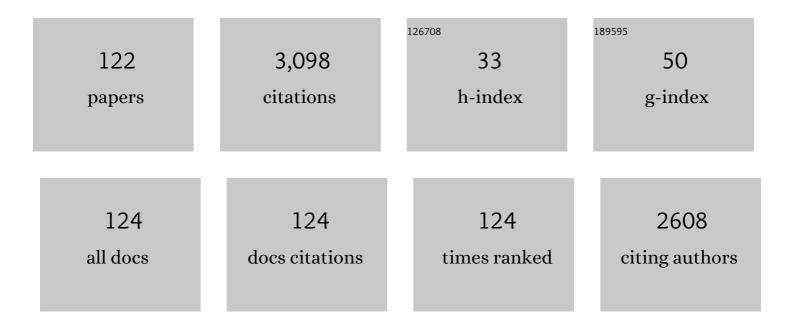
List of Publications by Year in descending order

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KATIA CHEDIN

#	Article	IF	CITATIONS
1	Synthesis and Characterization of Highly Fluorinated Graphite Containing sp2 and sp3 Carbon. Chemistry of Materials, 2004, 16, 1786-1792.	3.2	150
2	Fluorinated carbon nanofibres for high energy and high power densities primary lithium batteries. Electrochemistry Communications, 2007, 9, 1850-1855.	2.3	133
3	Effect of curvature on C–F bonding in fluorinated carbons: from fullerene and derivatives to graphite. Physical Chemistry Chemical Physics, 2010, 12, 1388-1398.	1.3	102
4	Solid-State NMR Study of the Post-Fluorination of (C <sub>2.5</sub> F) <i><sub>n</sub></i> Fluorineâ^'GIC. Journal of Physical Chemistry B, 2007, 111, 14143-14151.	1.2	87
5	NMR and EPR studies of room temperature highly fluorinated graphite heat-treated under fluorine atmosphere. Carbon, 2004, 42, 1931-1940.	5.4	83
6	EPR and Solid-State NMR Studies of Poly(dicarbon monofluoride) (C2F)n. Journal of Physical Chemistry B, 2006, 110, 11800-11808.	1.2	83
7	A 7Li NMR study of a hard carbon for lithium–ion rechargeable batteries. Solid State Ionics, 2000, 127, 187-198.	1.3	76
8	Reactivity of Carbon Nanofibers with Fluorine Gas. Chemistry of Materials, 2007, 19, 161-172.	3.2	73
9	Solid-State NMR Study of Nanodiamonds Produced by the Detonation Technique. Journal of Physical Chemistry C, 2009, 113, 10371-10378.	1.5	70
10	Applicative performances of fluorinated carbons through fluorination routes: A review. Journal of Fluorine Chemistry, 2012, 134, 11-17.	0.9	67
11	Effect of Graphite Crystal Structure on Lithium Electrochemical Intercalation. Journal of the Electrochemical Society, 1999, 146, 3660-3665.	1.3	66
12	Comparative performances for primary lithium batteries of some covalent and semi-covalent graphite fluorides. Journal of Power Sources, 2006, 158, 1365-1372.	4.0	65
13	On the choice of graphite for lithium ion batteries. Journal of Power Sources, 1999, 81-82, 312-316.	4.0	62
14	On the irreversible capacities of disordered carbons in lithium-ion rechargeable batteries. Electrochimica Acta, 2000, 45, 1607-1615.	2.6	62
15	Pushing the theoretical limit of Li–CFx batteries using fluorinated nanostructured carbon nanodiscs. Carbon, 2015, 94, 1061-1070.	5.4	57
16	Comparative Study of SWCNT Fluorination by Atomic and Molecular Fluorine. Chemistry of Materials, 2012, 24, 1744-1751.	3.2	56
17	Magnesium batteries: Towards a first use of graphite fluorides. Journal of Power Sources, 2007, 173, 592-598.	4.0	52
18	Enhanced performances in primary lithium batteries of fluorinated carbon nanofibers through static fluorination. Electrochimica Acta, 2013, 114, 142-151.	2.6	50

