

# Dirk Jm Vanderzande

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6754818/dirk-jm-vanderzande-publications-by-citations.pdf>

**Version:** 2024-04-25

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.

343  
papers

10,850  
citations

53  
h-index

87  
g-index

360  
ext. papers

11,453  
ext. citations

5.2  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
343	The Relation Between Open-Circuit Voltage and the Onset of Photocurrent Generation by Charge-Transfer Absorption in Polymer : Fullerene Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 2064-2070	15.6	468
342	Effect of Temperature and Illumination on the Electrical Characteristics of Polymer/Fullerene Bulk-Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , <b>2004</b> , 14, 38-44	15.6	448
341	Phase diagram of P3HT/PCBM blends and its implication for the stability of morphology. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 1587-91	3.4	307
340	Effect of temperature on the morphological and photovoltaic stability of bulk heterojunction polymer:fullerene solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2008</b> , 92, 753-760	6.4	253
339	Formation of a Ground-State Charge-Transfer Complex in Polyfluorene//[6,6]-Phenyl-C61 Butyric Acid Methyl Ester (PCBM) Blend Films and Its Role in the Function of Polymer/PCBM Solar Cells. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 451-457	15.6	234
338	Low Band Gap Donor/Acceptor Conjugated Polymers toward Organic Solar Cells Applications. <i>Macromolecules</i> , <b>2007</b> , 40, 65-72	5.5	206
337	Disclosure of the nanostructure of MDMO-PPV:PCBM bulk hetero-junction organic solar cells by a combination of SPM and TEM. <i>Synthetic Metals</i> , <b>2003</b> , 138, 243-247	3.6	190
336	Charge transport and recombination in bulk heterojunction solar cells studied by the photoinduced charge extraction in linearly increasing voltage technique. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 112104	3.4	169
335	Life cycle analyses of organic photovoltaics: a review. <i>Energy and Environmental Science</i> , <b>2013</b> , 6, 3136	35.4	155
334	Strategy for Enhancing the Dielectric Constant of Organic Semiconductors Without Sacrificing Charge Carrier Mobility and Solubility. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 150-157	15.6	150
333	Observation of the subgap optical absorption in polymer-fullerene blend solar cells. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 052113	3.4	150
332	Hybrid solar cells based on dye-sensitized nanoporous TiO <sub>2</sub> electrodes and conjugated polymers as hole transport materials. <i>Synthetic Metals</i> , <b>2001</b> , 125, 279-287	3.6	148
331	Porphyrin-Based Bulk Heterojunction Organic Photovoltaics: The Rise of the Colors of Life. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500218	21.8	146
330	Influence of thermal ageing on the stability of polymer bulk heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2007</b> , 91, 385-389	6.4	145
329	Low-band gap polymers for photovoltaic applications. <i>Thin Solid Films</i> , <b>2004</b> , 451-452, 7-11	2.2	142
328	Absorption phenomena in organic thin films for solar cell applications investigated by photothermal deflection spectroscopy. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 1413-1418	4.3	132
327	A New Synthetic Route to a Soluble High Molecular Weight Precursor for Poly(p-phenylenevinylene) derivatives. <i>Macromolecules</i> , <b>1995</b> , 28, 1330-1331	5.5	127

326	Efficient formation, isolation and characterization of poly(3-alkylthiophene) nanofibres: probing order as a function of side-chain length. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 5424		117
325	Investigation of the degradation mechanisms of a variety of organic photovoltaic devices by combination of imaging techniquesThe ISOS-3 inter-laboratory collaboration. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 6521	35.4	116
324	Effect of Alkyl Side-Chain Length on Photovoltaic Properties of Poly(3-alkylthiophene)/PCBM Bulk Heterojunctions. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 3300-3306	15.6	103
323	The ISOS-3 inter-laboratory collaboration focused on the stability of a variety of organic photovoltaic devices. <i>RSC Advances</i> , <b>2012</b> , 2, 882-893	3.7	102
322	Influence of Fullerene Ordering on the Energy of the Charge-Transfer State and Open-Circuit Voltage in Polymer:Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 10873-10880	3.8	88
321	A MIP-based impedimetric sensor for the detection of low-MW molecules. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 23, 913-8	11.8	88
320	Atmospheric correction of Landsat-8/OLI and Sentinel-2/MSI data using iCOR algorithm: validation for coastal and inland waters. <i>European Journal of Remote Sensing</i> , <b>2018</b> , 51, 525-542	2.9	88
319	Varying polymer crystallinity in nanofiber poly(3-alkylthiophene): PCBM solar cells: Influence on charge-transfer state energy and open-circuit voltage. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 123303	3.4	87
318	Alkyl-Chain-Length-Independent Hole Mobility via Morphological Control with Poly(3-alkylthiophene) Nanofibers. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 792-802	15.6	87
317	Novel Regiospecific MDMOBPV Copolymer with Improved Charge Transport for Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 5235-5242	3.4	81
316	High dielectric constant conjugated materials for organic photovoltaics. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24037-24050	13	79
315	Controlling the Morphology and Efficiency of Hybrid ZnO:Polythiophene Solar Cells Via Side Chain Functionalization. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 90-96	21.8	78
314	Synthesis of 3,4-Diphenyl-Substituted Poly(Thienylene Vinylene), Low-Band-Gap Polymers via the Dithiocarbamate Route. <i>Macromolecules</i> , <b>2005</b> , 38, 19-26	5.5	78
313	Photoinduced charge transfer in composites of conjugated polymers and semiconductor nanocrystals. <i>Nanotechnology</i> , <b>2004</b> , 15, 163-170	3.4	77
312	Low-bandgap conjugated polymers. A joint experimental and theoretical study of the structure of polyisothianaphthene. <i>Macromolecules</i> , <b>1992</b> , 25, 7347-7356	5.5	77
311	Low band-gap polymeric photovoltaic devices. <i>Synthetic Metals</i> , <b>2001</b> , 121, 1583-1584	3.6	75
310	Copolymers of 3,4-Ethylenedioxythiophene and of Pyridine Alternated with Fluorene or Phenylene Units: Synthesis, Optical Properties, and Devices. <i>Macromolecules</i> , <b>2004</b> , 37, 4087-4098	5.5	72
309	Synthesis of poly(p-phenylene vinylene) materials via the precursor routes. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 275-285	4.9	71

308	Molar Mass versus Polymer Solar Cell Performance: Highlighting the Role of Homocouplings. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3726-3732	9.6	68
307	Improved Photovoltaic Performance of a Semicrystalline Narrow Bandgap Copolymer Based on 4H-Cyclopenta[2,1-b:3,4-b']dithiophene Donor and Thiazolo[5,4-d]thiazole Acceptor Units. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 587-593	9.6	68
306	MIP-based sensor platforms for the detection of histamine in the nano- and micromolar range in aqueous media. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 148, 392-398	8.5	68
305	A comparison between state-of-the-art $\mu$ lch and $\mu$ lphynyl synthesized MDMO-PPV/PCBM bulk hetero-junction solar cells. <i>Thin Solid Films</i> , <b>2002</b> , 403-404, 247-251	2.2	67
304	Influence of fullerene photodimerization on the PCBM crystallization in polymer: Fullerene bulk heterojunctions under thermal stress. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2013</b> , 51, 1209-1214	2.6	64
303	Enhanced Organic Solar Cell Stability by Polymer (PCPDTBT) Side Chain Functionalization. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 1332-1341	9.6	62
302	New Synthesis of a Soluble High Molecular Weight Poly(arylene vinylene): Poly[2-methoxy-5-(3,7-dimethyloctyloxy)-p-phenylene vinylene]. Polymerization and Device Properties. <i>Macromolecules</i> , <b>1999</b> , 32, 6517-6525	5.5	62
301	A general synthetic route to high molecular weight poly(p-xylylene)-derivatives: a new route to poly(p-phenylene vinylene). <i>Synthetic Metals</i> , <b>1995</b> , 69, 509-510	3.6	62
300	Synthesis of poly(2,5-Thienylene Vinylene) and its derivatives: Low band gap materials for photovoltaics. <i>Thin Solid Films</i> , <b>2008</b> , 516, 3978-3988	2.2	60
299	Thiazolo[5,4-d]thiazoles promising building blocks in the synthesis of semiconductors for plastic electronics. <i>RSC Advances</i> , <b>2013</b> , 3, 11418	3.7	57
298	Thermal Stability of Poly[2-methoxy-5-(2-phenylethoxy)-1,4-phenylenevinylene] (MPE-PPV): Fullerene Bulk Heterojunction Solar Cells. <i>Macromolecules</i> , <b>2011</b> , 44, 8470-8478	5.5	57
297	Synthesis and Characterization of a Poly(1,3-dithienylisothianaphthene) Derivative for Bulk Heterojunction Photovoltaic Cells. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 11106-11113	3.4	57
296	Influence of nanoscale phase separation on geminate versus bimolecular recombination in P3HT:fullerene blend films. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 971	35.4	56
295	Controlling the morphology of nanofiber-P3HT:PCBM blends for organic bulk heterojunction solar cells. <i>Organic Electronics</i> , <b>2009</b> , 10, 1248-1251	3.5	56
294	Identification and Quantification of Polymerization Defects in $^{13}\text{C}$ -Labeled Sulfinyl and Gilch OC1C10BPV by NMR Spectroscopy. <i>Macromolecules</i> , <b>2003</b> , 36, 5613-5622	5.5	56
293	Investigation of melamine-formaldehyde cure by Fourier transform Raman spectroscopy. <i>Vibrational Spectroscopy</i> , <b>1993</b> , 6, 55-69	2.1	56
292	Polymerization of a p-quinodimethane derivative to a precursor of poly(p-phenylene vinylene) indications for a free radical mechanism. <i>Polymer</i> , <b>1997</b> , 38, 2571-2574	3.9	55
291	Role of electron-hole pair formation in organic magnetoresistance. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	53

