

Sabine Ludwigs

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5610584/sabine-ludwigs-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

109
papers

5,099
citations

36
h-index

69
g-index

112
ext. papers

5,666
ext. citations

9.4
avg, IF

5.71
L-index

#	Paper	IF	Citations
109	Electrochemistry of conducting polymers--persistent models and new concepts. <i>Chemical Reviews</i> , 2010 , 110, 4724-71	68.1	880
108	A bicontinuous double gyroid hybrid solar cell. <i>Nano Letters</i> , 2009 , 9, 2807-12	11.5	392
107	Self-assembly of functional nanostructures from ABC triblock copolymers. <i>Nature Materials</i> , 2003 , 2, 744-7	27	208
106	Anisotropic charge transport in spherulitic poly(3-hexylthiophene) films. <i>Advanced Materials</i> , 2012 , 24, 839-44	24	157
105	Block copolymer morphologies in dye-sensitized solar cells: probing the photovoltaic structure-function relation. <i>Nano Letters</i> , 2009 , 9, 2813-9	11.5	156
104	2D Versus 3D Crystalline Order in Thin Films of Regioregular Poly(3-hexylthiophene) Oriented by Mechanical Rubbing and Epitaxy. <i>Advanced Functional Materials</i> , 2011 , 21, 4047-4057	15.6	133
103	Quantitative Analysis of Bulk Heterojunction Films Using Linear Absorption Spectroscopy and Solar Cell Performance. <i>Advanced Functional Materials</i> , 2011 , 21, 4640-4652	15.6	126
102	Segregated versus mixed interchain stacking in highly oriented films of naphthalene diimide bithiophene copolymers. <i>ACS Nano</i> , 2012 , 6, 10319-26	16.7	121
101	Microscopic mechanisms of electric-field-induced alignment of block copolymer microdomains. <i>Physical Review Letters</i> , 2002 , 89, 135502	7.4	118
100	Small contact resistance and high-frequency operation of flexible low-voltage inverted coplanar organic transistors. <i>Nature Communications</i> , 2019 , 10, 1119	17.4	110
99	Systematic Control of Nucleation Density in Poly(3-Hexylthiophene) Thin Films. <i>Advanced Functional Materials</i> , 2011 , 21, 518-524	15.6	110
98	Charge Transport Anisotropy in Highly Oriented Thin Films of the Acceptor Polymer P(NDI2OD-T2). <i>Advanced Energy Materials</i> , 2014 , 4, 1301659	21.8	100
97	Electric Field Induced Alignment of Concentrated Block Copolymer Solutions. <i>Macromolecules</i> , 2003 , 36, 8078-8087	5.5	98
96	On the efficiency of charge transfer state splitting in polymer:fullerene solar cells. <i>Advanced Materials</i> , 2014 , 26, 2533-9	24	94
95	Phase behavior of linear polystyrene-block-poly(2-vinylpyridine)-block-poly(tert-butyl methacrylate) triblock terpolymers. <i>Polymer</i> , 2003 , 44, 6815-6823	3.9	85
94	High-Temperature Rubbing: A Versatile Method to Align π -Conjugated Polymers without Alignment Substrate. <i>Macromolecules</i> , 2014 , 47, 3871-3879	5.5	80
93	Freestanding nanowire arrays from soft-etch block copolymer templates. <i>Soft Matter</i> , 2006 , 3, 94-98	3.6	78

