

# Roger C Hiorns

## List of Publications by Year in Descending Order

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

63 papers	1,949 citations	22 h-index	43 g-index
72 ext. papers	2,095 ext. citations	4.8 avg, IF	4.5 L-index

#	Paper	IF	Citations
63	Understanding the langmuir and Langmuir-Schaefer film conformation of low-bandgap polymers and their bulk heterojunctions with PCBM. <i>Nanotechnology</i> , <b>2020</b> , 31, 315712	3.4	1
62	A concise guide to polymer nomenclature for authors of papers and reports in polymer science and technology (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2020</b> , 92, 797-813	2.1	1
61	List of keywords for polymer science (IUPAC Technical Report). <i>Pure and Applied Chemistry</i> , <b>2019</b> , 91, 997-1027	2.1	
60	In Situ Generation of Fullerene from a Poly(fullerene). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2019</b> , 57, 1434-1452	2.6	2
59	Targeting ideal acceptor-donor materials based on hexabenzocoronene. <i>Journal of Molecular Structure</i> , <b>2018</b> , 1161, 442-452	3.4	5
58	Langmuir and Langmuir-Blodgett films of low-bandgap polymers. <i>Polymer International</i> , <b>2018</b> , 67, 1028-1034	3.4	2
57	Molecular organization relationship of low-bandgap polymers at the air-water interface and in solid films. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 268, 114-121	6	7
56	Suppression of Thermally Induced Fullerene Aggregation in Polyfullerene-Based Multiacceptor Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 10971-10982	9.5	23
55	Oligo- and poly(fullerene)s for photovoltaic applications: Modeled electronic behaviors and synthesis. <i>Journal of Polymer Science Part A</i> , <b>2017</b> , 55, 1345-1355	2.5	9
54	Main-chain poly(fullerene) multiblock copolymers as organic photovoltaic donor-acceptors and stabilizers. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7533-7544	13	11
53	The Contribution of IUPAC to Polymer Science Education. <i>Journal of Chemical Education</i> , <b>2017</b> , 94, 1618-1628	16.28	0
52	Hybrid Conjugated Polymer-Inorganic Objects: Elaboration of Novel Organic Electronic Materials <b>2017</b> , 241-299		
51	Towards the synthesis of poly(azafulleroid)s: main chain fullerene oligomers for organic photovoltaic devices. <i>Polymer International</i> , <b>2017</b> , 66, 1364-1371	3.3	1
50	Main-chain alternating fullerene and dye oligomers for organic photovoltaics. <i>Polymer International</i> , <b>2017</b> , 66, 388-398	3.3	9
49	Charge transport and its characterization using photo-CELIV in bulk heterojunction solar cells. <i>Polymer International</i> , <b>2017</b> , 66, 13-25	3.3	45
48	Synthesis of Main-Chain Poly(fullerene)s from a Sterically Controlled Azomethine Ylide Cycloaddition Polymerization. <i>Macromolecules</i> , <b>2016</b> , 49, 1681-1691	5.5	16
47	Graphene-based acceptor molecules for organic photovoltaic cells: a predictive study identifying high modularity and morphological stability. <i>RSC Advances</i> , <b>2016</b> , 6, 13653-13656	3.7	5

