

Didier Chaussy

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.

71
papers

1,863
citations

24
h-index

40
g-index

74
ext. papers

2,070
ext. citations

6.2
avg, IF

4.6
L-index

#	Paper	IF	Citations
71	Cellulose-based Li-ion batteries: a review. <i>Cellulose</i> , 2013 , 20, 1523-1545	5.5	209
70	Microfibrillated cellulose-graphite nanocomposites for highly flexible paper-like Li-ion battery electrodes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7344		107
69	Surface functionalization of cellulose fibres and their incorporation in renewable polymeric matrices. <i>Composites Science and Technology</i> , 2008 , 68, 3193-3201	8.6	74
68	Aqueous processing of cellulose based paper-anodes for flexible Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3227		73
67	A simple route toward next-gen green energy storage concept by nanofibres-based self-supporting electrodes and a solid polymeric design. <i>Carbon</i> , 2016 , 107, 811-822	10.4	70
66	Polymerization of pyrrole on cellulose fibres using a FeCl ₃ impregnation- pyrrole polymerization sequence. <i>Cellulose</i> , 2006 , 13, 725-734	5.5	69
65	Flexible cellulose/LiFePO ₄ paper-cathodes: toward eco-friendly all-paper Li-ion batteries. <i>Cellulose</i> , 2013 , 20, 571-582	5.5	63
64	Highly Conducting Polypyrrole/Cellulose Nanocomposite Films with Enhanced Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 934-941	3.9	59
63	Bioelectrodes modified with chitosan for long-term energy supply from the body. <i>Energy and Environmental Science</i> , 2015 , 8, 1017-1026	35.4	58
62	Preparation of highly hydrophobic and lipophobic cellulose fibers by a straightforward gas-solid reaction. <i>Journal of Colloid and Interface Science</i> , 2010 , 344, 588-95	9.3	56
61	Photoluminescent Patterned Papers Resulting from Printings of Polymeric Nanoparticles Suspension. <i>International Journal of Polymer Science</i> , 2010 , 2010, 1-8	2.4	55
60	Characterization of three non-product materials from a bleached eucalyptus kraft pulp mill, in view of valorising them as a source of cellulose fibres. <i>Industrial Crops and Products</i> , 2008 , 27, 288-295	5.9	54
59	Use of Microfibrillated Cellulose/Lignosulfonate Blends as Carbon Precursors: Impact of Hydrogel Rheology on 3D Printing. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 10575-10582	3.9	46
58	Highly conductive graphite/carbon fiber/cellulose composite papers. <i>Composites Science and Technology</i> , 2012 , 72, 616-623	8.6	45
57	Freestanding redox buckypaper electrodes from multi-wall carbon nanotubes for bioelectrocatalytic oxygen reduction via mediated electron transfer. <i>Chemical Science</i> , 2014 , 5, 2885-2888	9.4	43
56	Biocarbons from microfibrillated cellulose/lignosulfonate precursors: A study of electrical conductivity development during slow pyrolysis. <i>Carbon</i> , 2018 , 129, 357-366	10.4	33
55	Chitosan improves stability of carbon nanotube biocathodes for glucose biofuel cells. <i>Chemical Communications</i> , 2014 , 50, 14535-8	5.8	33