92	Electrochemically induced reversible and irreversible coupling of triarylaminines. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 30-9	3.4	74
91	Combinatorial Mapping of the Phase Behavior of ABC Triblock Terpolymers in Thin Films: Experiments. <i>Macromolecules</i> , 2005 , 38, 1850-1858	5.5	68
90	Flexible low-voltage high-frequency organic thin-film transistors. <i>Science Advances</i> , 2020 , 6, eaaz5156	14.3	54
89	Triphenylamine and some of its derivatives as versatile building blocks for organic electronic applications. <i>Polymer International</i> , 2019 , 68, 589-606	3.3	49
88	Solvent-Vapor-Assisted Imprint Lithography. <i>Advanced Materials</i> , 2007 , 19, 757-761	24	46
87	Phase Behavior of ABC Triblock Terpolymers in Thin Films: Mesoscale Simulations. <i>Macromolecules</i> , 2005 , 38, 1859-1867	5.5	46
86	Electrochemical Investigations of the N-Type Semiconducting Polymer P(NDI2OD-T2) and Its Monomer: New Insights in the Reduction Behavior. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22760-22771	3.8	45
85	Highly crystalline films of PCPDTBT with branched side chains by solvent vapor crystallization: influence on opto-electronic properties. <i>Advanced Materials</i> , 2015 , 27, 1223-8	24	45
84	On the Molecular Origin of Charge Separation at the Donor-Acceptor Interface. <i>Advanced Energy Materials</i> , 2018 , 8, 1702232	21.8	45
83	Structure Formation of Polystyrene-block-poly(Ebenzyl l-glutamate) in Thin Films. <i>Macromolecules</i> , 2005 , 38, 7532-7535	5.5	44
82	Controlled Crystallization of Conjugated Polymer Films from Solution and Solvent Vapor for Polymer Electronics. <i>Advanced Functional Materials</i> , 2017 , 27, 1603083	15.6	41
81	Virus-directed formation of electrocatalytically active nanoparticle-based CoO tubes. <i>Nanoscale</i> , 2017 , 9, 6334-6345	7.7	39
80	Regioregular Polythiophenes with Alkylthiophene Side Chains. <i>Macromolecules</i> , 2012 , 45, 5782-5788	5.5	39
79	The PCPDTBT Family: Correlations between Chemical Structure, Polymorphism, and Device Performance. <i>Macromolecules</i> , 2017 , 50, 1402-1414	5.5	37
78	Revealing structure formation in PCPDTBT by optical spectroscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1416-1430	2.6	37
77	Template-directed control of crystal morphologies. <i>Macromolecular Bioscience</i> , 2007 , 7, 152-62	5.5	36
76	Alignment of Lamellar Block Copolymers via Electrohydrodynamic-Driven Micropatterning. <i>Advanced Materials</i> , 2008 , 20, 3022-3027	24	36
75	One-Dimensional Swelling of a pH-Dependent Nanostructure Based on ABC Triblock Terpolymers. <i>Macromolecules</i> , 2005 , 38, 2376-2382	5.5	36

74	The Next 100 Years of Polymer Science. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000216	2.6	36
73	Light-controlled morphologies of self-assembled triarylamine-fullerene conjugates. <i>ACS Nano</i> , 2015 , 9, 2760-72	16.7	35
72	Directed crystallization of poly(3-hexylthiophene) in micrometre channels under confinement and in electric fields. <i>Nanoscale</i> , 2012 , 4, 2138-44	7.7	35
71	Optoelectronic properties of hyperbranched polythiophenes. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 154-9	3.4	35
70	Roadmap to Gigahertz Organic Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 1903812	15.6	35
69	Water- and ionic-liquid-soluble branched polythiophenes bearing anionic and cationic moieties. <i>Journal of the American Chemical Society</i> , 2012 , 134, 43-6	16.4	34
68	Room temperature vacuum-induced ligand removal and patterning of ZnO nanoparticles: from semiconducting films towards printed electronics. <i>Journal of Materials Chemistry</i> , 2010 , 20, 874-879		34
67	Sub-100 fs charge transfer in a novel donor-acceptor-donor triad organized in a smectic film. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 273-9	3.6	33
66	Soft-etch mesoporous hole-conducting block copolymer templates. <i>ACS Nano</i> , 2010 , 4, 962-6	16.7	33
65	Control of gyroid forming block copolymer templates: effects of an electric field and surface topography. <i>Soft Matter</i> , 2010 , 6, 670-676	3.6	33
64	High Conductivities of Disordered P3HT Films by an Electrochemical Doping Strategy. <i>Chemistry of Materials</i> , 2020 , 32, 6003-6013	9.6	32
63	Influence of Processing Solvents on Optical Properties and Morphology of a Semicrystalline Low Bandgap Polymer in the Neutral and Charged States. <i>Macromolecules</i> , 2013 , 46, 4924-4931	5.5	32
62	Bioinspired Polymer/Inorganic Hybrid Materials. <i>Advanced Materials</i> , 2006 , 18, 2270-2273	24	32
61	Tuning Orientational Order of Highly Aggregating P(NDI2OD-T2) by Solvent Vapor Annealing and Blade Coating. <i>Macromolecules</i> , 2019 , 52, 43-54	5.5	31
60	Electrochemically induced formation of independent conductivity regimes in polymeric tetraphenylbenzidine systems. <i>ChemPhysChem</i> , 2010 , 11, 1637-40	3.2	30
59	Structural Models of Poly(cyclopentadithiophene-alt-benzothiadiazole) with Branched Side Chains: Impact of a Single Fluorine Atom on the Crystal Structure and Polymorphism of a Conjugated Polymer. <i>Macromolecules</i> , 2015 , 48, 3974-3982	5.5	28
58	Design of soluble hyperbranched polythiophenes with tailor-made optoelectronic properties. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 1323-7	4.8	28
57	Branched terthiophenes in organic electronics: from small molecules to polymers. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 115-37	4.8	27