#	Article	IF	CITATIONS
19	Electrochemical performance of low temperature fluorinated graphites used as cathode in primary lithium batteries. Carbon, 2006, 44, 2543-2548.	5.4	49
20	Protection of nuclear graphite toward fluoride molten salt by glassy carbon deposit. Journal of Nuclear Materials, 2009, 384, 292-302.	1.3	48
21	Hybrid-Type Graphite Fluoride as Cathode Material in Primary Lithium Batteries. Electrochemical and Solid-State Letters, 2004, 7, A159.	2.2	47
22	Modification of ultraâ€highâ€molecular weight polyethylene by various fluorinating routes. Journal of Polymer Science Part A, 2011, 49, 3559-3573.	2.5	47
23	Fluorination of anatase TiO <sub>2</sub> towards titanium oxyfluoride TiOF <sub>2</sub> : a novel synthesis approach and proof of the Li-insertion mechanism. Journal of Materials Chemistry A, 2014, 2, 15308-15315.	5.2	46
24	Thermal exfoliation of fluorinated graphite. Carbon, 2014, 77, 688-704.	5.4	46
25	Tuning the discharge potential of fluorinated carbon used as electrode in primary lithium battery. Electrochimica Acta, 2012, 59, 485-491.	2.6	44
26	Carbon nanofibres fluorinated using TbF4 as fluorinating agent. Part I: Structural properties. Carbon, 2008, 46, 1010-1016.	5.4	41
27	Solid-state 19F and 13C NMR of room temperature fluorinated graphite and samples thermally treated under fluorine: Low-field and high-resolution studies. Journal of Solid State Chemistry, 2005, 178, 1262-1268.	1.4	40
28	Effect of graphitization on fluorination of carbon nanocones and nanodiscs. Carbon, 2009, 47, 2763-2775.	5.4	40
29	NMR and NEXAFS Study of Various Graphite Fluorides. Journal of Physical Chemistry C, 2013, 117, 13564-13572.	1.5	40
30	High energy density of primary lithium batteries working with sub-fluorinated few walled carbon nanotubes cathode. Journal of Alloys and Compounds, 2017, 726, 852-859.	2.8	38
31	Highly fluorinated graphite prepared from graphite fluoride formed using BF3 catalyst. Journal of Fluorine Chemistry, 2005, 126, 1078-1087.	0.9	37
32	Effect of fluorine doping on structure and CO2 adsorption in silicon carbide-derived carbon. Carbon, 2016, 96, 565-577.	5.4	37
33	Noncovalent Functionalization of Single-Wall Carbon Nanotubes for the Elaboration of Gas Sensor Dedicated to BTX Type Gases: The Case of Toluene. Journal of Physical Chemistry C, 2013, 117, 20217-20228.	1.5	36
34	Tribological properties of low-temperature graphite fluorides. Influence of the structure on the lubricating performances. Journal of Physics and Chemistry of Solids, 2006, 67, 1095-1099.	1.9	35
35	New synthesis methods for fluorinated carbon nanofibres and applications. Journal of Fluorine Chemistry, 2010, 131, 676-683.	0.9	34
36	Fluorinated (Nano)Carbons: CF <sub><i>x</i></sub> Electrodes and CF <sub><i>x</i></sub> â€Based Batteries. Energy Technology, 2021, 9, 2000605.	1.8	31

