

# Hugues Brisset

## List of Publications by Citations

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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.

87  
papers

1,619  
citations

22  
h-index

36  
g-index

100  
ext. papers

1,717  
ext. citations

4.8  
avg. IF

4.03  
L-index

#	Paper	IF	Citations
87	Proquinoid acceptors as building blocks for the design of efficient $\pi$ -conjugated fluorophores with high electron affinity. <i>Chemical Communications</i> , <b>2000</b> , 939-940	5.8	138
86	Phosphine-borane complexes; direct use in asymmetric catalysis. <i>Tetrahedron Letters</i> , <b>1993</b> , 34, 4523-4526		125
85	Alpha,omega-distyryl oligothiophenes: high mobility semiconductors for environmentally stable organic thin film transistors. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 16346-7	16.4	119
84	Detection of Bisphenol A in aqueous medium by screen printed carbon electrodes incorporating electrochemical molecularly imprinted polymers. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 112, 156-161	11.8	50
83	Bridged Dithienylethylenes as Precursors of Small Bandgap Electrogenerated Conjugated Polymers. <i>Journal of Organic Chemistry</i> , <b>1997</b> , 62, 2401-2408	4.2	50
82	Efficient synthesis of substituted dihydrotetraazapentacenes. <i>Organic Letters</i> , <b>2008</b> , 10, 4013-6	6.2	44
81	Novel narrow bandgap polymers from $sp^3$ carbon-bridged bithienyls: poly(4,4-ethylenedioxy-4H-cyclopenta[2,1-b;3,4-b']dithiophene). <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 1305-1306		44
80	Thiophene-based conjugated oligomers and polymers with high electron affinity. <i>Advanced Materials</i> , <b>1996</b> , 8, 990-994	24	43
79	Synthesis and thin film electronic properties of two pyrene-substituted oligothiophene derivatives. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 2380		42
78	A versatile electrochemical sensing receptor based on a molecularly imprinted polymer. <i>Chemical Communications</i> , <b>2014</b> , 50, 7488-91	5.8	40
77	A "kite" shaped styryl end-capped benzo[2,1-b:3,4-b']dithiophene with high electrical performances in organic thin film transistors. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 17681-3	16.4	39
76	Small bandgap molecular semiconductors based on rigidified tetrathiafulvalene-bithiophene hybrid conjugated systems. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1994</b> , 1765-1766		39
75	Electrogenerated conjugated polymers incorporating a ferrocene-derivatized-(3,4-ethylenedioxythiophene). <i>Electrochemistry Communications</i> , <b>2004</b> , 6, 249-253 <sup>5.1</sup>		38
74	Environmentally stable organic thin-films transistors: Terminal styryl vs central divinyl benzene building blocks for p-type oligothiophene semiconductors. <i>Organic Electronics</i> , <b>2006</b> , 7, 465-473	3.5	36
73	Highly specific and reversible fluoride sensor based on an organic semiconductor. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 9968-74	7.8	33
72	Automated synthesis of new ferrocenyl-modified oligonucleotides: study of their properties in solution. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, 5310-9	20.1	33
71	Effects of structure on the optical and redox properties of the oligothiophene-tetrathiafulvalene hybrid system. <i>Advanced Materials</i> , <b>1994</b> , 6, 841-845	24	33