290	Bulk heterojunction organic solar cells based on soluble poly(thienylene vinylene) derivatives. <i>Organic Electronics</i> , <b>2008</b> , 9, 740-746	3.5	53
289	In situ conductivity measurements on polyethylenedioxythiophene derivatives with different counter ions. <i>Synthetic Metals</i> , <b>2002</b> , 126, 193-198	3.6	52
288	The synthesis of poly(1,4-phenylene-1,2-ethanediyl) derivatives: an adaptation of the wessling route. <i>Synthetic Metals</i> , <b>1992</b> , 52, 125-130	3.6	52
287	NMR study of the nanomorphology in thin films of polymer blends used in organic PV devices: MDMO-PPV/PCBM. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 138-145	2.5	51
286	Kinetic Monte Carlo Modeling of the Sulfinyl Precursor Route for Poly(p-phenylene vinylene) Synthesis. <i>Macromolecules</i> , <b>2011</b> , 44, 8716-8726	5.5	50
285	Improved thermal stability of bulk heterojunctions based on side-chain functionalized poly(3-alkylthiophene) copolymers and PCBM. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 110, 69-76	6.4	49
284	Imidazolium-Substituted Polythiophenes as Efficient Electron Transport Materials Improving Photovoltaic Performance. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1180-1185	21.8	49
283	Conjugated polymers based on new thienylene [PPV] derivatives for solar cell applications. <i>Electrochemistry Communications</i> , <b>2002</b> , 4, 912-916	5.1	47
282	Modelling the short-circuit current of polymer bulk heterojunction solar cells. <i>Thin Solid Films</i> , <b>2004</b> , 451-452, 498-502	2.2	47
281	Determination of free melamine content in melamine-formaldehyde resins by Raman spectroscopy. <i>Vibrational Spectroscopy</i> , <b>1995</b> , 9, 139-146	2.1	45
280	Grignard Reactions on Ortho Dicarboxylic Arene Derivatives. Synthesis of 1,3-Dithienylisothianaphthene Compounds. <i>Journal of Organic Chemistry</i> , <b>1997</b> , 62, 1473-1480	4.2	44
279	A MIP-based biomimetic sensor for the impedimetric detection of histamine in different pH environments. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 837-843	1.6	43
278	Effect of Polymer Crystallinity in P3HT:PCBM Solar Cells on Band Gap Trap States and Apparent Recombination Order. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 466-471	21.8	42
277	Synthesis of poly(p-phenylene vinylene) and derivatives via a new precursor route, the dithiocarbamate route. <i>Polymer</i> , <b>2006</b> , 47, 123-131	3.9	42
276	Precursor route poly(thienylene vinylene) for organic solar cells: Photophysics and photovoltaic performance. <i>Solar Energy Materials and Solar Cells</i> , <b>2006</b> , 90, 2815-2828	6.4	42
275	Degradation of the Formamidinium Cation and the Quantification of the Formamidinium/Methylammonium Ratio in Lead Iodide Hybrid Perovskites by Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 4117-4124	3.8	41
274	Toward bulk heterojunction polymer solar cells with thermally stable active layer morphology. <i>Journal of Photonics for Energy</i> , <b>2014</b> , 4, 040997	1.2	41
273	Photoactive Blends of Poly(para-phenylenevinylene) (PPV) with Methanofullerenes from a Novel Precursor: Photophysics and Device Performance. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 1528-1536	3.4	41

272	PPV-Based Conjugated Polymer Nanoparticles as a Versatile Bioimaging Probe: A Closer Look at the Inherent Optical Properties and Nanoparticle-Cell Interactions. <i>Biomacromolecules</i> , <b>2016</b> , 17, 2562-71	6.9	40
271	Charge dissociation in polymer:fullerene bulk heterojunction solar cells with enhanced permittivity. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 114517	2.5	40
270	Quantitative magnetic resonance imaging study of water uptake by polyamide 4,6. <i>Polymer</i> , <b>2001</b> , 42, 7943-7952	3.9	40
269	Optimization of the Polymerization Process of Sulfinyl Precursor Polymers toward Poly(p-phenylenevinylene). <i>Macromolecules</i> , <b>1999</b> , 32, 5728-5735	5.5	39
268	Study of Solvent Diffusion in Polymeric Materials Using Magnetic Resonance Imaging. <i>Macromolecules</i> , <b>1995</b> , 28, 8541-8547	5.5	39
267	Enhanced intrinsic stability of the bulk heterojunction active layer blend of polymer solar cells by varying the polymer side chain pattern. <i>Organic Electronics</i> , <b>2014</b> , 15, 549-562	3.5	38
266	Comparison of the electrical characteristics of four 2,5-substituted poly(p-phenylene vinylene) derivatives with different side chains. <i>Thin Solid Films</i> , <b>2006</b> , 511-512, 328-332	2.2	38
265	The Gilch polymerisation towards OC1C10-PPV: indications for a radical mechanism. <i>Polymer</i> , <b>2001</b> , 42, 5793-5796	3.9	38
264	Highly Selective Route for Producing Unsymmetrically Substituted Monomers toward Synthesis of Conjugated Polymers Derived from Poly(p-phenylene vinylene). <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 3106-3112	4.2	38
263	New synthetic routes to poly (isothianaphthene) I. Reaction of phthalic anhydride and phthalide with phosphorus pentasulfide. <i>Synthetic Metals</i> , <b>1995</b> , 74, 65-70	3.6	38
262	Eco-friendly fabrication of PBDTTPD:PC71BM solar cells reaching a PCE of 3.8% using water-based nanoparticle dispersions. <i>Organic Electronics</i> , <b>2017</b> , 42, 42-46	3.5	36
261	Towards 2D layered hybrid perovskites with enhanced functionality: introducing charge-transfer complexes via self-assembly. <i>Chemical Communications</i> , <b>2019</b> , 55, 2481-2484	5.8	36
260	Plasma Deposition of Thiophene Derivatives Under Atmospheric Pressure. <i>Chemical Vapor Deposition</i> , <b>2006</b> , 12, 719-727		36
259	Effect of molecular weight on morphology and photovoltaic properties in P3HT:PCBM solar cells. <i>Organic Electronics</i> , <b>2015</b> , 21, 160-170	3.5	35
258	Poly(3-alkylthiophene) nanofibers for optoelectronic devices. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 5730	7.1	35
257	Continuous Flow Polymer Synthesis toward Reproducible Large-Scale Production for Efficient Bulk Heterojunction Organic Solar Cells. <i>ChemSusChem</i> , <b>2015</b> , 8, 3228-33	8.3	35
256	Quantitative carbon-13 solid-state n.m.r. and FT-Raman spectroscopy in novolac resins. <i>Polymer</i> , <b>1998</b> , 39, 5293-5300	3.9	35
255	Poly(thienylene vinylene) derivatives as low band gap polymers for photovoltaic applications. <i>Thin Solid Films</i> , <b>2004</b> , 451-452, 572-579	2.2	35