KATIA GUERIN

#	Article	IF	CITATIONS
37	Direct fluorination of poly(p-phenylene). Polymer, 2005, 46, 6736-6745.	1.8	30
38	All-organic device with integrated chemical filter dedicated to the selective measurement of NO2 in air. Organic Electronics, 2010, 11, 1223-1229.	1.4	30
39	Solid State NMR study of nanodiamond surface chemistry. Solid State Nuclear Magnetic Resonance, 2011, 40, 144-154.	1.5	30
40	One-shot versus stepwise gas–solid synthesis of iron trifluoride: investigation of pure molecular F2 fluorination of chloride precursors. CrystEngComm, 2013, 15, 3664.	1.3	29
41	Electrochemical discharge mechanism of fluorinated graphite used as electrode in primary lithium batteries. Journal of Physics and Chemistry of Solids, 2006, 67, 1173-1177.	1.9	28
42	Tribological Properties of Fluorinated Carbon Nanofibres. Tribology Letters, 2009, 34, 49-59.	1.2	27
43	First Insight into Fluorinated Pt/Carbon Aerogels as More Corrosion-Resistant Electrocatalysts for Proton Exchange Membrane Fuel Cell Cathodes. Electrocatalysis, 2015, 6, 521-533.	1.5	27
44	Activity and Durability of Platinum-Based Electrocatalysts Supported on Bare or Fluorinated Nanostructured Carbon Substrates. Journal of the Electrochemical Society, 2018, 165, F3346-F3358.	1.3	27
45	Carbon nanofibres fluorinated using TbF4 as fluorinating agent. Part II: Adsorption and electrochemical properties. Carbon, 2008, 46, 1017-1024.	5.4	26
46	The synthesis of multilayer graphene materials by the fluorination of carbon nanodiscs/nanocones. Carbon, 2012, 50, 3897-3908.	5.4	26
47	Fluorination of silicon carbide thin films using pure F2 gas or XeF2. Thin Solid Films, 2010, 518, 6746-6751.	0.8	25
48	Fluorination of single walled carbon nanotubes at low temperature: Towards the reversible fluorine storage into carbon nanotubes. Journal of Fluorine Chemistry, 2011, 132, 1072-1078.	0.9	25
49	The synthesis of microporous carbon by the fluorination of titanium carbide. Carbon, 2011, 49, 2998-3009.	5.4	22
50	Insights on the reactivity of ordered porous carbons exposed to different fluorinating agents and conditions. Carbon, 2015, 84, 567-583.	5.4	22
51	Tuning fluorine and oxygen distribution in graphite oxifluorides for enhanced performances in primary lithium battery. Carbon, 2019, 141, 6-15.	5.4	22
52	Solid state NMR studies of covalent graphite fluorides (CF)n and (C2F)n. Journal of Physics and Chemistry of Solids, 2006, 67, 1100-1105.	1.9	21
53	Tribological properties of fluorinated nanocarbons with different shape factors. Journal of Fluorine Chemistry, 2012, 144, 10-16.	0.9	21
54	Chemical and electrochemical intercalation of lithium into boronated carbons. Carbon, 1999, 37, 1961-1964.	5.4	19

