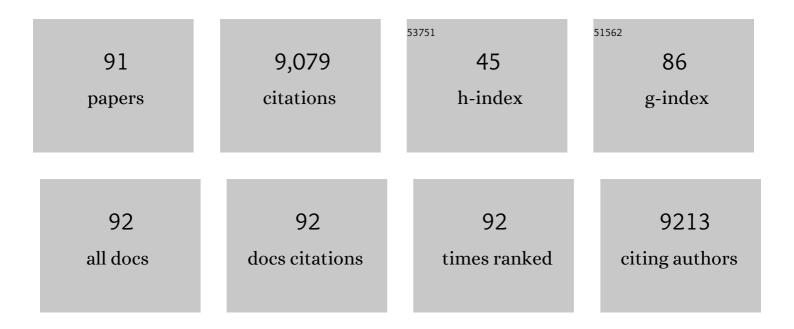
## **Christian B Nielsen**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Controlling morphology, adhesion, and electrochromic behavior of <scp>PEDOT</scp> films through molecular design and processing. Journal of Polymer Science, 2022, 60, 504-516.	2.0	8
2	Mixed Ionic and Electronic Conduction in Small-Molecule Semiconductors. Chemical Reviews, 2022, 122, 4397-4419.	23.0	52
3	From p―to nâ€Type Mixed Conduction in Isoindigoâ€Based Polymers through Molecular Design. Advanced Materials, 2022, 34, e2107829.	11.1	38
4	Resolving the backbone tilt of crystalline poly(3-hexylthiophene) with resonant tender X-ray diffraction. Materials Horizons, 2022, 9, 1649-1657.	6.4	3
5	Multi length scale porosity as a playground for organic thermoelectric applications. Journal of Materials Chemistry C, 2021, 9, 10173-10192.	2.7	8
6	Effect of substituting non-polar chains with polar chains on the structural dynamics of small organic molecule and polymer semiconductors. Physical Chemistry Chemical Physics, 2021, 23, 7462-7471.	1.3	5
7	Solution-Processed Donor–Acceptor Poly(3-hexylthiophene):Phenyl-C <sub>61</sub> -butyric Acid Methyl Ester Diodes for Low-Voltage α Particle Detection. ACS Applied Materials & Interfaces, 2021, 13, 6470-6479.	4.0	2
8	Thermoelectric Materials: Current Status and Future Challenges. Frontiers in Electronic Materials, 2021, 1, .	1.6	41
9	Quantitative insights into the phase behaviour and miscibility of organic photovoltaic active layers from the perspective of neutron spectroscopy. Journal of Materials Chemistry C, 2021, 9, 11873-11881.	2.7	2
10	Aldol Polymerization to Construct Half-Fused Semiconducting Polymers. Macromolecules, 2021, 54, 10312-10320.	2.2	15
11	Quantitative Insights into the Adsorption Structure of Diindeno[1,2- <i>a</i> ;1′,2′- <i>c</i> ]fluorene-5,10,15-trione (Truxenone) on a Cu(111) Surface Using X-ray Standing Waves. ACS Omega, 2021, 6, 34525-34531.	1.6	0
12	The role of chemical design in the performance of organic semiconductors. Nature Reviews Chemistry, 2020, 4, 66-77.	13.8	444
13	Effect of polar side chains on neutral and p-doped polythiophene. Journal of Materials Chemistry C, 2020, 8, 16216-16223.	2.7	34
14	Semiconducting Small Molecules as Active Materials for pâ€Type Accumulation Mode Organic Electrochemical Transistors. Advanced Electronic Materials, 2020, 6, 2000215.	2.6	46
15	Conjugated molecules for colourimetric and fluorimetric sensing of sodium and potassium. Materials Chemistry Frontiers, 2020, 4, 2370-2377.	3.2	8
16	Mapping Microstructural Dynamics up to the Nanosecond of the Conjugated Polymer P3HT in the Solid State. Chemistry of Materials, 2019, 31, 9635-9651.	3.2	10
17	Organic semiconductors for biological sensing. Journal of Materials Chemistry C, 2019, 7, 1111-1130.	2.7	84
18	Glycolated Thiopheneâ€Tetrafluorophenylene Copolymers for Bioelectronic Applications: Synthesis by Direct Heteroarylation Polymerisation. ChemPlusChem, 2019, 84, 1384-1390.	1.3	26

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19	Investigation of the thermoelectric response in conducting polymers doped by solid-state diffusion. Materials Today Physics, 2019, 8, 112-122.	2.9	40
20	Conjugated Polymers for n- and p-Type Charge Transport. , 2019, , 325-428.		0
21	Redoxâ€Stability of Alkoxyâ€BDT Copolymers and their Use for Organic Bioelectronic Devices. Advanced Functional Materials, 2018, 28, 1706325.	7.8	77
22	Performance Improvements in Conjugated Polymer Devices by Removal of Waterâ€Induced Traps. Advanced Materials, 2018, 30, e1801874.	11.1	69
23	Stereoselective Reactions of ortho-Quinone Methide and ortho-Quinone Methide Imines and Their Utility in Natural Product Synthesis. Synthesis, 2018, 50, 4008-4018.	1.2	61
