

Didier Chaussy

List of Publications by Year in descending order

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73
papers

2,293
citations

218381

26
h-index

233125

45
g-index

75
all docs

75
docs citations

75
times ranked

3509
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellulose-based Li-ion batteries: a review. <i>Cellulose</i> , 2013, 20, 1523-1545.	2.4	262
2	Microfibrillated cellulose-graphite nanocomposites for highly flexible paper-like Li-ion battery electrodes. <i>Journal of Materials Chemistry</i> , 2010, 20, 7344.	6.7	119
3	Surface functionalization of cellulose fibres and their incorporation in renewable polymeric matrices. <i>Composites Science and Technology</i> , 2008, 68, 3193-3201.	3.8	95
4	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.	5.4	80
5	Polymerization of pyrrole on cellulose fibres using a FeCl ₃ impregnation- pyrrole polymerization sequence. <i>Cellulose</i> , 2006, 13, 725-734.	2.4	79
6	Aqueous processing of cellulose based paper-anodes for flexible Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 3227.	6.7	78
7	Bioelectrodes modified with chitosan for long-term energy supply from the body. <i>Energy and Environmental Science</i> , 2015, 8, 1017-1026.	15.6	68
8	Composites of rigid polyurethane foam and cellulose fiber residue. <i>Journal of Applied Polymer Science</i> , 2010, 117, 3665-3672.	1.3	67
9	Preparation of highly hydrophobic and lipophobic cellulose fibers by a straightforward gas-solid reaction. <i>Journal of Colloid and Interface Science</i> , 2010, 344, 588-595.	5.0	67
10	Flexible cellulose/LiFePO ₄ paper-cathodes: toward eco-friendly all-paper Li-ion batteries. <i>Cellulose</i> , 2013, 20, 571-582.	2.4	67
11	Highly Conducting Polypyrrole/Cellulose Nanocomposite Films with Enhanced Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 934-941.	1.7	65
12	Biocarbons from microfibrillated cellulose/lignosulfonate precursors: A study of electrical conductivity development during slow pyrolysis. <i>Carbon</i> , 2018, 129, 357-366.	5.4	63
13	Photoluminescent Patterned Papers Resulting from Printings of Polymeric Nanoparticles Suspension. <i>International Journal of Polymer Science</i> , 2010, 2010, 1-8.	1.2	60
14	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.	2.5	58
15	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.	1.8	54
16	Highly conductive graphite/carbon fiber/cellulose composite papers. <i>Composites Science and Technology</i> , 2012, 72, 616-623.	3.8	51
17	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.	3.7	47
18	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.	1.9	41

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19	Chitosan improves stability of carbon nanotube biocathodes for glucose biofuel cells. <i>Chemical Communications</i> , 2014, 50, 14535-14538.	2.2	40
20	Aqueous processing of paper separators by filtration dewatering: towards Li-ion paper batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14894-14901.	5.2	40
21	Highly Porous Paper Loading with Microfibrillated Cellulose by Spray Coating on Wet Substrates. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10982-10989.	1.8	39
22	A fibrous cellulose paste formulation to manufacture structural parts using 3D printing by extrusion. <i>Carbohydrate Polymers</i> , 2019, 212, 119-128.	5.1	35
23	Photoluminescent Paper Based on Poly(fluorene-co-fluorenone) Particles Adsorption on Modified Cellulose Fibers. <i>Advanced Materials</i> , 2007, 19, 3291-3294.	11.1	34
24	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.	5.6	32
25	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.	6.6	29
26	Carbon nanotube-based flexible biocathode for enzymatic biofuel cells by spray coating. <i>Journal of Power Sources</i> , 2018, 408, 1-6.	4.0	29
27	Screen-Printed Polyaniline-Based Electrodes for the Real-Time Monitoring of Loop-Mediated Isothermal Amplification Reactions. <i>Analytical Chemistry</i> , 2017, 89, 10124-10128.	3.2	26
28	Fabrication of 3D conductive circuits: print quality evaluation of a direct ink writing process. <i>RSC Advances</i> , 2018, 8, 26036-26046.	1.7	25
29	Cellulose/graphite/carbon fibres composite electrodes for Li-ion batteries. <i>Composites Science and Technology</i> , 2013, 87, 232-239.	3.8	24
30	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.	2.4	23
31	Rapid nanopaper production by spray deposition of concentrated microfibrillated cellulose slurries. <i>Industrial Crops and Products</i> , 2015, 72, 200-205.	2.5	23
32	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.	2.3	22
33	Thermal characterization and kinetic analysis of microfibrillated cellulose/lignosulfonate blends. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 124, 25-34.	2.6	22
34	Carboxymethylcellulose: A conductivity enhancer and film-forming agent for processable polypyrrole from aqueous medium. <i>Synthetic Metals</i> , 2011, 161, 397-403.	2.1	21
35	Use of Cellulose Nanofibers as an Electrode Binder for Lithium Ion Battery Screen Printing on a Paper Separator. <i>Nanomaterials</i> , 2018, 8, 982.	1.9	21
36	Capillary Flow Resistors: Local and Global Resistors. <i>Langmuir</i> , 2016, 32, 915-921.	1.6	20