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55	Fluorinated exfoliated graphite as cathode materials for enhanced performances in primary lithium battery. Electrochimica Acta, 2017, 227, 18-23.	2.6	19
56	Magnetic properties of mixed graphite containing both hexagonal and rhombohedral forms. European Physical Journal B, 2000, 13, 235-243.	0.6	18
57	Solid-state NMR and EPR study of fluorinated carbon nanofibers. Journal of Solid State Chemistry, 2008, 181, 1915-1924.	1.4	18
58	Room temperature graphite fluorination process using chlorine as catalyst. Journal of Physics and Chemistry of Solids, 2006, 67, 1157-1161.	1.9	17
59	An innovative gas sensor system designed from a sensitive organic semiconductor downstream a nanocarbonaceous chemical filter for the selective detection of NO2 in an environmental context. Sensors and Actuators B: Chemical, 2012, 173, 659-667.	4.0	17
60	The effect of nanostructure on the thermal properties of fluorinated carbon nanofibres. Carbon, 2011, 49, 4801-4811.	5.4	16
61	Utilization of graphitized and fluorinated carbon as platinum nanoparticles supports for application in proton exchange membrane fuel cell cathodes. Journal of Power Sources, 2018, 404, 28-38.	4.0	16
62	High energy primary lithium battery using oxidized sub-fluorinated graphite fluorides. Journal of Fluorine Chemistry, 2019, 227, 109369.	0.9	16
63	Heteronuclear dipolar recoupling using Hartmann–Hahn cross polarization: A probe for 19F–13C distance determination of fluorinated carbon materials. Solid State Nuclear Magnetic Resonance, 2007, 31, 131-140.	1.5	15
64	Fluorinated nanocarbons using fluorinating agent: Strategies of fluorination and applications. European Physical Journal B, 2010, 75, 133-139.	0.6	15
65	Friction Properties of Fluorinated Carbon Nanodiscs and Nanocones. Tribology Letters, 2011, 41, 353-362.	1.2	15
66	Carbon in lithium-ion and post-lithium-ion batteries: Recent features. Synthetic Metals, 2021, 280, 116864.	2.1	15
67	Tribological Properties of Room Temperature Fluorinated Graphite Heat-Treated Under Fluorine Atmosphere. Tribology Letters, 2010, 37, 31-41.	1.2	14
68	Structure control at the nanoscale in fluorinated graphitized carbon blacks through the fluorination route. Journal of Fluorine Chemistry, 2014, 168, 163-172.	0.9	14
69	Evidence for a nanosize effect on the structural and high performance electrochemical properties of V2O5 obtained via fluorine chemistry. Electrochimica Acta, 2017, 245, 350-360.	2.6	13
70	Tin dioxide coated carbon materials as an alternative catalyst support for PEMFCs: Impacts of the intrinsic carbon properties and the synthesis parameters on the coating characteristics. Microporous and Mesoporous Materials, 2018, 271, 1-15.	2.2	13
71	Physical and chemical characterizations of nanometric indigo layers as efficient ozone filter for gas sensor devices. Thin Solid Films, 2011, 520, 971-977.	0.8	12
72	Activity and Durability of Platinum-Based Electrocatalysts with Tin Oxide–Coated Carbon Aerogel Materials as Catalyst Supports. Electrocatalysis, 2019, 10, 156-172.	1.5	12

