

Claude Chevrot

List of Publications by Year in descending order

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49
papers

2,030
citations

236612

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43
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49
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49
docs citations

49
times ranked

1729
citing authors

#	ARTICLE	IF	CITATIONS
1	Active Thermal Control of Satellites with Electroactive Materials. , 2022, , 221-254.		1
2	Thermal regulation of satellites using adaptive polymeric materials. Solar Energy Materials and Solar Cells, 2019, 200, 110035.	3.0	13
3	Investigations of ionic liquids on the infrared electroreflective properties of poly(3,4-ethylenedioxythiophene). Solar Energy Materials and Solar Cells, 2018, 177, 23-31.	3.0	17
4	A comprehensive study of infrared reflectivity of poly(3,4-ethylenedioxythiophene) model layers with different morphologies and conductivities. Solar Energy Materials and Solar Cells, 2015, 143, 141-151.	3.0	34
5	Conducting IPNs and Ionic Liquids: Applications to Electroactive Polymer Devices. , 2015, , 297-321.		1
6	Electro-active Interpenetrating Polymer Networks actuators and strain sensors: Fabrication, position control and sensing properties. Sensors and Actuators B: Chemical, 2014, 193, 82-88.	4.0	52
7	Soft and flexible Interpenetrating Polymer Networks hosting electroreflective poly(3,4-ethylenedioxythiophene). Solar Energy Materials and Solar Cells, 2014, 127, 33-42.	3.0	17
8	Demonstrating kHz Frequency Actuation for Conducting Polymer Microactuators. Advanced Functional Materials, 2014, 24, 4851-4859.	7.8	96
9	Influence of the poly(ethylene oxide)/polybutadiene IPN morphology on the ionic conductivity of ionic liquid. European Polymer Journal, 2013, 49, 2670-2679.	2.6	11
10	Robust solid polymer electrolyte for conducting IPN actuators. Smart Materials and Structures, 2013, 22, 104005.	1.8	79
11	Patterning process and actuation in open air of micro-beam actuator based on conducting IPNs. Proceedings of SPIE, 2012, , .	0.8	4
12	Symmetrical electrochromic device from poly(3,4-(2,2-dimethylpropylenedioxy)thiophene)-based semi-interpenetrating polymer network. Synthetic Metals, 2012, 162, 1903-1911.	2.1	19
13	Electropolymerization of 3,4-ethylenedioxythiophene within an insulating nitrile butadiene rubber network: Application to electroreflective surfaces and devices. Solar Energy Materials and Solar Cells, 2012, 99, 109-115.	3.0	18
14	Micro-beam actuator based on conducting interpenetrating polymer networks: From patterning process to actuation in open air. , 2011, , .		0
15	Flexible Solid Polymer Electrolytes Based on Nitrile Butadiene Rubber/Poly(ethylene oxide) Interpenetrating Polymer Networks Containing Either LiTFSI or EMITFSI. Macromolecules, 2011, 44, 9683-9691.	2.2	88
16	Actuation and Sensing properties of Electroactive Polymer Whiskers. Procedia Computer Science, 2011, 7, S4-S7.	1.2	11
17	Conducting IPN actuators for biomimetic vision system. Proceedings of SPIE, 2011, , .	0.8	6
18	Poly(3,4-ethylenedioxythiophene)-containing semi-interpenetrating polymer networks: a versatile concept for the design of optical or mechanical electroactive devices. Polymer International, 2010, 59, 313-320.	1.6	38

