

Karen De Clerck

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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.

79 papers	2,291 citations	30 h-index	45 g-index
82 ext. papers	2,731 ext. citations	7.3 avg, IF	5.21 L-index

#	Paper	IF	Citations
79	An alternative solvent system for the steady state electrospinning of polycaprolactone. <i>European Polymer Journal</i> , 2011 , 47, 1256-1263	5.2	182
78	Performance assessment of electrospun nanofibers for filter applications. <i>Desalination</i> , 2009 , 249, 942-948	9.3	112
77	Nanofibre bridging as a toughening mechanism in carbon/epoxy composite laminates interleaved with electrospun polyamide nanofibrous veils. <i>Composites Science and Technology</i> , 2015 , 117, 244-256	8.6	103
76	Polycaprolactone/chitosan blend nanofibres electrospun from an acetic acid/formic acid solvent system. <i>Carbohydrate Polymers</i> , 2012 , 88, 1221-1226	10.3	91
75	Interlaminar toughening of resin transfer moulded glass fibre epoxy laminates by polycaprolactone electrospun nanofibres. <i>Composites Science and Technology</i> , 2014 , 104, 66-73	8.6	85
74	Damage-Resistant Composites Using Electrospun Nanofibers: A Multiscale Analysis of the Toughening Mechanisms. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11806-18	9.5	83
73	Polycaprolactone and polycaprolactone/chitosan nanofibres functionalised with the pH-sensitive dye Nitrazine Yellow. <i>Carbohydrate Polymers</i> , 2013 , 91, 284-93	10.3	82
72	Novel cellulose and polyamide halochromic textile sensors based on the encapsulation of Methyl Red into a sol-gel matrix. <i>Sensors and Actuators B: Chemical</i> , 2012 , 162, 27-34	8.5	67
71	Effect of electrospun polyamide 6 nanofibres on the mechanical properties of a glass fibre/epoxy composite. <i>Polymer Testing</i> , 2013 , 32, 1495-1501	4.5	63
70	The development of polyamide 6.6 nanofibres with a pH-sensitive function by electrospinning. <i>European Polymer Journal</i> , 2010 , 46, 2229-2239	5.2	62
69	Substituent effects on absorption spectra of pH indicators: An experimental and computational study of sulfonphthaleine dyes. <i>Dyes and Pigments</i> , 2014 , 102, 241-250	4.6	61
68	Using aligned nanofibres for identifying the toughening micromechanisms in nanofibre interleaved laminates. <i>Composites Science and Technology</i> , 2016 , 124, 17-26	8.6	60
67	Coloration and application of pH-sensitive dyes on textile materials. <i>Coloration Technology</i> , 2012 , 128, 82-90	2	60
66	Colorimetric Nanofibers as Optical Sensors. <i>Advanced Functional Materials</i> , 2017 , 27, 1702646	15.6	53
65	Dye Modification of Nanofibrous Silicon Oxide Membranes for Colorimetric HCl and NH ₃ Sensing. <i>Advanced Functional Materials</i> , 2016 , 26, 5987-5996	15.6	49
64	Blend electrospinning of dye-functionalized chitosan and poly(E-caprolactone): towards biocompatible pH-sensors. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4507-4516	7.3	47
63	The influence of a polyamide matrix on the halochromic behaviour of the pH-sensitive azo dye Nitrazine Yellow. <i>Dyes and Pigments</i> , 2012 , 94, 443-451	4.6	44