70	Electrogenerated small bandgap $\pi$ -conjugated polymers derived from substituted dithienylethylenes. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1995</b> , 2309-2310		30
69	Hybrid Heterojunction Nanorods for Nanoscale Controlled Morphology in Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 10881-10888	3.8	28
68	Electro-oxidation of tetra(terthienyl)silanes: Towards 3D electroactive $\pi$ -conjugated systems. <i>Journal of Electroanalytical Chemistry</i> , <b>1995</b> , 381, 257-260	4.1	25
67	Internally referenced analysis of charge-transfer reactions in a new ferrocenyl bithiophenic conducting polymer through cyclic voltammetry. <i>Chemical Communications</i> , <b>2008</b> , 6606-8	5.8	24
66	Influence of Phenyl Perfluorination on Charge Transport Properties of Distyryl-Oligothiophenes in Organic Field-Effect Transistors. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 1567-1574	3.8	22
65	Assessment and modelling of Ni(II) retention by an ion-imprinted polymer: application in natural samples. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 448, 473-81	9.3	21
64	Bridged 1,6-Dithienylhexa-1,3,5-trienes as Highly Photoluminescent and Stable Thiophene-Based $\pi$ -Conjugated Systems. <i>Journal of Organic Chemistry</i> , <b>1998</b> , 63, 8310-8319	4.2	21
63	Effect of end-substitutions of distyryl-oligothiophenes by hexyl chains on environmental stability in organic thin film transistors. <i>Organic Electronics</i> , <b>2008</b> , 9, 591-601	3.5	20
62	Structure properties relationships of liquid crystal bent core organic semiconductors based on benzo[2,1-b:3,4-b']dithiophene-4,5-dione. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 23159		19
61	Supported synthesis of ferrocene modified oligonucleotides as new electroactive DNA probes. <i>Bioorganic and Medicinal Chemistry Letters</i> , <b>2004</b> , 14, 2439-41	2.9	19
60	Effect of template ion-ligand complex stoichiometry on selectivity of ion-imprinted polymers. <i>Talanta</i> , <b>2015</b> , 134, 538-545	6.2	18
59	Linearly extended hybrid tetrathiafulvalene analogues with bridged dithienylethylene- $\pi$ -conjugating spacers. <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 2027-2032		18
58	Characterization of PEDOT film functionalized with a series of automated synthesis ferrocenyl-containing oligonucleotides. <i>Tetrahedron</i> , <b>2005</b> , 61, 3947-3952	2.4	18
57	Acetylenic spacers in phenylene end-substituted oligothiophene core for highly air-stable organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 3845-51	3.6	16
56	Bandgap control through reduction of bond length alternation in bridged poly(diethienylethylene)s. <i>Chemical Communications</i> , <b>1997</b> , 569-570	5.8	16
55	Synthesis, electrochemical and photochromic behaviour of a series of (1,4-dithiafulven-6-yl)substituted 3H-naphtho[2,1-b]pyran derivatives. <i>Tetrahedron</i> , <b>2005</b> , 61, 423-428	2.4	16
54	Electrochemical molecularly imprinted polymers as material for pollutant detection. <i>Materials Today Communications</i> , <b>2018</b> , 17, 458-465	2.5	16
53	Co-grafting of porphyrins and fullerenes on ZnO nanorods: towards supramolecular donor-acceptor assembly. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 386, 268-76	9.3	15