24	Synthesis of Hetero-bifunctional, End-Capped Oligo-EDOT Derivatives. CheM, 2017, 2, 125-138.	5.8	21
25	Highly efficient perovskite solar cells with crosslinked PCBM interlayers. Journal of Materials Chemistry A, 2017, 5, 2466-2472.	5.2	49
26	High mobility, hole transport materials for highly efficient PEDOT:PSS replacement in inverted perovskite solar cells. Journal of Materials Chemistry C, 2017, 5, 4940-4945.	2.7	56
27	Tuning the effective spin-orbit coupling in molecular semiconductors. Nature Communications, 2017, 8, 15200.	5.8	70
28	Secondary kinetic deuterium isotope effects. The CC cleavage of labeled tetramethylethylenediamine radical cations—Who gets to keep the electron?. International Journal of Mass Spectrometry, 2017, 413, 92-96.	0.7	3
29	Singlet Exciton Lifetimes in Conjugated Polymer Films for Organic Solar Cells. Polymers, 2016, 8, 14.	2.0	111
30	Organic Photovoltaics: More than Ever, an Interdisciplinary Field. Polymers, 2016, 8, 70.	2.0	2
31	New Insights into the Molecular Dynamics of P3HT:PCBM Bulk Heterojunction: A Time-of-Flight Quasi-Elastic Neutron Scattering Study. Journal of Physical Chemistry Letters, 2016, 7, 2252-2257.	2.1	19
32	Sodium and Potassium Ion Selective Conjugated Polymers for Optical Ion Detection in Solution and Solid State. Advanced Functional Materials, 2016, 26, 514-523.	7.8	56
33	Azaisoindigo conjugated polymers for high performance n-type and ambipolar thin film transistor applications. Journal of Materials Chemistry C, 2016, 4, 9704-9710.	2.7	65
34	Controlling the mode of operation of organic transistors through side-chain engineering. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12017-12022.	3.3	364
35	Epitaxial Templating of C60 with a Molecular Monolayer. Journal of Physical Chemistry Letters, 2016, 7, 3487-3490.	2.1	7
36	Naphthacenodithiophene Based Polymers—New Members of the Acenodithiophene Family Exhibiting High Mobility and Power Conversion Efficiency. Advanced Functional Materials, 2016, 26, 6961-6969.	7.8	19

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37	The effect of fluorination on the surface structure of truxenones. RSC Advances, 2016, 6, 67315-67318.	1.7	2
38	Molecular Design of Semiconducting Polymers for High-Performance Organic Electrochemical Transistors. Journal of the American Chemical Society, 2016, 138, 10252-10259.	6.6	270
39	N-type organic electrochemical transistors with stability in water. Nature Communications, 2016, 7, 13066.	5.8	242
40	Charge generation in polymer:fullerene photovoltaic systems (Conference Presentation). , 2016, , .		0
41	High-efficiency and air-stable P3HT-based polymer solar cells with a new non-fullerene acceptor. Nature Communications, 2016, 7, 11585.	5.8	1,053
42	Organic/inorganic epitaxy: commensurate epitaxial growth of truxenone on Cu (111). RSC Advances, 2016, 6, 17125-17128.	1.7	4
43	A Thieno[3,2â€ <i>b</i> ][1]benzothiophene Isoindigo Building Block for Additive―and Annealingâ€Free Highâ€Performance Polymer Solar Cells. Advanced Materials, 2015, 27, 4702-4707.	11.1	120
44	Effects of alkyl chain positioning on conjugated polymer microstructure and field-effect mobilities. MRS Communications, 2015, 5, 435-440.	0.8	2
45	Chalcogenophene Comonomer Comparison in Small Band Gap Diketopyrrolopyrrole-Based Conjugated Polymers for High-Performing Field-Effect Transistors and Organic Solar Cells. Journal of the American Chemical Society, 2015, 137, 1314-1321.	6.6	363
46	A Rhodanine Flanked Nonfullerene Acceptor for Solution-Processed Organic Photovoltaics. Journal of the American Chemical Society, 2015, 137, 898-904.	6.6	446
