

# Jean François Feller

## List of Publications by Year in descending order

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104  
papers

3,965  
citations

76196

40  
h-index

128067

60  
g-index

105  
all docs

105  
docs citations

105  
times ranked

4376  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanotubes/poly( $\mu$ -caprolactone) composite vapour sensors. <i>Carbon</i> , 2009, 47, 1930-1942.	5.4	157
2	Poly(lactic acid)-multi-wall carbon nanotube conductive biopolymer nanocomposite vapour sensors. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 621-628.	4.0	127
3	Conductive Polymer nano-bioComposites (CPC): Chitosan-carbon nanoparticle a good candidate to design polar vapour sensors. <i>Sensors and Actuators B: Chemical</i> , 2009, 138, 138-147.	4.0	115
4	Graphene quantum resistive sensing skin for the detection of alteration biomarkers. <i>Journal of Materials Chemistry</i> , 2012, 22, 21754.	6.7	115
5	An e-nose made of carbon nanotube based quantum resistive sensors for the detection of eighteen polar/nonpolar VOC biomarkers of lung cancer. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4563.	2.9	115
6	Development of poly(isobutylene-co-isoprene)/reduced graphene oxide nanocomposites for barrier, dielectric and sensing applications. <i>Materials Letters</i> , 2013, 96, 109-112.	1.3	110
7	Novel e-nose for the discrimination of volatile organic biomarkers with an array of carbon nanotubes (CNT) conductive polymer nanocomposites (CPC) sensors. <i>Sensors and Actuators B: Chemical</i> , 2011, 159, 213-219.	4.0	103
8	Conductive bio-Polymer nano-Composites (CPC): Chitosan-carbon nanotube transducers assembled via spray layer-by-layer for volatile organic compound sensing. <i>Talanta</i> , 2010, 81, 908-915.	2.9	101
9	Graphene Oxide-Assisted Liquid Phase Exfoliation of Graphite into Graphene for Highly Conductive Film and Electromechanical Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 16521-16532.	4.0	98
10	Graphene and metal organic frameworks (MOFs) hybridization for tunable chemoresistive sensors for detection of volatile organic compounds (VOCs) biomarkers. <i>Carbon</i> , 2020, 159, 333-344.	5.4	97
11	Conductive polymer composites: comparative study of poly(ester)-short carbon fibres and poly(epoxy)-short carbon fibres mechanical and electrical properties. <i>Materials Letters</i> , 2002, 57, 64-71.	1.3	89
12	Thermoelectric behaviour of melt processed carbon nanotube/graphite/poly(lactic acid) conductive biopolymer nanocomposites (CPC). <i>Materials Letters</i> , 2012, 67, 210-214.	1.3	88
13	Poly(lactic acid)/carbon nanotube nanocomposites with integrated degradation sensing. <i>Polymer</i> , 2013, 54, 6818-6823.	1.8	88
14	Influence of clay nanofiller on electrical and rheological properties of conductive polymer composite. <i>Materials Letters</i> , 2004, 58, 739-745.	1.3	87
15	Enhancing the sensitivity of graphene/polyurethane nanocomposite flexible piezo-resistive pressure sensors with magnetite nano-spacers. <i>Carbon</i> , 2016, 108, 450-460.	5.4	87
16	Evolution of electrical properties of some conductive polymer composite textiles with organic solvent vapours diffusion. <i>Sensors and Actuators B: Chemical</i> , 2004, 97, 231-242.	4.0	84
17	Vapour sensing with conductive polymer nanocomposites (CPC): Polycarbonate-carbon nanotubes transducers with hierarchical structure processed by spray layer by layer. <i>Sensors and Actuators B: Chemical</i> , 2009, 140, 451-460.	4.0	82
18	Thermal conductivity enhancement of electrically insulating syndiotactic poly(styrene) matrix for diphasic conductive polymer composites. <i>Polymers for Advanced Technologies</i> , 2006, 17, 732-745.	1.6	76

