Jean-Yves Sanchez

List of Publications by Year
in descending order

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137 papers	5,518 citations	100601 38 h-index	104191 69 g-index
141 all docs	141 docs citations	141 times ranked	5687 citing authors

#	Article	IF	Citations
1	Tape casting manufacturing of thick Li4Ti5O12 ceramic electrodes with high areal capacity for lithium-ion batteries. Journal of the European Ceramic Society, 2021, 41, 1025-1032.	2.8	8
2	Interplay between Conductivity, Matrix Relaxations and Composition of Caâ€Polyoxyethylene Polymer Electrolytes. ChemElectroChem, 2021, 8, 2459-2466.	1.7	5
3	High mass loading additive-free LiFePO4 cathodes with 500ÂÎ¼m thickness for high areal capacity Li-ion batteries. Journal of Power Sources, 2020, 458, 228033.	4.0	41
4	Ultra-thick battery electrodes for high gravimetric and volumetric energy density Li-ion batteries. Journal of Power Sources, 2019, 437, 226923.	4.0	57
5	Multiblock copolymers of sulfonated PSU/PPSU Poly(ether sulfone)s as solid electrolytes for proton exchange membrane fuel cells. Electrochimica Acta, 2019, 302, 428-440.	2.6	24
6	Optimizing ionic conduction of poly(oxyethylene) electrolytes through controlling the cross-link density. Electrochimica Acta, 2017, 240, 307-315.	2.6	22
7	Sodium polymer electrolytes composed of sulfonated polysulfone and macromolecular/molecular solvents for Na-batteries. Electrochimica Acta, 2017, 245, 807-813.	2.6	6
8	Lithium salts based on a series of new anilinyl-perfluorosulfonamide salts and their polymer electrolytes. Journal of Power Sources, 2017, 364, 138-147.	4.0	12
9	Aromatic ionic monomer bearing perfluorosulfonate moiety and its polycondensation toward high performance superacid ionomers. Journal of Fluorine Chemistry, 2016, 189, 43-50.	0.9	4
10	Nanocomposite poly(vynilidene fluoride)/nanocrystalline cellulose porous membranes as separators for lithium-ion batteries. Electrochimica Acta, 2016, 214, 38-48.	2.6	45
11	Polyaromatic ionomers with a highly hydrophobic backbone and perfluorosulfonic acids for PEMFC. Electrochimica Acta, 2016, 214, 182-191.	2.6	22
12	Evaluation of polyolefin-based macroporous separators for high temperature Li-ion batteries. Electrochimica Acta, 2016, 216, 68-78.	2.6	57
13	Highly Phase Separated Aromatic Ionomers Bearing Perfluorosulfonic Acids by Bottom-up Synthesis: Effect of Cation on Membrane Morphology and Functional Properties. Macromolecules, 2016, 49, 4164-4177.	2.2	20
14	Development of sodium-conducting polymer electrolytes: comparison between film-casting and films obtained via green processes. Electrochimica Acta, 2016, 192, 456-466.	2.6	29
15	Effect of carbonates fluorination on the properties of LiTFSI-based electrolytes for Li-ion batteries. Electrochimica Acta, 2015, 161, 159-170.	2.6	30
16	Crosslinking of poly(vinylene fluoride) separators by gamma-irradiation for electrochemical high power charge applications. Electrochimica Acta, 2015, 169, 32-36.	2.6	14
17	Electrochemical and structural characterization of sulfonated polysulfone. Polymer Testing, 2015, 45, 185-193.	2.3	34
18	Electrochemical and ab initio investigations to design a new phenothiazine based organic redox polymeric material for metal-ion battery cathodes. Physical Chemistry Chemical Physics, 2015, 17, 25283-25296.	1.3	45

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19	Fluorinated Carbamates as Suitable Solvents for LiTFSI-Based Lithium-Ion Electrolytes: Physicochemical Properties and Electrochemical Characterization. Journal of Physical Chemistry C, 2015, 119, 22404-22414.	1.5	30
