Silvia Luzzati

List of Publications by Year
in descending order

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97 papers	2,752 citations	201385 27 h-index	189595 50 g-index
97 all docs	97 docs citations	97 times ranked	3224 citing authors

#	Article	IF	Citations
1	Amphiphilic PTB7-Based Rod-Coil Block Copolymer for Water-Processable Nanoparticles as an Active Layer for Sustainable Organic Photovoltaic: A Case Study. Polymers, 2022, 14, 1588.	2.0	5
2	An N-type Naphthalene Diimide Ionene Polymer as Cathode Interlayer for Organic Solar Cells. Energies, 2021, 14, 454.	1.6	7
3	Sulfonate-Conjugated Polyelectrolytes as Anode Interfacial Layers in Inverted Organic Solar Cells. Molecules, 2021, 26, 763.	1.7	7
4	A Donor Polymer with a Good Compromise between Efficiency and Sustainability for Organic Solar Cells. Advanced Energy and Sustainability Research, 2021, 2, 2100069.	2.8	15
5	Interlayers for non-fullerene based polymer solar cells: distinctive features and challenges. Energy and Environmental Science, 2021, 14, 180-223.	15.6	165
6	A bifunctional conjugated polyelectrolyte for the interfacial engineering of polymer solar cells. Journal of Colloid and Interface Science, 2019, 538, 611-619.	5.0	14
7	Benzothiadiazole-based conjugated polyelectrolytes for interfacial engineering in optoelectronic devices. Pure and Applied Chemistry, 2019, 91, 477-488.	0.9	8
8	Effect of the introduction of an alcohol-soluble conjugated polyelectrolyte as cathode interlayer in solution-processed organic light-emitting diodes and photovoltaic devices. Chemical Papers, 2018, 72, 1753-1759.	1.0	10
9	Efficient Solution-Processed Nanoplatelet-Based Light-Emitting Diodes with High Operational Stability in Air. Nano Letters, 2018, 18, 3441-3448.	4.5	88
10	Diketopyrrolopyrrole latent pigment-based bilayer solar cells. Organic Photonics and Photovoltaics, 2018, 6, 8-16.	1.3	5
11	Tungsten oxide thin film photo-anodes by reactive RF diode sputtering. Thin Solid Films, 2016, 616, 375-380.	0.8	8
12	PBDTTPD for plastic solar cells via Pd(PPh₃)₄-catalyzed direct (hetero)arylation polymerization. Journal of Materials Chemistry A, 2016, 4, 17163-17170.	5.2	26
13	Design of perylene diimides for organic solar cell: Effect of molecular steric hindrance and extended conjugation. Materials Chemistry and Physics, 2015, 163, 152-160.	2.0	16
14	The effect of perylene diimides chemical structure on the photovoltaic performance of P3HT/perylene diimides solar cells. Dyes and Pigments, 2015, 120, 57-64.	2.0	23
15	Tin-Free Synthesis of a Ternary Random Copolymer for BHJ Solar Cells: Direct (Hetero)arylation versus Stille Polymerization. Macromolecules, 2015, 48, 7039-7048.	2.2	36
16	The effect of donor content on the efficiency of P3HT:PCBM bilayers: optical and photocurrent spectral data analyses. Physical Chemistry Chemical Physics, 2015, 17, 2447-2456.	1.3	8
17	Postâ€Deposition Activation of Latent Hydrogenâ€Bonding: A New Paradigm for Enhancing the Performances of Bulk Heterojunction Solar Cells. Advanced Functional Materials, 2014, 24, 7410-7419.	7.8	27
18	New diketopyrrolopyrrole based Dâ€“Aâ€“D Ï€-conjugated molecules: Synthesis, optical, electrochemical, morphological and photovoltaic properties. Materials Chemistry and Physics, 2014, 147, 365-370.	2.0	4

