Niyazi S Sariciftci

List of Publications by Citations

572 papers	51,275 citations	99 h-index	215 g-index
616 ext. papers	54,258 ext. citations	5.6 avg, IF	7.65 L-index

#	Paper	IF	Citations
572	Conjugated polymer-based organic solar cells. *Chemical Reviews*, **2007**, 107, 1324-38	68.1	5523
571	Photoinduced electron transfer from a conducting polymer to buckminsterfullerene. *Science*, **1992**, 258, 1474-6	33.3	3657
570	2.5% efficient organic plastic solar cells. *Applied Physics Letters*, **2001**, 78, 841-843	3.4	2306
569	Organic solar cells: An overview. *Journal of Materials Research*, **2004**, 19, 1924-1945	2.5	2012
568	Effects of Postproduction Treatment on Plastic Solar Cells. *Advanced Functional Materials*, **2003**, 13, 85-88	15.6	1792
567	Morphology of polymer/fullerene bulk heterojunction solar cells. *Journal of Materials Chemistry*, **2006**, 16, 45-61		1277
566	Ultrathin and lightweight organic solar cells with high flexibility. *Nature Communications*, **2012**, 3, 770	17.4	1234
565	Organic solar cells with carbon nanotube network electrodes. *Applied Physics Letters*, **2006**, 88, 233506	3.4	864
564	Effect of LiF/metal electrodes on the performance of plastic solar cells. *Applied Physics Letters*, **2002**, 80, 1288-1290	3.4	805
563	Semiconducting polymer-buckminsterfullerene heterojunctions: Diodes, photodiodes, and photovoltaic cells. *Applied Physics Letters*, **1993**, 62, 585-587	3.4	788
562	Efficiency of bulk-heterojunction organic solar cells. *Progress in Polymer Science*, **2013**, 38, 1929-1940	29.6	755
561	Ultrathin, highly flexible and stretchable PLEDs. *Nature Photonics*, **2013**, 7, 811-816	33.9	706
560	Nanoscale Morphology of Conjugated Polymer/Fullerene-Based Bulk- Heterojunction Solar Cells. *Advanced Functional Materials*, **2004**, 14, 1005-1011	15.6	672
559	Flexible high power-per-weight perovskite solar cells with chromium oxide-metal contacts for improved stability in air. *Nature Materials*, **2015**, 14, 1032-9	27	652
558	Low bandgap polymers for photon harvesting in bulk heterojunction solar cells. *Journal of Materials Chemistry*, **2004**, 14, 1077		631
557	Tracing photoinduced electron transfer process in conjugated polymer/fullerene bulk heterojunctions in real time. *Chemical Physics Letters*, **2001**, 340, 232-236	2.5	516
556	A Low-Bandgap Semiconducting Polymer for Photovoltaic Devices and Infrared Emitting Diodes. *Advanced Functional Materials*, **2002**, 12, 709-712	15.6	483

