Antonio Facchetti

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

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	A high-mobility electron-transporting polymer for printed transistors. *Nature*, **2009**, 457, 679-86	50.4	2542
527	Conjugated Polymers for Organic Electronics and Photovoltaic Cell Applications. *Chemistry of Materials*, **2011**, 23, 733-758	9.6	1887
526	Rylene and related diimides for organic electronics. *Advanced Materials*, **2011**, 23, 268-84	24	1366
525	n-Type organic semiconductors in organic electronics. *Advanced Materials*, **2010**, 22, 3876-92	24	963
524	Low-temperature fabrication of high-performance metal oxide thin-film electronics via combustion processing. *Nature Materials*, **2011**, 10, 382-8	27	957
523	Metal oxides for optoelectronic applications. *Nature Materials*, **2016**, 15, 383-96	27	903
522	Gate Dielectrics for Organic Field-Effect Transistors: New Opportunities for Organic Electronics. *Advanced Materials*, **2005**, 17, 1705-1725	24	901
521	Tuning orbital energetics in arylene diimide semiconductors. materials design for ambient stability of n-type charge transport. *Journal of the American Chemical Society*, **2007**, 129, 15259-78	16.4	887
520	Polymer solar cells with enhanced fill factors. *Nature Photonics*, **2013**, 7, 825-833	33.9	806
519	High-mobility air-stable n-type semiconductors with processing versatility: dicyanoperylene-3,4:9,10-bis(dicarboximides). *Angewandte Chemie - International Edition*, **2004**, 43, 6363-6	16.4	760
518	Imide- and amide-functionalized polymer semiconductors. *Chemical Reviews*, **2014**, 114, 8943-9021	68.1	721
517	High-k organic, inorganic, and hybrid dielectrics for low-voltage organic field-effect transistors. *Chemical Reviews*, **2010**, 110, 205-39	68.1	718
516	Semiconductors for organic transistors. *Materials Today*, **2007**, 10, 28-37	21.8	697
515	Polymer donor–polymer acceptor (all-polymer) solar cells. *Materials Today*, **2013**, 16, 123-132	21.8	596
514	n-Channel semiconductor materials design for organic complementary circuits. *Accounts of Chemical Research*, **2011**, 44, 501-10	24.3	585
513	Material insights and challenges for non-fullerene organic solar cells based on small molecular acceptors. *Nature Energy*, **2018**, 3, 720-731	62.3	580
512	Molecular Self-Assembled Monolayers and Multilayers for Organic and Unconventional Inorganic Thin-Film Transistor Applications. *Advanced Materials*, **2009**, 21, 1407-1433	24	519

511	Naphthalenedicarboximide- vs perylenedicarboximide-based copolymers. Synthesis and semiconducting properties in bottom-gate N-channel organic transistors. *Journal of the American Chemical Society*, **2009**, 131, 8-9	16.4	501
510	Fabrication of fully transparent nanowire transistors for transparent and flexible electronics. *Nature Nanotechnology*, **2007**, 2, 378-84	28.7	470
509	A naphthodithiophene-diketopyrrolopyrrole donor molecule for efficient solution-processed solar cells. *Journal of the American Chemical Society*, **2011**, 133, 8142-5	16.4	460
508	Organic light-emitting transistors with an efficiency that outperforms the equivalent light-emitting diodes. *Nature Materials*, **2010**, 9, 496-503	27	460
507	Role of gallium doping in dramatically lowering amorphous-oxide processing temperatures for solution-derived indium zinc oxide thin-film transistors. *Advanced Materials*, **2010**, 22, 1346-50	24	448
506	Universal quinone electrodes for long cycle life aqueous rechargeable batteries. *Nature Materials*, **2017**, 16, 841-848	27	432
505	Design, synthesis, and characterization of ladder-type molecules and polymers. Air-stable, solution-processable n-channel and ambipolar semiconductors for thin-film transistors via experiment and theory. *Journal of the American Chemical Society*, **2009**, 131, 5586-608	16.4	431
504	Gate dielectric chemical structure-organic field-effect transistor performance correlations for electron, hole, and ambipolar organic semiconductors. *Journal of the American Chemical Society*, **2006**, 128, 12851-69	16.4	418
503	Organic and Polymeric Semiconductors Enhanced by Noncovalent Conformational Locks. *Chemical Reviews*, **2017**, 117, 10291-10318	68.1	377
502	Large modulation of carrier transport by grain-boundary molecular packing and microstructure in organic thin films. *Nature Materials*, **2009**, 8, 952-8	27	376
