

# Marc Dubois

## List of Publications by Year in descending order

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226  
papers

6,247  
citations

81900

39  
h-index

98798

67  
g-index

226  
all docs

226  
docs citations

226  
times ranked

6215  
citing authors

#	ARTICLE	IF	CITATIONS
1	C F bonding in fluorinated N-Doped carbons. Applied Surface Science, 2022, 577, 151721.	6.1	19
2	Carbon fibre fluorination: Surface and structural properties. Applied Surface Science, 2022, 595, 153561.	6.1	1
3	Graphite-Mediated Microwave-Exfoliated Graphene Fluoride as Supercapacitor Electrodes. Nanomaterials, 2022, 12, 1796.	4.1	2
4	Fluorination of flax fibers for improving the interfacial compatibility of eco-composites. Sustainable Materials and Technologies, 2022, 33, e00467.	3.3	3
5	Fluorinated (Nano)Carbons: CF <sub>x</sub> Electrodes and CF <sub>x</sub> -Based Batteries. Energy Technology, 2021, 9, 2000605.	3.8	31
6	From the Understanding of Fluorination Process to Hydrophobic Natural Fibers. Composites Science and Technology, 2021, , 461-486.	0.6	0
7	Reply to the "Comment on "Non-PGM electrocatalysts for PEM fuel cells: effect of fluorination on the activity and stability of a highly active NC <sub>Ar</sub> + NH <sub>3</sub> catalyst" by Xi Yin, Edward F. Holby and Piotr Zelenay, Energy Environ. Sci., 10.1039/D0EE02069A. Energy and Environmental Science, 2021, 14, 1034-1041.	30.8	7
8	Preparation and Applications of Fluorinated Graphenes. Journal of Carbon Research, 2021, 7, 20.	2.7	13
9	Liquid-phase exfoliation of F-diamane-like nanosheets. Carbon, 2021, 175, 124-130.	10.3	26
10	Optimized Electrode/Electrolyte Interface of MWCNT/SnO <sub>2</sub> Composite through Gas-Solid Fluorination. ACS Applied Materials & Interfaces, 2021, 13, 28150-28163.	8.0	2
11	Carbon in lithium-ion and post-lithium-ion batteries: Recent features. Synthetic Metals, 2021, 280, 116864.	3.9	15
12	A review about the fluorination and oxyfluorination of carbon fibres. Journal of Fluorine Chemistry, 2021, 251, 109887.	1.7	16
13	Effect of Particle Sizes on the Efficiency of Fluorinated Nanodiamond Neutron Reflectors. Nanomaterials, 2021, 11, 3067.	4.1	4
14	Favorable Intercalation of Nitrate Ions with Fluorine-Substituted Layered Double Hydroxides. Inorganic Chemistry, 2020, 59, 1602-1610.	4.0	9
15	Surface modification of sized vegetal fibers through direct fluorination for eco-composites. Journal of Fluorine Chemistry, 2020, 238, 109618.	1.7	9
16	Fluorocarbon Gas Exposure Induces Disaggregation of Nanodiamond Clusters and Enhanced Adsorption, Enabling Medical Microbubble Formation. ACS Applied Nano Materials, 2020, 3, 8897-8905.	5.0	11
17	Advances in tailoring the water content in porous carbon aerogels using RT-pulsed fluorination. Journal of Fluorine Chemistry, 2020, 238, 109633.	1.7	6
18	Fluorination of carbon fibre sizing without mechanical or chemical loss of the fibre. Applied Surface Science, 2020, 534, 147647.	6.1	8

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19	Imaging of two samples with a single transmit/receive channel using coupled ceramic resonators for MR microscopy at 17.2 T. NMR in Biomedicine, 2020, 33, e4397.	2.8	8
20	Tuning C–F Bonding of Graphite Fluoride by Applying High Pressure: Experimental and Theoretical Study. Journal of Physical Chemistry C, 2020, 124, 24747-24755.	3.1	6
21	Constructive Near-Field Interference Effect in a Birdcage MRI Coil with an Artificial Magnetic Shield. Physical Review Applied, 2020, 13, .	3.8	2
22	Surface atomic layer fluorination of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> : Investigation of the surface electrode reactivity and the outgassing behavior in LiBs. Applied Surface Science, 2020, 527, 146834.	6.1	7
23	A Multitechnique Study of Fluorinated Nanodiamonds for Low-Energy Neutron Physics Applications. Journal of Physical Chemistry C, 2020, 124, 14229-14236.	3.1	6
24	Strategies for Engineering High-Performance PGM-Free Catalysts toward Oxygen Reduction and Evolution Reactions. Small Methods, 2020, 4, 2000016.	8.6	70
25	Radio Frequency Coil for Dual-Nuclei MR Muscle Energetics Investigation Based on Two Capacitively Coupled Periodic Wire Arrays. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 721-725.	4.0	3
26	A Semi-Analytical Model of High-Permittivity Dielectric Ring Resonators for Magnetic Resonance Imaging. IEEE Transactions on Antennas and Propagation, 2020, 68, 6317-6329.	5.1	8
27	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.	5.1	11
28	Non-PGM electrocatalysts for PEM fuel cells: effect of fluorination on the activity and stability of a highly active NC <sub>Ar</sub> + NH <sub>3</sub> catalyst. Energy and Environmental Science, 2019, 12, 3015-3037.	30.8	66
29	High energy primary lithium battery using oxidized sub-fluorinated graphite fluorides. Journal of Fluorine Chemistry, 2019, 227, 109369.	1.7	16
30	Enhancing surface coil sensitive volume with hybridized electric dipoles at 17.2 T. Journal of Magnetic Resonance, 2019, 307, 106567.	2.1	4
31	A universal fluorous technology toward superhydrophobic coatings. Journal of Colloid and Interface Science, 2019, 553, 778-787.	9.4	10
32	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.	2.9	5
33	Fluorination/Torrefaction Combination to Further Improve the Hydrophobicity of Wood. Macromolecular Chemistry and Physics, 2019, 220, 1900041.	2.2	9
34	Exfoliated fluorinated carbons with a low and stable friction coefficient. RSC Advances, 2019, 9, 13615-13622.	3.6	5
35	Systematic Analysis of the Improvements in Magnetic Resonance Microscopy with Ferroelectric Composite Ceramics. Advanced Materials, 2019, 31, e1900912.	21.0	17
36	Acoustic flat lensing using an indefinite medium. Physical Review B, 2019, 99, .	3.2	12