254	On the stability of a variety of organic photovoltaic devices by IPCE and in situ IPCE analyses--the ISOS-3 inter-laboratory collaboration. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 11824-45	3.6	34
253	Identification of some important metabolites of boldenone in urine and feces of cattle by gas chromatography-mass spectrometry. <i>Analyst, The</i> , <b>1998</b> , 123, 2681-86	5	34
252	Influence of polymer ionization potential on the open-circuit voltage of hybrid polymer/TiO <sub>2</sub> solar cells. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 053308	3.4	34
251	Convenient synthesis and polymerization of 5,6-disubstituted dithiophthalides toward soluble poly(isothianaphthene): An initial spectroscopic characterization of the resulting low-band-gap polymers. <i>Journal of Polymer Science Part A</i> , <b>2003</b> , 41, 1034-1045	2.5	34
250	Verification of Radical and Anionic Polymerization Mechanisms in the Sulfinyl and the Gilch Route. <i>Macromolecules</i> , <b>2003</b> , 36, 3035-3044	5.5	33
249	The synthesis of regio-regular poly(3-alkyl-2,5-thienylene vinylene) derivatives using lithium bis(trimethylsilyl)amide (LHMDS) in the dithiocarbamate precursor route. <i>Solar Energy Materials and Solar Cells</i> , <b>2007</b> , 91, 1026-1034	6.4	32
248	High-resolution morphological and electrical characterisation of organic bulk heterojunction solar cells by scanning probe microscopy. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2007</b> , 15, 713-726	6.8	32
247	Light-emitting organic field-effect transistor using an organic heterostructure within the transistor channel. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 223504	3.4	32
246	Polymerization Behavior of Xanthate-Containing Monomers toward PPV Precursor Polymers: Study of the Elimination Behavior of Precursor Polymers and Oligomers with in-Situ FT-IR and UV-Vis Analytical Techniques. <i>Macromolecules</i> , <b>2002</b> , 35, 7902-7910	5.5	32
245	Controlled/living polymerization towards functional poly(p-phenylene vinylene) materials. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 1355-1367	4.9	31
244	TOF-SIMS investigation of degradation pathways occurring in a variety of organic photovoltaic devices--the ISOS-3 inter-laboratory collaboration. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 11780-99	3.6	31
243	Generation of specifically substituted pyridines and pyridones from 2(1h) pyrazinones and acetylenes : A FMO description. <i>Tetrahedron</i> , <b>1990</b> , 46, 5715-5732	2.4	31
242	High-Permittivity Conjugated Polyelectrolyte Interlayers for High-Performance Bulk Heterojunction Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 6309-14	9.5	31
241	Fluorination as an effective tool to increase the open-circuit voltage and charge carrier mobility of organic solar cells based on poly(cyclopenta[2,1-b:3,4-b']dithiophene-alt-quinoxaline) copolymers. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2960-2970	13	30
240	Enhanced open-circuit voltage in polymer solar cells by dithieno[3,2-b:2',3'-d]pyrrole N-acylation. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7535-7545	13	30
239	Tuning of PCDTBT:PC71BM blend nanoparticles for eco-friendly processing of polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 159, 179-188	6.4	30
238	Polymerization Mechanism of 1-[(Butylsulfi(o)nyl)methyl]-4-(halomethyl)benzene: The Effect of Polarizer and Leaving Group. <i>Macromolecules</i> , <b>1998</b> , 31, 4426-4431	5.5	30
237	Radical as well as anionic polymerisation mechanisms in the synthesis of poly(p-arylene vinylene) precursors. <i>Polymer</i> , <b>1999</b> , 40, 6615-6617	3.9	30

- 236 Interfacial thiol-isocyanate reactions for functional nanocarriers: a facile route towards tunable morphologies and hydrophilic payload encapsulation. *Chemical Communications*, **2015**, 51, 15858-15861 5.8 29
- 235 Broadening the absorption of conjugated polymers by "click" functionalization with phthalocyanines. *Dalton Transactions*, **2011**, 40, 3979-88 4.3 29
- 234 Synthesis and Characterization of Poly(pyridine vinylene) via the Sulfinyl Precursor Route. *Macromolecules*, **2001**, 34, 7294-7299 5.5 29
- 233 An effective strategy to enhance the dielectric constant of organic semiconductors □ CPDTPD-based low bandgap polymers bearing oligo(ethylene glycol) side chains. *Journal of Materials Chemistry C*, **2018**, 6, 500-511 7.1 29
- 232 Study of the Thermal Elimination and Degradation Processes of n-AlkylsulfinylPPV and DC1C10PPV Precursor Polymers with in Situ Spectroscopic Techniques. *Macromolecules*, **2005**, 38, 1141-1147 5.5 28
- 231 Use of Magnetic Resonance Imaging To Study Transport of Methanol in Poly(methyl methacrylate) at Variable Temperature. *Macromolecules*, **1996**, 29, 5671-5677 5.5 28
- 230 Multi-layered hybrid perovskites templated with carbazole derivatives: optical properties, enhanced moisture stability and solar cell characteristics. *Journal of Materials Chemistry A*, **2018**, 6, 22899-22908 13.28 28
- 229 Direct arylation as a versatile tool towards thiazolo[5,4-d]thiazole-based semiconducting materials. *Organic and Biomolecular Chemistry*, **2014**, 12, 4663-72 3.9 27
- 228 The Importance of Bridging Points for Charge Transport in Webs of Conjugated Polymer Nanofibers. *Advanced Functional Materials*, **2013**, 23, 862-869 15.6 27
- 227 Low-Band-Gap Conjugated Polymers. Improved Model Compounds for the Structural Analysis of Poly(isothianaphthene). *Macromolecules*, **1995**, 28, 4961-4969 5.5 27
- 226 Lead-Halide Perovskites Meet Donor-Acceptor Charge-Transfer Complexes. *Chemistry of Materials*, **2019**, 31, 6880-6888 9.6 26
- 225 Imidazolium-substituted ionic (co)polythiophenes: Compositional influence on solution behavior and thermal properties. *Polymer*, **2013**, 54, 6293-6304 3.9 25
- 224 Quinoxaline derivatives with broadened absorption patterns. *Organic and Biomolecular Chemistry*, **2013**, 11, 5866-76 3.9 25
- 223 Kinetic and Mechanistic Study on p-Quinodimethane Formation in the Sulfinyl Precursor Route for the Polymerization of Poly(p-phenylenevinylene) (PPV). *Macromolecules*, **2010**, 43, 7424-7433 5.5 25
- 222 Phase behavior of PCBM blends with different conjugated polymers. *Physical Chemistry Chemical Physics*, **2011**, 13, 12285-92 3.6 25
- 221 Filling porous silicon pores with poly(p phenylene vinylene). *Physica Status Solidi A*, **2003**, 197, 232-235 25
- 220 Inducing Charge Separation in Solid-State Two-Dimensional Hybrid Perovskites through the Incorporation of Organic Charge-Transfer Complexes. *Journal of Physical Chemistry Letters*, **2020**, 11, 824-830 6.4 24
- 219 Metabolites in feces can be important markers for the abuse of anabolic steroids in cattle. *Analyst*, **1998**, 123, 2449-52 5 24