62	Dye immobilization in halochromic nanofibers through blend electrospinning of a dye-containing copolymer and polyamide-6. <i>Polymer Chemistry</i> , 2015 , 6, 2685-2694	4.9	37
61	Interlaminar toughening of resin transfer molded laminates by electrospun polycaprolactone structures: Effect of the interleave morphology. <i>Composites Science and Technology</i> , 2016 , 136, 10-17	8.6	37
60	Novel composite materials with tunable delamination resistance using functionalizable electrospun SBS fibers. <i>Composite Structures</i> , 2017 , 159, 12-20	5.3	36
59	Investigating the halochromic properties of azo dyes in an aqueous environment by using a combined experimental and theoretical approach. <i>Chemistry - A European Journal</i> , 2012 , 18, 8120-9	4.8	35
58	Gelatin nanofibers: Analysis of triple helix dissociation temperature and cold-water-solubility. <i>Food Hydrocolloids</i> , 2016 , 57, 200-208	10.6	34
57	The potential of anthocyanins from blueberries as a natural dye for cotton: A combined experimental and theoretical study. <i>Dyes and Pigments</i> , 2020 , 176, 108180	4.6	34
56	Improved fatigue delamination behaviour of composite laminates with electrospun thermoplastic nanofibrous interleaves using the Central Cut-Ply method. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 94, 10-20	8.4	32
55	Wicking properties of various polyamide nanofibrous structures with an optimized method. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 305-310	2.9	32
54	Electrosprayed Chitin Nanofibril/Electrospun Polyhydroxyalkanoate Fiber Mesh as Functional Nonwoven for Skin Application. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	32
53	Computational prediction of the molecular configuration of three-dimensional network polymers. <i>Nature Materials</i> , 2021 , 20, 1422-1430	27	32
52	Multireactive Poly(2-oxazoline) Nanofibers through Electrospinning with Crosslinking on the Fly. <i>ACS Macro Letters</i> , 2016 , 5, 676-681	6.6	32
51	Use of Triazolinedione Click Chemistry for Tuning the Mechanical Properties of Electrospun SBS-Fibers. <i>Macromolecules</i> , 2015 , 48, 6474-6481	5.5	31
50	TiO ₂ functionalized nanofibrous membranes for removal of organic (micro)pollutants from water. <i>Separation and Purification Technology</i> , 2017 , 179, 533-541	8.3	30
49	Halochromic properties of sulfonphthaleine dyes in a textile environment: The influence of substituents. <i>Dyes and Pigments</i> , 2016 , 124, 249-257	4.6	27
48	Interdiffusing core-shell nanofiber interleaved composites for excellent Mode I and Mode II delamination resistance. <i>Composites Science and Technology</i> , 2019 , 175, 143-150	8.6	25
47	The influence of tetraethoxysilane sol preparation on the electrospinning of silica nanofibers. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 77, 453-462	2.3	25
46	Effect of crosslinking stage on photocrosslinking of benzophenone functionalized poly(2-ethyl-2-oxazoline) nanofibers obtained by aqueous electrospinning. <i>European Polymer Journal</i> , 2019 , 112, 24-30	5.2	25
45	Improving Mechanical Properties for Extrusion-Based Additive Manufacturing of Poly(Lactic Acid) by Annealing and Blending with Poly(3-Hydroxybutyrate). <i>Polymers</i> , 2019 , 11,	4.5	23

44	Polyamide 6.9 nanofibres electrospun under steady state conditions from a solvent/non-solvent solution. <i>Journal of Materials Science</i> , 2012 , 47, 4118-4126	4.3	22
43	Waterborne Electrospinning of Poly(N-isopropylacrylamide) by Control of Environmental Parameters. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24100-24110	9.5	22
42	Pullulan for Advanced Sustainable Body- and Skin-Contact Applications. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	21
41	Optimum sol viscosity for stable electrospinning of silica nanofibres. <i>Journal of Sol-Gel Science and Technology</i> , 2013 , 67, 188-195	2.3	21
40	Nanostructured Hydrogels by Blend Electrospinning of Polycaprolactone/Gelatin Nanofibers. <i>Nanomaterials</i> , 2018 , 8,	5.4	20
39	Moisture sorption in developing cotton fibers. <i>Cellulose</i> , 2012 , 19, 1517-1526	5.5	20
38	Silica Nanofibrous Membranes for the Separation of Heterogeneous Azeotropes. <i>Advanced Functional Materials</i> , 2018 , 28, 1804138	15.6	20
37	Combustion characteristics of cellulosic loose fibres. <i>Fire and Materials</i> , 2013 , 37, 482-490	1.8	18
36	Acidity Constant (pK) Calculation of Large Solvated Dye Molecules: Evaluation of Two Advanced Molecular Dynamics Methods. <i>ChemPhysChem</i> , 2016 , 17, 3447-3459	3.2	17
35	In Situ Cross-Linked Nanofibers by Aqueous Electrospinning of Selenol-Functionalized Poly(2-oxazoline)s. <i>Macromolecules</i> , 2018 , 51, 6149-6156	5.5	17
34	Aqueous electrospinning of poly(2-ethyl-2-oxazoline): Mapping the parameter space. <i>European Polymer Journal</i> , 2017 , 88, 724-732	5.2	17
33	Nanofibers with a tunable wettability by electrospinning and physical crosslinking of poly(2-n-propyl-2-oxazoline). <i>Materials and Design</i> , 2020 , 192, 108747	8.1	15
32	Effect of nanofibres on the curing characteristics of an epoxy matrix. <i>Composites Science and Technology</i> , 2013 , 79, 35-41	8.6	15
31	Bisphenol A based polyester binder as an effective interlaminar toughener. <i>Composites Part B: Engineering</i> , 2015 , 80, 145-153	10	13
30	Fast-scanning calorimetry of electrospun polyamide nanofibres: Melting behaviour and crystal structure. <i>Polymer</i> , 2013 , 54, 6809-6817	3.9	13
29	The effect of water immersion on the thermal degradation of cotton fibers. <i>Cellulose</i> , 2013 , 20, 1603-1612	3.5	13
28	Effect of the relative humidity on the fibre morphology of polyamide 4.6 and polyamide 6.9 nanofibres. <i>Journal of Materials Science</i> , 2013 , 48, 1746-1754	4.3	13
27	Plasma dye coating as straightforward and widely applicable procedure for dye immobilization on polymeric materials. <i>Nature Communications</i> , 2018 , 9, 1123	17.4	11