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37	Direct Imaging of the Energy-Transfer Enhancement between Two Dipoles in a Photonic Cavity. <i>Physical Review X</i> , 2019, 9, .	8.9	22
38	Wireless coils based on resonant and nonresonant coupledâ€wire structure for small animal multinuclear imaging. <i>NMR in Biomedicine</i> , 2019, 32, e4079.	2.8	12
39	Fluorination renders the wood surface hydrophobic without any loss of physical and mechanical properties. <i>Industrial Crops and Products</i> , 2019, 133, 133-141.	5.2	19
40	Fluorinated nanodiamonds as unique neutron reflector. <i>Journal of Neutron Research</i> , 2019, 20, 81-82.	1.1	5
41	Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. <i>Carbon</i> , 2019, 148, 413-420.	10.3	33
42	Structural and electronic changes in graphite fluorides as a function of fluorination rate: An XRS, PDF and DFT study. <i>Carbon</i> , 2019, 147, 1-8.	10.3	18
43	Tuning fluorine and oxygen distribution in graphite oxifluorides for enhanced performances in primary lithium battery. <i>Carbon</i> , 2019, 141, 6-15.	10.3	22
44	Effect of nanodiamond fluorination on the efficiency of quasispecular reflection of cold neutrons. <i>Physical Review A</i> , 2018, 97, .	2.5	22
45	Large-scale synthesis of fluorinated graphene by rapid thermal exfoliation of highly fluorinated graphite. <i>Dalton Transactions</i> , 2018, 47, 4596-4606.	3.3	23
46	Fluorinated nanodiamonds as unique neutron reflector. <i>Carbon</i> , 2018, 130, 799-805.	10.3	34
47	From hydrophilic to hydrophobic wood using direct fluorination: A localized treatment. <i>Comptes Rendus Chimie</i> , 2018, 21, 800-807.	0.5	22
48	Effect of fluorination on the stability of carbon nanofibres in organic solvents. <i>Comptes Rendus Chimie</i> , 2018, 21, 791-799.	0.5	3
49	Fluorine-graphite intercalation compound (C <sub>4</sub> F) <sub>n</sub> at high pressure: Experimental and theoretical study. <i>Carbon</i> , 2018, 127, 384-391.	10.3	12
50	Effect of Hydrogen Fluoride Addition and Synthesis Temperature on the Structure of Doubleâ€Walled Carbon Nanotubes Fluorinated by Molecular Fluorine. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700261.	1.5	4
51	Kerker Effect in Ultrahigh-Field Magnetic Resonance Imaging. <i>Physical Review X</i> , 2018, 8, .	8.9	24
52	Surface reactivity of uranium hexafluoride (UF <sub>6</sub> ). <i>Comptes Rendus Chimie</i> , 2018, 21, 782-790.	0.5	3
53	Second â€Colloque franÃ§ais de chimie du fluorâ€: An overview of fluorine chemistry. <i>Comptes Rendus Chimie</i> , 2018, 21, 709-710.	0.5	0
54	Activity and Durability of Platinum-Based Electrocatalysts Supported on Bare or Fluorinated Nanostructured Carbon Substrates. <i>Journal of the Electrochemical Society</i> , 2018, 165, F3346-F3358.	2.9	27

