Didier Chaussy

List of Publications by Year in Descending Order

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	Use of a 6-axis robot and ink piezo-jetting to print conductive paths on 3D objects. Printed circuit geometry, and conductivity predictive model. *CIRP Journal of Manufacturing Science and Technology* , **2021**, 35, 855-863	3.4	
70	A fibrous cellulose paste formulation to manufacture structural parts using 3D printing by extrusion. *Carbohydrate Polymers*, **2019**, 212, 119-128	10.3	22
69	Photosensitive ink formulation and inkjet printing on flexible PET substrate **2019**, 16, 113-123		2
68	Biocarbons from microfibrillated cellulose/lignosulfonate precursors: A study of electrical conductivity development during slow pyrolysis. *Carbon*, **2018**, 129, 357-366	10.4	33
67	Fabrication of 3D conductive circuits: print quality evaluation of a direct ink writing process.. *RSC Advances*, **2018**, 8, 26036-26046	3.7	16
66	Use of lignocellulosic materials and 3D printing for the development of structured monolithic carbon materials. *Composites Part B: Engineering*, **2018**, 149, 206-215	10	15
65	Use of Cellulose Nanofibers as an Electrode Binder for Lithium Ion Battery Screen Printing on a Paper Separator. *Nanomaterials*, **2018**, 8,	5.4	17
64	Carbon nanotube-based flexible biocathode for enzymatic biofuel cells by spray coating. *Journal of Power Sources*, **2018**, 408, 1-6	8.9	18
63	Thermal characterization and kinetic analysis of microfibrillated cellulose/lignosulfonate blends. *Journal of Analytical and Applied Pyrolysis*, **2017**, 124, 25-34	6	18
62	On the halt of spontaneous capillary flows in diverging open channels. *Medical Engineering and Physics*, **2017**, 48, 75-80	2.4	5
61	Low-cost embossed-paper micro-channels for spontaneous capillary flow. *Sensors and Actuators B: Chemical*, **2017**, 248, 395-401	8.5	13
60	Screen-Printed Polyaniline-Based Electrodes for the Real-Time Monitoring of Loop-Mediated Isothermal Amplification Reactions. *Analytical Chemistry*, **2017**, 89, 10124-10128	7.8	20
59	Laccase-based biocathodes: Comparison of chitosan and Nafion. *Analytica Chimica Acta*, **2016**, 937, 43-52	6.6	7
58	Calendering of Papers and Boards: Processes and Basic Mechanisms **2016**, 493-529		
57	A simple route toward next-gen green energy storage concept by nanofibres-based self-supporting electrodes and a solid polymeric design. *Carbon*, **2016**, 107, 811-822	10.4	70
56	Capillary Flow Resistors: Local and Global Resistors. *Langmuir*, **2016**, 32, 915-21	4	15
55	Microfibrillated Cellulose Based Ink for Eco-Sustainable Screen Printed Flexible Electrodes in Lithium Ion Batteries. *Journal of Materials Science and Technology*, **2016**, 32, 566-572	9.1	25