56	Electrochemical behavior of electropolymerized and chemically synthesized hyperbranched polythiophenes. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10703-8	3.4	26
55	Tuning Aggregation by Regioregularity for High-Performance n-Type P(NDI2OD-T2) Donor-Acceptor Copolymers. <i>Macromolecules</i> , 2017 , 50, 5353-5366	5.5	25
54	Dithienosilole-based all-conjugated block copolymers synthesized by a combination of quasi-living Kumada and Negishi catalyst-transfer polycondensations. <i>Polymer Chemistry</i> , 2014 , 5, 5383-5390	4.9	24
53	Nanocomposites of Size-Tunable ZnO-Nanoparticles and Amphiphilic Hyperbranched Polymers. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 579-83	4.8	24
52	Electrically switchable metallic polymer nanoantennas. <i>Science</i> , 2021 , 374, 612-616	33.3	24
51	Chemical Doping of Conjugated Polymers with the Strong Oxidant Magic Blue. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000249	6.4	24
50	Poly(3-hexylthiophene) revisited – Influence of film deposition on the electrochemical behaviour and energy levels. <i>Electrochimica Acta</i> , 2018 , 269, 299-311	6.7	23
49	Block Copolymer Micellar Nanoreactors for the Directed Synthesis of ZnO Nanoparticles. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 729-34	4.8	23
48	Microstructure and Optoelectronic Properties of P3HT-b-P4VP/PCBM Blends: Impact of PCBM on the Copolymer Self-Assembly. <i>Macromolecules</i> , 2013 , 46, 8824-8831	5.5	21
47	Electropolymerized three-dimensional randomly branched EDOT-containing copolymers. <i>Langmuir</i> , 2013 , 29, 15463-73	4	20
46	Enhanced Photogeneration of Polaron Pairs in Neat Semicrystalline Donor-Acceptor Copolymer Films via Direct Excitation of Interchain Aggregates. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1196-203	6.4	19
45	Polythiophenes with Thiophene Side Chain Extensions: Convergent Syntheses and Investigation of Mesoscopic Order. <i>Macromolecules</i> , 2015 , 48, 7049-7059	5.5	19
44	Enhanced Stability of Rubrene against Oxidation by Partial and Complete Fluorination. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5515-5522	3.8	19
43	Design of conductive crown ether based columnar liquid crystals: impact of molecular flexibility and geometry. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 892-901	7.1	19
42	From Isotropic to Anisotropic Conductivities in P(NDI2OD-T2) by (Electro-)Chemical Doping Strategies. <i>Chemistry of Materials</i> , 2019 , 31, 3542-3555	9.6	18
41	Conductance and spectroscopic mapping of EDOT polymer films upon electrochemical doping. <i>Flexible and Printed Electronics</i> , 2020 , 5, 014016	3.1	18
40	Humidity-Controlled Water Uptake and Conductivities in Ion and Electron Mixed Conducting Polythiophene Films. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6742-6751	9.5	18
39	From Understanding Mechanical Behavior to Curvature Prediction of Humidity-Triggered Bilayer Actuators. <i>Advanced Materials</i> , 2021 , 33, e2007982	24	18

38	A Detailed Analysis of Multiple Photoreactions in a Light-Harvesting Molecular Triad with Overlapping Spectra by Ultrafast Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24290-24301	3.8	17
37	Electrochemical and optical properties of molecular triads based on triphenylamine, diketopyrrolopyrrole and boron-dipyrromethene. <i>Electrochimica Acta</i> , 2015 , 173, 847-859	6.7	16
36	Mixed conductivity of polythiophene-based ionic polymers under controlled conditions. <i>Polymer</i> , 2017 , 132, 216-226	3.9	16
35	In situ electrochemical monitoring of selective etching in ordered mesoporous block-copolymer templates. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1375-9	9.5	16
34	Simultaneous doping and crosslinking of polythiophene films. <i>Polymer Chemistry</i> , 2017 , 8, 7351-7359	4.9	13
33	Controlling charge separation and recombination by chemical design in donor-acceptor dyads. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 18536-48	3.6	13
32	A Critical Outlook for the Pursuit of Lower Contact Resistance in Organic Transistors. <i>Advanced Materials</i> , 2021 , e2104075	24	12
31	Electrochemical studies of a new, low-band gap inherently chiral ethylenedioxythiophene-based oligothiophene. <i>Electrochimica Acta</i> , 2018 , 284, 513-525	6.7	11
30	Functionalized branched EDOT-terthiophene copolymer films by electropolymerization and post-polymerization "click"-reactions. <i>Beilstein Journal of Organic Chemistry</i> , 2015 , 11, 335-47	2.5	11
29	Electrically switchable metasurface for beam steering using PEDOT polymers. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 124001	1.7	11
28	Semiconducting Polymer Spherulites-From Fundamentals to Polymer Electronics. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1800601	4.8	11
27	Tuning liquid crystalline phase behaviour in columnar crown ethers by sulfur substituents. <i>Organic Chemistry Frontiers</i> , 2017 , 4, 790-803	5.2	10
26	Synthesis and thin film phase behaviour of functional rod-coil block copolymers based on poly(para-phenylenevinylene) and poly(lactic acid). <i>Macromolecular Rapid Communications</i> , 2011 , 32, 813-9	4.8	10
25	Branched polythiophenes by Ni-catalyzed Kumada coupling. <i>Polymer Chemistry</i> , 2014 , 5, 6824-6833	4.9	9
24	A dithiocarbamate anchoring group as a flexible platform for interface engineering. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22511-22525	3.6	9
23	Towards highly conducting bicarbazole redox polymer films with plateau-like conductivities. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 15393-15405	7.1	8
22	Achieving 6.7% Efficiency in P3HT/Indene-C70 Bisadduct Solar Cells through the Control of Vertical Volume Fraction Distribution and Optimized Regio-Isomer Ratios. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600362	6.4	7
21	Push-pull thiophene chromophores for electro-optic applications: from 1D linear to Ebranched structures. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 2283-2294	3.6	7