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55	The effect of lignin on the reactivity of natural fibres towards molecular fluorine. <i>Materials and Design</i> , 2017, 120, 66-74.	7.0	13
56	A thin and conformal metasurface for illusion acoustics of rapidly changing profiles. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	65
57	Emergence of an enslaved phononic bandgap in a non-equilibrium pseudo-crystal. <i>Nature Materials</i> , 2017, 16, 808-813.	27.5	26
58	Advanced Carbon Fluorides For Primary Lithium Batteries. <i>E3S Web of Conferences</i> , 2017, 16, 17002.	0.5	0
59	Observation of acoustic Dirac-like cone and double zero refractive index. <i>Nature Communications</i> , 2017, 8, 14871.	12.8	123
60	Fluorinated exfoliated graphite as cathode materials for enhanced performances in primary lithium battery. <i>Electrochimica Acta</i> , 2017, 227, 18-23.	5.2	19
61	Experimental and DFT high pressure study of fluorinated graphite (C <sub>2</sub> F) <sub>n</sub> . <i>Carbon</i> , 2017, 114, 690-699.	10.3	20
62	Corrosion of iron in liquid uranium hexafluoride. <i>Corrosion Engineering Science and Technology</i> , 2017, 52, 611-617.	1.4	2
63	High energy density of primary lithium batteries working with sub-fluorinated few walled carbon nanotubes cathode. <i>Journal of Alloys and Compounds</i> , 2017, 726, 852-859.	5.5	38
64	Fluorinated Nanocarbons for Lubrication. , 2017, , 325-360.		3
65	High-speed acoustic communication by multiplexing orbital angular momentum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7250-7253.	7.1	220
66	Superhydrophobicity of polymer films via fluorine atoms covalent attachment and surface nano-texturing. <i>Journal of Fluorine Chemistry</i> , 2017, 200, 123-132.	1.7	18
67	Quantum revival for elastic waves in thin plate. <i>European Physical Journal: Special Topics</i> , 2017, 226, 1593-1601.	2.6	2
68	Nature of C–F Bonds in Fluorinated Carbons. , 2017, , 215-243.		5
69	Plasma and fluorination combination for stable multifunctionality of LDPE packaging films. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600066.	3.0	6
70	Role of defect states in functionalized graphene photodetectors. , 2017, , .		1
71	Directional excitation without breaking reciprocity. <i>New Journal of Physics</i> , 2016, 18, 095001.	2.9	11
72	Surface modification of low-density polyethylene packaging film via direct fluorination. <i>Surface and Coatings Technology</i> , 2016, 292, 144-154.	4.8	26

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73	Superhydrophobicity via gas-phase monomers grafting onto carbon nanotubes. <i>Progress in Surface Science</i> , 2016, 91, 57-71.	8.3	12
74	One Single Static Measurement Predicts Wave Localization in Complex Structures. <i>Physical Review Letters</i> , 2016, 117, 074301.	7.8	17
75	Insight into the Uranyl Oxyfluoride Topologies through the Synthesis, Crystal Structure, and Evidence of a New Oxyfluoride Layer in [(UO <sub>2</sub> ) <sub>4</sub> F <sub>13</sub> ][Sr <sub>3</sub> (H <sub>2</sub> O) <sub>8</sub> ](NO <sub>3</sub> ) <sub>4</sub> ·H <sub>2</sub> O. <i>Inorganic Chemistry</i> , 2016, 55, 12185-12192.	4.0	4
76	Fluorinated 0D, 1D, and 2D Nanocarbons. , 2016, , 237-266.		0
77	Accessing the exceptional points of parity-time symmetric acoustics. <i>Nature Communications</i> , 2016, 7, 11110.	12.8	229
78	Fluorination as an Effective Way to Reduce Natural Fibers Hydrophilicity. <i>RILEM Bookseries</i> , 2016, , 211-229.	0.4	2
79	Electrochemical oxidation of graphite in aqueous hydrofluoric acid solution at high current densities. <i>Journal of Fluorine Chemistry</i> , 2016, 185, 36-41.	1.7	17
80	Time-Driven Superoscillations with Negative Refraction. <i>Physical Review Letters</i> , 2015, 114, 013902.	7.8	41
81	Comparative NEXAFS, NMR, and FTIR Study of Various-Sized Nanodiamonds: As-Prepared and Fluorinated. <i>Journal of Physical Chemistry C</i> , 2015, 119, 835-844.	3.1	16
82	In situ oligomerization of 2-(thiophen-3-yl)acetate intercalated into Zn <sub>2</sub> Al layered double hydroxide. <i>Journal of Solid State Chemistry</i> , 2015, 221, 391-397.	2.9	1
83	Enhancement of surface properties on Low Density Polyethylene packaging films using various fluorination routes. <i>European Polymer Journal</i> , 2015, 66, 18-32.	5.4	16
84	Experiments on Maxwell's fish-eye dynamics in elastic plates. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	22
85	Improvement of wood polymer composite mechanical properties by direct fluorination. <i>Materials &amp; Design</i> , 2015, 74, 61-66.	5.1	33
86	How to decrease the hydrophilicity of wood flour to process efficient composite materials. <i>Applied Surface Science</i> , 2015, 353, 1234-1241.	6.1	18
87	Enhanced anti-graffiti or adhesion properties of polymers using versatile combination of fluorination and polymer grafting. <i>Progress in Organic Coatings</i> , 2015, 88, 127-136.	3.9	21
88	Tunable hydrophilicity/hydrophobicity of fluorinated carbon nanotubes via graft polymerization of gaseous monomers. <i>Journal of Fluorine Chemistry</i> , 2015, 178, 279-285.	1.7	8
89	New Nano-Câ€F Compounds for Nonrechargeable Lithium Batteries. , 2015, , 261-287.		3
90	Insights on the reactivity of ordered porous carbons exposed to different fluorinating agents and conditions. <i>Carbon</i> , 2015, 84, 567-583.	10.3	22