218	Description of the nanostructured morphology of [6,6]-phenyl-C61 -butyric acid methyl ester (PCBM) by XRD, DSC and solid-state NMR. <i>Magnetic Resonance in Chemistry</i> , <b>2011</b> , 49, 242-7	2.1	23
217	A three-step synthetic approach to asymmetrically functionalized 4H-cyclopenta[2,1-b:3,4-b']dithiophenes. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 7202-9	4.2	23
216	Profluorescent PPV-Based Micellar System as a Versatile Probe for Bioimaging and Drug Delivery. <i>Biomacromolecules</i> , <b>2016</b> , 17, 4086-4094	6.9	22
215	Simultaneous Enhancement of Solar Cell Efficiency and Stability by Reducing the Side Chain Density on Fluorinated PCPDTQx Copolymers. <i>Macromolecules</i> , <b>2015</b> , 48, 3873-3882	5.5	22
214	Opto-electrical and morphological characterization of water soluble conjugated polymers for eco-friendly hybrid solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 3262-3268	6.4	22
213	Discovery of an Anionic Polymerization Mechanism for High Molecular Weight PPV Derivatives via the Sulfinyl Precursor Route. <i>Macromolecules</i> , <b>2011</b> , 44, 7610-7616	5.5	22
212	Highly Selective Route to Unsymmetrically Substituted 1-{2-[(Butylsulfanyl)methyl]-5-(chloromethyl)-4-methoxyphenoxy}-3,7-dimethyloctane and Isomers toward Synthesis of Conjugated Polymer OC1C10 Used in LEDs: Synthesis and Optimization. <i>Helvetica Chimica Acta</i> , <b>2000</b> , 83, 3113-3121	2	22
211	A general approach to precursors for poly(arylene vinylene) derivatives: Mechanism, scope and modifications. <i>Macromolecular Symposia</i> , <b>1998</b> , 125, 189-203	0.8	22
210	Optical Absorption Spectra of Aromatic Isothianaphthene Oligomers: Theory and Experiment. <i>The Journal of Physical Chemistry</i> , <b>1995</b> , 99, 3932-3938		22
209	On the quinoid structure of poly(isothianaphthene): A vibrational spectroscopic study. <i>Advanced Materials</i> , <b>1995</b> , 7, 1027-1030	24	22
208	An investigation into the electronic structure of poly(isothianaphthene). <i>Synthetic Metals</i> , <b>1992</b> , 51, 219-228		22
207	Amphiphilic N-methylimidazole-functionalized diblock copolythiophenes. <i>European Polymer Journal</i> , <b>2014</b> , 53, 206-214	5.2	21
206	Ester-functionalized poly(3-alkylthiophene) copolymers: Synthesis, physicochemical characterization and performance in bulk heterojunction organic solar cells. <i>Organic Electronics</i> , <b>2013</b> , 14, 523-534	3.5	21
205	CAFM on conjugated polymer nanofibers: Capable of assessing one fiber mobility. <i>Organic Electronics</i> , <b>2011</b> , 12, 2084-2089	3.5	21
204	Hysteresis-free electron currents in poly(p-phenylene vinylene) derivatives. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 124504	2.5	21
203	Exploring the Dithiocarbamate Precursor Route: Observation of a Base Induced Regioregularity Excess in Poly[(2-methoxy-5-(3,7-dimethyloctyloxy))-1,4-phenylenevinylene] (MDMOBPV). <i>Macromolecules</i> , <b>2009</b> , 42, 3661-3668	5.5	21
202	High resolution electrical characterisation of organic photovoltaic blends. <i>Microelectronic Engineering</i> , <b>2007</b> , 84, 431-436	2.5	21
201	Diels-alder reactions of the heterodiene system in 2(1h)-pyrazinones. <i>Tetrahedron Letters</i> , <b>1986</b> , 27, 2509-2512		21

200	On the True Structure of Push-Bull-Type Low-Bandgap Polymers for Organic Electronics. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1700481	6.4	20
199	A direct arylation approach towards efficient small molecule organic solar cells. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 791-795	13	20
198	Diamond functionalization with light-harvesting molecular wires: improved surface coverage by optimized Suzuki cross-coupling conditions. <i>RSC Advances</i> , <b>2014</b> , 4, 42044-42053	3.7	20
197	Influence of octanedithiol on the nanomorphology of PCPDTBT:PCBM blends studied by solid-state NMR. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 96, 210-217	6.4	20
196	A deeper Insight into the Dithiocarbamate Precursor Route: Synthesis of Soluble Poly(thienylene vinylene) Derivatives for Photovoltaic Applications. <i>Macromolecules</i> , <b>2010</b> , 43, 10231-10240	5.5	20
195	A reanalysis of the $k_3$ state of CO. <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 8303-8310	3.9	20
194	Poly(5,6-dithiooctylisothianaphthene), a new low band gap polymer: spectroscopy and solar cell construction. <i>Synthetic Metals</i> , <b>2003</b> , 138, 249-253	3.6	20
193	Synthesis and characterization of water-soluble poly(p-phenylene vinylene) derivatives via the dithiocarbamate precursor route. <i>European Polymer Journal</i> , <b>2011</b> , 47, 1827-1835	5.2	19
192	State-to-state Scattering of Metastable CO Molecules from a LiF(100) Surface. <i>Physical Review Letters</i> , <b>1997</b> , 78, 1375-1378	7.4	19
191	Relationships between Microvoid Heterogeneity and Physical Properties in Cross-Linked Elastomers: An NMR Imaging Study. <i>Macromolecules</i> , <b>2000</b> , 33, 7116-7121	5.5	19
190	Development of novel processable electron accepting conjugated polymers containing fluoranthene units in the main chain. <i>Polymer</i> , <b>2009</b> , 50, 5007-5015	3.9	18
189	Effect of oxygen on the electrical characteristics of PPV-LEDs. <i>Optical Materials</i> , <b>1998</b> , 9, 134-137	3.3	18
188	The thermal conversion reaction of sulphonyl substituted poly(para-xylylene): evidence for the formation of PPV structures. <i>Polymer</i> , <b>2002</b> , 43, 5749-5755	3.9	18
187	Poly(p-phenylene vinylene) derivatives with ester- and carboxy-functionalized substituents: a versatile platform towards polar functionalized conjugated polymers. <i>Polymer</i> , <b>2005</b> , 46, 5466-5475	3.9	18
186	Solid state cross polarization/magic angle spinning $^{13}\text{C}$ NMR investigation of alkoxy-substituted poly(p-phenylene vinylene) homo- and copolymers. <i>Synthetic Metals</i> , <b>1992</b> , 46, 23-44	3.6	18
185	Diels-alder reactions of pyrano[3,4-b]indol-3-ones with olefinic compounds : Synthesis of (1,2-dihydro)carbazoles. <i>Tetrahedron</i> , <b>1989</b> , 45, 6761-6770	2.4	18
184	Impact of structure and homo-coupling of the central donor unit of small molecule organic semiconductors on solar cell performance. <i>RSC Advances</i> , <b>2016</b> , 6, 32298-32307	3.7	17
183	Synthesis of well-defined PPV containing block polymers with precise endgroup control by a dual-initiator strategy. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 3471-3479	4.9	17

182	Nanostructured organic pn junctions towards 3D photovoltaics. <i>Applied Physics A: Materials Science and Processing</i> , <b>2004</b> , 79, 27-30	2.6	17
181	Synthesis of electron-rich versus electron-poor poly[[1,4-phenylene]-[1-(n-alkylsulfinyl)ethylene]]s via the sulfinyl precursor route in different organic solvents. <i>Polymer</i> , <b>2000</b> , 41, 7003-7009	3.9	17
180	Demonstration of methylene-ether bridge formation in melamine-formaldehyde resins. <i>Journal of Polymer Science Part A</i> , <b>1995</b> , 33, 915-920	2.5	17
179	Imaging of the ageing on organic electroluminescent diodes, under different atmospheres by impedance spectroscopy, scanning electron microscopy and SIMS depth profiling analysis. <i>Synthetic Metals</i> , <b>1996</b> , 83, 261-265	3.6	17
178	Elucidating Batch-to-Batch Variation Caused by Homocoupled Side Products in Solution-Processable Organic Solar Cells. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 9088-9098	9.6	17
177	Anionic PPV polymerization from the sulfinyl precursor route: Block copolymer formation from sequential addition of monomers. <i>Polymer</i> , <b>2013</b> , 54, 1298-1304	3.9	16
176	On the Relation between Morphology and FET Mobility of Poly(3-alkylthiophene)s at the Polymer/SiO <sub>2</sub> and Polymer/Air Interface. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 1994-2004	15.6	16
175	Isothermal crystallization of P3HT:PCBM blends studied by RHC. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 845-849	4.1	16
174	The synthesis of poly(4,4'-biphenylene vinylene) and poly(2,6-naphthalene vinylene) via a radical chain polymerisation. <i>Polymer</i> , <b>2000</b> , 41, 2743-2753	3.9	16
173	The elimination process of sulfinyl-precursor polymers towards poly(p-phenylene vinylene). Methods for monitoring elimination. <i>Acta Polymerica</i> , <b>1999</b> , 50, 28-34		16
172	Comparative Kinetic Monte Carlo study of the Sulfinyl and Dithiocarbamate Precursor Route toward Highly Regioregular MDMO-PPV. <i>Macromolecular Theory and Simulations</i> , <b>2013</b> , 22, 246-255	1.5	15
171	Synthesis, <sup>1</sup> H and <sup>13</sup> C NMR assignment and electrochemical properties of novel thiophene-thiazolothiazole oligomers and polymers. <i>Magnetic Resonance in Chemistry</i> , <b>2010</b> , 48, 362-9	2.1	15
170	Novel Regiospecific MDMO-PPV Polymers with Improved Charge Transport Properties for Bulk Heterojunction Solar Cells. <i>Synthetic Metals</i> , <b>2005</b> , 153, 81-84	3.6	15
169	Synthesis of aza-analogues of poly(isothianaphthene). <i>Synthetic Metals</i> , <b>1999</b> , 99, 143-147	3.6	15
168	Tuning the optical properties of poly(p-phenylene ethynylene) nanoparticles as bio-imaging probes by side chain functionalization. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 504, 527-537	9.3	14
167	Improved Mechanistic Insights into Radical Sulfinyl Precursor MDMO-PPV Synthesis by Combining Microflow Technology and Computer Simulations. <i>Macromolecules</i> , <b>2015</b> , 48, 8294-8306	5.5	14
166	Electronic structure of positive and negative polarons in functionalized dithienylthiazolo[5,4-d]thiazoles: a combined EPR and DFT study. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 10032-40	3.6	14
165	Facile Synthesis of Well-Defined MDMO-PPV Containing (Tri)Block Copolymers via Controlled Radical Polymerization and CuAAC Conjugation. <i>Polymers</i> , <b>2015</b> , 7, 418-452	4.5	14