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19	Double acceptor Dâ€“A copolymers containing benzotriazole and benzothiadiazole units: chemical tailoring towards efficient photovoltaic properties. Journal of Materials Chemistry A, 2013, 1, 10736.	5.2	25
20	Improving the efficiency of P3HT:perylene diimide solar cells via bay-substitution with fused aromatic rings. RSC Advances, 2013, 3, 9185.	1.7	22
21	Synthesis and characterization of new electron acceptor perylene diimide molecules for photovoltaic applications. Dyes and Pigments, 2013, 99, 329-338.	2.0	56
22	All-polymer bulk heterojunction solar cells with high fill factors based on blends of poly-3-hexylthiophene: poly(perylene diimide-alt-terthiophene). Materials Research Society Symposia Proceedings, 2012, 1390, 160.	0.1	6
23	Coarse-grained kinetic modelling of bilayer heterojunction organic solar cells. Organic Electronics, 2012, 13, 750-761.	1.4	13
24	A Novel Diruthenium Acetylide Donor Complex as an Unusual Active Material for Bulk Heterojunction Solar Cells. Organometallics, 2011, 30, 1279-1282.	1.1	24
25	Synthesis of donorâ€“acceptor poly(perylene diimide-altoligothiophene) copolymers as n-type materials for polymeric solar cells. Polymer, 2010, 51, 2264-2270.	1.8	45
26	Synthesis and characterization of perylene-based donorâ€“acceptor copolymers containing triple bonds. Synthetic Metals, 2010, 160, 996-1001.	2.1	18
27	Characterization of thin films of regioregular poly(alkylthiophene)s bearing optically active substituents. E-Polymers, 2009, 9, .	1.3	1
28	Dithienothiophene based polymer as electron donor in plastic solar cells. Thin Solid Films, 2008, 516, 7205-7208.	0.8	22
29	External quantum efficiency versus charge carriers mobility in polythiophene/methanofullerene based planar photodetectors. Journal of Applied Physics, 2007, 102, 024503.	1.1	27
30	First Detailed Determination of the Molecular Conformation and the Crystalline Packing of a Chiral Poly(3-alkylthiophene):Â Poly-3-(S)-2-methylbutylthiophene. Macromolecules, 2007, 40, 3-5.	2.2	27
31	Long-Lived Photoinduced Charges in Donorâ^'Acceptor Anthraquinone-Substituted Thiophene Copolymers. Journal of Physical Chemistry B, 2006, 110, 5351-5358.	1.2	27
32	Thermal characterization and annealing effects of polythiophene/fullerene photoactive layers for solar cells. Thin Solid Films, 2006, 511-512, 489-493.	0.8	36
33	Resonant Raman scattering dispersion in poly(dithieno[3,4-b:3â€²,4-d]-thiophene): 2Ag spectroscopy. Synthetic Metals, 2005, 150, 251-253.	2.1	1
34	Donor?acceptor ?double-cable? polythiophenes with tunable acceptor content. Thin Solid Films, 2004, 451-452, 2-6.	0.8	11
35	Hybrid iodoperfluoroalkane-ferrocene supramolecular arrays: the shortest contacts iodine forms with nitrogen atoms and unsaturated moieties. Journal of Fluorine Chemistry, 2004, 125, 629-640.	0.9	29
36	Even parity states in small band gap Ï€-conjugated polymers: polydithienothiophenes. Chemical Physics Letters, 2004, 394, 132-136.	1.2	8

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37	Donorâ€“acceptor polythiophene copolymers with tunable acceptor content for photoelectric conversion devices. Journal of Materials Chemistry, 2004, 14, 67-74.	6.7	34
38	Tuning of the photoinduced charge transfer process in donor-acceptor double-cable copolymers. , 2004, 5215, 41.		0
39	New polythiophenes bearing electron-acceptor phthalocyanine chromophores. Tetrahedron Letters, 2003, 44, 8475-8478.	0.7	26
40	Synthesis of Soluble Donorâ^'Acceptor Double-Cable Polymers Based on Polythiophene and Tetracyanoanthraquinodimethane (TCAQ). Organic Letters, 2003, 5, 1669-1672.	2.4	33
41	Tuning of the photoinduced charge transfer process in donorâ€“acceptor double-cable copolymers. Synthetic Metals, 2003, 139, 731-733.	2.1	12
42	Spectral signatures of positive and negative charged states in doped and photoexcited low band-gap polydithienothiophenes. Synthetic Metals, 2003, 139, 747-750.	2.1	11
43	<title>Infrared spectroscopic investigations of organic polymeric photovoltaic systems</title>. , 2002, , .		2
44	Solid-State Optical and Structural Modifications Induced by Temperature in a Chiral Poly-3-alkylthiophene. Chemistry of Materials, 2002, 14, 4819-4826.	3.2	38
45	Positive and Negative Charge Carriers in Doped or Photoexcited Polydithienothiophenes:â€‰ A Comparative Study Using Raman, Infrared, and Electron Spin Resonance Spectroscopy. Journal of Physical Chemistry B, 2002, 106, 3583-3591.	1.2	51
46	Dithienothiophene and dithienothiophene-S,S-dioxide copolymers for photovoltaics. Thin Solid Films, 2002, 403-404, 66-70.	0.8	33
47	Morphological characterization of poly(3-octylthiophene):plasticizer:C60 blends. Thin Solid Films, 2002, 403-404, 489-494.	0.8	25
48	Photo-induced electron transfer from a dithieno thiophene-based polymer to TiO2. Thin Solid Films, 2002, 403-404, 52-56.	0.8	53
49	Perfluorocarbonâ€“hydrocarbon self-assembly. Part 16: Anilines as new electron donor modules for halogen bonded infinite chain formation. Tetrahedron, 2002, 58, 4023-4029.	1.0	45
50	Spectroscopical evidences of photoinduced charge transfer in blends of C60 and thiophene-based copolymers with a tunable energy gap. Synthetic Metals, 2001, 116, 171-174.	2.1	10
51	Photochemical synthesis and optical properties of high membered thiohelicenes. Synthetic Metals, 2001, 119, 79-80.	2.1	20
52	Triplet photoexcitations in a polythiophene with a high degree of energetic disorder. Synthetic Metals, 2001, 119, 613-614.	2.1	0
53	In situ UV-VIS-NIR and Raman spectroelectrochemical studies of the conjugated ladder polymer polybenzimidazobenzophenanthroline (BBL). Synthetic Metals, 2001, 119, 319-320.	2.1	8
54	Effect of regioregularity on the photoresponse of Schottky-type junctions based on poly(3-alkylthiophenes). Synthetic Metals, 2001, 125, 313-317.	2.1	6