26	Composite Materials: Excellent Nanofiber Adhesion for Hybrid Polymer Materials with High Toughness Based on Matrix Interdiffusion During Chemical Conversion (Adv. Funct. Mater. 8/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970051	15.6	11
25	Excellent Nanofiber Adhesion for Hybrid Polymer Materials with High Toughness Based on Matrix Interdiffusion During Chemical Conversion. <i>Advanced Functional Materials</i> , 2018 , 29, 1807434	15.6	10
24	Degradation kinetics of isoproturon and its subsequent products in contact with TiO ₂ functionalized silica nanofibers. <i>Chemical Engineering Journal</i> , 2020 , 387, 124143	14.7	9
23	Nanofibre-Based Sensors for Visual and Optical Monitoring. <i>Nanoscience and Technology</i> , 2015 , 157-177	10.6	9
22	Dynamic moisture sorption behavior of cotton fibers with natural brown pigments. <i>Cellulose</i> , 2014 , 21, 1149	5.5	8
21	One-shot production of large-scale 3D woven fabrics with integrated prismatic shaped cavities and their applications. <i>Materials and Design</i> , 2019 , 165, 107578	8.1	7
20	Toughening mechanisms responsible for excellent crack resistance in thermoplastic nanofiber reinforced epoxies through in-situ optical and scanning electron microscopy. <i>Composites Science and Technology</i> , 2021 , 201, 108504	8.6	7
19	Non-food applications of natural dyes extracted from agro-food residues: A critical review. <i>Journal of Cleaner Production</i> , 2021 , 301, 126920	10.3	6
18	Crosslinking of electrospun and bioextruded partially hydrolyzed poly(2-ethyl-2-oxazoline) using glutaraldehyde vapour. <i>European Polymer Journal</i> , 2019 , 120, 109218	5.2	6
17	A Comparative Study on the Photophysical Properties of Anthocyanins and Pyranoanthocyanins. <i>Chemistry - A European Journal</i> , 2021 , 27, 5956-5971	4.8	5
16	Effect of interleaved polymer nanofibers on the properties of glass and carbon fiber composites 2020 , 235-260		4
15	The Transferability and Design of Commercial Printer Settings in PLA/PBAT Fused Filament Fabrication. <i>Polymers</i> , 2020 , 12,	4.5	4
14	Silver Nanoparticle-Coated Polyhydroxyalkanoate Based Electrospun Fibers for Wound Dressing Applications. <i>Materials</i> , 2021 , 14,	3.5	4
13	In-Situ Observations of Microscale Ductility in a Quasi-Brittle Bulk Scale Epoxy. <i>Polymers</i> , 2020 , 12,	4.5	3
12	Nanofibre toughening of dissimilar interfaces in composites. <i>Materials and Design</i> , 2020 , 195, 109050	8.1	3
11	Förster resonance energy transfer in fluorophore labeled poly(2-ethyl-2-oxazoline)s. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 14125-14137	7.1	3
10	Immunomodulatory Activity of Electrospun Polyhydroxyalkanoate Fiber Scaffolds Incorporating Olive Leaf Extract. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4006	2.6	3
9	Colorimetric Sensors: Dye Modification of Nanofibrous Silicon Oxide Membranes for Colorimetric HCl and NH ₃ Sensing (Adv. Funct. Mater. 33/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 6136-6136	15.6	3

8	Fully Integrated Flexible Dielectric Monitoring Sensor System for Real-Time In Situ Prediction of the Degree of Cure and Glass Transition Temperature of an Epoxy Resin. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-9	5.2	3
7	The sensitivity and impact of dye structure and fibre microneedle on the increased dyeability of bioengineered cotton fibres. <i>Coloration Technology</i> , 2013 , 129, 239-245	2	2
6	Development of Bionanocomposites Based on Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate)/Poly(Lactide) Blends Reinforced with Cloisite 30B. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	2
5	Immiscibility of Chemically Alike Amorphous Polymers: Phase Separation of Poly(2-ethyl-2-oxazoline) and Poly(2-n-propyl-2-oxazoline). <i>Macromolecules</i> , 2020 , 53, 7590-7600	5.5	2
4	A comparative theoretical study on the solvent dependency of anthocyanin extraction profiles. <i>Journal of Molecular Liquids</i> , 2022 , 351, 118606	6	1
3	Electrospinning of poly(decamethylene terephthalate) to support vascular graft applications. <i>European Polymer Journal</i> , 2022 , 165, 111003	5.2	1
2	Eco-Friendly Colorimetric Nanofiber Design: Halochromic Sensors with Tunable pH-Sensing Regime Based on 2-Ethyl-2-Oxazoline and 2-n-Butyl-2-Oxazoline Statistical Copolymers Functionalized with Alizarin Yellow R. <i>Advanced Functional Materials</i> , 2106859	15.6	0
1	Eco-Friendly Colorimetric Nanofiber Design: Halochromic Sensors with Tunable pH-Sensing Regime Based on 2-Ethyl-2-Oxazoline and 2-n-Butyl-2-Oxazoline Statistical Copolymers Functionalized with Alizarin Yellow R (Adv. Funct. Mater. 1/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270007	15.6	