20	Electrochemical Manipulation of Aligned Block Copolymer Templates. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e1900485	4.8	7
19	Water-Processable Self-Doped Conducting Polymers via Direct (Hetero)arylation Polymerization. <i>Macromolecules</i> , 2021 , 54, 5464-5472	5.5	7
18	Unsymmetric Bistable [c2]Daisy Chain Rotaxanes which Combine Two Types of Electroactive Stoppers. <i>European Journal of Organic Chemistry</i> , 2019 , 2019, 3421-3432	3.2	6
17	P(NDI2OD-T2) revisited □Aggregation control as key for high performance n-type applications. <i>Synthetic Metals</i> , 2019 , 253, 73-87	3.6	5
16	Rigidified Push-Pull Dyes: Using Chromophore Size, Donor, and Acceptor Units to Tune the Ground State between Neutral and the Cyanine Limit. <i>ChemPlusChem</i> , 2017 , 82, 1197-1210	2.8	5
15	Shear alignment and 2D charge transport of tilted smectic liquid crystalline phases □XRD and FET studies. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2615-2624	7.1	4
14	Impact of the Replacement of a Triphenylamine by a Diphenylmethylamine Unit on the Electrochemical Behavior of Pentaerythritol-Based Push-Pull Tetramers. <i>ChemElectroChem</i> , 2019 , 6, 4215-4228 ⁴	4.3	4
13	Hybrid Spintronic Materials from Conducting Polymers with Molecular Quantum Bits. <i>Advanced Functional Materials</i> , 2021 , 31, 2006882	15.6	4
12	Voltage-Induced Formation of Accumulation Layers at Electrode Interfaces in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2012 , 2, 983-991	21.8	3
11	Single waveguide silicon-organic hybrid modulator. <i>Advances in Radio Science</i> , 2015 , 15, 141-147		3
10	Mixed Ion-Carrier Diffusion in Poly(3-hexyl thiophene)/Perchlorate Electrochemical Systems. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 536-545	3.8	3
9	Hierarchically Structured Spherulitic Cobalt Hydroxide Carbonate as a Precursor to Ordered Nanostructures of Electrocatalytically Active Co3O4. <i>Crystal Growth and Design</i> , 2020 , 20, 6407-6420	3.5	3
8	In Situ Electrochemical Investigations of Inherently Chiral 2,2'-Biindole Architectures with Oligothiophene Terminals. <i>ChemElectroChem</i> , 2021 , 8, 3250-3261	4.3	2
7	Compositional Dependence of Li-Ion Conductivity in Garnet-Rich Composite Electrolytes for All-Solid-State Lithium-Ion Batteries-Toward Understanding the Drawbacks of Ceramic-Rich Composites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 31111-31128	9.5	2
6	Electrochemical Characterization of Redox Probes Confined in 3D Conducting Polymer Networks. <i>Chemistry - A European Journal</i> , 2021 , 27, 17255-17263	4.8	1
5	Actuators: From Understanding Mechanical Behavior to Curvature Prediction of Humidity-Triggered Bilayer Actuators (Adv. Mater. 9/2021). <i>Advanced Materials</i> , 2021 , 33, 2170067	24	1
4	Electrically Switchable Metasurface for Beam Steering Using PEDOT Polymers 2021 ,		1
3	V-shaped pyranilidene/triphenylamine-based chromophores with enhanced photophysical, electrochemical and nonlinear optical properties. <i>Materials Advances</i> , 2021 , 2, 4255-4263	3.3	1

2	In Situ Monitoring of Optical Constants, Conductivity, and Swelling of PEDOT:PSS from Doped to the Fully Neutral State. <i>Macromolecules</i> , 2022 , 55, 1600-1608	5-5	1
1	How charge trapping affects the conductivity of electrochemically doped poly(3-hexylthiophene) films. <i>Applied Physics Letters</i> , 2021 , 119, 163301	3-4	0