KATIA GUERIN

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73	On the Electrochemical Intercalation of Lithium into Graphitizable Carbons. Molecular Crystals and Liquid Crystals, 1998, 310, 389-396.	0.3	11
74	Fluorine-intercalated graphite for lithium batteries. , 2005, , 369-395.		11
75	Direct Fluorination of Carbon Nanocones and Nanodiscs. Journal of Nanoscience and Nanotechnology, 2009, 9, 4496-4501.	0.9	11
76	An innovative gas sensor system designed from a sensitive organic semiconductor downstream a nanocarbonaceous chemical filter for selective detection of NO2 in an environmental context. Part II: Interpretations of O3/nanocarbons and NO2/nanocarbons interactions. Sensors and Actuators B: Chemical, 2012, 173, 652-658.	4.0	11
77	Atomic Layer Fluorination of the Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Surface: A Multiprobing Survey. ACS Applied Energy Materials, 2019, 2, 6681-6692.	2.5	11
78	Dual C F bonding in fluorinated exfoliated graphite. Journal of Fluorine Chemistry, 2015, 174, 36-41.	0.9	10
79	On the Choice of Carbon Materials at the Negative Electrode of Li-ion Batteries: Graphite vs. Hard Carbons. Molecular Crystals and Liquid Crystals, 2000, 340, 493-498.	0.3	9
80	Direct fluorination of various poly(p-phenylene): Effects of the polymer synthesis and thermal post-treatment. Polymer, 2007, 48, 3961-3973.	1.8	9
81	Indigo molecules adsorbed on carbonaceous nanomaterials as chemical filter for the selective detection of NO2 in the environment. Journal of Colloid and Interface Science, 2013, 407, 39-46.	5.0	9
82	Comparative Electrochemical Study of Low Temperature Fluorinated Graphites used as Cathode in Primary Lithium Batteries. ECS Transactions, 2006, 3, 153-163.	0.3	8
83	A carbonaceous chemical filter for the selective detection of NO2 in the environment. Carbon, 2013, 52, 17-29.	5.4	8
84	Rhombohedral iron trifluoride with a hierarchized macroporous/mesoporous texture from gaseous fluorination of iron disilicide. Materials Chemistry and Physics, 2016, 173, 355-363.	2.0	8
85	Unravelling lithiation mechanisms of iron trifluoride by <i>operando</i> X-ray absorption spectroscopy and MCR-ALS chemometric tools. New Journal of Chemistry, 2020, 44, 10153-10164.	1.4	8
86	Relationship between tin environment of SnO2 nanoparticles and their electrochemical behaviour in a lithium ion battery. Materials Chemistry and Physics, 2021, 257, 123461.	2.0	8
87	Improved selectivity towards NO2 of phthalocyanine-based chemosensors by means of original indigo/nanocarbons hybrid material. Talanta, 2014, 127, 100-107.	2.9	7
88	Surface atomic layer fluorination of Li4Ti5O12: Investigation of the surface electrode reactivity and the outgassing behavior in LiBs. Applied Surface Science, 2020, 527, 146834.	3.1	7
89	The Use of Nanocarbons as Chemical Filters for the Selective Detection of Nitrogen Dioxide and Ozone. Journal of Nanoscience and Nanotechnology, 2010, 10, 5653-5661.	0.9	6
90	Friction Properties of Fluorinated Graphitized Carbon Blacks. Tribology Letters, 2014, 56, 259-271.	1.2	6

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91	Advances in tailoring the water content in porous carbon aerogels using RT-pulsed fluorination. Journal of Fluorine Chemistry, 2020, 238, 109633.	0.9	6
92	Fluorination of poly(p-phenylene) using TbF4 as fluorinating agent. Journal of Fluorine Chemistry, 2007, 128, 1402-1409.	0.9	5
93	Synthesis of carbon–silica core–shell nanofibers from a dispersion of fluorinated carbon nanofibers in solvated polysiloxane. Carbon, 2013, 55, 23-33.	5.4	5
94	Nature of C–F Bonds inÂFluorinated Carbons. , 2017, , 215-243.		5
95	Surface Layer Fluorination of TiO <sub>2</sub> Electrodes for Electrode Protection LiBs: Fading the Reactivity of the Negative Electrode/Electrolyte Interface. Journal of the Electrochemical Society, 2019, 166, A1905-A1914.	1.3	5
96	Synthesis of Nb2 O5 Nanoplates and their Conversion into NbO2 F Nanoparticles by Controlled Fluorination with Molecular Fluorine. European Journal of Inorganic Chemistry, 2019, 2019, 230-236.	1.0	5
97	Influence upon cycling of oxygen amount in tin-based compound used as negative electrode in lithium-ion battery. Synthetic Metals, 2020, 267, 116477.	2.1	5
98	Enhanced concentration of dispersed carbon nanofibres in organic solvents through their functionalization by fluorination. Journal of Colloid and Interface Science, 2013, 400, 11-17.	5.0	4
99	Fluorination-Induced Changes in Hydrophobicity of Silicon Carbide-Derived Nanoporous Carbon. Journal of Physical Chemistry C, 2016, 120, 18595-18606.	1.5	4
100	Electrochemical kinetics of Li insertion in nanosized high performance V2O5 obtained via fluorine chemistry. Electrochimica Acta, 2017, 253, 472-478.	2.6	4
101	Copper-iron ternary metal fluorides from multi-metallic template fluorination and their first use as cathode in solid state Li-batteries. Journal of Solid State Chemistry, 2022, 310, 123031.	1.4	4
102	New Nano-C–F Compounds for Nonrechargeable Lithium Batteries. , 2015, , 261-287.		3
103	Fluorinated Nanocarbons for Lubrication. , 2017, , 325-360.		3
104	Effect of fluorination on the stability of carbon nanofibres in organic solvents. Comptes Rendus Chimie, 2018, 21, 791-799.	0.2	3
105	Synthesis of NiF <sub>2</sub> and NiF <sub>2</sub> ·4H <sub>2</sub> O Nanoparticles by Microemulsion and Their Self-Assembly. Langmuir, 2020, 36, 8461-8475.	1.6	3
106	Functionalized Carbon Nanotubes-Based Gas Sensors for Pollutants Detection: Investigation on the Use of a Double Transduction Mode. Key Engineering Materials, 2014, 605, 75-78.	0.4	2
107	High Performances of Oxyfluoride Electrode Used in Lithium Ion Battery. E3S Web of Conferences, 2017, 16, 17007.	0.2	2
108	Understanding of the nanosize effect on the structure and electrochemistry of V2O5 obtained via fluorine chemistry. Materials Today: Proceedings, 2018, 5, 22850-22858.	0.9	2