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91	Pushing the theoretical limit of Li <sup>+</sup> /CF <sub>x</sub> batteries using fluorinated nanostructured carbon nanodiscs. <i>Carbon</i> , 2015, 94, 1061-1070.	10.3	57
92	Dual C F bonding in fluorinated exfoliated graphite. <i>Journal of Fluorine Chemistry</i> , 2015, 174, 36-41.	1.7	10
93	Friction Properties of Fluorinated Graphitized Carbon Blacks. <i>Tribology Letters</i> , 2014, 56, 259-271.	2.6	6
94	Analytical Transmission Electron Microscopy Investigation of the Fluorination Process of Carbon Nanoparticles.. <i>Microscopy and Microanalysis</i> , 2014, 20, 1794-1795.	0.4	0
95	Functionalized Carbon Nanotubes-Based Gas Sensors for Pollutants Detection: Investigation on the Use of a Double Transduction Mode. <i>Key Engineering Materials</i> , 2014, 605, 75-78.	0.4	2
96	New Indigo/Nanocarbons Hybrid Material as Chemical Filter for the Enhancement of Gas Sensor Selectivity towards Nitrogen Dioxide. <i>Key Engineering Materials</i> , 2014, 605, 135-138.	0.4	0
97	Structure control at the nanoscale in fluorinated graphitized carbon blacks through the fluorination route. <i>Journal of Fluorine Chemistry</i> , 2014, 168, 163-172.	1.7	14
98	Efficient Fluorinating Agent through Topochemical Fluorination of Co <sup>2+</sup> /Fe Layered Double Hydroxides. <i>Inorganic Chemistry</i> , 2014, 53, 852-860.	4.0	8
99	Enhancement of surface properties on commercial polymer packaging films using various surface treatment processes (fluorination and plasma). <i>Applied Surface Science</i> , 2014, 315, 426-431.	6.1	32
100	Thermal exfoliation of fluorinated graphite. <i>Carbon</i> , 2014, 77, 688-704.	10.3	46
101	Improved selectivity towards NO <sub>2</sub> of phthalocyanine-based chemosensors by means of original indigo/nanocarbons hybrid material. <i>Talanta</i> , 2014, 127, 100-107.	5.5	7
102	Comparison of the surface modifications of polymers induced by direct fluorination and rf-plasma using fluorinated gases. <i>Journal of Fluorine Chemistry</i> , 2014, 165, 49-60.	1.7	31
103	FIB, TEM and AFM Quantitative Investigation of Nanostructure and Nanoscale Friction Properties of Single Partially Fluorinated Carbon Nanofibres. <i>Microscopy and Microanalysis</i> , 2014, 20, 1784-1785.	0.4	0
104	On the evolution of the viscoelastic properties and its microstructural/chemical origin in filled NBR subjected to coupled thermal and mechanical loads. <i>Polymer Degradation and Stability</i> , 2013, 98, 2102-2110.	5.8	2
105	Noncovalent Functionalization of Single-Wall Carbon Nanotubes for the Elaboration of Gas Sensor Dedicated to BTX Type Gases: The Case of Toluene. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20217-20228.	3.1	36
106	Direct fluorination applied to wood flour used as a reinforcement for polymers. <i>Carbohydrate Polymers</i> , 2013, 94, 642-646.	10.2	31
107	Synthesis of carbon <sup>+</sup> /silica core <sup>+</sup> /shell nanofibers from a dispersion of fluorinated carbon nanofibers in solvated polysiloxane. <i>Carbon</i> , 2013, 55, 23-33.	10.3	5
108	Flat lens for pulse focusing of elastic waves in thin plates. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	82