164	Quinoxaline-Based Cyclo(oligophenylenes). <i>Journal of Organic Chemistry</i> , <b>2015</b> , 80, 2425-30	4.2	14
163	Controlled synthesis of MDMO-PPV and block copolymers made thereof. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 1722-1725	4.9	14
162	Influence of the processing solvent on the photoactive layer nanomorphology of P3HT/PC60BM solar cells. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 1037-1041	2.5	14
161	Versatile post-polymerization functionalization of poly(p-phenylene vinylene) copolymers containing carboxylic acid substituents: development of a universal method towards functional conjugated copolymers. <i>Polymer Chemistry</i> , <b>2010</b> , 1, 1313	4.9	14
160	Cyclic voltammetry studies of n-type polymers with non-alternant fluoranthene units. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 1584-1588	6.7	14
159	Optical detection of deep electron traps in poly(p-phenylene vinylene) light-emitting diodes. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 183305	3.4	14
158	Characterization by <sup>13</sup> C CP/MAS n.m.r. spectroscopy of the structural changes in coals after chemical treatments. <i>Fuel</i> , <b>1991</b> , 70, 811-817	7.1	14
157	Living polymerization via anionic initiation for the synthesis of well-defined PPV materials. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 242-7	4.8	13
156	Low bandgap polymers based on bay-annulated indigo for organic photovoltaics: Enhanced sustainability in material design and solar cell fabrication. <i>Organic Electronics</i> , <b>2017</b> , 50, 264-272	3.5	13
155	Molecular weight tuning of low bandgap polymers by continuous flow chemistry: increasing the applicability of PffBT4T for organic photovoltaics. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18166-18175 <sup>13</sup>		13
154	2,5-Substituted PPV-Derivatives with Different Polarities: The Effect of Side Chain Polarity on Solubility, Optical and Electronic Properties. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 196-206	2.6	13
153	Synthesis of a Processible High Molecular Weight Poly(thienylene vinylene). Polymerisation and Thin-Film Transistor Properties. <i>Synthetic Metals</i> , <b>2003</b> , 135-136, 255-256	3.6	13
152	Mechanistic study on the Gilch and the Sulfinyl polymerisation routes. <i>Synthetic Metals</i> , <b>2001</b> , 119, 135-136	3.6	13
151	New synthetic routes to poly(isothianaphthene). II. Mechanistic aspects of the reactions of phthalic anhydride and phthalide with phosphorus pentasulfide. <i>Journal of Polymer Science Part A</i> , <b>1996</b> , 34, 1553-1560 <sup>13</sup>	2.5	13
150	Nanocapsules with stimuli-responsive moieties for controlled release employing light and enzymatic triggers. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 2103-2112	7.8	13
149	N-acyl-dithieno[3,2-b:2'6'-d]pyrrole-based low bandgap copolymers affording improved open-circuit voltages and efficiencies in polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 136, 70-77	6.4	12
148	Synthesis of high molecular weight poly(4,4'-bisphenylene vinylene) and poly(2,6-naphthalene vinylene) via a non-ionic precursor route. <i>Polymer</i> , <b>1998</b> , 39, 4171-4174	3.9	12
147	Morphological study of a poly(3,4-ethylenedioxythiophene)/polystyrenesulfonic acid mixture by solid state <sup>13</sup> C-CP/MAS NMR relaxometry. <i>Polymer</i> , <b>2002</b> , 43, 7003-7006	3.9	12

146	Development and Optimization of Fast Quantitative Carbon-13 NMR Characterization Methods of Novolac Resins. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1995</b> , 34, 1364-1370	3.9	12
145	The effect of anions on the solution behaviour of poly(xylylene tetrahydrothiophenium chloride) and on the elimination to poly(p-phenylene vinylene). <i>Synthetic Metals</i> , <b>1992</b> , 52, 387-394	3.6	12
144	Designing Small Molecule Organic Solar Cells with High Open-Circuit Voltage. <i>ChemistrySelect</i> , <b>2017</b> , 2, 1253-1261	1.8	11
143	Finding the optimal exchange-correlation functional to describe the excited state properties of push-pull organic dyes designed for thermally activated delayed fluorescence. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 16387-16399	3.6	11
142	Synthesis of ester side chain functionalized all-conjugated diblock copolythiophenes via the Rieke method. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 1832	4.9	11
141	Charge transfer in the weak driving force limit in blends of MDMO-PPV and dithienylthiazolo[5,4-d]thiazoles towards organic photovoltaics with high V(OC). <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 15774-84	3.6	11
140	Solid-state NMR as a tool to describe and quantify the morphology of photoactive layers used in plastic solar cells. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 1699-1707	2.5	11
139	An Efficient Acid-Induced Conversion of Dithiocarbamate Precursor Polymers into Conjugated Materials. <i>Macromolecules</i> , <b>2011</b> , 44, 711-718	5.5	11
138	Study of the thermal elimination process of sulphinyl-based PPV precursors by solid state NMR. <i>Polymer</i> , <b>2005</b> , 46, 1759-1765	3.9	11
137	Visualization of Tensile Stress Induced Material Response at a Crack Tip in Polymers under Critical Load by NMR Imaging. <i>Macromolecules</i> , <b>2000</b> , 33, 4836-4841	5.5	11
136	Scope and limitations of a new highly selective synthesis of unsymmetrical monomers for the synthesis of precursors toward poly(arylenevinylene)s. <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 284-9	4.2	11
135	Effect of Branching on the Optical Properties of Poly(-phenylene ethynylene) Conjugated Polymer Nanoparticles for Bioimaging. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 1967-1977	5.5	11
134	Muconic acid esters as bio-based acrylate mimics. <i>Polymer Chemistry</i> , <b>2019</b> , 10, 5555-5563	4.9	11
133	Low-Dimensional Hybrid Perovskites Containing an Organic Cation with an Extended Conjugated System: Tuning the Excitonic Absorption Features. <i>ChemNanoMat</i> , <b>2019</b> , 5, 323-327	3.5	11
132	Synthesis of Highly Fluorescent All-Conjugated Alternating Donor/Acceptor (Block) Copolymers via GRIM Polymerization. <i>Macromolecules</i> , <b>2016</b> , 49, 6411-6419	5.5	10
131	Charge photogeneration in donor/acceptor organic solar cells. <i>Journal of Photonics for Energy</i> , <b>2012</b> , 2, 021001	1.2	10
130	Functionalized Dithienylthiazolo[5,4-d]thiazoles For Solution-Processable Organic Field-Effect Transistors. <i>ChemPlusChem</i> , <b>2012</b> , 77, 923-930	2.8	10
129	Identification and Quantification of Defect Structures in Poly(2,5-thienylene vinylene) Derivatives Prepared via the Dithiocarbamate Precursor Route by Means of NMR Spectroscopy on <sup>13</sup> C-Labeled Polymers. <i>Macromolecules</i> , <b>2011</b> , 44, 4711-4720	5.5	10