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19	Non-intrusive health monitoring of infused composites with embedded carbon quantum piezo-resistive sensors. <i>Composites Science and Technology</i> , 2016, 123, 286-294.	3.8	71
20	Electromagnetic properties of Fe <sub>3</sub> O <sub>4</sub> -functionalized graphene and its composites with a conducting polymer. <i>Journal of Polymer Science Part A</i> , 2012, 50, 927-935.	2.5	70
21	Novel architecture of carbon nanotube decorated poly(methyl methacrylate) microbead vapour sensors assembled by spray layer by layer. <i>Journal of Materials Chemistry</i> , 2011, 21, 4142.	6.7	67
22	Sensing Skin for Strain Monitoring Made of PCNT Conductive Polymer Nanocomposite Sprayed Layer by Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 3508-3516.	4.0	65
23	Engineering of graphene/epoxy nanocomposites with improved distribution of graphene nanosheets for advanced piezo-resistive mechanical sensing. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3422-3430.	2.7	62
24	Measuring water diffusion in polymer films on the substrate by internal reflection fourier transform infrared spectroscopy. <i>Journal of Applied Polymer Science</i> , 1997, 66, 2465-2473.	1.3	61
25	Graphene-Fe <sub>3</sub> O <sub>4</sub> /PEDOT for the design of sensitive and stable quantum chemo-resistive VOC sensors. <i>Carbon</i> , 2014, 74, 104-112.	5.4	59
26	Conductive polymer composites (CPCs): comparison of electrical properties of poly(ethylene-co-ethyl) black. <i>Polymers for Advanced Technologies</i> , 2002, 13, 714-724.	1.6	58
27	Tribological response of an epoxy matrix filled with graphite and/or carbon nanotubes. <i>Friction</i> , 2017, 5, 171-182.	3.4	57
28	Hybrid Films of Graphene and Carbon Nanotubes for High Performance Chemical and Temperature Sensing Applications. <i>Small</i> , 2015, 11, 3485-3493.	5.2	54
29	Tailoring selectivity of sprayed carbon nanotube sensors (CNT) towards volatile organic compounds (VOC) with surfactants. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 840-849.	4.0	52
30	Controlled conductive junction gap for chitosan-carbon nanotube quantum resistive vapour sensors. <i>Journal of Materials Chemistry</i> , 2012, 22, 10656.	6.7	50
31	High stability silver nanoparticles-graphene/poly(ionic liquid)-based chemoresistive sensors for volatile organic compounds detection. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3995-4004.	1.9	50
32	Electrical response of Poly(styrene)/carbon black conductive polymer composites (CPC) to methanol, toluene, chloroform and styrene vapors as a function of filler nature and matrix tacticity. <i>Synthetic Metals</i> , 2005, 154, 193-196.	2.1	49
33	Ultrasensitive QRS made by supramolecular assembly of functionalized cyclodextrins and graphene for the detection of lung cancer VOC biomarkers. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6571-6579.	2.9	48
34	Fine control of carbon nanotubes-polyelectrolyte sensors sensitivity by electrostatic layer by layer assembly (eLBL) for the detection of volatile organic compounds (VOC). <i>Talanta</i> , 2012, 88, 396-402.	2.9	47
35	Influence of processing conditions on sensitivity of conductive polymer composites to organic solvent vapours. <i>Synthetic Metals</i> , 2004, 144, 81-88.	2.1	46
36	Conductive polymer composites with double percolated architecture of carbon nanoparticles and ceramic microparticles for high heat dissipation and sharp PTC switching. <i>Smart Materials and Structures</i> , 2008, 17, 025011.	1.8	46