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109	Enhanced performances in primary lithium batteries of fluorinated carbon nanofibers through static fluorination. <i>Electrochimica Acta</i> , 2013, 114, 142-151.	5.2	50
110	A carbonaceous chemical filter for the selective detection of NO <sub>2</sub> in the environment. <i>Carbon</i> , 2013, 52, 17-29.	10.3	8
111	Indigo molecules adsorbed on carbonaceous nanomaterials as chemical filter for the selective detection of NO <sub>2</sub> in the environment. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 39-46.	9.4	9
112	Graphene nanochains and nanoislands in the layers of room-temperature fluorinated graphite. <i>Carbon</i> , 2013, 59, 518-529.	10.3	57
113	Enhanced concentration of dispersed carbon nanofibres in organic solvents through their functionalization by fluorination. <i>Journal of Colloid and Interface Science</i> , 2013, 400, 11-17.	9.4	4
114	NMR and NEXAFS Study of Various Graphite Fluorides. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13564-13572.	3.1	40
115	Tuning the transport gap of functionalized graphene via electron beam irradiation. <i>New Journal of Physics</i> , 2013, 15, 033024.	2.9	25
116	Solid Carbon Produced in an Inductively Coupled Plasma Torch with a Titan Like Atmosphere. <i>International Journal of Aerospace Engineering</i> , 2013, 2013, 1-8.	0.9	4
117	An innovative gas sensor system designed from a sensitive organic semiconductor downstream a nanocarbonaceous chemical filter for the selective detection of NO <sub>2</sub> in an environmental context. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 659-667.	7.8	17
118	Comparative Study of SWCNT Fluorination by Atomic and Molecular Fluorine. <i>Chemistry of Materials</i> , 2012, 24, 1744-1751.	6.7	56
119	Tribological properties of fluorinated nanocarbons with different shape factors. <i>Journal of Fluorine Chemistry</i> , 2012, 144, 10-16.	1.7	21
120	An innovative gas sensor system designed from a sensitive organic semiconductor downstream a nanocarbonaceous chemical filter for selective detection of NO <sub>2</sub> in an environmental context. Part II: Interpretations of O <sub>3</sub> /nanocarbons and NO <sub>2</sub> /nanocarbons interactions. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 652-658.	7.8	11
121	Structural/textural properties and water reactivity of fluorinated activated carbons. <i>Carbon</i> , 2012, 50, 5135-5147.	10.3	27
122	Nanocarbonaceous Filters for the Achievement of Highly Sensitive and Selective NO <sub>2</sub> Monitoring by Means of Phthalocyanine-Based Resistive Sensors. <i>Procedia Engineering</i> , 2012, 47, 29-32.	1.2	3
123	The synthesis of multilayer graphene materials by the fluorination of carbon nanodiscs/nanocones. <i>Carbon</i> , 2012, 50, 3897-3908.	10.3	26
124	Tuning the discharge potential of fluorinated carbon used as electrode in primary lithium battery. <i>Electrochimica Acta</i> , 2012, 59, 485-491.	5.2	44
125	Investigation of the purity of antimony pentafluoride using <sup>19</sup> F NMR. <i>Journal of Fluorine Chemistry</i> , 2012, 134, 24-28.	1.7	5
126	Applicative performances of fluorinated carbons through fluorination routes: A review. <i>Journal of Fluorine Chemistry</i> , 2012, 134, 11-17.	1.7	67



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127	Solid State NMR study of nanodiamond surface chemistry. Solid State Nuclear Magnetic Resonance, 2011, 40, 144-154.	2.3	30
128	Physical and chemical characterizations of nanometric indigo layers as efficient ozone filter for gas sensor devices. Thin Solid Films, 2011, 520, 971-977.	1.8	12
129	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.	1.7	25
130	Tuning the electronic transport properties of graphene through functionalisation with fluorine. Nanoscale Research Letters, 2011, 6, 526.	5.7	105
131	Nanopatterning of Fluorinated Graphene by Electron Beam Irradiation. Nano Letters, 2011, 11, 3912-3916.	9.1	175
132	Friction Properties of Fluorinated Carbon Nanodiscs and Nanocones. Tribology Letters, 2011, 41, 353-362.	2.6	15
133	Stabilization of Th <sup>3+</sup> ions into mixed-valence thorium fluoride. Journal of Solid State Chemistry, 2011, 184, 220-226.	2.9	4
134	Modification of ultra-high molecular weight polyethylene by various fluorinating routes. Journal of Polymer Science Part A, 2011, 49, 3559-3573.	2.3	47
135	The synthesis of microporous carbon by the fluorination of titanium carbide. Carbon, 2011, 49, 2998-3009.	10.3	22
136	The effect of nanostructure on the thermal properties of fluorinated carbon nanofibres. Carbon, 2011, 49, 4801-4811.	10.3	16
137	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
138	Fluorinated nanocarbons using fluorinating agent: Strategies of fluorination and applications. European Physical Journal B, 2010, 75, 133-139.	1.5	15
139	Carbons prepared from coffee grounds by H <sub>3</sub> PO <sub>4</sub> activation: Characterization and adsorption of methylene blue and Nylosan Red N-2RBL. Journal of Hazardous Materials, 2010, 175, 779-788.	12.4	230
140	Comparison of yttrium polyphosphate Y(PO <sub>3</sub> ) <sub>3</sub> prepared by sol-gel process and solid state synthesis. Journal of Sol-Gel Science and Technology, 2010, 55, 41-51.	2.4	17
141	Tribological Properties of Room Temperature Fluorinated Graphite Heat-Treated Under Fluorine Atmosphere. Tribology Letters, 2010, 37, 31-41.	2.6	14
142	New synthesis methods for fluorinated carbon nanofibres and applications. Journal of Fluorine Chemistry, 2010, 131, 676-683.	1.7	34
143	All-organic device with integrated chemical filter dedicated to the selective measurement of NO <sub>2</sub> in air. Organic Electronics, 2010, 11, 1223-1229.	2.6	30
144	Fluorination of silicon carbide thin films using pure F <sub>2</sub> gas or XeF <sub>2</sub> . Thin Solid Films, 2010, 518, 6746-6751.	1.8	25