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37	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.	5.9	20
38	Surfactant (TTAB) Role in the Preparation of 2,7-Poly(9,9-dialkylfluorene-co-fluorenone) Nanoparticles by Miniemulsion. <i>Langmuir</i> , 2009, 25, 6745-6752.	1.6	19
39	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.	0.3	19
40	Characterization of Commercial Polyvinylbutyrals. <i>International Journal of Polymer Analysis and Characterization</i> , 2013, 18, 346-357.	0.9	19
41	Photochromic Ag:TiO ₂ thin films on PET substrate. <i>RSC Advances</i> , 2014, 4, 61305-61312.	1.7	19
42	Low-cost embossed-paper micro-channels for spontaneous capillary flow. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 395-401.	4.0	18
43	Microfibrillated cellulose-SiO ₂ composite nanopapers produced by spray deposition. <i>Journal of Materials Science</i> , 2015, 50, 4095-4103.	1.7	17
44	Spontaneous capillary flows in piecewise varying cross section microchannels. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 868-877.	4.0	17
45	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.	2.3	16
46	Photoluminescence of 2,7-Poly(9,9-dialkylfluorene-co-fluorenone) Nanoparticles: Effect of Particle Size and Inert Polymer Addition. <i>Langmuir</i> , 2010, 26, 14437-14442.	1.6	14
47	Catalyst Layers for PEMFC Manufactured by Flexography Printing Process: Performances and Structure. <i>Fuel Cells</i> , 2012, 12, 199-211.	1.5	14
48	Rheological Behavior of Cellulose Fiber Suspensions: Application to Paper-Making Processing. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 3524-3533.	1.8	13
49	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.	1.7	13
50	Laccase wiring on free-standing electrospun carbon nanofibres using a mediator plug. <i>Chemical Communications</i> , 2015, 51, 14574-14577.	2.2	13
51	Spontaneous capillary flow in curved, open microchannels. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	1.0	13
52	Industrial pressure sensitive adhesives suitable for physicochemical microencapsulation. <i>International Journal of Adhesion and Adhesives</i> , 2011, 31, 629-633.	1.4	11
53	Encapsulation of a pressure sensitive adhesive by spray-cooling: Optimum formulation and processing conditions. <i>Advanced Powder Technology</i> , 2014, 25, 292-300.	2.0	11
54	Laccase-based biocathodes: Comparison of chitosan and Nafion. <i>Analytica Chimica Acta</i> , 2016, 937, 43-52.	2.6	11

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55	Silicone Liner-Free Pressure-Sensitive Adhesive Labels. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 167-172.	1.7	10
56	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.	3.1	10
57	Flexible photochromic Ag:TiO ₂ thin films fabricated by ink-jet and flexography printing processes. <i>RSC Advances</i> , 2015, 5, 84560-84564.	1.7	9
58	Study of the high throughput flexographic process for silicon solar cell metallisation. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 240-252.	4.4	9
59	Surface characterization of industrial flexible polyvinyl(chloride) films. <i>Applied Surface Science</i> , 2014, 296, 147-153.	3.1	8
60	On the halt of spontaneous capillary flows in diverging open channels. <i>Medical Engineering and Physics</i> , 2017, 48, 75-80.	0.8	8
61	Silver ink experiments for silicon solar cell metallization by flexographic process. , 2012, , .		7
62	Emitter Requirements for Nickel Contacts on Silicon Solar Cells-A Simulation Study. <i>Energy Procedia</i> , 2013, 38, 321-328.	1.8	6
63	Viscoelastic capillary flow: the case of whole blood. <i>AIMS Biophysics</i> , 2016, 3, 340-357.	0.3	6
64	Evaluating the Effectiveness of Using Flexography Printing for Manufacturing Catalyst-Coated Membranes for Fuel Cells. <i>Fuel Cells</i> , 2014, 14, 614-625.	1.5	4
65	Encapsulation of a pressure-sensitive adhesive by spray-drying: microparticles preparation and evaluation of their crushing strength. <i>Journal of Microencapsulation</i> , 2012, 29, 185-193.	1.2	3
66	Influence of the Schottky barrier height on the silicon solar cells. , 2013, , .		2
67	Combining design of experiments and power loss computations to study the screen printing process. , 2013, , .		2
68	Photosensitive ink formulation and inkjet printing on flexible PET substrate. <i>Journal of Coatings Technology Research</i> , 2019, 16, 113-123.	1.2	2
69	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.	2.3	1
70	VALORISATION OF BY PRODUCTS FROM BLEACHED EUCALYPTUS KRAFT PULP MILL. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
71	SILICONE LINER-FREE PRESSURE SENSITIVE ADHESIVE LABELS. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
72	Simulations Based on the Cooptimization Procedure for Plated Contacts With a NiSi Interface. <i>IEEE Journal of Photovoltaics</i> , 2015, 5, 826-831.	1.5	0

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73	Print Marble Assessment on Plasticized Polyvinyl(chloride) Films. Journal of Imaging Science and Technology, 2012, 56, 1-7.	0.3	0