20	Enabling LiTFSIâ€based Electrolytes for Safer Lithiumâ€Ion Batteries by Using Linear Fluorinated Carbonates as (Co)Solvent. ChemSusChem, 2014, 7, 2939-2946.	3.6	76
21	A non-conventional fluorinated separator in high-voltage graphite/LiNi0.4Mn1.6O4 cells. Journal of Power Sources, 2014, 246, 299-304.	4.0	12
22	Polyethersulfone containing sulfonimide groups as proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2014, 39, 2740-2750.	3.8	25
23	Preparation and characterization of poly(vinylidene fluoride) based composite electrolytes for electrochemical devices. Electrochimica Acta, 2013, 109, 741-749.	2.6	12
24	Unusual process-induced curl and shrinkage of electrospun PVDF membranes. Polymer, 2013, 54, 4588-4593.	1.8	8
25	High-Temperature Ionic-Conducting Material: Advanced Structure and Improved Performance. Journal of Physical Chemistry C, 2013, 117, 15552-15561.	1.5	33
26	Elaboration and characterizations of Nafion composite membranes based on Phosphatoantimonic Acid. Energy Procedia, 2012, 14, 1717-1722.	1.8	0
27	Influence of Anions on Proton-Conducting Membranes Based on Neutralized Nafion 117, Triethylammonium Methanesulfonate, and Triethylammonium Perfluorobutanesulfonate. 2. Electrical Properties. Journal of Physical Chemistry C, 2012, 116, 1370-1379.	1.5	44
28	Influence of Anions on Proton-Conducting Membranes Based on Neutralized Nafion 117, Triethylammonium Methanesulfonate, and Triethylammonium Perfluorobutanesulfonate. 1. Synthesis and Properties. Journal of Physical Chemistry C, 2012, 116, 1361-1369.	1.5	35
29	How does Î³-irradiation affect the properties of a microfiltration membrane constituted of two polymers with different radiolytic behavior?. Radiation Physics and Chemistry, 2012, 81, 331-338.	1.4	5
30	Polymer electrolytes based on new aryl-containing lithium perfluorosulfonates. Journal of Fluorine Chemistry, 2012, 134, 72-76.	0.9	11
31	Syntheses of a wide family of new aryl based perfluorosulfonimide lithium salts. Electrochemical performances of the related polymer electrolytes. Journal of Fluorine Chemistry, 2011, 132, 1213-1218.	0.9	12
32	Poly(vinylidene fluoride)-based macroporous separators for supercapacitors. Electrochimica Acta, 2011, 57, 98-103.	2.6	58
33	Poly(oxyethylene) electrolytes based on lithium nitrophenyl sulfonamide and hexanitrodiphenylamide. Electrochimica Acta, 2011, 57, 20-26.	2.6	6
34	Towards Extrusion of Ionomers to Process Fuel Cell Membranes. Polymers, 2011, 3, 1126-1150.	2.0	12
35	Proton-conducting ionic liquid-based Proton Exchange Membrane Fuel Cell membranes: The key role of ionomerâ€“ionic liquid interaction. Journal of Power Sources, 2010, 195, 5829-5839.	4.0	87
36	Influence of dispersion procedure on rheological properties of aqueous solutions of high molecular weight PEO. Rheologica Acta, 2010, 49, 529-540.	1.1	30

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37	Ionic Liquids and Their Hosting by Polymers for HTâ€PEMFC Membranes. Fuel Cells, 2010, 10, 778-789.	1.5	30
38	Structure-Relaxation Interplay of a New Nanostructured Membrane Based on Tetraethylammonium Trifluoromethanesulfonate Ionic Liquid and Neutralized Nafion 117 for High-Temperature Fuel Cells. Journal of the American Chemical Society, 2010, 132, 2183-2195.	6.6	153
39	Copolymers Formation by Photopolymerization of (Meth)acrylates Containing Dissolved Polyheteroarylenes. International Journal of Polymer Science, 2009, 2009, 1-11.	1.2	5
40	Proton Conducting Ionic Liquid Electrolyte for High Temperature PEMFC. ECS Transactions, 2009, 25, 1647-1657.	0.3	10