52	All solution processed flexible ammonia gas and light sensors based on hexyl-distyrylbithiophene films. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 151, 77-82	8.5	14
51	Electrosynthesis of a functional conducting polymer incorporating ferrocene unit from an EDOT-based bithiophenic precursor. <i>Journal of Electroanalytical Chemistry</i> , <b>2007</b> , 603, 149-154	4.1	14
50	The first automated synthesis of ferrocene-labelled phosphorothioate DNA probe: a new potential tool for the fabrication of DNA microarrays. <i>Biotechnology Journal</i> , <b>2006</b> , 1, 95-8	5.6	14
49	Chemical instability and methods for measurement of cisplatin adducts formed by interactions with cysteine and glutathione. <i>International Journal of Clinical Pharmacology and Therapeutics</i> , <b>2001</b> , 39, 344-9	3	14
48	96X Screen-Printed Gold Electrode Platform to Evaluate Electroactive Polymers as Marine Antifouling Coatings. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 4978-4981	7.8	13
47	p-Type and n-type quaterthiophene based semiconductors for thin film transistors operating in air?. <i>Current Applied Physics</i> , <b>2009</b> , 9, 26-33	2.6	12
46	A thermodynamic study of ferrocene modified hairpin oligonucleotides upon duplex formation: applications to the electrochemical detection of DNA. <i>New Journal of Chemistry</i> , <b>2009</b> , 33, 1139	3.6	11
45	Synthesis and first characterization of N-alkyldiaminoresorcinols. <i>Tetrahedron Letters</i> , <b>2006</b> , 47, 5727-5731	2	11
44	Synthesis of electrochemical probes for nucleic acid detection. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 132, 439-442	8.5	10
43	Investigation of crown-containing styrylthiophene derivatives which are optically and electrochemically sensitive to the presence of metal cations. <i>Synthetic Metals</i> , <b>2007</b> , 157, 885-893	3.6	10
42	Water-compatible electrogenerated poly(thiophenes) derived from linked EDOT-based bithiophenic precursors. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 533-538	5.1	10
41	Design, synthesis and redox properties of two ferrocene-containing iron chelators. <i>Tetrahedron Letters</i> , <b>2006</b> , 47, 3371-3374	2	10
40	One-step preparation of molecularly imprinted hollow beads for pseudohypericin separation from <i>Hypericum perforatum</i> L. extracts. <i>European Polymer Journal</i> , <b>2018</b> , 100, 48-56	5.2	9
39	Application of unusual on/off electrochemical properties of a molecularly imprinted polymer based on an EDOTbithiophene precursor for the detection of ephedrine. <i>Electrochemistry Communications</i> , <b>2018</b> , 94, 45-48	5.1	9
38	Core-cyanated distyryl-bithiophene: Synthesis and impact on charge transport in field-effect transistors. <i>Thin Solid Films</i> , <b>2010</b> , 519, 578-586	2.2	9
37	D/A cruciform bithiophene chromophores as potential molecular scaffolds for optoelectronic applications. <i>Tetrahedron</i> , <b>2016</b> , 72, 1381-1386	2.4	8
36	Numerical and Experimental Investigation of Surface Plasmon Resonance Excitation Using Whispering Gallery Modes in Bent Metal-Clad Single-Mode Optical Fiber. <i>Journal of Lightwave Technology</i> , <b>2017</b> , 35, 5425-5431	4	8
35	Design, synthesis and electrochemical properties of a thiophene derivative functionalized with a siderophore-like chelator. <i>Journal of Electroanalytical Chemistry</i> , <b>2009</b> , 626, 42-46	4.1	8

34	Functionalization of kite-shaped styryl end-capped benzodithiophene with ketone groups: synthesis, characterization and properties. <i>Tetrahedron</i> , <b>2011</b> , 67, 1628-1632	2.4	8
33	Comparison of p-channel transistors based on hexyl-distyryl-bithiophene prepared using various film deposition methods. <i>Thin Solid Films</i> , <b>2010</b> , 518, 5311-5320	2.2	8
32	Novel crown-containing 3-styryl derivatives of oligothiophenes: synthesis, structure, and optical and electrochemical characteristics. <i>Russian Chemical Bulletin</i> , <b>2009</b> , 58, 1509-1515	1.7	7
31	Polymères conjugués à faible bande interdite d'ions de bithiophènes rigidifiés. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , <b>1995</b> , 92, 771-774		7
30	RAFT-synthesized polymers based on new ferrocenyl methacrylates and electrochemical properties. <i>RSC Advances</i> , <b>2015</b> , 5, 77019-77026	3.7	6
29	Crystal structure of oligothiophene thin films characterized by two-dimensional grazing incidence X-ray diffraction. <i>Japanese Journal of Applied Physics</i> , <b>2014</b> , 53, 01AD01	1.4	6
28	Toward n-channel organic thin film transistors based on a distyryl-bithiophene derivatives. <i>Tetrahedron</i> , <b>2012</b> , 68, 4664-4671	2.4	5
27	Perfluoroarene units in distyryl-oligothiophene analogues: An efficient electron density confinement preventing n-type transport in organic thin film transistors. <i>Synthetic Metals</i> , <b>2012</b> , 162, 857-861	3.6	5
26	Super-bridged thiophene-based conjugated systems with enhanced electron delocalization, photoluminescence efficiency and stability. <i>New Journal of Chemistry</i> , <b>1998</b> , 22, 547-549	3.6	5
25	Electroactive polyacrylates bearing linear conjugated systems based on EDOT moieties. <i>Polymer</i> , <b>2017</b> , 117, 17-24	3.9	4
24	Electrochemical molecularly imprinted polymers in microelectrode devices. <i>MRS Communications</i> , <b>2020</b> , 10, 324-331	2.7	4
23	Liquid Crystal Hexyl-Distyryl-Bithiophene: Morphology and Charge Transport Properties in Organic Thin Film Transistors. <i>Molecular Crystals and Liquid Crystals</i> , <b>2009</b> , 507, 178-187	0.5	4
22	Solution Growth and Structures of Semiconducting Distyryl-Oligothiophene. <i>Molecular Crystals and Liquid Crystals</i> , <b>2008</b> , 491, 264-269	0.5	4
21	Evaluation of Molecularly Imprinted Thin Films for Ephedrine Recognition <b>2019</b> , 56, 865-874		4
20	La rigidification : une stratégie efficace d'accès des polymères et oligomères conjugués à faible bande interdite. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , <b>1995</b> , 92, 767-770		4
19	Polydithiobyléthylènes solubles d'ions de précurseurs à structure pontée. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , <b>1998</b> , 95, 1274-1277		4
18	Uncovering the behavior of screen-printed carbon electrodes modified with polymers molecularly imprinted with lipopolysaccharide. <i>Electrochemistry Communications</i> , <b>2021</b> , 124, 106965	5.1	4
17	Dibutylamino end-capped benzo[2,1-b:3,4-b']dithiophene-4,5-dione and benzo[2,1-b:3,4-b']dithiophene versus non modified analogues: contribution of amino groups. <i>Tetrahedron</i> , <b>2015</b> , 71, 4079-4083	2.4	3