47	Dual Function Additives: A Small Molecule Crosslinker for Enhanced Efficiency and Stability in Organic Solar Cells. Advanced Energy Materials, 2015, 5, 1401426.	10.2	61
48	Effect of Fluorination of 2,1,3-Benzothiadiazole. Journal of Organic Chemistry, 2015, 80, 5045-5048.	1.7	96
49	An electron beam evaporated TiO <sub>2</sub> layer for high efficiency planar perovskite solar cells on flexible polyethylene terephthalate substrates. Journal of Materials Chemistry A, 2015, 3, 22824-22829.	5.2	116
50	Non-Fullerene Electron Acceptors for Use in Organic Solar Cells. Accounts of Chemical Research, 2015, 48, 2803-2812.	7.6	1,063
51	Dithienosilolothiophene: A New Polyfused Donor for Organic Electronics. Macromolecules, 2015, 48, 5557-5562.	2.2	3
52	2,1,3â€Benzothiadiazoleâ€5,6â€Dicarboxylic Imide – A Versatile Building Block for Additive―and Annealingâ€ Processing of Organic Solar Cells with Efficiencies Exceeding 8%. Advanced Materials, 2015, 27, 948-953.	Free 11.1	88
53	Benzotrithiophene Copolymers: Influence of Molecular Packing and Energy Levels on Charge Carrier Mobility. Macromolecules, 2014, 47, 2883-2890.	2.2	26
54	Towards optimisation of photocurrent from fullerene excitons in organic solar cells. Energy and Environmental Science, 2014, 7, 1037.	15.6	42

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55	Electron-deficient truxenone derivatives and their use in organic photovoltaics. Journal of Materials Chemistry A, 2014, 2, 12348-12354.	5.2	32
56	Power conversion efficiency enhancement in diketopyrrolopyrrole based solar cells through polymer fractionation. Journal of Materials Chemistry C, 2014, 2, 8593-8598.	2.7	14
57	Thieno[3,2â€ <i>b</i> ]thiophene Flanked Isoindigo Polymers for High Performance Ambipolar OFET Applications. Advanced Functional Materials, 2014, 24, 7109-7115.	7.8	58
58	Bis-lactam-based donor polymers for organic solar cells: Evolution by design. Thin Solid Films, 2014, 560, 82-85.	0.8	3
59	New Fused Bis-Thienobenzothienothiophene Copolymers and Their Use in Organic Solar Cells and Transistors. Macromolecules, 2013, 46, 727-735.	2.2	43
60	Post-Polymerization Ketalization for Improved Organic Photovoltaic Materials. Macromolecules, 2013, 46, 7727-7732.	2.2	14
61	Charge-Transfer State Dynamics Following Hole and Electron Transfer in Organic Photovoltaic Devices. Journal of Physical Chemistry Letters, 2013, 4, 209-215.	2.1	120
62	Efficient truxenone-based acceptors for organic photovoltaics. Journal of Materials Chemistry A, 2013, 1, 73-76.	5.2	48
63	Fused Dithienogermolodithiophene Low Band Gap Polymers for High-Performance Organic Solar Cells without Processing Additives. Journal of the American Chemical Society, 2013, 135, 2040-2043.	6.6	145
64	Effect of Fluorination on the Properties of a Donor–Acceptor Copolymer for Use in Photovoltaic Cells and Transistors. Chemistry of Materials, 2013, 25, 277-285.	3.2	218
65	Recent advances in transistor performance of polythiophenes. Progress in Polymer Science, 2013, 38, 2053-2069.	11.8	117
66	Influence of Crystallinity and Energetics on Charge Separation in Polymer–Inorganic Nanocomposite Films for Solar Cells. Scientific Reports, 2013, 3, 1531.	1.6	84
67	Improved Field-Effect Transistor Performance of a Benzotrithiophene Polymer through Ketal Cleavage in the Solid State. ACS Applied Materials & Interfaces, 2013, 5, 1806-1810.	4.0	23
68	Correction to "Improved Field-Effect Transistor Performance of a Benzotrithiophene Polymer through Ketal Cleavage in the Solid State― ACS Applied Materials & Interfaces, 2013, 5, 2783-2783.	4.0	0
69	Recent Advances in the Development of Semiconducting DPP ontaining Polymers for Transistor Applications. Advanced Materials, 2013, 25, 1859-1880.	11.1	793