41	A simple access to metallic or onium bistrifluoromethanesulfonimide salts. Tetrahedron, 2009, 65, 5361-5368.	1.0	39
42	Photopolymerization of (meth)acrylates in the presence of polyheteroarylenes. Polymer Science - Series B, 2009, 51, 1-12.	0.3	7
43	New poly(arylene ethers) containing side sulfo groups. Polymer Science - Series B, 2009, 51, 465-470.	0.3	1
44	Polysulfone-based Ionomers for Fuel Cell Applications. High Performance Polymers, 2009, 21, 673-692.	0.8	29
45	New aryl-containing fluorinated sulfonic acids and their ammonium salts, useful as electrolytes for fuel cells or ionic liquids. Journal of Fluorine Chemistry, 2008, 129, 1029-1035.	0.9	28
46	PILsâ€based Nafion membranes: a route to highâ€temperature PEFMCs dedicated to electric and hybrid vehicles. Polymers for Advanced Technologies, 2008, 19, 1406-1414.	1.6	52
47	Novel phosphonated poly(1,3,4-oxadiazole)s: Synthesis in ionic liquid and characterization. Reactive and Functional Polymers, 2008, 68, 208-224.	2.0	25
48	Proton Conducting Ionic Liquid Organization as Probed by NMR:â€‰ Self-Diffusion Coefficients and Heteronuclear Correlations. Journal of Physical Chemistry B, 2008, 112, 3680-3683.	1.2	58
49	Efficient Preparation of New Fluorinated Lithium and Ammonium Sulfonimides. Journal of Organic Chemistry, 2008, 73, 5613-5616.	1.7	23
50	Preparation and Characterization of Sulfonated Polyphenylquinoxalines. High Performance Polymers, 2008, 20, 627-641.	0.8	13
51	Extruded Proton Exchange Membranes Based on Sulfonated Polyaromatic Polymers for Fuel Cell Application. AIP Conference Proceedings, 2008, , .	0.3	2
52	Influence of Cellulose Nanofillers on the Rheological Properties of Polymer Electrolytes. AIP Conference Proceedings, 2008, , .	0.3	2
53	Membrane and Active Layer Degradation upon PEMFC Steady-State Operation. Journal of the Electrochemical Society, 2007, 154, B1106.	1.3	164
54	Membrane and Active Layer Degradation Following PEMFC Steady-State Operation. Journal of the Electrochemical Society, 2007, 154, B1115.	1.3	51

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55	Pt Redistribution within PEMFC MEAs and its Consequence on their Performances. ECS Transactions, 2007, 11, 1203-1214.	0.3	11
56	An Efficient Preparation of New Sulfonyl Fluorides and Lithium Sulfonates. Journal of Organic Chemistry, 2007, 72, 9046-9052.	1.7	80
57	Dissociation of C₆F₅SO₃Li in two organic solvents with different dielectric constants: a Raman spectroscopic study. Journal of Raman Spectroscopy, 2007, 38, 1570-1576.	1.2	3
58	Study of PEMFC ionomers through model molecules mimicking the ionomer repeat units. Electrochimica Acta, 2007, 52, 7953-7963.	2.6	9
59	Solvation of sulphonic acid groups in NafionÂ® membranes from accurate conductivity measurements. Electrochemistry Communications, 2007, 9, 1023-1028.	2.3	47
60	Poly(oxyethylene) electrolytes based on lithium pentafluorobenzene sulfonate. Electrochimica Acta, 2007, 52, 3758-3765.	2.6	26
61	Extrusion: An environmentally friendly process for PEMFC membrane elaboration. Electrochimica Acta, 2007, 53, 1584-1595.	2.6	22
62	Electrochemical investigation of polymer electrolytes based on lithium 2-(phenylsulfanyl)-1,1,2,2-tetrafluoro-ethansulfonate. Electrochimica Acta, 2007, 53, 1439-1443.	2.6	11
63	Ion transport in CLIP: Investigation through conductivity and NMR measurements. Electrochimica Acta, 2007, 53, 1395-1403.	2.6	35
64	Lithium-ion batteries with high charge rate capacity: Influence of the porous separator. Journal of Power Sources, 2007, 172, 416-421.	4.0	185