501	Building blocks for n-type organic electronics: regiochemically modulated inversion of majority carrier sign in perfluoroarene-modified polythiophene semiconductors. *Angewandte Chemie - International Edition*, **2003**, 42, 3900-3	16.4	371
500	Low-voltage organic field-effect transistors and inverters enabled by ultrathin cross-linked polymers as gate dielectrics. *Journal of the American Chemical Society*, **2005**, 127, 10388-95	16.4	369
499	High- k Gate Dielectrics for Emerging Flexible and Stretchable Electronics. *Chemical Reviews*, **2018**, 118, 5690-5754	68.1	354
498	Easily processable phenylene-thiophene-based organic field-effect transistors and solution-fabricated nonvolatile transistor memory elements. *Journal of the American Chemical Society*, **2003**, 125, 9414-23	16.4	352
497	Polymer gate dielectric surface viscoelasticity modulates pentacene transistor performance. *Science*, **2007**, 318, 76-80	33.3	344
496	Building blocks for N-type molecular and polymeric electronics. Perfluoroalkyl- versus alkyl-functionalized oligothiophenes (nTs; n = 2-6). Systematic synthesis, spectroscopy, electrochemistry, and solid-state organization. *Journal of the American Chemical Society*, **2004**, 126, 13480-501	16.4	344
495	Aggregation in a high-mobility n-type low-bandgap copolymer with implications on semicrystalline morphology. *Journal of the American Chemical Society*, **2012**, 134, 18303-17	16.4	329
494	Synthesis, characterization, and transistor response of semiconducting silole polymers with substantial hole mobility and air stability. Experiment and theory. *Journal of the American Chemical Society*, **2008**, 130, 7670-85	16.4	326

493	Organic thin-film transistors based on carbonyl-functionalized quaterthiophenes: high mobility N-channel semiconductors and ambipolar transport. *Journal of the American Chemical Society*, **2005**, 127, 1348-9	16.4	325
492	Unconventional face-on texture and exceptional in-plane order of a high mobility n-type polymer. *Advanced Materials*, **2010**, 22, 4359-63	24	317
491	Dithienosilole- and dibenzosilole-thiophene copolymers as semiconductors for organic thin-film transistors. *Journal of the American Chemical Society*, **2006**, 128, 9034-5	16.4	310
490	Building blocks for n-type molecular and polymeric electronics. Perfluoroalkyl- versus alkyl-functionalized oligothiophenes (nT; n = 2-6). Systematics of thin film microstructure, semiconductor performance, and modeling of majority charge injection in field-effect transistors. *Journal of the American Chemical Society*, **2004**, 126, 13859-74	16.4	305
489	All-Polymer Solar Cells: Recent Progress, Challenges, and Prospects. *Angewandte Chemie - International Edition*, **2019**, 58, 4129-4142	16.4	305
488	n-Type Building Blocks for Organic Electronics: A Homologous Family of Fluorocarbon-Substituted Thiophene Oligomers with High Carrier Mobility. *Advanced Materials*, **2003**, 15, 33-38	24	298
487	High-performance transparent inorganic-organic hybrid thin-film n-type transistors. *Nature Materials*, **2006**, 5, 893-900	27	297
486	Influence of Aggregation on the Performance of All-Polymer Solar Cells Containing Low-Bandgap Naphthalenediimide Copolymers. *Advanced Energy Materials*, **2012**, 2, 369-380	21.8	292
485	Slip-stacked perylenediimides as an alternative strategy for high efficiency nonfullerene acceptors in organic photovoltaics. *Journal of the American Chemical Society*, **2014**, 136, 16345-56	16.4	290
484	Fluorocarbon-modified organic semiconductors: molecular architecture, electronic, and crystal structure tuning of arene- versus fluoroarene-thiophene oligomer thin-film properties. *Journal of the American Chemical Society*, **2006**, 128, 5792-801	16.4	280
483	n-channel polymers by design: optimizing the interplay of solubilizing substituents, crystal packing, and field-effect transistor characteristics in polymeric bithiophene-imide semiconductors. *Journal of the American Chemical Society*, **2008**, 130, 9679-94	16.4	267
482	Efficient squaraine-based solution processable bulk-heterojunction solar cells. *Journal of the American Chemical Society*, **2008**, 130, 17640-1	16.4	261
481	Drastic Control of Texture in a High Performance n-Type Polymeric Semiconductor and Implications for Charge Transport. *Macromolecules*, **2011**, 44, 5246-5255	5.5	250