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37	Polyaniline nanoparticle-carbon nanotube hybrid network vapour sensors with switchable chemo-electrical polarity. <i>Nanotechnology</i> , 2010, 21, 255501.	1.3	46
38	Conductive polymer composites obtained from recycled poly(carbonate) and rubber blends for heating and sensing applications. <i>Polymers for Advanced Technologies</i> , 2006, 17, 727-731.	1.6	45
39	Conductive polymer composites: Influence of extrusion conditions on positive temperature coefficient effect of poly(butylene terephthalate)/poly(olefin)-carbon black blends. <i>Journal of Applied Polymer Science</i> , 2004, 91, 2151-2157.	1.3	44
40	Spray layer-by-layer assembly of POSS functionalized CNT quantum chemo-resistive sensors with tuneable selectivity and ppm resolution to VOC biomarkers. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 362-373.	4.0	42
41	Green carbon nanostructured quantum resistive sensors to detect volatile biomarkers. <i>Sustainable Materials and Technologies</i> , 2018, 16, 1-11.	1.7	40
42	Tailoring the chemo-resistive response of self-assembled polysaccharide-CNT sensors by chain conformation at tunnel junctions. <i>Carbon</i> , 2012, 50, 3627-3634.	5.4	38
43	Flax fibers epoxy with embedded nanocomposite sensors to design lightweight smart bio-composites. <i>Nanocomposites</i> , 2016, 2, 125-134.	2.2	37
44	Rectangular-Shaped Polyaniline Tubes Covered with Nanorods and their Electrorheology. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 2300-2307.	1.1	36
45	Chemo-sensitivity of latex-based films containing segregated networks of carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2011, 155, 28-36.	4.0	36
46	Characterization of electrical and thermal properties of extruded tapes of thermoplastic conductive polymer composites (CPC). <i>Polymer Testing</i> , 2003, 22, 831-837.	2.3	33
47	Coupling ability of silane grafted poly(propene) at glass fibers/poly(propene) interface. <i>Composites Part A: Applied Science and Manufacturing</i> , 2004, 35, 1-10.	3.8	33
48	Hybrid film of chemically modified graphene and vapor-phase-polymerized PEDOT for electronic nose applications. <i>Organic Electronics</i> , 2013, 14, 2789-2794.	1.4	32
49	Crossed investigation of damage in composites with embedded quantum resistive strain sensors (sQRS), acoustic emission (AE) and digital image correlation (DIC). <i>Composites Science and Technology</i> , 2018, 160, 79-85.	3.8	32
50	Flexible latex-polyaniline segregated network composite coating capable of measuring large strain on epoxy. <i>Smart Materials and Structures</i> , 2013, 22, 015008.	1.8	31
51	Sulfonated poly(ether ether ketone) [SPEEK] nanocomposites based on hybrid nanocarbons for the detection and discrimination of some lung cancer VOC biomarkers. <i>Journal of Materials Chemistry B</i> , 2017, 5, 348-359.	2.9	31
52	Rheological and calorimetric properties of recycled bisphenol A poly(carbonate). <i>Polymer Degradation and Stability</i> , 2003, 82, 99-104.	2.7	29
53	3D sprayed polyurethane functionalized graphene / carbon nanotubes hybrid architectures to enhance the piezo-resistive response of quantum resistive pressure sensors. <i>Carbon</i> , 2020, 168, 564-579.	5.4	28
54	Poly(butylene terephthalate)/ poly(ethylene-co-alkyl acrylate)/ carbon black conductive composites: Influence of composition and morphology on electrical properties. <i>Polymer Engineering and Science</i> , 2001, 41, 1124-1132.	1.5	27