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145	Electron properties of fluorinated single-layer graphene transistors. <i>Physical Review B</i> , 2010, 82, .	3.2	322
146	Pseudotetragonal Structure of $\text{Li}_{2+x}\text{Ce}_{3+x}\text{Ce}_{12}\text{F}_{40}$ : The First Mixed Valence Cerium Fluoride. <i>Inorganic Chemistry</i> , 2010, 49, 686-694.	1.05	12
147	Effect of curvature on C–F bonding in fluorinated carbons: from fullerene and derivatives to graphite. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1388-1398.	2.8	102
148	Modifications induced by acetylacetone in properties of sol-gel derived $\text{Y}_3\text{Al}_5\text{O}_{12}$ : structural and morphological organizations. <i>Dalton Transactions</i> , 2010, 39, 8706.	3.3	18
149	Direct Fluorination of Carbon Nanocones and Nanodiscs. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 4496-4501.	0.9	11
150	Tribological Properties of Fluorinated Carbon Nanofibres. <i>Tribology Letters</i> , 2009, 34, 49-59.	2.6	27
151	Structural and Optical Investigations of Silicon Carbon Nitride Thin Films Deposited by Magnetron Sputtering. <i>Plasma Processes and Polymers</i> , 2009, 6, S11.	3.0	22
152	Electrochemical formation of carbon nano-powders with various porosities in molten alkali carbonates. <i>Electrochimica Acta</i> , 2009, 54, 4566-4573.	5.2	110
153	Study of the fluorination of carbon anode in molten $\text{KF}\cdot 2\text{HF}$ by XPS and NMR investigations. <i>Journal of Fluorine Chemistry</i> , 2009, 130, 1080-1085.	1.7	31
154	Protection of nuclear graphite toward fluoride molten salt by glassy carbon deposit. <i>Journal of Nuclear Materials</i> , 2009, 384, 292-302.	2.7	48
155	An unusual weak bonding mode of fluorine to single-walled carbon nanotubes. <i>Carbon</i> , 2009, 47, 2557-2562.	10.3	18
156	Effect of graphitization on fluorination of carbon nanocones and nanodiscs. <i>Carbon</i> , 2009, 47, 2763-2775.	10.3	40
157	Fabrication and characterization of fluorinated single-walled carbon nanotubes. <i>Nanotechnologies in Russia</i> , 2009, 4, 60-78.	0.7	23
158	Solid-State NMR Study of Nanodiamonds Produced by the Detonation Technique. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10371-10378.	3.1	70
159	Solid-state NMR and EPR study of fluorinated carbon nanofibers. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1915-1924.	2.9	18
160	Hyperfine interaction in $\text{Zn}\cdot\text{Al}$ layered double hydroxides intercalated with conducting polymers. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 1079-1083.	4.0	7
161	Carbon nanofibres fluorinated using $\text{TbF}_4$ as fluorinating agent. Part II: Adsorption and electrochemical properties. <i>Carbon</i> , 2008, 46, 1017-1024.	10.3	26
162	Carbon nanofibres fluorinated using $\text{TbF}_4$ as fluorinating agent. Part I: Structural properties. <i>Carbon</i> , 2008, 46, 1010-1016.	10.3	41

#	ARTICLE	IF	CITATIONS
163	A study of water releases in ground (GCC) and precipitated (PCC) calcium carbonates. Journal of Physics and Chemistry of Solids, 2008, 69, 1603-1614.	4.0	6
164	Reactivity of Carbon Nanofibers with Fluorine Gas. Chemistry of Materials, 2007, 19, 161-172.	6.7	73
165	Solid-State NMR Study of the Post-Fluorination of (C <sub>2.5</sub> F) <sub>n</sub> "GIC. Journal of Physical Chemistry B, 2007, 111, 14143-14151.	2.6	87
166	Heteronuclear dipolar recoupling using Hartmannâ€“Hahn cross polarization: A probe for <sup>19</sup> Fâ€“ <sup>13</sup> C distance determination of fluorinated carbon materials. Solid State Nuclear Magnetic Resonance, 2007, 31, 131-140.	2.3	15
167	SiOxNy thin films deposited by reactive sputtering: Process study and structural characterisation. Thin Solid Films, 2007, 515, 3480-3487.	1.8	34
168	Fluorinated carbon nanofibres for high energy and high power densities primary lithium batteries. Electrochemistry Communications, 2007, 9, 1850-1855.	4.7	133
169	Magnesium batteries: Towards a first use of graphite fluorides. Journal of Power Sources, 2007, 173, 592-598.	7.8	52
170	Structural investigations of solâ€“gel-derived LiYF <sub>4</sub> and LiGdF <sub>4</sub> powders. Journal of Solid State Chemistry, 2007, 180, 3049-3057.	2.9	19
171	Direct fluorination of various poly(p-phenylene): Effects of the polymer synthesis and thermal post-treatment. Polymer, 2007, 48, 3961-3973.	3.8	9
172	Fluorination of poly(p-phenylene) using TbF <sub>4</sub> as fluorinating agent. Journal of Fluorine Chemistry, 2007, 128, 1402-1409.	1.7	5
173	Influence of the Structure of a-SiOxNy Thin Films on Their Electrical Properties. Plasma Processes and Polymers, 2007, 4, S59-S63.	3.0	6
174	Combined high resolution powder and single-crystal diffraction to determine the structure of Li <sub>1+x</sub> Ce <sub>11x</sub> Ce <sub>1V6-x</sub> F <sub>25</sub> . Zeitschrift f�r Kristallographie, Supplement, 2007, 2007, 455-460.	0.5	2
175	Origin of the highly enhanced porosity of styryl LDH hybrid-type carbon replicas and study of a subsequent fluorination at low-temperature. Journal of Materials Chemistry, 2006, 16, 4510.	6.7	30
176	EPR and Solid-State NMR Studies of Poly(dicarbon monofluoride) (C <sub>2</sub> F) <sub>n</sub> . Journal of Physical Chemistry B, 2006, 110, 11800-11808.	2.6	83
177	Electrochemical performance of low temperature fluorinated graphites used as cathode in primary lithium batteries. Carbon, 2006, 44, 2543-2548.	10.3	49
178	Electrical behaviour of SiOxNy thin films and correlation with structural defects. Applied Surface Science, 2006, 252, 5607-5610.	6.1	6
179	New layered double hydroxides intercalated with substituted pyrroles. 2. 3-(Pyrrol-1-yl)-propanoate and 7-(pyrrol-1-yl)-heptanoate LDHs. Journal of Physics and Chemistry of Solids, 2006, 67, 973-977.	4.0	8
180	Room temperature graphite fluorination process using chlorine as catalyst. Journal of Physics and Chemistry of Solids, 2006, 67, 1157-1161.	4.0	17