128	Synthesis of poly(isothianaphthene) from 1,1,3,3-tetrachlorothiophthalan and tert-butylmercaptan: mechanism and quantitative analysis by solid state n.m.r.. <i>Polymer</i> , <b>1997</b> , 38, 5221-5225	3.9	10
127	A highly efficient route towards well-defined modifications of poly(p-phenylene vinylene). <i>Acta Polymerica</i> , <b>1998</b> , 49, 510-513		10
126	Morphology of MDMO-PPV:PCBM bulk heterojunction organic solar cells studied by AFM, KFM, and TEM <b>2003</b> , 4801, 40		10
125	New mechanistic aspects on the formation of poly(isothianaphthene) from P 4 S 10 and phthalic anhydride derivatives: carbon-carbon bond formation and cleavage via a cyclic reaction mechanism. <i>Polymer</i> , <b>2000</b> , 41, 3121-3127	3.9	10
124	New synthetic routes to poly(isothianaphthene). <i>Synthetic Metals</i> , <b>2000</b> , 110, 25-30	3.6	10
123	<sup>1</sup> H NMR Relaxation Study of the Gelation of Syndiotactic Poly(methyl methacrylate) in Toluene. <i>Macromolecules</i> , <b>2001</b> , 34, 522-528	5.5	10
122	A general synthetic route towards soluble poly(1,3-dithienylisothianaphthene) derivatives. <i>Synthetic Metals</i> , <b>1999</b> , 101, 120-121	3.6	10
121	Improving selectivity by using a multipurpose cross polarization magic angle spinning NMR pulse sequence. <i>Analytica Chimica Acta</i> , <b>1993</b> , 283, 1025-1031	6.6	10
120	Morphology-dependent pH-responsive release of hydrophilic payloads using biodegradable nanocarriers.. <i>RSC Advances</i> , <b>2018</b> , 8, 36869-36878	3.7	10
119	2D layered perovskite containing functionalised benzothieno-benzothiophene molecules: formation, degradation, optical properties and photoconductivity. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 7181-7188	7.1	9
118	Electrical field induced ageing of polymer light-emitting diodes in an oxygen-rich atmosphere studied by emission microscopy, scanning electron microscopy and secondary ion mass spectroscopy. <i>Synthetic Metals</i> , <b>1998</b> , 96, 87-96	3.6	9
117	Synthesis and Properties of Poly(p-fluoranthene vinylene): A Novel Conjugated Polymer with Nonalternant Repeating Units. <i>Macromolecules</i> , <b>2006</b> , 39, 2438-2440	5.5	9
116	Study of the nanomorphology of OC1C10-PPV/precursor-PPV blends by solid state NMR relaxometry. <i>Polymer</i> , <b>2004</b> , 45, 4499-4505	3.9	9
115	Study of the conversion process of sulfinyl-OC1C10-PPV precursor polymers with different analytical techniques. <i>Thin Solid Films</i> , <b>2002</b> , 403-404, 120-125	2.2	9
114	Temperature Dependence of the Reduction of Phthalic Thioanhydrides by NaBH <sub>4</sub> : Competition between 3-Hydroxythiolactone and Phthalide Formation. <i>European Journal of Organic Chemistry</i> , <b>2002</b> , 2002, 1033-1036	3.2	9
113	Intermolecular Order of Poly-(2,5-dimethyl-para-phenylene vinylene) and Poly-(para-phenylene vinylene) [A Comparison. <i>Monatshefte Für Chemie</i> , <b>2001</b> , 132, 433-440	1.4	9
112	Solid-State NMR Study of Different Types of Poly(vinyl formal). <i>Macromolecules</i> , <b>1999</b> , 32, 440-447	5.5	9
111	Critical Analysis of Network Defects in Cross-Linked Isobutylene-Based Elastomers by NMR Imaging. <i>Macromolecules</i> , <b>1999</b> , 32, 4692-4699	5.5	9

110	A 13C CP/MAS NMR investigation of poly(isothianaphthene). <i>Synthetic Metals</i> , <b>1991</b> , 41, 513-517	3.6	9
109	Physicochemical characterizations of functional hybrid liposomal nanocarriers formed using photo-sensitive lipids. <i>Scientific Reports</i> , <b>2017</b> , 7, 46257	4.9	8
108	Investigating the role of efficiency enhancing interlayers for bulk heterojunction solar cells by scanning probe microscopy. <i>Organic Electronics</i> , <b>2014</b> , 15, 1282-1289	3.5	8
107	Continuous Synthesis and Thermal Elimination of Sulfinyl-Route Poly(p-Phenylene Vinylene) in Consecutive Flow Reactions. <i>Chemical Engineering and Technology</i> , <b>2015</b> , 38, 1749-1757	2	8
106	PPV Polymerization through the Gilch Route: Diradical Character of Monomers. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 19176-85	4.8	8
105	Fingerprints for structural defects in poly(thienylene vinylene) (PTV): a joint theoretical-experimental NMR study on model molecules. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 12040-50	3.4	8
104	Synthesis of PTV via the dithiocarbamate route: a new precursor route toward conjugated polymers <b>2004</b> , 5464, 52		8
103	<sup>1</sup> H and <sup>13</sup> C NMR Spectroscopy as a Tool To Probe the Microstructures of Different Types of Poly(vinyl formal). <i>Macromolecules</i> , <b>1996</b> , 29, 5875-5881	5.5	8
102	Unexpected rearrangements in the synthesis of arylidene- or alkylidene-2-thiophthalides. <i>Tetrahedron</i> , <b>1996</b> , 52, 11867-11878	2.4	8
101	All-polymer solar cells based on photostable bis(perylene diimide) acceptor polymers. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 196, 178-184	6.4	7
100	The effect of halogenation on PBDTT-TQxT based non-fullerene polymer solar cells [Chlorination vs fluorination. <i>Dyes and Pigments</i> , <b>2020</b> , 181, 108577	4.6	7
99	Study of optical and electrical properties of water-soluble conjugated poly(3-hexylthiophene) on different grain-sized mesoporous TiO <sub>2</sub> layers. <i>Thin Solid Films</i> , <b>2014</b> , 556, 285-290	2.2	7
98	Design and synthesis of side-chain functionalized regioregular poly(3-hexylthiophene)-based copolymers and application in polymer:fullerene bulk heterojunction solar cells <b>2009</b> ,		7
97	Theoretical investigation of nitrogen-containing polyisothianaphthene derivatives. <i>Synthetic Metals</i> , <b>1995</b> , 69, 691-692	3.6	7
96	Solid-State NMR Study of the Multiphase Behavior of Linear and Cross-Linked Poly(1,3-dioxolane). <i>Macromolecules</i> , <b>1996</b> , 29, 4000-4005	5.5	7
95	A solid-state NMR investigation of the dopability of poly(p-phenylene vinylene) model compounds and corresponding polymers with iodine. <i>Synthetic Metals</i> , <b>1992</b> , 48, 143-159	3.6	7
94	Miscibility of poly(para-phenylene vinylene) model compounds with PMMA studied by solid-state NMR. <i>Synthetic Metals</i> , <b>1992</b> , 47, 239-253	3.6	7
93	Semi-quantitative oxygen functional group distribution in two coal types. <i>Fuel</i> , <b>1992</b> , 71, 553-557	7.1	7