54	Spontaneous capillary flows in piecewise varying cross section microchannels. *Sensors and Actuators B: Chemical*, **2016**, 223, 868-877	8.5	13
53	Viscoelastic capillary flow: the case of whole blood. *AIMS Biophysics*, **2016**, 3, 340-357	0.8	5
52	Study of the high throughput flexographic process for silicon solar cell metallisation. *Progress in Photovoltaics: Research and Applications*, **2016**, 24, 240-252	6.8	5
51	Spontaneous capillary flow in curved, open microchannels. *Microfluidics and Nanofluidics*, **2016**, 20, 1	2.8	8
50	Bioelectrodes modified with chitosan for long-term energy supply from the body. *Energy and Environmental Science*, **2015**, 8, 1017-1026	35.4	58
49	Aqueous processing of paper separators by filtration dewatering: towards Li-ion paper batteries. *Journal of Materials Chemistry A*, **2015**, 3, 14894-14901	13	31
48	Laccase wiring on free-standing electrospun carbon nanofibres using a mediator plug. *Chemical Communications*, **2015**, 51, 14574-7	5.8	11
47	Microfibrillated cellulose-SiO2 composite nanopapers produced by spray deposition. *Journal of Materials Science*, **2015**, 50, 4095-4103	4.3	17
46	Flexible photochromic Ag:TiO2 thin films fabricated by ink-jet and flexography printing processes. *RSC Advances*, **2015**, 5, 84560-84564	3.7	8
45	Use of Microfibrillated Cellulose/Lignosulfonate Blends as Carbon Precursors: Impact of Hydrogel Rheology on 3D Printing. *Industrial & Engineering Chemistry Research*, **2015**, 54, 10575-10582	3.9	46
44	Rapid nanopaper production by spray deposition of concentrated microfibrillated cellulose slurries. *Industrial Crops and Products*, **2015**, 72, 200-205	5.9	18
43	Simulations Based on the Cooptimization Procedure for Plated Contacts With a NiSi Interface. *IEEE Journal of Photovoltaics*, **2015**, 5, 826-831	3.7	
42	Surface characterization of industrial flexible polyvinyl(chloride) films. *Applied Surface Science*, **2014** , 296, 147-153	6.7	7
41	Pilot-scale elaboration of graphite/microfibrillated cellulose anodes for Li-ion batteries by spray deposition on a forming paper sheet. *Chemical Engineering Journal*, **2014**, 243, 372-379	14.7	24
40	Photochromic Ag:TiO2 thin films on PET substrate. *RSC Advances*, **2014**, 4, 61305-61312	3.7	18
39	Highly Porous Paper Loading with Microfibrillated Cellulose by Spray Coating on Wet Substrates. *Industrial & Engineering Chemistry Research*, **2014**, 53, 10982-10989	3.9	31
38	Chitosan improves stability of carbon nanotube biocathodes for glucose biofuel cells. *Chemical Communications*, **2014**, 50, 14535-8	5.8	33
37	Freestanding redox buckypaper electrodes from multi-wall carbon nanotubes for bioelectrocatalytic oxygen reduction via mediated electron transfer. *Chemical Science*, **2014**, 5, 2885-2888	8.4	43

36	Influence of silver paste rheology and screen parameters on the front side metallization of silicon solar cell. *Materials Science in Semiconductor Processing*, **2014**, 27, 790-799	4.3	31
35	Evaluating the Effectiveness of Using Flexography Printing for Manufacturing Catalyst-Coated Membranes for Fuel Cells. *Fuel Cells*, **2014**, 14, 614-625	2.9	3
34	Encapsulation of a pressure sensitive adhesive by spray-cooling: Optimum formulation and processing conditions. *Advanced Powder Technology*, **2014**, 25, 292-300	4.6	8
33	Cellulose-based Li-ion batteries: a review. *Cellulose*, **2013**, 20, 1523-1545	5.5	209
32	Use of microfibrillated cellulose and dendritic copper for the elaboration of conductive films from water- and ethanol-based dispersions. *Journal of Materials Science*, **2013**, 48, 6911-6920	4.3	11
31	Cellulose/graphite/carbon fibres composite electrodes for Li-ion batteries. *Composites Science and Technology*, **2013**, 87, 232-239	8.6	20
30	Influence of the Schottky barrier height on the silicon solar cells **2013**,		2
29	Emitter Requirements for Nickel Contacts on Silicon Solar Cells-A Simulation Study. *Energy Procedia* , **2013**, 38, 321-328	2.3	6
28	Characterization of oil-proof papers containing new-type of fluorochemicals Part 1: Surface properties and printability. *Applied Surface Science*, **2013**, 277, 57-66	6.7	7
27	Flexible cellulose/LiFePO4 paper-cathodes: toward eco-friendly all-paper Li-ion batteries. *Cellulose*, **2013**, 20, 571-582	5.5	63
26	Characterization of Commercial Polyvinylbutyrals. *International Journal of Polymer Analysis and Characterization*, **2013**, 18, 346-357	1.7	13
25	Combining design of experiments and power loss computations to study the screen printing process **2013**,		1
24	Encapsulation of a pressure-sensitive adhesive by spray-drying: microparticles preparation and evaluation of their crushing strength. *Journal of Microencapsulation*, **2012**, 29, 185-93	3.4	2
23	Aqueous processing of cellulose based paper-anodes for flexible Li-ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 3227		73
22	Silver ink experiments for silicon solar cell metallization by flexographic process **2012**,		3
21	Use of paper-making techniques for the production of Li-ion paper-batteries. *Nordic Pulp and Paper Research Journal*, **2012**, 27, 472-475	1.1	16
20	Catalyst Layers for PEMFC Manufactured by Flexography Printing Process: Performances and Structure. *Fuel Cells*, **2012**, 12, 199-211	2.9	13
19	Highly conductive graphite/carbon fiber/cellulose composite papers. *Composites Science and Technology*, **2012**, 72, 616-623	8.6	45