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55	Selectivity of Chemoresistive Sensors Made of Chemically Functionalized Carbon Nanotube Random Networks for Volatile Organic Compounds (VOC). <i>Chemosensors</i> , 2014, 2, 26-40.	1.8	27
56	Upgrading of diesel engine exhaust waste into onion-like carbon nanoparticles for integrated degradation sensing in nano-biocomposites. <i>New Journal of Chemistry</i> , 2021, 45, 3675-3682.	1.4	26
57	Crystallization kinetics of poly(butylene terephthalate) (PBT): Influence of additives and free carboxylic acid chain ends. <i>Polymer Engineering and Science</i> , 2001, 41, 178-191.	1.5	25
58	Conductive polymer composites: Electrical, thermal, and rheological study of injected isotactic poly(propylene)/long stainless-steel fibers for electromagnetic interferences shielding. <i>Journal of Applied Polymer Science</i> , 2006, 100, 3280-3287.	1.3	25
59	Starch Modification, Destructuration and Hydrolysis during O-Formylation. <i>Starch/Staerke</i> , 2004, 56, 389-398.	1.1	20
60	Simulation of Electrical and Thermal Behavior of Conductive Polymer Composites Heating Elements. <i>Journal of Thermophysics and Heat Transfer</i> , 2005, 19, 375-381.	0.9	20
61	Smart Poly(styrene)/Carbon Black Conductive Polymer Composites Films for Styrene Vapour Sensing. <i>Macromolecular Symposia</i> , 2005, 222, 273-280.	0.4	20
62	Carbon black-filled poly(ethylene-co-alkyl acrylate) composites: Calorimetric studies. <i>Journal of Applied Polymer Science</i> , 2001, 79, 779-793.	1.3	19
63	Conductive polymer composites(CPC): influence of processing conditions, shear rate and temperature on electrical properties of poly(butylene terephthalate)/poly(amide12-b-tetramethyleneglycol) carbon black blends. <i>Macromolecular Symposia</i> , 2003, 203, 309-316.	0.4	18
64	Chemical Sensors Based on New Polyamides Biobased on (Z) Octadecaenedioic Acid and Cyclodextrin. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1620-1628.	1.1	18
65	Thermophysical and Radiative Properties of Conductive Biopolymer Composite. <i>Materials Science Forum</i> , 0, 714, 115-122.	0.3	17
66	Rheological properties of silica dispersions stabilized by stereoregular poly(methyl methacrylate). <i>Journal of Colloid and Interface Science</i> , 2004, 272, 218-224.	5.0	16
67	Current passage tubes in conductive polymer composite for fluid heating. <i>Energy Conversion and Management</i> , 2008, 49, 493-505.	4.4	15
68	Robustness of carbon nanotube-based sensor to probe composites' interfacial damage in situ. <i>Journal of Composite Materials</i> , 2016, 50, 109-113.	1.2	15
69	Silane-Grafted Isotactic Polypropylene Used as a Coupling Agent on Glass. Consequences on The Interfacial Adhesion. <i>Journal of Adhesion</i> , 1996, 58, 299-313.	1.8	13
70	Elaboration and Characterization of Starch/ Poly(caprolactone) Blends. <i>Macromolecular Symposia</i> , 2005, 222, 233-238.	0.4	13
71	Eco-friendly conductive polymer nanocomposites (CPC) for solar absorbers design. <i>Polymers for Advanced Technologies</i> , 2013, 24, 638-645.	1.6	13
72	Simple technique for the simultaneous determination of solvent diffusion coefficient in polymer by Quantum Resistive Sensors and FTIR spectroscopy. <i>Polymers for Advanced Technologies</i> , 2013, 24, 487-494.	1.6	12

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73	vQRS Based on Hybrids of CNT with PMMA-POSS and PS-POSS Copolymers to Reach the Sub-PPM Detection of Ammonia and Formaldehyde at Room Temperature Despite Moisture. <i>Chemosensors</i> , 2017, 5, 22.	1.8	12
74	Influence of Water Molecules on the Detection of Volatile Organic Compounds (VOC) Cancer Biomarkers by Nanocomposite Quantum Resistive Vapor Sensors vQRS. <i>Chemosensors</i> , 2018, 6, 64.	1.8	12
75	Influence of Carbon-Black Nanoparticles on Poly(butylene terephthalate) Fractionated Crystallization in Bicomponent Poly(butylene terephthalate)/Poly[ethylene-co-(ethyl acrylate)] Blends. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 1375-1387.	1.7	11
76	Eco-plastics: Morphological and mechanical properties of recycled poly(carbonate)-crushed rubber (rPC-rCR) blends. <i>Polymer Engineering and Science</i> , 2007, 47, 1768-1776.	1.5	11
77	Coupling agents for polypropylene/glass fiber composites: synthesis of functionalized isotactic polypropylene and crystallization. <i>Composite Interfaces</i> , 1995, 3, 121-134.	1.3	10
78	Multifunctional Carbon Nanotubes Enhanced Structural Composites with Improved Toughness and Damage Monitoring. <i>Journal of Composites Science</i> , 2019, 3, 109.	1.4	10
79	Investigation of the polycarbonate/crushed-rubber-particle interphase by nanoindentation. <i>Journal of Applied Polymer Science</i> , 2007, 103, 2687-2694.	1.3	8
80	Vapor and Pressure Sensors Based on Cellulose Nanofibers and Carbon Nanotubes Aerogel with Thermoelectric Properties. <i>Journal of Renewable Materials</i> , 2017, , .	1.1	8
81	A Review of Nanocarbon-Based Solutions for the Structural Health Monitoring of Composite Parts Used in Renewable Energies. <i>Journal of Composites Science</i> , 2022, 6, 32.	1.4	8
82	Gas barrier efficiency of clay- and graphene-poly(isobutylene-co-isoprene) nanocomposite membranes evidenced by a quantum resistive vapor sensor cell. <i>Nanocomposites</i> , 2015, 1, 96-105.	2.2	7
83	Interfacial nanocomposite sensors (sQRS) for the core monitoring of polymer composites' fatigue and damage analysis. <i>Nanocomposites</i> , 2018, 4, 69-79.	2.2	7
84	Design and study of an electrical liquid heater using conductive polymer composite tubes. <i>Applied Thermal Engineering</i> , 2013, 54, 507-515.	3.0	6
85	Impact and strain monitoring in glass fiber reinforced epoxy laminates with embedded quantum resistive sensors (QRSs). <i>Composites Science and Technology</i> , 2022, 221, 109352.	3.8	5
86	Mechanical and rheological properties of poly(ethylene-co-ethyl acrylate) as a function of carbon black content. <i>Macromolecular Symposia</i> , 2003, 203, 317-324.	0.4	4
87	Simulation of Electrical and Thermal Behavior of Poly(propylene) / Carbon Filler Conductive Polymer Composites. <i>Macromolecular Symposia</i> , 2005, 222, 187-194.	0.4	4
88	Electrothermal Behavior of Conductive Polymer Composite Heating Elements Filled with Ceramic Particles. <i>Journal of Thermophysics and Heat Transfer</i> , 2008, 22, 545-554.	0.9	4
89	Thermo- and chemo-electrical behavior of carbon nanotube filled co-continuous conductive polymer nanocomposites (CPC) to develop amperometric sensors. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1143, 51401.	0.1	4
90	Conductive biopolymer nanocomposites for sensors. , 2011, , 368-399.		4