65	Chemical and physicochemical characterizations of ionomers. Electrochimica Acta, 2006, 51, 4789-4801.	2.6	51
66	New polymer electrolytes based on ether sulfate anions for lithium polymer batteries. Electrochimica Acta, 2006, 51, 5954-5960.	2.6	9
67	From polymer chemistry to membrane elaboration. Journal of Power Sources, 2006, 153, 198-209.	4.0	91
68	Fluorinated organic chemicals: Prospects in New Electrochemical Energy Technologies. Journal of Fluorine Chemistry, 2006, 127, 1471-1478.	0.9	17
69	New polymer electrolytes based on ether sulfate anions for lithium polymer batteries. Electrochimica Acta, 2006, 51, 5876-5884.	2.6	9
70	Electrochemical and NMR characterizations of mixed polymer electrolytes based on oligoether sulfate and imide salts. Electrochimica Acta, 2006, 52, 1240-1246.	2.6	15
71	NMR and Electrochemical Study on Lithium Oligoether Sulfate in Polymeric and Liquid Electrolytes. ChemPhysChem, 2006, 7, 1921-1929.	1.0	5
72	One layer, two layers, etc. An introduction to the EIS study of multilayer electrodes. Part 1: Theory. Journal of Electroanalytical Chemistry, 2005, 578, 247-257.	1.9	23

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73	Lithium salts based on oligoether sulfate esters. Electrochimica Acta, 2005, 50, 3843-3852.	2.6	14
74	POE-based nanocomposite polymer electrolytes reinforced with cellulose whiskers. Electrochimica Acta, 2005, 50, 3897-3903.	2.6	91
75	Transport mechanism in anionic conductive ionomers from temperature and pressure conductivity measurements. Electrochimica Acta, 2005, 50, 5015-5021.	2.6	4
76	Mastering Sulfonation of Aromatic Polysulfones: Crucial for Membranes for Fuel Cell Application. Fuel Cells, 2005, 5, 344-354.	1.5	128
77	PVdF-based polymers for lithium batteries. , 2005, , 305-333.		2
78	NMR Study of Cation, Anion, and Solvent Mobilities in Macroporous Poly(vinylidene fluoride). Journal of Physical Chemistry B, 2005, 109, 2487-2492.	1.2	26
79	Plasticized microporous poly(vinylidene fluoride) separators for lithium-ion batteries. II. Poly(vinylidene fluoride) dense membrane swelling behavior in a liquid electrolyte-characterization of the swelling kinetics. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 544-552.	2.4	17
80	Plasticized microporous poly(vinylidene fluoride) separators for lithium-ion batteries. I. Swelling behavior of dense membranes with respect to a liquid electrolyte-Characterization of the swelling equilibrium. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 532-543.	2.4	42
81	Plasticized microporous poly(vinylidene fluoride) separators for lithium-ion batteries. III. Gel properties and irreversible modifications of poly(vinylidene fluoride) membranes under swelling in liquid electrolytes. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 2308-2317.	2.4	48
82	Plasticized nanocomposite polymer electrolytes based on poly(oxyethylene) and cellulose whiskers. Electrochimica Acta, 2004, 49, 4667-4677.	2.6	95
83	Cellulose nanocrystals reinforced poly(oxyethylene). Polymer, 2004, 45, 4149-4157.	1.8	363
84	Nanocomposite Polymer Electrolytes Based on Poly(oxyethylene) and Cellulose Nanocrystals. Journal of Physical Chemistry B, 2004, 108, 10845-10852.	1.2	177
85	Preparation of Cellulose Whiskers Reinforced Nanocomposites from an Organic Medium Suspension. Macromolecules, 2004, 37, 1386-1393.	2.2	324
86	Cross-Linked Nanocomposite Polymer Electrolytes Reinforced with Cellulose Whiskers. Macromolecules, 2004, 37, 4839-4844.	2.2	163