92	Benzo[1,2-b:4,5-b']dithiophene as a weak donor component for push-pull materials displaying thermally activated delayed fluorescence or room temperature phosphorescence. <i>Dyes and Pigments</i> , <b>2021</b> , 186, 109022	4.6	7
91	The Impact of Acceptor-Acceptor Homocoupling on the Optoelectronic Properties and Photovoltaic Performance of PDTSQx Low Bandgap Polymers. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800086	4.8	6
90	A PCPDTTPD-based narrow bandgap conjugated polyelectrolyte for organic solar cells. <i>Polymer</i> , <b>2018</b> , 137, 303-311	3.9	6
89	Synthesis of PPV-b-PEG block copolymers via CuAAC conjugation. <i>European Polymer Journal</i> , <b>2014</b> , 55, 114-122	5.2	6
88	In situ monitoring the thermal degradation of PCPDTBT low band gap polymers with varying alkyl side-chain patterns. <i>Journal of Polymer Science Part A</i> , <b>2013</b> , 51, 4912-4922	2.5	6
87	Combined experimental-theoretical NMR study on 2,5-bis(5-aryl-3-hexylthiophen-2-yl)-thiazolo[5,4-d]thiazole derivatives for printable electronics. <i>Magnetic Resonance in Chemistry</i> , <b>2012</b> , 50, 379-87	2.1	6
86	Synthetic Routes toward Asymmetrically Substituted (Functionalized) 4H-Cyclopenta[2,1-b:3,4-b']dithiophenes. <i>Synlett</i> , <b>2013</b> , 24, 2389-2392	2.2	6
85	A new precursor to electroconducting conjugated polymers: synthesis and opto-electrical properties of luminescent devices based on these PPV derivatives. <i>Optical Materials</i> , <b>1998</b> , 9, 150-153	3.3	6
84	Evidence of the improvement of photovoltaic efficiency by polar molecule orientation in a new semiconducting polymer. <i>Solar Energy Materials and Solar Cells</i> , <b>2007</b> , 91, 1816-1824	6.4	6
83	Density functional crystal orbital study of cyano-substituted poly(para-phenylene-vinylene) and poly(quinoxaline-vinylene). <i>International Journal of Quantum Chemistry</i> , <b>2006</b> , 106, 1912-1923	2.1	6
82	Study of the elimination of precursor polymers towards conjugated materials. <i>Synthetic Metals</i> , <b>2001</b> , 119, 311-312	3.6	6
81	17alpha-ethyl-5beta-estrane-3alpha, 17beta-diol, a biological marker for the abuse of norethandrolone and ethylestrenol in slaughter cattle. <i>Biomedical Applications</i> , <b>1999</b> , 728, 217-32		6
80	ESR spectroscopy of the elimination of sulfinyl precursor polymers towards PPV. <i>Synthetic Metals</i> , <b>1999</b> , 102, 949-950	3.6	6
79	Poly(tetrafluorobenzo[c]thiophene). Structure Analysis of Oligomers and Model Compound Based on 1D and 2D NMR Spectroscopy. <i>Macromolecules</i> , <b>1996</b> , 29, 5981-5989	5.5	6
78	Modifiable poly(p-phenylene vinylene) copolymers towards functional conjugated materials. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 4771-4781	4.9	5
77	Solution-processed bi-layer polythiophene fullerene organic solar cells. <i>RSC Advances</i> , <b>2013</b> , 3, 25197	3.7	5
76	Trivalent organophosphorus reagent induced pinacol rearrangement of 4H-cyclopenta[2,1-b:3,4-b']dithiophen-4-one. <i>Tetrahedron Letters</i> , <b>2013</b> , 54, 526-529	2	5
75	Reaction of 4H-cyclopenta[2,1-b:3,4-b']dithiophenes with NBS route toward 2H-cyclopenta[2,1-b:3,4-b']dithiophene-2,6(4H)-diones. <i>Tetrahedron</i> , <b>2013</b> , 69, 2260-2267	2.4	5



74	The synthesis and characterization of soluble poly(isothianaphthene)-derivatives. <i>Synthetic Metals</i> , <b>1997</b> , 84, 415-416	3.6	5
73	The synthesis of poly(thienylene vinylene) derivatives via the dithiocarbamate route: low band gap p-type conjugated polymers for photovoltaics. <i>EPJ Applied Physics</i> , <b>2007</b> , 37, 237-240	1.1	5
72	Thermally induced order in PPV derivatives. <i>Thin Solid Films</i> , <b>2006</b> , 511-512, 695-700	2.2	5
71	Low-level optical absorption phenomena in organic thin films for solar cell applications investigated by highly sensitive photocurrent and photothermal techniques <b>2004</b> ,		5
70	<sup>1</sup> H and <sup>13</sup> C NMR Full Assignment of a Series of Precursor Polymers Derived from the Sulfinyl Route Towards Poly(p-phenylene vinylene). <i>Macromolecular Chemistry and Physics</i> , <b>2001</b> , 202, 343-353	2.6	5
69	Antistatic polymer layers based on poly(isothianaphthene) applied from aqueous compositions. <i>Synthetic Metals</i> , <b>1993</b> , 57, 3702-3706	3.6	5
68	Full <sup>1</sup> H and <sup>13</sup> C NMR Chemical Shift Assignment of 1-Pyrenyl Substituted Oligosilanes as a Tool to Differentiate between Intramolecular "Through Space" and "Through Bond" Ground State Interactions. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 7877-7884	16.4	5
67	Modification of poly(para-phenylene vinylene) by introduction of aromatic groups on the olefinic carbons. <i>Synthetic Metals</i> , <b>1992</b> , 47, 111-132	3.6	5
66	Thermolysis of benzopyranone-indenone adducts: a new route to the C-nor-D-homo steroid skeleton. <i>Journal of Organic Chemistry</i> , <b>1983</b> , 48, 2188-2193	4.2	5
65	Influence of the amorphous phase and preceding solution processing on the eutectic behaviour in the state diagram of P3HT : PC61BM determined by rapid heatcool calorimetry. <i>RSC Advances</i> , <b>2016</b> , 6, 92981-92988	3.7	5
64	Synthesis of a multifunctional poly(p-phenylene ethynylene) scaffold with clickable azide-containing side chains for (bio)sensor applications. <i>Polymer Chemistry</i> , <b>2015</b> , 6, 6720-6731	4.9	4
63	Analysis of bulk heterojunction organic solar cell blends by solid-state NMR relaxometry and sensitive external quantum efficiency Impact of polymer side chain variation on nanoscale morphology. <i>Organic Electronics</i> , <b>2019</b> , 74, 309-314	3.5	4
62	Synthesis of N,N-dialkyl-6,6-dibromoisoindigo derivatives by continuous flow. <i>Journal of Flow Chemistry</i> , <b>2015</b> , 5, 201-209	3.3	4
61	Synthesis of MDMO-PPV Nanoparticles Via In Situ Sulfinyl Precursor Route Polymerization in Miniemulsion. <i>Macromolecular Chemistry and Physics</i> , <b>2013</b> , 214, 1859-1864	2.6	4
60	Poly(3-alkylthiophene) Nanofibers for Photovoltaic Energy Conversion. <i>Advanced Materials Research</i> , <b>2011</b> , 324, 32-37	0.5	4
59	Study of the mechanism of the polymerisation of Heaving group-polariser-p-xylene Indications for a free radical mechanism. <i>Synthetic Metals</i> , <b>1997</b> , 85, 1149-1150	3.6	4
58	In vitro liver models are important tools to monitor the abuse of anabolic steroids in cattle. <i>Analyst, The</i> , <b>1998</b> , 123, 2453-6	5	4
57	Photoresist Characterization and Wet Strip after Low-k Dry Etch. <i>Solid State Phenomena</i> , <b>2007</b> , 134, 325-328	3.8	4

56	Stability of PPV based light emitting diodes. <i>Synthetic Metals</i> , <b>1999</b> , 102, 1097-1098	3.6	4
55	$^{13}\text{C}$ NMR analysis of $\beta$ -cya $\beta$ -poly(isothianaphthene) oligomers. <i>Synthetic Metals</i> , <b>1992</b> , 52, 395-400	3.6	4
54	Ligand exchange and photoluminescence quenching in organic-inorganic blends poly(3-hexylthiophene) P3HT:PbS <b>2012</b> ,		3
53	Combined characterization techniques to understand the stability of a variety of organic photovoltaic devices: the ISOS-3 inter-laboratory collaboration <b>2012</b> ,		3
52	Synthesis of methyl- and methoxy-substituted poly(p-phenylene vinylene) via a non-ionic precursor route. <i>Synthetic Metals</i> , <b>1997</b> , 84, 399-400	3.6	3
51	Optical and EPR spectroscopy in pure and blended films of a novel low band gap polymer. <i>EPJ Applied Physics</i> , <b>2006</b> , 36, 285-287	1.1	3
50	Synthesis and complete NMR spectral assignment of thiophene-substituted sulfinyl monomers. <i>Magnetic Resonance in Chemistry</i> , <b>2004</b> , 42, 931-7	2.1	3
49	Synthesis of blue light-emitting poly(p-arylene vinylene) derivative starting from new soluble polymeric precursors. <i>Synthetic Metals</i> , <b>2003</b> , 139, 589-592	3.6	3
48	State-of-the-art MDMO-PPV:PCBM bulk heterojunction organic solar cells: materials, nanomorphology, and electro-optical properties <b>2003</b> , 4801, 15		3
47	Phase behaviour and solvent diffusion in the system poly(methyl methacrylate)/methanol. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 308-312	2.6	3
46	Study of the synthesis and polymerisation behaviour of p-quinodimethane systems when electron poor monomers are used. <i>Synthetic Metals</i> , <b>2001</b> , 119, 137-138	3.6	3
45	The synthesis of methoxy substituted model compounds for structural analysis of poly(isothianaphthene)-derivatives. <i>Synthetic Metals</i> , <b>1995</b> , 69, 569-570	3.6	3
44	Structural assignment of conductive polymers by CP/MAS $^{13}\text{C}$ -NMR. <i>Synthetic Metals</i> , <b>1991</b> , 41, 305-308	3.6	3
43	Dynamic and structural parameters of coal and coal-derived products. <i>Energy &amp; Fuels</i> , <b>1991</b> , 5, 527-533	3.6	3
42	Conjugated ionic (co)polythiophene-based cathode interlayers for bulk heterojunction organic solar cells. <i>European Polymer Journal</i> , <b>2017</b> , 97, 49-56	5.2	2
41	Homocoupling defects in porphyrinoid small molecules and their effect on organic solar cell performance. <i>Organic Electronics</i> , <b>2019</b> , 69, 48-55	3.5	2
40	Improved efficiency of polymer-fullerene bulk heterojunction solar cells by the addition of Cu(II)-porphyrin-oligothiophene conjugates. <i>Synthetic Metals</i> , <b>2016</b> , 218, 1-8	3.6	2
39	Facile synthesis of 3-( $\beta$ -acetoxyalkyl)thiophenes and derived copolythiophenes using Rieke zinc. <i>Reactive and Functional Polymers</i> , <b>2014</b> , 75, 22-30	4.6	2