555	A review of charge transport and recombination in polymer/fullerene organic solar cells. *Progress in Photovoltaics: Research and Applications*, **2007**, 15, 677-696	6.8	461
554	Effects of Annealing on the Nanomorphology and Performance of Poly(alkylthiophene):Fullerene Bulk-Heterojunction Solar Cells. *Advanced Functional Materials*, **2007**, 17, 1071-1078	15.6	345
553	Indigo--a natural pigment for high performance ambipolar organic field effect transistors and circuits. *Advanced Materials*, **2012**, 24, 375-80	24	334
552	Material Solubility-Photovoltaic Performance Relationship in the Design of Novel Fullerene Derivatives for Bulk Heterojunction Solar Cells. *Advanced Functional Materials*, **2009**, 19, 779-788	15.6	329
551	Biocompatible and Biodegradable Materials for Organic Field-Effect Transistors. *Advanced Functional Materials*, **2010**, 20, 4069-4076	15.6	317
550	Influence of the solvent on the crystal structure of PCBM and the efficiency of MDMO-PPV:PCBM 'plastic' solar cells. *Chemical Communications*, **2003**, 2116-8	5.8	311
549	Green and biodegradable electronics. *Materials Today*, **2012**, 15, 340-346	21.8	307
548	Organic p-i-n solar cells. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 1-14	2.6	291
547	Bimolecular recombination coefficient as a sensitive testing parameter for low-mobility solar-cell materials. *Physical Review Letters*, **2005**, 94, 176806	7.4	273
546	Kelvin probe force microscopy study on conjugated polymer/fullerene bulk heterojunction organic solar cells. *Nano Letters*, **2005**, 5, 269-74	11.5	263
545	Photoexcitation spectroscopy of conducting-polymer-C60 composites: Photoinduced electron transfer. *Physical Review B*, **1993**, 47, 13835-13842	3.3	260
544	Hybrid Solar Cells Based on Nanoparticles of CuInS2 in Organic Matrices. *Advanced Functional Materials*, **2003**, 13, 165-171	15.6	246
543	Hybrid solar cells. *Inorganica Chimica Acta*, **2008**, 361, 581-588	2.7	241
542	Current versus gate voltage hysteresis in organic field effect transistors. *Monatshefte F□ Chemie*, **2009**, 140, 735-750	1.4	231
541	Charge carrier mobility in regioregular poly(3-hexylthiophene) probed by transient conductivity techniques: A comparative study. *Physical Review B*, **2005**, 71,	3.3	230
540	Double-cable polymers for fullerene based organic optoelectronic applications. *Journal of Materials Chemistry*, **2002**, 12, 1931-1943		229
539	Stability and photodegradation mechanisms of conjugated polymer/fullerene plastic solar cells. *Solar Energy Materials and Solar Cells*, **2000**, 61, 35-42	6.4	223
538	High performance n-channel organic field-effect transistors and ring oscillators based on C60 fullerene films. *Applied Physics Letters*, **2006**, 89, 213504	3.4	222

537	A new encapsulation solution for flexible organic solar cells. *Thin Solid Films*, **2006**, 511-512, 349-353	2.2	217
536	Synthesis, Photophysical Properties, and Photovoltaic Devices of Oligo(p-phenylene vinylene)-fullerene Dyads?. *Journal of Physical Chemistry B*, **2000**, 104, 10174-10190	3.4	211
535	PROGRESS IN PLASTIC ELECTRONICS DEVICES. *Annual Review of Materials Research*, **2006**, 36, 199-230	12.8	209
534	Stabilization of the nanomorphology of polymer fullerene bulk heterojunction blends using a novel polymerizable fullerene derivative. *Journal of Materials Chemistry*, **2005**, 15, 5158		206
533	Sensitization of the photoconductivity of conducting polymers by C60: Photoinduced electron transfer. *Physical Review B*, **1993**, 48, 15425-15433	3.3	206
532	High-Performance Ambipolar Pentacene Organic Field-Effect Transistors on Poly(vinyl alcohol) Organic Gate Dielectric. *Advanced Materials*, **2005**, 17, 2315-2320	24	203
531	Hydrogen-bonded semiconducting pigments for air-stable field-effect transistors. *Advanced Materials*, **2013**, 25, 1563-9	24	199
530	Hydrogen-bonds in molecular solids - from biological systems to organic electronics. *Journal of Materials Chemistry B*, **2013**, 1, 3742-3753	7.3	199
529	Long-lived photoinduced charge separation for solar cell applications in phthalocyanine fulleropyrrolidine dyad thin films. *Journal of Materials Chemistry*, **2003**, 13, 700-704		199
528	Nonvolatile organic field-effect transistor memory element with a polymeric gate electret. *Applied Physics Letters*, **2004**, 85, 5409-5411	3.4	192
527	Charge Recombination in Conjugated Polymer/Fullerene Blended Films Studied by Transient Absorption Spectroscopy. *Journal of Physical Chemistry B*, **2003**, 107, 1567-1573	3.4	190
526	Extended Photocurrent Spectrum of a Low Band Gap Polymer in a Bulk Heterojunction Solar Cell. *Chemistry of Materials*, **2005**, 17, 4031-4033	9.6	184
525	Time-dependent mobility and recombination of the photoinduced charge carriers in conjugated polymer/fullerene bulk heterojunction solar cells. *Physical Review B*, **2005**, 72,	3.3	180
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523	Hybrid solar cells using PbS nanoparticles. *Solar Energy Materials and Solar Cells*, **2007**, 91, 420-423	6.4	171
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521	Highly Anisotropically Self-Assembled Structures of para-Sexiphenyl Grown by Hot-Wall Epitaxy. *Advanced Materials*, **2000**, 12, 629-633	24	166
520	Influence of the anodic work function on the performance of organic solar cells. *ChemPhysChem*, **2002**, 3, 795-9	3.2	165