#	ARTICLE	IF	CITATIONS
19	New Prospects in the Conception of IR Electro-Tunable Devices: The Use of Conducting Semi-Interpenetrating Polymer Network Architecture. <i>Chemistry of Materials</i> , 2010, 22, 4539-4547.	3.2	25
20	Conducting polymer artificial muscle fibres: toward an open air linear actuation. <i>Chemical Communications</i> , 2010, 46, 2910.	2.2	50
21	Ionic IPNs as novel candidates for highly conductive solid polymer electrolytes. <i>Journal of Polymer Science Part A</i> , 2009, 47, 4245-4266.	2.5	56
22	Synthesis, polymerization and conducting properties of an ionic liquid-type anionic monomer. <i>Tetrahedron Letters</i> , 2009, 50, 128-131.	0.7	35
23	Self-supported semi-interpenetrating polymer networks for new design of electrochromic devices. <i>Electrochimica Acta</i> , 2008, 53, 4336-4343.	2.6	58
24	Thermal ageing of poly(ethylene oxide)/poly(3,4-ethylenedioxythiophene) semi-IPNs. <i>European Polymer Journal</i> , 2008, 44, 3864-3870.	2.6	21
25	Poly(ethylene oxide)/polybutadiene based IPNs synthesis and characterization. <i>Polymer</i> , 2007, 48, 696-703.	1.8	50
26	Polybutadiene/poly(ethylene oxide) based IPNs, Part II: Mechanical modelling and LiClO ₄ loading as tools for IPN morphology investigation. <i>Polymer</i> , 2007, 48, 7476-7483.	1.8	21
27	Copolymers based on fluorene dyads mixed to 3,4-ethylenedioxythiophene units: Optical properties of random versus regular structures. <i>Synthetic Metals</i> , 2006, 156, 898-906.	2.1	9
28	Conducting IPN actuators: From polymer chemistry to actuator with linear actuation. <i>Synthetic Metals</i> , 2006, 156, 1299-1304.	2.1	62
29	Interpenetrating Polymer Networks from Polymeric Imidazolium-type Ionic Liquid and polybutadiene. <i>Polymer Bulletin</i> , 2006, 57, 473-480.	1.7	22
30	Long-Life Air Working Semi-IPN/Ionic Liquid: New Precursor of Artificial Muscles. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 448, 95/[697]-102/[704].	0.4	15
31	Synthesis and characterization of conducting interpenetrating polymer networks for new actuators. <i>Polymer</i> , 2005, 46, 7771-7778.	1.8	84
32	Long-life air working conducting semi-IPN/ionic liquid based actuator. <i>Synthetic Metals</i> , 2004, 142, 287-291.	2.1	154
33	New organic materials for light emitting devices based on dihexylfluorene-co-ethylenedioxythiophene copolymers exhibiting improved hole-injecting properties. <i>Synthetic Metals</i> , 2002, 131, 31-40.	2.1	30
34	Interfacial polymerization of a 3,4-ethylenedioxythiophene derivative using Langmuir-Blodgett technique. Spectroscopic and electrochemical characterizations. <i>Thin Solid Films</i> , 2002, 411, 280-288.	0.8	25
35	Synthesis and electrochemical properties of mixed ionic and electronic modified polycarbazole. <i>Electrochimica Acta</i> , 2002, 47, 2927-2936.	2.6	75
36	Fully undoped and soluble oligo(3,4-ethylenedioxythiophene)s: spectroscopic study and electrochemical characterization. <i>Journal of Materials Chemistry</i> , 2001, 11, 1378-1382.	6.7	162

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37	Optical and electrochemical properties of soluble N-hexylcarbazole-co-3,4-ethylenedioxythiophene copolymers. <i>Synthetic Metals</i> , 2001, 122, 351-358.	2.1	30
38	Electrosynthesis and oxidation of new oligoazomethines containing N-ethylcarbazole groups. <i>Synthetic Metals</i> , 2001, 118, 157-166.	2.1	13
39	Electrochemical behaviour of 3, 4-ethylenedioxythiophene functionalized by a sulphonate group. Application to the preparation of poly(3, 4-ethylenedioxythiophene) having permanent cation-exchange properties. <i>Journal of Electroanalytical Chemistry</i> , 1998, 443, 217-226.	1.9	101
40	Electropolymerization of 3,4-ethylenedioxythiophene and 3,4-ethylenedioxythiophene methanol in the presence of dodecylbenzenesulfonate. <i>Synthetic Metals</i> , 1998, 93, 33-41.	2.1	187
41	Electrosynthesis and study of phenylene-carbazolyne copolymers. <i>Synthetic Metals</i> , 1994, 63, 89-99.	2.1	21
42	Investigation of the electrocatalysed step polymerization of soluble poly(N-alkyl-3,6-carbazolyne)s. <i>Polymer</i> , 1993, 34, 3911-3916.	1.8	9
43	Investigation on the electrocatalyzed step polymerization of soluble electroactive poly(N-alkyl-3,6-carbazolyne)s. <i>Synthetic Metals</i> , 1993, 55, 1656-1661.	2.1	25
44	Electrosynthesis of poly(N-ethyl-3,6-carbazolediyl) catalyzed by a Ni(0)-based complex. <i>Die Makromolekulare Chemie</i> , 1989, 190, 1361-1368.	1.1	53
45	Electrosynthesis of all-electroactive copolymers based on phenylene and carbazolyne units. <i>Synthetic Metals</i> , 1989, 33, 57-64.	2.1	6
46	Preparation of Poly(1,4-phenylene) by Nickel(0) complex catalyzed electropolymerization. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1983, 4, 455-457.	1.1	106
47	Synthesis and Characterization of IPNs for Electrochemical Actuators. <i>Advances in Science and Technology</i> , 0, , .	0.2	9
48	Conducting IPN Fibers: A New Design for Linear Actuation in Open Air. <i>Advances in Science and Technology</i> , 0, , .	0.2	6
49	PEDOT Based Conducting IPN Actuators: Effects of Electrolyte on Actuation. <i>Advances in Science and Technology</i> , 0, , .	0.2	5