480	Tuning the Semiconducting Properties of Sexithiophene by alpha,omega-Substitution-alpha,omega-Diperfluorohexylsexithiophene: The First n-Type Sexithiophene for Thin-Film Transistors We thank DARPA (N00421-98-1187) and the NSF-MRSEC	16.4	250
479	Air-stable, solution-processable n-channel and ambipolar semiconductors for thin-film transistors based on the indenofluorenebis(dicyanovinylene) core. *Journal of the American Chemical Society*, **2008**, 130, 8580-1	16.4	241
478	Macroscopic and high-throughput printing of aligned nanostructured polymer semiconductors for MHz large-area electronics. *Nature Communications*, **2015**, 6, 8394	17.4	240
477	Bithiopheneimide-dithienosilole/dithienogermole copolymers for efficient solar cells: information from structure-property-device performance correlations and comparison to thieno[3,4-c]pyrrole-4,6-dione analogues. *Journal of the American Chemical Society*, **2012**, 134, 18427-39	16.4	239
476	High electron mobility in vacuum and ambient for PDIF-CN2 single-crystal transistors. *Journal of the American Chemical Society*, **2009**, 131, 2462-3	16.4	239

475	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
474	Sigma-pi molecular dielectric multilayers for low-voltage organic thin-film transistors. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 4678-82	11.5	234
473	Band-like electron transport in organic transistors and implication of the molecular structure for performance optimization. *Advanced Materials*, **2012**, 24, 503-8	24	233
472	Ultralarge hyperpolarizability twisted pi-electron system electro-optic chromophores: synthesis, solid-state and solution-phase structural characteristics, electronic structures, linear and nonlinear optical properties, and computational studies. *Journal of the American Chemical Society*, **2007**, 129, 3267-86	16.4	230
471	Cyanonaphthalene Diimide Semiconductors for Air-Stable, Flexible, and Optically Transparent n-Channel Field-Effect Transistors. *Chemistry of Materials*, **2007**, 19, 2703-2705	9.6	228
470	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
469	High-efficiency all-polymer solar cells based on a pair of crystalline low-bandgap polymers. *Advanced Materials*, **2014**, 26, 7224-30	24	218
468	Thieno[3,4-c]pyrrole-4,6-dione-based polymer semiconductors: toward high-performance, air-stable organic thin-film transistors. *Journal of the American Chemical Society*, **2011**, 133, 13685-97	16.4	213
467	Metal-free tetrathienoacene sensitizers for high-performance dye-sensitized solar cells. *Journal of the American Chemical Society*, **2015**, 137, 4414-23	16.4	210
466	Morphology-Performance Relationships in High-Efficiency All-Polymer Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1300785	21.8	210
465	High-performance solution-processed amorphous zinc-indium-tin oxide thin-film transistors. *Journal of the American Chemical Society*, **2010**, 132, 10352-64	16.4	210
464	Bithiophene-imide-based polymeric semiconductors for field-effect transistors: synthesis, structure-property correlations, charge carrier polarity, and device stability. *Journal of the American Chemical Society*, **2011**, 133, 1405-18	16.4	206
463	High-Mobility Ambipolar Transport in Organic Light-Emitting Transistors. *Advanced Materials*, **2006**, 18, 1416-1420	24	205
462	The role of regioregularity, crystallinity, and chain orientation on electron transport in a high-mobility n-type copolymer. *Journal of the American Chemical Society*, **2014**, 136, 4245-56	16.4	200
461	Transparent active matrix organic light-emitting diode displays driven by nanowire transistor circuitry. *Nano Letters*, **2008**, 8, 997-1004	11.5	197
460	Mechanically Flexible Conductors for Stretchable and Wearable E-Skin and E-Textile Devices. *Advanced Materials*, **2019**, 31, e1901408	24	193
459	Effects of Arylene Diimide Thin Film Growth Conditions on n-Channel OFET Performance. *Advanced Functional Materials*, **2008**, 18, 1329-1339	15.6	191
458	Heavily n-Dopable π-Conjugated Redox Polymers with Ultrafast Energy Storage Capability. *Journal of the American Chemical Society*, **2015**, 137, 4956-9	16.4	188

457	Anthracenedicarboximides as air-stable N-channel semiconductors for thin-film transistors with remarkable current on-off ratios. *Journal of the American Chemical Society*, **2007**, 129, 13362-3	16.4	188
456	Semiconducting polymers prepared by direct arylation polycondensation. *Angewandte Chemie - International Edition*, **2012**, 51, 3520-3	16.4	186
