediimide-Bithiazole Polymer for n-Type Organic Thermoelectrics. *Advanced Materials*, **2018**, 30, e1801898	24	123
427	Hyperbolic Dispersion Arising from Anisotropic Excitons in Two-Dimensional Perovskites. *Physical Review Letters*, **2018**, 121, 127401	7.4	35
426	High-Quality Solution-Processed Metal-Oxide Gate Dielectrics Realized With a Photo-Activated Metal-Oxide Nanocluster Precursor. *IEEE Electron Device Letters*, **2018**, 39, 1668-1671	4.4	3
425	Performance, Morphology, and Charge Recombination Correlations in Ternary Squaraine Solar Cells. *Chemistry of Materials*, **2018**, 30, 6810-6820	9.6	13
424	High-performance organic circuits based on precisely aligned single-crystal arrays.. *RSC Advances*, **2018**, 8, 17417-17420	3.7	0
423	High- k Gate Dielectrics for Emerging Flexible and Stretchable Electronics. *Chemical Reviews*, **2018**, 118, 5690-5754	68.1	354
422	Presence of Short Intermolecular Contacts Screens for Kinetic Stability in Packing Polymorphs. *Journal of the American Chemical Society*, **2018**, 140, 7519-7525	16.4	21

421	Solution-Processed High-Performance Tetrathienothiophene-Based Small Molecular Blends for Ambipolar Charge Transport. *Advanced Functional Materials*, **2018**, 28, 1801025	15.6	21
420	Self-Assembled Photochromic Molecular Dipoles for High-Performance Polymer Thin-Film Transistors. *ACS Applied Materials & Interfaces*, **2018**, 10, 21492-21498	9.5	11
419	A Circuits and Systems Perspective of Organic/Printed Electronics: Review, Challenges, and Contemporary and Emerging Design Approaches. *IEEE Journal on Emerging and Selected Topics in Circuits and Systems*, **2017**, 7, 7-26	5.2	152
418	Electron Transport and Nanomorphology in Solution-Processed Polymeric Semiconductor n-Doped with an Air-Stable Organometallic Dimer. *Advanced Electronic Materials*, **2017**, 3, 1600546	6.4	13
417	Buta-1,3-diyne-Based □Conjugated Polymers for Organic Transistors and Solar Cells. *Macromolecules*, **2017**, 50, 1430-1441	5.5	37
416	New donor polymer with tetrafluorinated blocks for enhanced performance in perylenediimide-based solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 5351-5361	13	24
415	Ultrahigh Mobility in Solution-Processed Solid-State Electrolyte-Gated Transistors. *Advanced Materials*, **2017**, 29, 1605685	24	73
414	Alkynyl-Functionalized Head-to-Head Linkage Containing Bithiophene as a Weak Donor Unit for High-Performance Polymer Semiconductors. *Chemistry of Materials*, **2017**, 29, 4109-4121	9.6	27
413	Systematic evaluation of structure□property relationships in heteroacene □diketopyrrolopyrrole molecular donors for organic solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 9217-9232	13	26
412	Small Molecule Acceptor and Polymer Donor Crystallinity and Aggregation Effects on Microstructure Templating: Understanding Photovoltaic Response in Fullerene-Free Solar Cells. *Chemistry of Materials*, **2017**, 29, 4432-4444	9.6	58
411	Universal quinone electrodes for long cycle life aqueous rechargeable batteries. *Nature Materials*, **2017**, 16, 841-848	27	432
410	UV-Ozone Interfacial Modification in Organic Transistors for High-Sensitivity NO Detection. *Advanced Materials*, **2017**, 29, 1701706	24	92
409	Insights Into Interface Treatments in p-Channel Organic Thin-Film Transistors Based on a Novel Molecular Semiconductor. *IEEE Transactions on Electron Devices*, **2017**, 64, 2338-2344	2.9	7
408	Solution-Processable Dithienothiophenoquinoid (DTTQ) Structures for Ambient-Stable n-Channel Organic Field Effect Transistors. *Advanced Functional Materials*, **2017**, 27, 1606761	15.6	44
407	Guest Editorial Organic/Printed Electronics: A Circuits and Systems Perspective. *IEEE Journal on Emerging and Selected Topics in Circuits and Systems*, **2017**, 7, 1-6	5.2	8
406	Enhanced Efficiency of Hot-Cast Large-Area Planar Perovskite Solar Cells/Modules Having Controlled Chloride Incorporation. *Advanced Energy Materials*, **2017**, 7, 1601660	21.8	164
405	Lead Halide Perovskites as Charge Generation Layers for Electron Mobility Measurement in Organic Semiconductors. *ACS Applied Materials & Interfaces*, **2017**, 9, 42011-42019	9.5	4
404	Naphthalene Bis(4,8-diamino-1,5-dicarboxyl)amide Building Block for Semiconducting Polymers. *Journal of the American Chemical Society*, **2017**, 139, 14356-14359	16.4	30

