

Karen De Clerck

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5100677/karen-de-clerck-publications-by-year.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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	
78	A comparative theoretical study on the solvent dependency of anthocyanin extraction profiles. <i>Journal of Molecular Liquids</i> , 2022 , 351, 118606	6	1
77	Electrospinning of poly(decamethylene terephthalate) to support vascular graft applications. <i>European Polymer Journal</i> , 2022 , 165, 111003	5.2	1
76	A Comparative Study on the Photophysical Properties of Anthocyanins and Pyranoanthocyanins. <i>Chemistry - A European Journal</i> , 2021 , 27, 5956-5971	4.8	5
75	Immunomodulatory Activity of Electrospun Polyhydroxyalkanoate Fiber Scaffolds Incorporating Olive Leaf Extract. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4006	2.6	3
74	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
73	Computational prediction of the molecular configuration of three-dimensional network polymers. <i>Nature Materials</i> , 2021 , 20, 1422-1430	27	32
72	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
71	Silver Nanoparticle-Coated Polyhydroxyalkanoate Based Electrospun Fibers for Wound Dressing Applications. <i>Materials</i> , 2021 , 14,	3.5	4
70	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
69	In-Situ Observations of Microscale Ductility in a Quasi-Brittle Bulk Scale Epoxy. <i>Polymers</i> , 2020 , 12,	4.5	3
68	Pullulan for Advanced Sustainable Body- and Skin-Contact Applications. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	21
67	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
66	Effect of interleaved polymer nanofibers on the properties of glass and carbon fiber composites 2020 , 235-260		4
65	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
64	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
63	Development of Bionanocomposites Based on Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate)/Polylactide Blends Reinforced with Cloisite 30B. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	2

62	The Transferability and Design of Commercial Printer Settings in PLA/PBAT Fused Filament Fabrication. <i>Polymers</i> , 2020 , 12,	4.5	4
61	Nanofibre toughening of dissimilar interfaces in composites. <i>Materials and Design</i> , 2020 , 195, 109050	8.1	3
60	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
59	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
58	Electrosprayed Chitin Nanofibril/Electrospun Polyhydroxyalkanoate Fiber Mesh as Functional Nonwoven for Skin Application. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	32
57	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
56	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
55	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
54	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
53	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
52	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
51	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
50	Nanostructured Hydrogels by Blend Electrospinning of Polycaprolactone/Gelatin Nanofibers. <i>Nanomaterials</i> , 2018 , 8,	5.4	20
49	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
48	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
47	Silica Nanofibrous Membranes for the Separation of Heterogeneous Azeotropes. <i>Advanced Functional Materials</i> , 2018 , 28, 1804138	15.6	20
46	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
45	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

44	Colorimetric Nanofibers as Optical Sensors. <i>Advanced Functional Materials</i> , 2017 , 27, 1702646	15.6	53
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	Aqueous electrospinning of poly(2-ethyl-2-oxazoline): Mapping the parameter space. <i>European Polymer Journal</i> , 2017 , 88, 724-732	5.2	17
41	Novel composite materials with tunable delamination resistance using functionalizable electrospun SBS fibers. <i>Composite Structures</i> , 2017 , 159, 12-20	5.3	36
40	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
39	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
38	Blend electrospinning of dye-functionalized chitosan and poly(ϵ -caprolactone): towards biocompatible pH-sensors. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4507-4516	7.3	47
37	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
36	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
35	Gelatin nanofibers: Analysis of triple helix dissociation temperature and cold-water-solubility. <i>Food Hydrocolloids</i> , 2016 , 57, 200-208	10.6	34
34	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
33	Multireactive Poly(2-oxazoline) Nanofibers through Electrospinning with Crosslinking on the Fly. <i>ACS Macro Letters</i> , 2016 , 5, 676-681	6.6	32
32	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
31	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
30	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
29	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
28	Bisphenol A based polyester binder as an effective interlaminar toughener. <i>Composites Part B: Engineering</i> , 2015 , 80, 145-153	10	13
27	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

26	Use of Triazolinedione Click Chemistry for Tuning the Mechanical Properties of Electrospun SBS-Fibers. <i>Macromolecules</i> , 2015 , 48, 6474-6481	5.5	31
25	Nanofibre-Based Sensors for Visual and Optical Monitoring. <i>Nanoscience and Technology</i> , 2015 , 157-177	6.6	9
24	Dynamic moisture sorption behavior of cotton fibers with natural brown pigments. <i>Cellulose</i> , 2014 , 21, 1149	5.5	8
23	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
22	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
21	Combustion characteristics of cellulosic loose fibres. <i>Fire and Materials</i> , 2013 , 37, 482-490	1.8	18
20	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
19	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
18	Fast-scanning calorimetry of electrospun polyamide nanofibres: Melting behaviour and crystal structure. <i>Polymer</i> , 2013 , 54, 6809-6817	3.9	13
17	The effect of water immersion on the thermal degradation of cotton fibers. <i>Cellulose</i> , 2013 , 20, 1603-1615	5.5	13
16	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
15	Polycaprolactone and polycaprolactone/chitosan nanofibres functionalised with the pH-sensitive dye Nitrazine Yellow. <i>Carbohydrate Polymers</i> , 2013 , 91, 284-93	10.3	82
14	Effect of nanofibres on the curing characteristics of an epoxy matrix. <i>Composites Science and Technology</i> , 2013 , 79, 35-41	8.6	15
13	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
12	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
11	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
10	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
9	Moisture sorption in developing cotton fibers. <i>Cellulose</i> , 2012 , 19, 1517-1526	5.5	20

8	Coloration and application of pH-sensitive dyes on textile materials. <i>Coloration Technology</i> , 2012 , 128, 82-90	2	60
7	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
6	Polycaprolactone/chitosan blend nanofibres electrospun from an acetic acid/formic acid solvent system. <i>Carbohydrate Polymers</i> , 2012 , 88, 1221-1226	10.3	91
5	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
4	An alternative solvent system for the steady state electrospinning of polycaprolactone. <i>European Polymer Journal</i> , 2011 , 47, 1256-1263	5.2	182
3	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
2	Performance assessment of electrospun nanofibers for filter applications. <i>Desalination</i> , 2009 , 249, 942-948	14.3	112
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. <i>Advanced Functional Materials</i> , 2010 , 20, 2106-2115	15.6	0