54	Composites of rigid polyurethane foam and cellulose fiber residue. <i>Journal of Applied Polymer Science</i> , 2010 , 117, n/a-n/a	2.9	32
53	Aqueous processing of paper separators by filtration dewatering: towards Li-ion paper batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14894-14901	13	31
52	Highly Porous Paper Loading with Microfibrillated Cellulose by Spray Coating on Wet Substrates. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10982-10989	3.9	31
51	Influence of silver paste rheology and screen parameters on the front side metallization of silicon solar cell. <i>Materials Science in Semiconductor Processing</i> , 2014 , 27, 790-799	4.3	31
50	Photoluminescent Paper Based on Poly(fluorene-co-fluorenone) Particles Adsorption on Modified Cellulose Fibers. <i>Advanced Materials</i> , 2007 , 19, 3291-3294	24	28
49	Microfibrillated Cellulose Based Ink for Eco-Sustainable Screen Printed Flexible Electrodes in Lithium Ion Batteries. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 566-572	9.1	25
48	Pilot-scale elaboration of graphite/microfibrillated cellulose anodes for Li-ion batteries by spray deposition on a forming paper sheet. <i>Chemical Engineering Journal</i> , 2014 , 243, 372-379	14.7	24
47	A fibrous cellulose paste formulation to manufacture structural parts using 3D printing by extrusion. <i>Carbohydrate Polymers</i> , 2019 , 212, 119-128	10.3	22
46	Polypyrrole (PPy) chemical synthesis with xylan in aqueous medium and production of highly conducting PPy/nanofibrillated cellulose films and coatings. <i>Cellulose</i> , 2011 , 18, 1455-1467	5.5	21
45	Adsorption of cationic photoluminescent nanoparticles on softwood cellulose fibres: Effects of particles stabilization and fibres beating. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 334, 80-86	5.1	21
44	Cellulose/graphite/carbon fibres composite electrodes for Li-ion batteries. <i>Composites Science and Technology</i> , 2013 , 87, 232-239	8.6	20
43	Screen-Printed Polyaniline-Based Electrodes for the Real-Time Monitoring of Loop-Mediated Isothermal Amplification Reactions. <i>Analytical Chemistry</i> , 2017 , 89, 10124-10128	7.8	20
42	Thermal characterization and kinetic analysis of microfibrillated cellulose/lignosulfonate blends. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 124, 25-34	6	18
41	Rapid nanopaper production by spray deposition of concentrated microfibrillated cellulose slurries. <i>Industrial Crops and Products</i> , 2015 , 72, 200-205	5.9	18
40	Photochromic Ag:TiO ₂ thin films on PET substrate. <i>RSC Advances</i> , 2014 , 4, 61305-61312	3.7	18
39	Surfactant (TTAB) role in the preparation of 2,7-Poly(9,9-dialkylfluorene-co-fluorenone) nanoparticles by miniemulsion. <i>Langmuir</i> , 2009 , 25, 6745-52	4	18
38	Carbon nanotube-based flexible biocathode for enzymatic biofuel cells by spray coating. <i>Journal of Power Sources</i> , 2018 , 408, 1-6	8.9	18
37	Microfibrillated cellulose-SiO ₂ composite nanopapers produced by spray deposition. <i>Journal of Materials Science</i> , 2015 , 50, 4095-4103	4.3	17

36	Carboxymethylcellulose: A conductivity enhancer and film-forming agent for processable polypyrrole from aqueous medium. <i>Synthetic Metals</i> , 2011 , 161, 397-403	3.6	17
35	Use of Cellulose Nanofibers as an Electrode Binder for Lithium Ion Battery Screen Printing on a Paper Separator. <i>Nanomaterials</i> , 2018 , 8,	5.4	17
34	Fabrication of 3D conductive circuits: print quality evaluation of a direct ink writing process.. <i>RSC Advances</i> , 2018 , 8, 26036-26046	3.7	16
33	Use of paper-making techniques for the production of Li-ion paper-batteries. <i>Nordic Pulp and Paper Research Journal</i> , 2012 , 27, 472-475	1.1	16
32	Capillary Flow Resistors: Local and Global Resistors. <i>Langmuir</i> , 2016 , 32, 915-21	4	15
31	Use of lignocellulosic materials and 3D printing for the development of structured monolithic carbon materials. <i>Composites Part B: Engineering</i> , 2018 , 149, 206-215	10	15
30	Adsorption of poly(3-octylthiophene) nanoparticles on cellulose fibres: Effect of dispersion stability and fibre pre-treatment with carboxymethyl cellulose. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 349, 83-89	5.1	14
29	Low-cost embossed-paper micro-channels for spontaneous capillary flow. <i>Sensors and Actuators B: Chemical</i> , 2017 , 248, 395-401	8.5	13
28	Spontaneous capillary flows in piecewise varying cross section microchannels. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 868-877	8.5	13
27	Catalyst Layers for PEMFC Manufactured by Flexography Printing Process: Performances and Structure. <i>Fuel Cells</i> , 2012 , 12, 199-211	2.9	13
26	Characterization of Commercial Polyvinylbutyrals. <i>International Journal of Polymer Analysis and Characterization</i> , 2013 , 18, 346-357	1.7	13
25	Photoluminescence of 2,7-poly(9,9-dialkylfluorene-co-fluorenone) nanoparticles: effect of particle size and inert polymer addition. <i>Langmuir</i> , 2010 , 26, 14437-42	4	13
24	Laccase wiring on free-standing electrospun carbon nanofibres using a mediator plug. <i>Chemical Communications</i> , 2015 , 51, 14574-7	5.8	11
23	Use of microfibrillated cellulose and dendritic copper for the elaboration of conductive films from water- and ethanol-based dispersions. <i>Journal of Materials Science</i> , 2013 , 48, 6911-6920	4.3	11
22	Industrial pressure sensitive adhesives suitable for physicochemical microencapsulation. <i>International Journal of Adhesion and Adhesives</i> , 2011 , 31, 629-633	3.4	10
21	Rheological Behavior of Cellulose Fiber Suspensions: Application to Paper-Making Processing. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 3524-3533	3.9	9
20	Flexible photochromic Ag:TiO ₂ thin films fabricated by ink-jet and flexography printing processes. <i>RSC Advances</i> , 2015 , 5, 84560-84564	3.7	8
19	Encapsulation of a pressure sensitive adhesive by spray-cooling: Optimum formulation and processing conditions. <i>Advanced Powder Technology</i> , 2014 , 25, 292-300	4.6	8