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109	Optimized Electrode/Electrolyte Interface of MWCNT/SnO <sub>2</sub> Composite through Gas–Solid Fluorination. ACS Applied Materials & Interfaces, 2021, 13, 28150-28163.	4.0	2
110	A <sup>7</sup> Li NMR Study of a Hard Carbon as a Function of Temperature and Lithiation State. Molecular Crystals and Liquid Crystals, 2000, 340, 467-472.	0.3	1
111	The Influence of Sacrificial Carbonaceous Supports on the Synthesis of Anhydrous NiF2Nanoparticles. ChemistrySelect, 2016, 1, 5172-5181.	0.7	1
112	Proton Exchange Membrane Fuel Cell With Enhanced Durability Using Fluorinated Carbon As Electrocatalyst. E3S Web of Conferences, 2017, 16, 17001.	0.2	1
113	Tin-based materials: the future of anode materials for lithium ion battery?. , 2019, , .		1
114	Atomic Layer Fluorination of 5â€V Class Positive Electrode Material LiCoPO 4 for Enhanced Electrochemical Performance. Batteries and Supercaps, 2020, 3, 1051-1058.	2.4	1
115	Micro-texturing by femtosecond laser ablation of a carbonaceous anode for production of fluorine by electrolysis. Journal of Fluorine Chemistry, 2021, 244, 109746.	0.9	1
116	Analytical Transmission Electron Microscopy Investigation of the Fluorination Process of Carbon Nanoparticles Microscopy and Microanalysis, 2014, 20, 1794-1795.	0.2	0
117	New Indigo/Nanocarbons Hybrid Material as Chemical Filter for the Enhancement of Gas Sensor Selectivity towards Nitrogen Dioxide. Key Engineering Materials, 2014, 605, 135-138.	0.4	0
118	FIB, TEM and AFM Quantitative Investigation of Nanostructure and Nanoscale Friction Properties of Single Partially Fluorinated Carbon Nanofibres. Microscopy and Microanalysis, 2014, 20, 1784-1785.	0.2	0
119	Fluorinated 0D, 1D, and 2D Nanocarbons. , 2016, , 237-266.		0
120	Rhombohedral Iron Trifluoride with a Hierarchized Macroporous/Mesoporous Texture from Gaseous Fluorination of Iron Disilicide. E3S Web of Conferences, 2017, 16, 08001.	0.2	0
121	Advanced Carbon Fluorides For Primary Lithium Batteries. E3S Web of Conferences, 2017, 16, 17002.	0.2	0
122	Multi-Metallic Template Fluorination Mmtf for the Preparation of Ternary Metal Fluoride and Their First Use As Cathodes in Solid State Lithium Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 2070-2070.	0.0	0

8