70	Alkyl side-chain branching point effects in thieno[3,4-c]pyrrole-4,6-dione copolymers. Journal of Organic Semiconductors, 2013, 1, 30-35.	1.2	7
71	Random benzotrithiophene-based donor–acceptor copolymers for efficient organic photovoltaic devices. Chemical Communications, 2012, 48, 5832.	2.2	111
72	On the Energetic Dependence of Charge Separation in Low-Band-Gap Polymer/Fullerene Blends. Journal of the American Chemical Society, 2012, 134, 18189-18192.	6.6	180

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73	Synthesis of novel thieno[3,2-b]thienobis(silolothiophene) based low bandgap polymers for organic photovoltaics. Chemical Communications, 2012, 48, 7699.	2.2	63
74	Efficient Charge Photogeneration by the Dissociation of PC70BM Excitons in Polymer/Fullerene Solar Cells. Journal of Physical Chemistry Letters, 2012, 3, 140-144.	2.1	56
75	Recent advances in high mobility donor–acceptor semiconducting polymers. Journal of Materials Chemistry, 2012, 22, 14803.	6.7	138
76	A Systematic Approach to the Design Optimization of Lightâ€Absorbing Indenofluorene Polymers for Organic Photovoltaics. Advanced Energy Materials, 2012, 2, 260-265.	10.2	48
77	Design of Semiconducting Indacenodithiophene Polymers for High Performance Transistors and Solar Cells. Accounts of Chemical Research, 2012, 45, 714-722.	7.6	256
78	Influence of the Alkyl Mantle on the Self-Assembly of Phenyleneâ^'Thienylene-Based Oligomers. Chemistry of Materials, 2011, 23, 1939-1945.	3.2	8
79	Benzotrithiophene - A Planar, Electron-Rich Building Block for Organic Semiconductors. Organic Letters, 2011, 13, 2414-2417.	2.4	68
80	Benzotrithiophene Co-polymers with High Charge Carrier Mobilities in Field-Effect Transistors. Chemistry of Materials, 2011, 23, 4025-4031.	3.2	56
81	Pyrroloindacenodithiophene containing polymers for organic field effect transistors and organic photovoltaics. Journal of Materials Chemistry, 2011, 21, 18744.	6.7	50
82	A benzotrithiophene-based low band gap polymer for polymer solar cells with high open-circuit voltage. Journal of Materials Chemistry, 2011, 21, 17642.	6.7	44
83	Influence of alkyl chain length on charge transport in symmetrically substituted poly(2,5-dialkoxy- <mml:math )="" 0.784314="" 1="" <="" etqq1="" rgbt="" td="" tj="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td>Overlock</td><td>10 Tf 50 34<mark>2</mark></td></mml:math>	Overlock	10 Tf 50 34 <mark>2</mark>
84	2009, 79, . Influence of side chain symmetry on the performance of poly(2,5-dialkoxy-p-phenylenevinylene): fullerene blend solar cells. Organic Electronics, 2009, 10, 562-567.	1.4	18
85	Discrete Photopatternable π-Conjugated Oligomers for Electrochromic Devices. Journal of the American Chemical Society, 2008, 130, 9734-9746.	6.6	122
86	Correlation between microstructure and charge transport in poly(2,5-dimethoxy-p-phenylenevinylene) thin films. Physical Review B, 2007, 76, .	1.1	17
87	Structureâ^'Property Relations of Regiosymmetrical 3,4-Dioxy-Functionalized Polythiophenes. Macromolecules, 2005, 38, 10379-10387.	2.2	28
88	Macroscopic Alignment of Graphene Stacks by Langmuirâ^'Blodgett Deposition of Amphiphilic Hexabenzocoronenes. Langmuir, 2004, 20, 4139-4146.	1.6	46
89	New Regiosymmetrical Dioxopyrrolo- and Dihydropyrrolo-Functionalized Polythiophenes. Organic Letters, 2004, 6, 3381-3384.	2.4	100
90	Drastic Enhancement of X-ray Scattering Contrast between Amorphous and Crystalline Phases of Poly(3-hexylthiophene) at the Sulfur K-Edge. , 0, , 764-769.		5

#	Article	IF	CITATIONS
91	Critical analysis of self-doping and water-soluble n-type organic semiconductors: structures and mechanisms. Journal of Materials Chemistry C, 0, , .	2.7	3