18	Silicone Liner-Free Pressure-Sensitive Adhesive Labels. <i>Macromolecular Materials and Engineering</i> , 2008 , 293, 167-172	3.9	8
17	Spontaneous capillary flow in curved, open microchannels. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	8
16	Laccase-based biocathodes: Comparison of chitosan and Nafion. <i>Analytica Chimica Acta</i> , 2016 , 937, 43-52.6	5.6	7
15	Surface characterization of industrial flexible polyvinyl(chloride) films. <i>Applied Surface Science</i> , 2014 , 296, 147-153	6.7	7
14	Characterization of oil-proof papers containing new-type of fluorochemicals Part 1: Surface properties and printability. <i>Applied Surface Science</i> , 2013 , 277, 57-66	6.7	7
13	Emitter Requirements for Nickel Contacts on Silicon Solar Cells-A Simulation Study. <i>Energy Procedia</i> , 2013 , 38, 321-328	2.3	6
12	On the halt of spontaneous capillary flows in diverging open channels. <i>Medical Engineering and Physics</i> , 2017 , 48, 75-80	2.4	5
11	Viscoelastic capillary flow: the case of whole blood. <i>AIMS Biophysics</i> , 2016 , 3, 340-357	0.8	5
10	Study of the high throughput flexographic process for silicon solar cell metallisation. <i>Progress in Photovoltaics: Research and Applications</i> , 2016 , 24, 240-252	6.8	5
9	Evaluating the Effectiveness of Using Flexography Printing for Manufacturing Catalyst-Coated Membranes for Fuel Cells. <i>Fuel Cells</i> , 2014 , 14, 614-625	2.9	3
8	Silver ink experiments for silicon solar cell metallization by flexographic process 2012 ,		3
7	Photosensitive ink formulation and inkjet printing on flexible PET substrate 2019 , 16, 113-123		2
6	Influence of the Schottky barrier height on the silicon solar cells 2013 ,		2
5	Encapsulation of a pressure-sensitive adhesive by spray-drying: microparticles preparation and evaluation of their crushing strength. <i>Journal of Microencapsulation</i> , 2012 , 29, 185-93	3.4	2
4	Combining design of experiments and power loss computations to study the screen printing process 2013 ,		1
3	Calendering of Papers and Boards: Processes and Basic Mechanisms 2016 , 493-529		
2	Simulations Based on the Cooptimization Procedure for Plated Contacts With a NiSi Interface. <i>IEEE Journal of Photovoltaics</i> , 2015 , 5, 826-831	3.7	
1	Use of a 6-axis robot and ink piezo-jetting to print conductive paths on 3D objects. Printed circuit geometry, and conductivity predictive model. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021 , 35, 855-863	3.4	