455	Novel heterocycle-based two-photon absorbing dyes. *Organic Letters*, **2002**, 4, 1495-8	6.2	179
454	All-printed flexible organic transistors enabled by surface tension-guided blade coating. *Advanced Materials*, **2014**, 26, 5722-7	24	178
453	Marked alkyl- vs alkenyl-substitutent effects on squaraine dye solid-state structure, carrier mobility, and bulk-heterojunction solar cell efficiency. *Journal of the American Chemical Society*, **2010**, 132, 4074-5	16.4	175
452	Combining electron-neutral building blocks with intramolecular "conformational locks" affords stable, high-mobility p- and n-channel polymer semiconductors. *Journal of the American Chemical Society*, **2012**, 134, 10966-73	16.4	174
451	Poly(3-hexylthiophene): synthetic methodologies and properties in bulk heterojunction solar cells. *Energy and Environmental Science*, **2012**, 5, 8457	35.4	174
450	High performance solution-processed indium oxide thin-film transistors. *Journal of the American Chemical Society*, **2008**, 130, 12580-1	16.4	166
449	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
448	Dialkoxybithiazole: a new building block for head-to-head polymer semiconductors. *Journal of the American Chemical Society*, **2013**, 135, 1986-96	16.4	164
447	Remarkable enhancement of hole transport in top-gated N-type polymer field-effect transistors by a high-k dielectric for ambipolar electronic circuits. *Advanced Materials*, **2012**, 24, 5433-9	24	164
446	A distinctive example of the cooperative interplay of structure and environment in tuning of intramolecular charge transfer in second-order nonlinear optical chromophores. *Chemistry - A European Journal*, **2003**, 9, 1991-2007	4.8	156
445	High electron mobility in solution-cast and vapor-deposited phenacyl-quaterthiophene-based field-effect transistors: toward N-type polythiophenes. *Journal of the American Chemical Society*, **2005**, 127, 13476-7	16.4	154
444	Very Low Degree of Energetic Disorder as the Origin of High Mobility in an n-channel Polymer Semiconductor. *Advanced Functional Materials*, **2011**, 21, 3371-3381	15.6	153
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442	Oxygen "getter" effects on microstructure and carrier transport in low temperature combustion-processed a-InXZnO (X = Ga, Sc, Y, La) transistors. *Journal of the American Chemical Society*, **2013**, 135, 10729-41	16.4	152
441	Spray-combustion synthesis: efficient solution route to high-performance oxide transistors. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 3217-22	11.5	151
440	Nanostructured organic semiconductor films for molecular detection with surface-enhanced Raman spectroscopy. *Nature Materials*, **2017**, 16, 918-924	27	149

439	Solution-processable low-molecular weight extended arylacetylenes: versatile p-type semiconductors for field-effect transistors and bulk heterojunction solar cells. *Journal of the American Chemical Society*, **2010**, 132, 6108-23	16.4	145
438	Synthesis and Characterization of Diperfluorooctyl-Substituted Phenylene–Thiophene Oligomers as n-Type Semiconductors. Molecular Structure–Film Microstructure–Mobility Relationships, Organic Field-Effect Transistors, and Transistor Nonvolatile Memory Elements. *Chemistry of Materials*, **2004**, 16, 4715-4727	9.6	143
437	Bithiophene imide and benzodithiophene copolymers for efficient inverted polymer solar cells. *Advanced Materials*, **2012**, 24, 2242-8	24	142
436	Layer-by-Layer Self-Assembled Pyrrole-Based Donor–Acceptor Chromophores as Electro-Optic Materials. *Chemistry of Materials*, **2003**, 15, 1064-1072	9.6	142
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434	Bulk electron transport and charge injection in a high mobility n-type semiconducting polymer. *Advanced Materials*, **2010**, 22, 2799-803	24	139
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431	Charge injection engineering of ambipolar field-effect transistors for high-performance organic complementary circuits. *ACS Applied Materials & Interfaces*, **2011**, 3, 3205-14	9.5	137
430	Role of photoactive layer morphology in high fill factor all-polymer bulk heterojunction solar cells. *Journal of Materials Chemistry*, **2011**, 21, 5891		135
429	High-Mobility Air-Stable n-Type Semiconductors with Processing Versatility: Dicyanoperylene-3,4:9,10-bis(dicarboximides). *Angewandte Chemie*, **2004**, 116, 6523-6526	3.6	132