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181	Comparative performances for primary lithium batteries of some covalent and semi-covalent graphite fluorides. <i>Journal of Power Sources</i> , 2006, 158, 1365-1372.	7.8	65
182	Structural characterisation of a sol-gel copolymer synthesised from aliphatic and aromatic alkoxy silanes using $^{29}\text{Si}$ -NMR spectroscopy. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 38, 111-119.	2.4	23
183	Hybrid organic-inorganic materials: Layered hydroxy double salts intercalated with substituted thiophene monomers. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 978-982.	4.0	16
184	Solid state NMR studies of covalent graphite fluorides (CF) <sub>n</sub> and (C <sub>2</sub> F) <sub>n</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1100-1105.	4.0	21
185	Electrochemical discharge mechanism of fluorinated graphite used as electrode in primary lithium batteries. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1173-1177.	4.0	28
186	Tribological properties of low-temperature graphite fluorides. Influence of the structure on the lubricating performances. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 1095-1099.	4.0	35
187	Comparative Electrochemical Study of Low Temperature Fluorinated Graphites used as Cathode in Primary Lithium Batteries. <i>ECS Transactions</i> , 2006, 3, 153-163.	0.5	8
188	UV-to-red relaxation pathways in CaTiO <sub>3</sub> :Pr <sup>3+</sup> . <i>Journal of Luminescence</i> , 2005, 111, 69-80.	3.1	176
189	Direct fluorination of poly(p-phenylene). <i>Polymer</i> , 2005, 46, 6736-6745.	3.8	30
190	Structural and optical investigations of SiO <sub>x</sub> N <sub>y</sub> thin films deposited by R.F. sputtering. <i>Surface and Coatings Technology</i> , 2005, 200, 330-333.	4.8	20
191	Crystal structure of RbAl <sub>2</sub> Tb <sub>4</sub> F <sub>22</sub> : a second example of mixed-valence fluorotribate with a random distribution of Tb <sup>3+</sup> and Tb <sup>4+</sup> ions. <i>Solid State Sciences</i> , 2005, 7, 89-96.	3.2	3
192	Highly fluorinated graphite prepared from graphite fluoride formed using BF <sub>3</sub> catalyst. <i>Journal of Fluorine Chemistry</i> , 2005, 126, 1078-1087.	1.7	37
193	Solid-state $^{19}\text{F}$ and $^{13}\text{C}$ NMR of room temperature fluorinated graphite and samples thermally treated under fluorine: Low-field and high-resolution studies. <i>Journal of Solid State Chemistry</i> , 2005, 178, 1262-1268.	2.9	40
194	Anti-KSbF <sub>6</sub> structure of CaTbF <sub>6</sub> and CdTbF <sub>6</sub> : a confirmation of the singular crystal chemistry of Tb <sup>4+</sup> in fluorides. <i>Acta Crystallographica Section B: Structural Science</i> , 2005, 61, 1-10.	1.8	8
195	Solid-State NMR ( $^{19}\text{F}$ and $^{13}\text{C}$ ) Study of Graphite Monofluoride (CF) <sub>n</sub> : $^{19}\text{F}$ Spin Lattice Magnetic Relaxation and $^{19}\text{F}/^{13}\text{C}$ Distance Determination by Hartmann-Hahn Cross Polarization. <i>Journal of Physical Chemistry B</i> , 2005, 109, 175-181.	2.6	66
196	In Situ Polymerization of Aniline Sulfonic Acid Derivatives into LDH Interlamellar Space Probed by ESR and Electrochemical Studies. <i>Chemistry of Materials</i> , 2005, 17, 373-382.	6.7	33
197	Fluorine-intercalated graphite for lithium batteries. , 2005, , 369-395.		11
198	Magnetism of Tb <sup>4+</sup> ion in fluorides: correlation with crystal-structure. <i>Physica B: Condensed Matter</i> , 2004, 350, E43-E45.	2.7	5