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55	Vibrational Spectroscopy on pDTT3A Low Band Gap Polymer Based on Dithienothiophene. Journal of Physical Chemistry B, 2001, 105, 46-52.	1.2	30
56	Molecular Crystal Architecture and Optical Properties of a Thiohelicenes Series Containing 5, 7, 9, and 11 Rings Prepared via Photochemical Synthesis. Chemistry of Materials, 2001, 13, 3906-3914.	3.2	50
57	Polyalkylthiophene-based photodetector devices: effect of side-chain length on the device performance. Materials Science and Engineering C, 2001, 15, 261-263.	3.8	4
58	Tracing photoinduced electron transfer process in conjugated polymer/fullerene bulk heterojunctions in real time. Chemical Physics Letters, 2001, 340, 232-236.	1.2	563
59	Multiple Electrochemical Doping-Induced Insulator-to-Conductor Transitions Observed in the Conjugated Ladder Polymer Polybenzimidazobenzophenanthroline (BBL)#. Journal of Physical Chemistry B, 2000, 104, 9430-9437.	1.2	20
60	Infrared spectroelectrochemical investigations on the doping of soluble poly(isothianaphthene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	1.2	54
61	Efficient single-layer yellow-light emitting-diodes with ladder-type poly(p-phenylene)/poly(decyl-thiophene) blends. Solid State Communications, 1999, 109, 455-459.	0.9	39
62	Efficient single layer yellow light emitting diodes made of a blend of a ladder-type poly(p-phenylene) and polyalkylthiophene. Optical Materials, 1999, 12, 311-314.	1.7	14
63	Electronic structure of polydithienothiophene materials. Synthetic Metals, 1999, 101, 175-176.	2.1	11
64	Photoexcitations of thiophene-based copolymers with tunable energy gap. Synthetic Metals, 1999, 102, 1202-1203.	2.1	1
65	Luminescence of an alternated thiophene-3-alkylthiophene copolymer. Synthetic Metals, 1999, 102, 1245.	2.1	1
66	Relaxation processes in thiophene-based random copolymers. Chemical Physics Letters, 1998, 288, 749-754.	1.2	9
67	Polarization properties of a novel oriented polydiacetylene. Synthetic Metals, 1998, 95, 47-52.	2.1	10
68	Spectroscopy of transition-metal substituted oligothiophenes. Synthetic Metals, 1998, 93, 27-32.	2.1	12
69	Photoluminescence of thiophene-based copolymers with tunable energy gap. Synthetic Metals, 1997, 84, 551-552.	2.1	4
70	Characterization of poly(3-decylmethoxythiophene) multilayers. Thin Solid Films, 1997, 299, 169-172.	0.8	9
71	Structural effects in poly(3-alkylthiophene)s on the exposition to poor solvent. Macromolecular Rapid Communications, 1997, 18, 939-943.	2.0	10
72	Rigid Rod Conjugated Polymers for Nonlinear Optics. 2. Synthesis and Characterization of Phenyleneâˆ'Ethynylene Oligomers. Macromolecules, 1996, 29, 446-455.	2.2	118