16	A New Active Organic Component for Flexible Ammonia Gas Sensors. <i>Procedia Engineering</i> , <b>2011</b> , 25, 1069-1072		3
15	Characterization of in-plane structures of vapor deposited thin-films of distyryl-oligothiophenes by grazing incidence x-ray diffractometry. <i>Crystal Research and Technology</i> , <b>2007</b> , 42, 1228-1231	1.3	3
14	Synthesis, structures, and optical and electrochemical characteristics of novel crown-containing polythiophene systems. <i>Russian Chemical Bulletin</i> , <b>2007</b> , 56, 967-974	1.7	3
13	Nouveaux systèmes conjugués à états redox multiples. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , <b>1998</b> , 95, 1234-1237		3
12	Bacterial anti-adhesion activity based on the electrochemical properties of polymethacrylates bearing ferrocenyl pendant groups. <i>Biofouling</i> , <b>2018</b> , 34, 1055-1063	3.3	3
11	Advanced Electrochemical Molecularly Imprinted Polymer as Sensor Interfaces. <i>Proceedings (mdpi)</i> , <b>2019</b> , 15, 22	0.3	2
10	The effect of air exposure on the crystal structure of oligo-thiophene thin films investigated using in situ X-ray diffraction. <i>Journal of Crystal Growth</i> , <b>2017</b> , 468, 816-820	1.6	1
9	In situ Structural Study of Organic Semiconductor Thin Films. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1402, 54		1
8	Inkjet printing of new photosensitive sensors based on organic thin films <b>2008</b> ,		1
7	Thin-film structure of semiconducting end-capped oligothiophenes. <i>Journal of Physics: Conference Series</i> , <b>2007</b> , 83, 012026	0.3	1
6	Organic Thin Film Transistors Based on Distyryl-Oligothiophenes: Role of AFM Images in Analyses of Charge Transport Properties. <i>Open Journal of Applied Sciences</i> , <b>2012</b> , 02, 283-293	0.3	1
5	Bioinspiration and Microtopography As Nontoxic Strategies for Marine Bioadhesion Control. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100994	4.6	1
4	Development, Optimization, Biological Assays, and In Situ Field Immersion of a Transparent Piezoelectric Vibrating System for Antifouling Applications. <i>Actuators</i> , <b>2022</b> , 11, 47	2.4	0
3	Control of the optical properties upon a reversible [2+2] cycloaddition of 3-(4-N,N-dibutylamino)-styryl)-3E(dicyanovinyl)-bithiophene. <i>Tetrahedron</i> , <b>2020</b> , 76, 131384	2.4	
2	Highly photoluminescent and stable bridged dithienylhexatrienes. <i>Synthetic Metals</i> , <b>1999</b> , 102, 1162	3.6	
1	The Rigidification of the $\pi$ -Conjugated System: An Efficient New Strategy Towards Small Bandgap Semi-Conductors. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , <b>1994</b> , 95, 513-514	1	