428	High Electron Mobility and Ambient Stability in Solution-Processed Perylene-Based Organic Field-Effect Transistors. *Advanced Materials*, **2009**, 21, 1573-1576	24	131
427	Correlated Donor/Acceptor Crystal Orientation Controls Photocurrent Generation in All-Polymer Solar Cells. *Advanced Functional Materials*, **2014**, 24, 4068-4081	15.6	129
426	Air Stable Cross-Linked Cytop Ultrathin Gate Dielectric for High Yield Low-Voltage Top-Gate Organic Field-Effect Transistors. *Chemistry of Materials*, **2010**, 22, 1559-1566	9.6	128
425	Organic n-channel field-effect transistors based on arylenediimide-thiophene derivatives. *Journal of the American Chemical Society*, **2010**, 132, 8440-52	16.4	125
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423	A Chemically Doped Naphthalenediimide-Bithiazole Polymer for n-Type Organic Thermoelectrics. *Advanced Materials*, **2018**, 30, e1801898	24	123
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421	Thiazole Imide-Based All-Acceptor Homopolymer: Achieving High-Performance Unipolar Electron Transport in Organic Thin-Film Transistors. *Advanced Materials*, **2018**, 30, 1705745	24	121
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419	Competitive Absorption and Inefficient Exciton Harvesting: Lessons Learned from Bulk Heterojunction Organic Photovoltaics Utilizing the Polymer Acceptor P(NDI2OD-T2). *Advanced Functional Materials*, **2014**, 24, 6989-6998	15.6	120
418	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
417	Naphthalenediimide (NDI) polymers for all-polymer photovoltaics. *Materials Today*, **2018**, 21, 377-390	21.8	118
416	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
415	Dithienocoronenediimide-based copolymers as novel ambipolar semiconductors for organic thin-film transistors. *Advanced Materials*, **2012**, 24, 3678-84	24	117
414	Novel heteroaromatic-based multi-branched dyes with enhanced two-photon absorption activity. *Chemical Communications*, **2003**, 2144	5.8	117
413	Organic nanodielectrics for low voltage carbon nanotube thin film transistors and complementary logic gates. *Journal of the American Chemical Society*, **2005**, 127, 13808-9	16.4	116
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411	Solution Processed Top-Gate n-Channel Transistors and Complementary Circuits on Plastics Operating in Ambient Conditions. *Advanced Materials*, **2008**, 20, 3393-3398	24	114
410	Exploratory combustion synthesis: amorphous indium yttrium oxide for thin-film transistors. *Journal of the American Chemical Society*, **2012**, 134, 9593-6	16.4	113
409	High electron mobility in air for N,N′1H,1H-perfluorobutyldicyanoperylene carboxydi-imide solution-crystallized thin-film transistors on hydrophobic surfaces. *Advanced Materials*, **2011**, 23, 3681-5	24	112
408	Gate Dielectric Microstructural Control of Pentacene Film Growth Mode and Field-Effect Transistor Performance. *Advanced Materials*, **2007**, 19, 2561-2566	24	112
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406	Printable cross-linked polymer blend dielectrics. Design strategies, synthesis, microstructures, and electrical properties, with organic field-effect transistors as testbeds. *Journal of the American Chemical Society*, **2008**, 130, 6867-78	16.4	111
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398	Flexible spray-coated TIPS-pentacene organic thin-film transistors as ammonia gas sensors. *Journal of Materials Chemistry C*, **2013**, 1, 6532	7.1	101
397	Ultra-flexible, "invisible" thin-film transistors enabled by amorphous metal oxide/polymer channel layer blends. *Advanced Materials*, **2015**, 27, 2390-9	24	100
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393	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
392	A "zig-zag" naphthodithiophene core for increased efficiency in solution-processed small molecule solar cells. *Chemical Communications*, **2012**, 48, 8511-3	5.8	97
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388	High-Performance Solution-Deposited n-Channel Organic Transistors and their Complementary Circuits. *Advanced Materials*, **2007**, 19, 4028-4032	24	95
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377	Fluorinated copper phthalocyanine nanowires for enhancing interfacial electron transport in organic solar cells. *Nano Letters*, **2012**, 12, 6315-21	11.5	86
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