46	Sterically controlled azomethine ylide cycloaddition polymerization of phenyl-C61-butyric acid methyl ester. <i>Chemical Communications</i> , <b>2016</b> , 52, 6107-10	5.8	10
45	Designing intrinsically photostable low band gap polymers: a smart tool combining EPR spectroscopy and DFT calculations. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 15647-15654	13	9
44	Increased thermal stabilization of polymer photovoltaic cells with oligomeric PCBM. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 8121-8129	7.1	12
43	Fullerene-capped copolymers for bulk heterojunctions: device stability and efficiency improvements. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 18207-18221	13	25
42	Synthesis, Thermal Processing, and Thin Film Morphology of Poly(3-hexylthiophene)Poly(styrenesulfonate) Block Copolymers. <i>Macromolecules</i> , <b>2015</b> , 48, 2107-2117	5.5	41
41	Correlating geometry of multidimensional carbon allotropes molecules and stability. <i>Organic Electronics</i> , <b>2015</b> , 26, 395-399	3.5	9
40	Terminology and Nomenclature: A Prerequisite or Nuisance for Polymer Science Education?. <i>Macromolecular Symposia</i> , <b>2015</b> , 355, 13-19	0.8	0
39	Is there a photostable conjugated polymer for efficient solar cells?. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 112, 175-184	4.7	31
38	Conjugated-polymer grafting on inorganic and organic substrates: A new trend in organic electronic materials. <i>Progress in Polymer Science</i> , <b>2014</b> , 39, 1847-1877	29.6	64
37	A universal route to improving conjugated macromolecule photostability. <i>RSC Advances</i> , <b>2014</b> , 4, 54919-54923	5.7	20
36	Versatile functional poly(3-hexylthiophene) for hybrid particles synthesis by the grafting onto technique: Core@shell ZnO nanorods. <i>Journal of Polymer Science Part A</i> , <b>2014</b> , 52, 30-38	2.5	16
35	Facile synthesis of poly(3-hexylthiophene)-block-poly(ethylene oxide) copolymers via Steglich esterification. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 3652	4.9	19
34	A brief guide to polymer nomenclature from IUPAC. <i>Colloid and Polymer Science</i> , <b>2013</b> , 291, 457-458	2.4	2
33	Effect of spacer insertion in a commonly used dithienosilole/benzothiadiazole-based low band gap copolymer for polymer solar cells. <i>European Polymer Journal</i> , <b>2013</b> , 49, 4176-4188	5.2	16
32	New Insights into the Mechanisms of Photodegradation/Stabilization of P3HT:PCBM Active Layers Using Poly(3-hexyl-d13-Thiophene). <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4522-4528	9.6	54
31	A Brief Guide to Polymer Nomenclature. <i>Polymer</i> , <b>2013</b> , 54, 3-4	3.9	5
30	Enhanced thermal stability of organic solar cells by using photolinkable end-capped polythiophenes. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 4145	4.9	18
29	Effect of molar mass and regioregularity on the photovoltaic properties of a reduced bandgap phenyl-substituted polythiophene. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 1953-1966	2.5	2

28	Theoretical and experimental study of low band gap polymers for organic solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 5613-9	3.6	16
27	Block copolymer strategies for solar cell technology. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2011</b> , 49, 1131-1156	2.6	163
26	Synthesis of Donor-Acceptor Multiblock Copolymers Incorporating Fullerene Backbone Repeat Units. <i>Macromolecules</i> , <b>2010</b> , 43, 6033-6044	5.5	47
25	Conjugated rod-coil block copolymers and optoelectronic applications. <i>Polymer International</i> , <b>2010</b> , 59, 1452-1476	3.3	85
24	The synthesis of organometallic rod-coil block copolymers from polysilanes. <i>Polymer International</i> , <b>2009</b> , 58, 323-329	3.3	9
23	Alternatively linking fullerene and conjugated polymers. <i>Journal of Polymer Science Part A</i> , <b>2009</b> , 47, 2304-2317	2.5	33
22	Main-Chain Fullerene Polymers for Photovoltaic Devices. <i>Macromolecules</i> , <b>2009</b> , 42, 3549-3558	5.5	39
21	Poly(3-hexylthiophene) Based Block Copolymers Prepared by Click-Chemistry. <i>Macromolecules</i> , <b>2008</b> , 41, 7033-7040	5.5	129
20	Regioregular Phenyl and Phenoxy Substituted Polythiophenes for Bulk Heterojunction Solar Cells. <i>Macromolecular Symposia</i> , <b>2008</b> , 268, 19-24	0.8	2
19	Electronic structure and optical properties of poly[3-(4-octylphenoxy)thiophene]: Experimental and theoretical studies. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 7505-7516	2.5	18
18	Photovoltaic cells based on polythiophenes carrying lateral phenyl groups. <i>Thin Solid Films</i> , <b>2008</b> , 516, 7199-7204	2.2	36
17	High Molecular Weights, Polydispersities, and Annealing Temperatures in the Optimization of Bulk-Heterojunction Photovoltaic Cells Based on Poly(3-hexylthiophene) or Poly(3-butylthiophene). <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 2263-2273	15.6	195
16	Extremely regio-regular poly(3-alkylthiophene)s from simplified chain-growth Grignard metathesis polymerisations and the modification of their chain-ends. <i>Polymer International</i> , <b>2006</b> , 55, 608-620	3.3	35
15	In focus: opto- and electro-active polymers Editorial. <i>Polymer International</i> , <b>2006</b> , 55, 571-571	3.3	0
14	Optical characterization of polychromatic organic light emitting diodes. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 043103	2.5	2
13	Review of electronic and optical properties of semiconducting $\pi$ -conjugated polymers: applications in optoelectronics. <i>Polymer International</i> , <b>2004</b> , 53, 1397-1412	3.3	267
12	Association of Hydrophobically End-Capped Poly(ethylene oxide). 1. Preparation of Polymers and Characterization of Critical Association Concentrations. <i>Langmuir</i> , <b>2003</b> , 19, 2058-2066	4	31
11	A tentative theory for conjugated rod-coil multi-block copolymer assembly and the initial characterisation by atomic force microscopy and small angle neutron scattering of poly(polymethylphenylsilane-block-polyisoprene). <i>Synthetic Metals</i> , <b>2003</b> , 139, 463-469	3.6	11