#	ARTICLE	IF	CITATIONS
199	Characterization by electron spin resonance of defects in a-C:H thin films. Correlation between structural evolutions and optical properties. <i>Surface and Coatings Technology</i> , 2004, 180-181, 227-233.	4.8	5
200	Mixed-valence induced during the intercalation of lithium ions into uranium fluorides. <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 591-596.	4.0	0
201	Electrochemical impedance spectroscopy and electron spin resonance characterization of the conductive state of paraxiphenylene electrochemically intercalated with sodium. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004, 60, 1831-1838.	3.9	2
202	NMR and EPR studies of room temperature highly fluorinated graphite heat-treated under fluorine atmosphere. <i>Carbon</i> , 2004, 42, 1931-1940.	10.3	83
203	Synthesis and Characterization of Highly Fluorinated Graphite Containing sp <sup>2</sup> and sp <sup>3</sup> Carbon. <i>Chemistry of Materials</i> , 2004, 16, 1786-1792.	6.7	150
204	Structural and mechanical properties of a-C:H thin films grown by RF-PECVD. <i>Diamond and Related Materials</i> , 2004, 13, 1618-1624.	3.9	41
205	Synthesis and crystal structures of new mixed-valence terbium (III/IV) fluorides with a random distribution between Tb <sup>3+</sup> and Tb <sup>4+</sup> . <i>Journal of Alloys and Compounds</i> , 2004, 374, 213-218.	5.5	11
206	Neutron diffraction study of the magnetic structures of one-dimensional M <sub>2</sub> TbF <sub>6</sub> (M=Li,K,Rb) fluorides: frustration, incommensurability and magnetic interactions. <i>Journal of Alloys and Compounds</i> , 2004, 374, 207-212.	5.5	4
207	Synthesis and crystal structure of Rb <sub>2</sub> AlTb <sub>3</sub> F <sub>16</sub> : a new mixed-valence terbium fluoride. <i>Solid State Sciences</i> , 2003, 5, 1141-1148.	3.2	11
208	Modifying the electronic properties of multi-wall carbon nanotubes via charge transfer, by chemical doping with some inorganic fluorides. <i>Chemical Physics Letters</i> , 2003, 381, 306-314.	2.6	12
209	Electrochemical insertion of lithium ions into disordered carbons derived from reduced graphite fluoride. <i>Carbon</i> , 2003, 41, 453-463.	10.3	39
210	Solid state intercalation of barium into poly(para-phenylene): TEM, EELS and ESR characterizations. <i>Polymer</i> , 2003, 44, 801-805.	3.8	1
211	Raman spectroelectrochemical study of sodium intercalation into poly(p-phenylene). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003, 59, 1849-1856.	3.9	10
212	In situ polymerisation of monomers in layered double hydroxides. <i>Comptes Rendus Chimie</i> , 2003, 6, 259-264.	0.5	15
213	Multifunctional Materials: 2D constrained Electronically Conductive Polymer into LDH Matrix. <i>Materials Research Society Symposia Proceedings</i> , 2002, 726, 1.	0.1	0
214	Role of Atmospheric Oxygen for the Polymerization of Interleaved Aniline Sulfonic Acid in LDH. <i>Chemistry of Materials</i> , 2002, 14, 3799-3807.	6.7	55
215	X-Ray diffraction characterization of paraxiphenylene intercalated electrochemically with sodium. <i>Solid State Communications</i> , 2002, 122, 613-618.	1.9	3
216	Electrochemical impedance spectroscopic study of the intercalation of lithium and sodium ions into polyparaphenylene in carbonate-based electrolytes. <i>Electrochimica Acta</i> , 2002, 47, 4459-4466.	5.2	16

#	ARTICLE	IF	CITATIONS
217	Electrochemical insertion of alkaline ions into polyparaphenylene: effect of the crystalline structure of the host material. <i>Electrochimica Acta</i> , 2001, 46, 4301-4307.	5.2	21
218	Characterisation of carbonaceous materials derived from polyparaphenylene pyrolyzed at low temperature. <i>Carbon</i> , 2000, 38, 1411-1417.	10.3	25
219	Electrochemical Insertion of Lithium into Carbonaceous Materials Derived from Pyrolyzed Polyparaphenylene : Effects of the Pyrolysis Time. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 340, 211-216.	0.3	1
220	Electron spin resonance in lithium and sodium electrochemically intercalated poly(paraphenylene). <i>Solid State Communications</i> , 1999, 111, 571-576.	1.9	6
221	Comparative studies of the electrointercalation of sodium ions into polyparaphenylene and paraseixiphenyle. <i>Synthetic Metals</i> , 1999, 102, 1416.	3.9	0
222	Effects of the electrolyte composition on the electrochemical intercalation of lithium ions into polyparaphenylene. <i>Electrochimica Acta</i> , 1998, 44, 805-812.	5.2	6
223	para-Sexiphenylene as a model compound of poly(para-phenylene) during the electrochemical intercalation of lithium and sodium ions in ethylene carbonate-based electrolyte. <i>Synthetic Metals</i> , 1998, 97, 217-222.	3.9	6
224	Electroreduction of Polyparaphenylene in LiClO <sub>4</sub> -Ethylene Carbonate Electrolyte. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 310, 347-352.	0.3	1
225	Utilisation de polyparaphénylènes dégradés thermiquement comme matériaux anodiques de générateurs électrochimiques secondaires à ions lithium. <i>Journal De Chimie Physique Et De Physico-Chimie Biologique</i> , 1998, 95, 1518-1521.	0.2	1
226	Electrochemical intercalation of sodium ions into poly(para-phenylene) in carbonate-based electrolytes. <i>Synthetic Metals</i> , 1997, 90, 127-134.	3.9	20