403	Enhanced Fill Factor through Chalcogen Side-Chain Manipulation in Small-Molecule Photovoltaics. *ACS Energy Letters*, **2017**, 2, 2415-2421	20.1	15
402	Dithienylbenzodiimide: a new electron-deficient unit for n-type polymer semiconductors. *Journal of Materials Chemistry C*, **2017**, 5, 9559-9569	7.1	18
401	Low-Temperature Postfunctionalization of Highly Conductive Oxide Thin-Films toward Solution-Based Large-Scale Electronics. *ACS Applied Materials & Interfaces*, **2017**, 9, 26191-26200	9.5	22
400	Noncovalent Se□O Conformational Locks for Constructing High-Performing Optoelectronic Conjugated Polymers. *Advanced Materials*, **2017**, 29, 1606025	24	65
399	Synthesis and Properties of New N-Heteroheptacenes for Solution-Based Organic Field Effect Transistors. *Chemistry - A European Journal*, **2017**, 23, 12542-12549	4.8	13
398	Intramolecular Locked Dithioalkylbithiophene-Based Semiconductors for High-Performance Organic Field-Effect Transistors. *Advanced Materials*, **2017**, 29, 1702414	24	31
397	Nanostructured organic semiconductor films for molecular detection with surface-enhanced Raman spectroscopy. *Nature Materials*, **2017**, 16, 918-924	27	149
396	Even and odd oligothiophene-bridged bis-naphthalimides for n-type and ambipolar organic field effect transistors. *Journal of Materials Chemistry C*, **2017**, 5, 9439-9450	7.1	5
395	The Dipole Moment Inversion Effects in Self-Assembled Nanodielectrics for Organic Transistors. *Chemistry of Materials*, **2017**, 29, 9974-9980	9.6	15
394	Aggregation control in natural brush-printed conjugated polymer films and implications for enhancing charge transport. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E10066-E10073	11.5	97
393	Enhanced Light Absorption in Fluorinated Ternary Small-Molecule Photovoltaics. *ACS Energy Letters* , **2017**, 2, 1690-1697	20.1	30
392	Organic and Polymeric Semiconductors Enhanced by Noncovalent Conformational Locks. *Chemical Reviews*, **2017**, 117, 10291-10318	68.1	377
391	Naphthalenediimide Polymers with Finely Tuned In-Chain □Conjugation: Electronic Structure, Film Microstructure, and Charge Transport Properties. *Advanced Materials*, **2016**, 28, 9169-9174	24	49
390	Materials science: Polymers make charge flow easy. *Nature*, **2016**, 539, 499-500	50.4	4
389	Coulomb Enhanced Charge Transport in Semicrystalline Polymer Semiconductors. *Advanced Functional Materials*, **2016**, 26, 8011-8022	15.6	20
388	Annulated Thienyl-Vinylene-Thienyl Building Blocks for □Conjugated Copolymers: Ring Dimensions and Isomeric Structure Effects on □Conjugation Length and Charge Transport. *Chemistry of Materials*, **2016**, 28, 5772-5783	9.6	14
387	Tin-Free Direct C-H Arylation Polymerization for High Photovoltaic Efficiency Conjugated Copolymers. *Journal of the American Chemical Society*, **2016**, 138, 15699-15709	16.4	117
386	Efficient and Versatile Interconnection Layer by Solvent Treatment of PEDOT:PSS Interlayer for Air-Processed Organic Tandem Solar Cells. *Advanced Materials Interfaces*, **2016**, 3, 1600770	4.6	23

385	Efficient Naphthalenediimide-Based Hole Semiconducting Polymer with Vinylene Linkers between Donor and Acceptor Units. *Chemistry of Materials*, **2016**, 28, 8580-8590	9.6	41
384	Click-chemistry approaches to π-conjugated polymers for organic electronics applications. *Chemical Science*, **2016**, 7, 6298-6308	9.4	87
383	P-176: Innovative Trilayer Organic Light Emitting Transistor (OLET) Structure for Blue Emission. *Digest of Technical Papers SID International Symposium*, **2016**, 47, 1779-1782	0.5	5
382	Solution-Processed Crystalline n-Type Organic Transistors Stable against Electrical Stress and Photooxidation. *Advanced Functional Materials*, **2016**, 26, 2365-2370	15.6	24
381	Solution-Processed All-Oxide Transparent High-Performance Transistors Fabricated by Spray-Combustion Synthesis. *Advanced Electronic Materials*, **2016**, 2, 1500427	6.4	85
380	Efficient polymer solar cells based on the synergy effect of a novel non-conjugated small-molecule electrolyte and polar solvent. *Journal of Materials Chemistry A*, **2016**, 4, 2530-2536	13	45
379	Synthesis of Octabromoperylene Dianhydride and Diimides: Evidence of Halogen Bonding and Semiconducting Properties. *Organic Letters*, **2016**, 18, 472-5	6.2	36
378	N-type polymers as electron extraction layers in hybrid perovskite solar cells with improved ambient stability. *Journal of Materials Chemistry A*, **2016**, 4, 2419-2426	13	85
377	Metal oxides for optoelectronic applications. *Nature Materials*, **2016**, 15, 383-96	27	903
376	Thermal Conductivity Comparison of Indium Gallium Zinc Oxide Thin Films: Dependence on Temperature, Crystallinity, and Porosity. *Journal of Physical Chemistry C*, **2016**, 120, 7467-7475	3.8	25
375	Current methodologies for a sustainable approach to π-conjugated organic semiconductors. *Energy and Environmental Science*, **2016**, 9, 763-786	35.4	95
374	All-Polymer Solar Cell Performance Optimized via Systematic Molecular Weight Tuning of Both Donor and Acceptor Polymers. *Journal of the American Chemical Society*, **2016**, 138, 1240-51	16.4	237
373	Analysis of the persistent photoresponse of C8BTBT transistors in the near-bandgap spectral region. *Organic Electronics*, **2016**, 30, 83-91	3.5	3
372	Light- and bias-induced effects in pentacene-based thin film phototransistors with a photocurable polymer dielectric. *Organic Electronics*, **2016**, 28, 147-154	3.5	25
371	Device performance and density of trap states of organic and inorganic field-effect transistors. *Organic Electronics*, **2016**, 28, 306-313	3.5	22
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