38	Electronic Structure of the Positive Radical of <sup>13</sup> C-Labeled Poly(3-Octylthienylene Vinylene) Polymer. <i>Applied Magnetic Resonance</i> , <b>2014</b> , 45, 827-839	0.8	2
37	Stability and degradation of organic photovoltaics fabricated, aged, and characterized by the ISOS 3 inter-laboratory collaboration <b>2012</b> ,		2
36	Poly(isothianaphthene) from 2,5-bis(trialkylsilyl)isothianaphthenes: preparation and spectroscopic characterization. <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 873-876		2
35	Spectroscopic analysis of poly(tetrafluoroisothianaphthene) and aromatic model compounds.. <i>Synthetic Metals</i> , <b>1997</b> , 84, 189-190	3.6	2
34	Characterization of poly(isothianaphthene) derivatives and analogs by using solid-state <sup>13</sup> C NMR. <i>Synthetic Metals</i> , <b>1997</b> , 89, 95-102	3.6	2
33	Improvement of photovoltaic efficiency by polar molecule orientation in a newly developed semiconducting polymer. <i>Thin Solid Films</i> , <b>2008</b> , 516, 8963-8968	2.2	2
32	Elucidating the aspect of "phase separation" in organic blends by means of thermal analysis <b>2007</b> ,		2
31	Isothermal Elimination of n-Alkylsulfinyl OC <sub>10</sub> -PPV Precursor Polymers Studied with FT-IR, UV-Vis, and MTDSC: Kinetics of the Elimination Reaction. <i>Macromolecules</i> , <b>2006</b> , 39, 3194-3201	5.5	2
30	Side chain effects on photoinduced absorption and photovoltaic performance of low bandgap thienylene vinylene and phenylene vinylene copolymers. <i>EPJ Applied Physics</i> , <b>2006</b> , 36, 219-223	1.1	2
29	Non-isothermal elimination process in the solid state of n-alkyl-sulphinyl precursor polymers towards conjugated poly[2-(3,7-dimethyloctyloxy)-5-methoxy-1,4-phenylene vinylene] studied with MTDSC and TGA. <i>Polymer</i> , <b>2006</b> , 47, 7935-7942	3.9	2
28	In-situ electrical and spectroscopical techniques for the study of degradation mechanisms and life time prediction of organic based electronic material systems. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 771, 1231		2
27	Chemical sensors based on a new low band gap material. <i>Synthetic Metals</i> , <b>1999</b> , 102, 1332	3.6	2
26	Application of new PPV precursor polymers in organic LEDs. <i>Synthetic Metals</i> , <b>1999</b> , 102, 997	3.6	2
25	Polymer Leds Based on N-Alkylsulfinyl Ppv Precursor Polymers. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 558, 409		2
24	Miscibility of poly(para-phenylene vinylene) model compounds with polycarbonate studied by solid-state NMR. <i>Synthetic Metals</i> , <b>1993</b> , 59, 171-179	3.6	2
23	Effect of iodine doping on the miscibility of poly(para-phenylene vinylene) model compounds mixed with PMMA using NMR solid-state techniques. <i>Synthetic Metals</i> , <b>1992</b> , 53, 77-84	3.6	2
22	Thermolysis of benzopyranone-indenone adducts. 2. Some new aspects of the mechanism. <i>Journal of Organic Chemistry</i> , <b>1986</b> , 51, 1019-1025	4.2	2
21	Directing the Self-Assembly of Conjugated Organic Ammonium Cations in Low-Dimensional Perovskites by Halide Substitution. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 5177-5188	9.6	2

20	Difluorodithieno[3,2-a:2',3'-c]phenazine as a strong acceptor for materials displaying thermally activated delayed fluorescence or room temperature phosphorescence. <i>Dyes and Pigments</i> , <b>2021</b> , 190, 109301	4.6	2
19	Light-Induced Charge Transfer in Two-Dimensional Hybrid Lead Halide Perovskites. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 18317-18327	3.8	2
18	Normal Topopolymers based on 1,3-dithienylisothianaphthene derivatives: Promising materials for electronic devices <b>1998</b> , 49, 687		2
17	Fluorescent PCDTBT Nanoparticles with Tunable Size for Versatile Bioimaging. <i>Materials</i> , <b>2019</b> , 12,	3.5	1
16	An Efficient and Reliable Procedure for the Preparation of Highly Reactive Rieke Zinc. <i>Advanced Synthesis and Catalysis</i> , <b>2013</b> , 355, n/a-n/a	5.6	1
15	Ionic high-performance light harvesting and carrier transporting OPV materials <b>2013</b> ,		1
14	Tetra-alkoxy substituted PPV derivatives: a new class of highly soluble liquid crystalline conjugated polymers. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 1279	4.9	1
13	Synthesis and characterization of high molecular weight phthalocyanine-PPV copolymers through post-polymerization functionalization. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2011</b> , 15, 659-666	1.8	1
12	Preparation of Poly(isothianaphthene) from 2,5-Bis(trialkylsilyl)isothianaphthenes. <i>Synthetic Metals</i> , <b>1997</b> , 84, 413-414	3.6	1
11	Low-bandgap poly(thienylene vinylene) for organic solar cells: photophysics and photovoltaic performance <b>2006</b> , 6192, 309		1
10	Light-emitting organic field-effect transistors using an organic heterostructure inside the transistor channel <b>2006</b> , 6192, 71		1
9	Investigation of Photoinduced Charge Transfer in Composites of a Novel Precursor PPV Polymer and Fullerenes. <i>Materials Research Society Symposia Proceedings</i> , <b>1999</b> , 598, 207		1
8	1,3-Dithienylisothianaphthene derivatives as model compounds in the study of the electronic properties of poly(isothianaphthene) derivatives: an alternative synthesis. <i>Synthetic Metals</i> , <b>1995</b> , 69, 555-556	3.6	1
7	<sup>13</sup> C CP/MAS n.m.r. study of changes in molecular mobility of a bituminous coal during desulphurization. <i>Fuel</i> , <b>1992</b> , 71, 751-754	7.1	1
6	Smooth generation of 3H-2-benzopyran-3-ones and their Diels-Alder reactions with olefinic dienophiles. <i>Journal of the Chemical Society Perkin Transactions 1</i> , <b>1991</b> , 639-644		1
5	Effect of Molecular Orientation on Photovoltaic Efficiency and Carrier Transport in a New Semiconducting Polymer. <i>Acta Physica Polonica A</i> , <b>2008</b> , 113, 1009-1012	0.6	1
4	Study on the Dynamics of Phase Formation and Degradation of 2D Layered Hybrid Perovskites and Low-dimensional Hybrids Containing Mono-functionalized Oligothiophene Cations. <i>ChemNanoMat</i> , <b>2021</b> , 7, 1013-1019	3.5	1
3	Effect of the Controllable Molecular Ordering in a New Polymer on Carrier Transport and Photovoltaic Properties. <i>Molecular Crystals and Liquid Crystals</i> , <b>2008</b> , 484, 362/[728]-372/[738]	0.5	

- 2 Strategic Renewal from an Industry Perspective. *Long Range Planning*, **2001**, 34, 259-261 5.7
- 1 Miscibility of doped and undoped poly(para-phenylene vinylene) model compounds with PMMA studied by cramps. *Synthetic Metals*, **1993**, 57, 3576-3580 3.6