18	Rheological Behavior of Cellulose Fiber Suspensions: Application to Paper-Making Processing. *Industrial & Engineering Chemistry Research*, **2011**, 50, 3524-3533	3.9	9
17	Carboxymethylcellulose: A conductivity enhancer and film-forming agent for processable polypyrrole from aqueous medium. *Synthetic Metals*, **2011**, 161, 397-403	3.6	17
16	Industrial pressure sensitive adhesives suitable for physicochemical microencapsulation. *International Journal of Adhesion and Adhesives*, **2011**, 31, 629-633	3.4	10
15	Polypyrrole (PPy) chemical synthesis with xylan in aqueous medium and production of highly conducting PPy/nanofibrillated cellulose films and coatings. *Cellulose*, **2011**, 18, 1455-1467	5.5	21
14	Photoluminescent Patterned Papers Resulting from Printings of Polymeric Nanoparticles Suspension. *International Journal of Polymer Science*, **2010**, 2010, 1-8	2.4	55
13	Photoluminescence of 2,7-poly(9,9-dialkylfluorene-co-fluorenone) nanoparticles: effect of particle size and inert polymer addition. *Langmuir*, **2010**, 26, 14437-42	4	13
12	Microfibrillated cellulose graphite nanocomposites for highly flexible paper-like Li-ion battery electrodes. *Journal of Materials Chemistry*, **2010**, 20, 7344		107
11	Composites of rigid polyurethane foam and cellulose fiber residue. *Journal of Applied Polymer Science*, **2010**, 117, n/a-n/a	2.9	32
10	Highly Conducting Polypyrrole/Cellulose Nanocomposite Films with Enhanced Mechanical Properties. *Macromolecular Materials and Engineering*, **2010**, 295, 934-941	3.9	59
9	Preparation of highly hydrophobic and lipophobic cellulose fibers by a straightforward gas-solid reaction. *Journal of Colloid and Interface Science*, **2010**, 344, 588-95	9.3	56
8	Adsorption of cationic photoluminescent nanoparticles on softwood cellulose fibres: Effects of particles stabilization and fibres beating. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 334, 80-86	5.1	21
7	Adsorption of poly(3-octylthiophene) nanoparticles on cellulose fibres: Effect of dispersion stability and fibre pre-treatment with carboxymethyl cellulose. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 349, 83-89	5.1	14
6	Surfactant (TTAB) role in the preparation of 2,7-Poly(9,9-dialkylfluorene-co-fluorenone) nanoparticles by miniemulsion. *Langmuir*, **2009**, 25, 6745-52	4	18
5	Characterization of three non-product materials from a bleached eucalyptus kraft pulp mill, in view of valorising them as a source of cellulose fibres. *Industrial Crops and Products*, **2008**, 27, 288-295	5.9	54
4	Silicone Liner-Free Pressure-Sensitive Adhesive Labels. *Macromolecular Materials and Engineering*, **2008**, 293, 167-172	3.9	8
3	Surface functionalization of cellulose fibres and their incorporation in renewable polymeric matrices. *Composites Science and Technology*, **2008**, 68, 3193-3201	8.6	74
2	Photoluminescent Paper Based on Poly(fluorene-co-fluorenone) Particles Adsorption on Modified Cellulose Fibers. *Advanced Materials*, **2007**, 19, 3291-3294	24	28
1	Polymerization of pyrrole on cellulose fibres using a FeCl3 impregnation- pyrrole polymerization sequence. *Cellulose*, **2006**, 13, 725-734	5.5	69