87	Lithium organic salts with extra functionalities. Electrochimica Acta, 2003, 48, 1961-1969.	2.6	21
88	Thin and flexible lithium-ion batteries: investigation of polymer electrolytes. Journal of Power Sources, 2003, 119-121, 454-459.	4.0	105
89	New family of anion conducting polymers: synthesis and characterization. Electrochimica Acta, 2003, 48, 1953-1959.	2.6	13
90	Ionic conductivity, glass transition, and local free volume in poly(ethylene oxide) electrolytes:â€‚Single and mixed ion conductors. Journal of Chemical Physics, 2003, 118, 9420-9432.	1.2	87

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91	Swollen Polymethacrylonitrile Urethane Networks for Lithium Batteries. Journal of the Electrochemical Society, 2003, 150, A14.	1.3	9
92	Study of the interaction polymer/organic solvents/salt in microporous PVdF separator for lithium batteries. Macromolecular Symposia, 2003, 200, 101-110.	0.4	0
93	Electrochemical study of polymethacrylonitrile electrolytes. Electrochimica Acta, 2002, 47, 1321-1326.	2.6	14
94	Electrochemical study of polymethacrylonitrile electrolytes. Electrochimica Acta, 2002, 47, 1327-1334.	2.6	12
95	Ionomeric membranes for proton exchange membrane fuel cell (PEMFC): sulfonated polysulfone associated with phosphatoantimonic acid. Journal of Membrane Science, 2001, 185, 59-71.	4.1	246
96	Partial hydrogenation of unsaturated polyethers: A convenient route to curable terpolymers for lithium batteries. Journal of Polymer Science Part A, 2000, 38, 2900-2909.	2.5	4
97	Electrochemical and spectroscopic studies of polymethacrylonitrile based electrolytes. Electrochimica Acta, 2000, 45, 1255-1263.	2.6	31
98	Electrochemical investigation of lithium aromatic sulfonyl imide salts. Electrochimica Acta, 2000, 45, 1193-1201.	2.6	14
99	New alkali ionomers: transport mechanism from temperature and pressure conductivity measurements. Solid State Ionics, 2000, 136-137, 1153-1160.	1.3	21
100	Water sorption and protonic conductivity in a filled/unfilled thermostable ionomer for proton exchange membrane fuel cell. Macromolecular Symposia, 1999, 138, 85-91.	0.4	3
101	Electrochemical comparison of several cross-linked polyethers. Electrochimica Acta, 1998, 43, 1199-1204.	2.6	10
102	Physical properties of amorphous polyether networks. Electrochimica Acta, 1998, 43, 1257-1262.	2.6	12
103	Various aspects of dynamical properties of high and low molecular weight PPO-LITFSI polymer electrolytes obtained by NMR techniques. Electrochimica Acta, 1998, 43, 1575-1579.	2.6	20
104	Thermostable ionomeric filled membrane for H2/O2 fuel cell. Journal of Power Sources, 1998, 74, 8-16.	4.0	85
105	Influence of pressure on ionic transport in amorphous electrolytes: Comparison between glasses and salt polymer complexes. Ionics, 1998, 4, 1-7.	1.2	7
106	Polymeric Materials in Energy Storage and Conversion. Molecular Crystals and Liquid Crystals, 1998, 324, 257-266.	0.3	26
107	Synthesis of poly(oxypropylene)â€lithium bis(trifluoromethylâ€sulfonylimide) polymer electrolytes. Diffusion study by NMR techniques. Macromolecular Symposia, 1997, 114, 211-216.	0.4	0
108	Polymers for electrochemical devices. Macromolecular Symposia, 1997, 114, 85-95.	0.4	3

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109	Comparative ion transport in several polymer electrolytes. Journal of Power Sources, 1997, 68, 372-376.	4.0	36
110	Polymer and salt selection for lithium polymer batteries. Journal of Power Sources, 1997, 68, 43-51.	4.0	9
111	Physical properties of polymer electrolytes: nuclear magnetic resonance investigation and comparison with. Journal of Physics Condensed Matter, 1996, 8, 7005-7017.	0.7	26