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91	Electronic noses for VOCs detection based on the nanoparticles hybridized graphene composites. , 2012, , .		4
92	Core-shell nanostructured hybrid composites for volatile organic compound detection. International Journal of Nanomedicine, 2015, 10 Spec Iss, 203.	3.3	4
93	Rheological properties of conductive polymer composite (CPC) filled with double percolated network of carbon nanoparticles and boron nitride powder. E-Polymers, 2009, 9, .	1.3	3
94	6.10 Electrically Conductive Nanocomposites. , 2018, , 248-314.		3
95	Strain Mapping and Damage Tracking in Carbon Fiber Reinforced Epoxy Composites during Dynamic Bending Until Fracture with Quantum Resistive Sensors in Array. Journal of Composites Science, 2021, 5, 60.	1.4	3
96	Boosting Selectivity and Sensitivity to Biomarkers of Quantum Resistive Vapour Sensors Used for Volatolomics with Nanoarchitected Carbon Nanotubes or Graphene Platelets Connected by Fullerene Junctions. Chemosensors, 2021, 9, 66.	1.8	3
97	An Electronic Nose Prototype for the On-Field Detection of Nerve Agents. , 2018, , .		2
98	Influence of carbon nanotube grafting on chemo-electrical properties of Conductive Polymer nanoComposites. Materials Research Society Symposia Proceedings, 2008, 1143, 20201.	0.1	1
99	Conducting Polymer nanoComposites (CPC): Nanocharacterisation of layer by layer sprayed PMMA-CNT vapour sensors by Atomic force Microscopy in current Sensing Mode (CS-AFM). Materials Research Society Symposia Proceedings, 2008, 1143, 20601.	0.1	1
100	Graphene Filled Polymers for Vapor/Gas Sensor Applications. , 2015, , 253-275.		1
101	A functionalized carbon nanotube based electronic nose for the detection of nerve agents. , 2018, , .		1
102	Conductive eco-polymer composites: wear behaviour of recycled polycarbonate/crushed rubber microparticles. Plastics, Rubber and Composites, 2011, 40, 139-145.	0.9	0
103	Electromagnetic properties of Fe <sub>3</sub> O <sub>4</sub> -functionalized graphene and its composites with a conducting polymer. Journal of Polymer Science Part A, 2013, 51, 3767-3767.	2.5	0
104	A Review of In-Service Coating Health Monitoring Technologies: Towards "Smart" Neural-Like Networks for Condition-Based Preventive Maintenance. Coatings, 2022, 12, 565.	1.2	0