10	Structure and properties of hydrophobically end-capped poly(ethylene oxide) solutions in the presence of monovalent and divalent cations. <i>Journal of Colloid and Interface Science</i> , <b>2002</b> , 251, 398-408	9.3	20
9	Neutron scattering of hydrophobically modified poly(ethylene oxide) in aqueous solutions in the presence of latex particles. <i>Polymer</i> , <b>2002</b> , 43, 2677-2689	3.9	8
8	A convenient route to high molecular weight highly isotactic polystyrene using Ziegler-Natta catalysts and ultrasound. <i>Polymer</i> , <b>2002</b> , 43, 3365-3369	3.9	11
7	Neutron Scattering of Hydrophobically Modified Poly(ethylene oxide) in Aqueous Solutions. <i>Macromolecules</i> , <b>2002</b> , 35, 7436-7447	5.5	46
6	Synthesis and Characterization of Star Copolymers Consisting of Fullerene and Conjugated Polyphenylene: 6-star-C60[styrene- <i>b</i> -poly(1,4-phenylene)-block-polystyrene] and 6-star-C60[polystyrene-block-poly(1,4-phenylene)]. <i>Macromolecules</i> , <b>2002</b> , 35, 6132-6141	5.5	46
5	Synthesis and characterization of poly(methylphenylsilylene)- <i>b</i> -poly(ethylene oxide) and poly(methylphenylsilylene)- <i>b</i> -polyisoprene multiblock copolymers. <i>Polymer International</i> , <b>2001</b> , 50, 1016-1028	3.3	12
4	Surface Viscoelastic Properties of Spread Films of a Polysilylene- <i>b</i> -poly(ethylene oxide) Multiblock Copolymer at the Air-Water Interface. <i>Macromolecules</i> , <b>2000</b> , 33, 2651-2661	5.5	15
3	Self-Assembled Structures from an Amphiphilic Multiblock Copolymer Containing Rigid Semiconductor Segments. <i>Macromolecules</i> , <b>2000</b> , 33, 8289-8294	5.5	112
2	The first example of a poly(ethylene oxide)- <i>b</i> -poly(methylphenylsilane) amphiphilic block copolymer: vesicle formation in water. <i>Chemical Communications</i> , <b>1998</b> , 1445-1446	5.8	57
1	Review: materials and modelling for organic photovoltaic devices. <i>Polymer International</i> ,	3.3	2