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73	Luminescence excitation spectroscopy of highly oriented poly (3-octylthiophene)-polyethylene blends. Synthetic Metals, 1996, 76, 23-26.	2.1	16
74	Poly(3-butyl-co-3,4-dibutylthiophene) copolymers: a new series of conjugated materials with a different energy-gap. Polymer, 1996, 37, 1059-1064.	1.8	18
75	Optical excitations in thiophenic based polymeric heterostructures. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 213, 288-292.	0.9	4
76	Spectroscopic analysis of structure in poly(3-butyl-co-3,4-dibutylthiophene) copolymers. Synthetic Metals, 1995, 69, 375-376.	2.1	6
77	Photoexcited states in poly-3-alkylthiophene solutions. Synthetic Metals, 1995, 69, 381-382.	2.1	0
78	Optical properties and long-lived charged photoexcitations in polydiacetylenes. Physical Review B, 1994, 49, 8059-8066.	1.1	27
79	Photoexcitations in conjugated polymer superlattices. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 185, 431-434.	0.9	10
80	Synthesis and characterization of alkyl-substituted poly[E-1,2-(2,2â€²-dithienyl)ethylene]s. Synthetic Metals, 1994, 62, 223-228.	2.1	24
81	Photoexcitation studies in poly[1,6-di(N-carbazolyl)-2,4-hexadiyne]. Correlation of spectral features with the degree of order in polycrystalline samples. Synthetic Metals, 1994, 68, 33-37.	2.1	10
82	Rigid rod conjugated polymers for nonlinear optics: 1. Characterization and linear optical properties of poly(aryleneethynylene) derivatives. Macromolecules, 1994, 27, 562-571.	2.2	216
83	Infrared Spectra and Photoinduced Absorption of C60 Doped Polyhexylthiophene. Molecular Crystals and Liquid Crystals, 1994, 256, 927-932.	0.3	11
84	Femtosecond transient bleaching decay in poly(alkyl-thiophene-vinylene)s in solution and in film. Solid State Communications, 1993, 86, 583-588.	0.9	5
85	Thermochromism of alkyl substituted poly(dithiophenediylvinylenes). Synthetic Metals, 1993, 55, 97-102.	2.1	6
86	Synthesis and properties of alkyl substituted poly(2,2â€²-dithiophene-5,5â€²-diylvinylene)s. Synthetic Metals, 1993, 55, 1188-1192.	2.1	8
87	Photoinduced absorption of polymer solutions. Physical Review B, 1993, 48, 14809-14817.	1.1	82
88	Optical excitations of poly-3-alkylthiophene films and solutions. Physical Review B, 1992, 46, 13008-13016.	1.1	35
89	Photoinduced Absorption Spectroscopy of Poly-3-Alkylthiophenes. Materials Research Society Symposia Proceedings, 1992, 247, 669.	0.1	0
90	Photoexcitation spectroscopy of poly-3-alkylthiophenes. Synthetic Metals, 1991, 41, 1323-1326.	2.1	4

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91	Resonance Raman study of a low energy gap conjugated polymer: Polydithieno(3,4-b;3â€²,4â€²-d)thiophene. Synthetic Metals, 1991, 41, 1319-1322.	2.1	3
92	Polarized Raman spectra of polyacetylenes and polythiophenes. Synthetic Metals, 1989, 28, D331-D337.	2.1	2
93	Polarized resonant Raman scattering of cis polyacetylene. Journal of Chemical Physics, 1989, 91, 732-737.	1.2	13
94	Depolarization ratios of the resonance Raman bands of soluble transâ€polyacetylene. Journal of Chemical Physics, 1987, 87, 6816-6818.	1.2	8
95	Crystalline isotactic trans-1,4-poly(1,3-pentadiene). Explanation of a stress-induced conformational transition. European Polymer Journal, 1987, 23, 217-221.	2.6	1
96	Size determination of a chain in a bad solvent by intensity light scattering comparison with a good solvent state. Polymer, 1986, 27, 834-838.	1.8	7
97	Weak Donor, Strong Acceptor Thienopyrazine-Based Polymers for Fine Tuning of LUMO Levelsâ€”Suitable Materials for Energy and Storage Solutions. , 0, , .		0