112	Ionic behaviour of alkaline complexes based on linear and crosslinked poly(oxypropylene). Electrochimica Acta, 1995, 40, 953-957.	2.6	10
113	Ionic conductivity of polymer electrolytes obtained by polycondensation from PEGs; Redox properties induced within a polyether-aryl. Electrochimica Acta, 1995, 40, 1907-1912.	2.6	4
114	Perfluorosulfonate-polyether based single ion conductors. Electrochimica Acta, 1995, 40, 2259-2264.	2.6	106
115	New solvating polyether networks. Electrochimica Acta, 1995, 40, 2269-2276.	2.6	28
116	Comparative ab initio calculations on several salts. Electrochimica Acta, 1995, 40, 2437-2443.	2.6	40
117	New solvating cross-linked polyether for lithium batteries. Journal of Power Sources, 1995, 54, 34-39.	4.0	23
118	Large lithium polymer battery development The immobile solvent concept. Journal of Power Sources, 1995, 54, 163-169.	4.0	58
119	Cationic conductivity in poly(oxyethylene oxide) networks. Journal of Power Sources, 1995, 54, 456-460.	4.0	28
120	Electrochemical Behavior of Lithium Electrolytes Based on New Polyether Networks. Journal of the Electrochemical Society, 1994, 141, 1915-1920.	1.3	66
121	Ionic conductivities of PPO-LiTFSI complexes. Solid State Ionics, 1994, 72, 160-164.	1.3	17
122	Synthesis and electrochemical characterization of new bulky lithium salts. Solid State Ionics, 1994, 70-71, 157-162.	1.3	19
123	Triblock copolymers and networks incorporating oligo (oxyethylene) chains. Solid State Ionics, 1993, 60, 3-9.	1.3	34
124	Synthesis and electrochemical characterization of a new family of lithium salts. Solid State Ionics, 1993, 60, 87-92.	1.3	24
125	Sulfamide complexes of polymethacrylates carrying oligopolyoxyethylene chains. Solid State Ionics, 1993, 61, 203-212.	1.3	7
126	Infrared and Raman characterization of polyethylene oxide complexes of sulfamide. Solid State Ionics, 1993, 61, 219-225.	1.3	5

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127	Comparative electrochemical study of new poly(oxyethylene)â€“Li salt complexes. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 355-359.	1.7	78
128	Electrochemical study of linear and crosslinked POE-based polymer electrolytes. Electrochimica Acta, 1992, 37, 1699-1701.	2.6	143
129	New polyamide-ether electrolytes. Electrochimica Acta, 1992, 37, 1737-1741.	2.6	26
130	Synthesis and electrochemical characterization of new polymer electrolytes based on dioxolane homo and co-polymers. Electrochimica Acta, 1992, 37, 1589-1592.	2.6	22
131	Ionic conduction in (PEO)nKCuxI1 + x complexes. Electrochimica Acta, 1992, 37, 1599-1601.	2.6	7
132	Proton-vacancy conducting polymers based on polyethylene oxide and sulfamide-type salts. Electrochimica Acta, 1992, 37, 1603-1609.	2.6	17
133	Organicâ€”inorganic protonic polymer electrolytes as membrane for low-temperature fuel cell. Electrochimica Acta, 1992, 37, 1615-1618.	2.6	102
134	Conductivity measurements of LiTFSI triblock copolymers with a central POE sequence. Electrochimica Acta, 1992, 37, 1729-1731.	2.6	30
135	TÃ©tramÃ©thyl-1,1',3,3' biindÃ¨ne-1:1'-(Â±), C22H22. Acta Crystallographica Section C: Crystal Structure Communications, 1985, 41, 99-101.	0.4	0
136	Intramolecular cyclisation of 1,1â€²,3,3â€²- tetramethyl-1,1â€²-bi-indenyl. Journal of the Chemical Society Chemical Communications, 1981, .	2.0	2
137	Transfert dâ€™Ã©lectrons Ã travers les membranes de polyÃ©thylÃ¨ne chargÃ© de carbone. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1977, 74, 1192-1196.	0.2	1