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518	25th anniversary article: progress in chemistry and applications of functional indigos for organic electronics. *Advanced Materials*, **2013**, 25, 6783-800	24	161
517	Temperature dependence for the photovoltaic device parameters of polymer-fullerene solar cells under operating conditions. *Journal of Applied Physics*, **2001**, 90, 5343-5350	2.5	161
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515	Modeling the optical absorption within conjugated polymer/fullerene-based bulk-heterojunction organic solar cells. *Solar Energy Materials and Solar Cells*, **2003**, 80, 105-113	6.4	156
514	Subpicosecond photoinduced electron transfer from conjugated polymers to functionalized fullerenes. *Journal of Chemical Physics*, **1996**, 104, 4267-4273	3.9	153
513	Effect of annealing of poly(3-hexylthiophene)/fullerene bulk heterojunction composites on structural and optical properties. *Thin Solid Films*, **2006**, 496, 679-682	2.2	152
512	Structural and electronic transitions in polyaniline: A Fourier transform infrared spectroscopic study. *Journal of Chemical Physics*, **1990**, 92, 4530-4539	3.9	151
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509	Exotic materials for bio-organic electronics. *Journal of Materials Chemistry*, **2011**, 21, 1350-1361		148
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500	Efficiency limiting morphological factors of MDMO-PPV:PCBM plastic solar cells. *Thin Solid Films*, **2006**, 511-512, 587-592	2.2	135
499	The influence of materials work function on the open circuit voltage of plastic solar cells. *Thin Solid Films*, **2002**, 403-404, 368-372	2.2	133
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497	Negative electric field dependence of charge carrier drift mobility in conjugated, semiconducting polymers. *Chemical Physics Letters*, **2004**, 389, 438-442	2.5	130
496	Fabrication and characterization of solution-processed methanofullerene-based organic field-effect transistors. *Journal of Applied Physics*, **2005**, 97, 083714	2.5	128
495	Flexible Conjugated Polymer-Based Plastic Solar Cells: From Basics to Applications. *Proceedings of the IEEE*, **2005**, 93, 1429-1439	14.3	126
494	Photoresponse of organic field-effect transistors based on conjugated polymer/fullerene blends. *Organic Electronics*, **2006**, 7, 188-194	3.5	125
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491	Photovoltaic properties of conjugated polymer/methanofullerene composites embedded in a polystyrene matrix. *Journal of Applied Physics*, **1999**, 85, 6866-6872	2.5	120
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488	Anthracene Based Conjugated Polymers: Correlation between π-Stacking Ability, Photophysical Properties, Charge Carrier Mobility, and Photovoltaic Performance. *Macromolecules*, **2010**, 43, 1261-1269	5.5	110
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479	Indigo and Tyrian Purple From Ancient Natural Dyes to Modern Organic Semiconductors. *Israel Journal of Chemistry*, **2012**, 52, 540-551	3.4	104
478	Soluble derivatives of perylene and naphthalene diimide for n-channel organic field-effect transistors. *Organic Electronics*, **2006**, 7, 480-489	3.5	104
477	Temperature dependence of the charge carrier mobility in disordered organic semiconductors at large carrier concentrations. *Physical Review B*, **2010**, 81,	3.3	102
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463	Plastic photovoltaic devices. *Materials Today*, **2004**, 7, 36-40	21.8	89
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