Marc Dubois

List of Publications by Year
in descending order

226 papers	6,247 citations	81839 39 h-index	98753 67 g-index
226 all docs	226 docs citations	226 times ranked	6215 citing authors

#	Article	IF	Citations
1	Electron properties of fluorinated single-layer graphene transistors. Physical Review B, 2010, 82, .	1.1	322
2	Carbons prepared from coffee grounds by H3PO4 activation: Characterization and adsorption of methylene blue and Nylosan Red N-2RBL. Journal of Hazardous Materials, 2010, 175, 779-788.	6.5	230
3	Accessing the exceptional points of parity-time symmetric acoustics. Nature Communications, 2016, 7, 11110.	5.8	229
4	High-speed acoustic communication by multiplexing orbital angular momentum. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7250-7253.	3.3	220
5	UV-to-red relaxation pathways in CaTiO3:Pr3+. Journal of Luminescence, 2005, 111, 69-80.	1.5	176
6	Nanopatterning of Fluorinated Graphene by Electron Beam Irradiation. Nano Letters, 2011, 11, 3912-3916.	4.5	175
7	Synthesis and Characterization of Highly Fluorinated Graphite Containing sp2 and sp3 Carbon. Chemistry of Materials, 2004, 16, 1786-1792.	3.2	150
8	Fluorinated carbon nanofibres for high energy and high power densities primary lithium batteries. Electrochemistry Communications, 2007, 9, 1850-1855.	2.3	133
9	Observation of acoustic Dirac-like cone and double zero refractive index. Nature Communications, 2017, 8, 14871.	5.8	123
10	Electrochemical formation of carbon nano-powders with various porosities in molten alkali carbonates. Electrochimica Acta, 2009, 54, 4566-4573.	2.6	110
11	Tuning the electronic transport properties of graphene through functionalisation with fluorine. Nanoscale Research Letters, 2011, 6, 526.	3.1	105
12	Effect of curvature on Câ€“F bonding in fluorinated carbons: from fullerene and derivatives to graphite. Physical Chemistry Chemical Physics, 2010, 12, 1388-1398.	1.3	102
13	Solid-State NMR Study of the Post-Fluorination of (C_{2.5}F)_n Fluorineâ“GIC. Journal of Physical Chemistry B, 2007, 111, 14143-14151.	1.2	87
14	NMR and EPR studies of room temperature highly fluorinated graphite heat-treated under fluorine atmosphere. Carbon, 2004, 42, 1931-1940.	5.4	83
15	EPR and Solid-State NMR Studies of Poly(dicarbon monofluoride) (C2F)n. Journal of Physical Chemistry B, 2006, 110, 11800-11808.	1.2	83
16	Flat lens for pulse focusing of elastic waves in thin plates. Applied Physics Letters, 2013, 103, .	1.5	82
17	Reactivity of Carbon Nanofibers with Fluorine Gas. Chemistry of Materials, 2007, 19, 161-172.	3.2	73
18	Solid-State NMR Study of Nanodiamonds Produced by the Detonation Technique. Journal of Physical Chemistry C, 2009, 113, 10371-10378.	1.5	70

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19	Strategies for Engineering Highâ€Performance PGMâ€Free Catalysts toward Oxygen Reduction and Evolution Reactions. Small Methods, 2020, 4, 2000016.	4.6	70
20	Applicative performances of fluorinated carbons through fluorination routes: A review. Journal of Fluorine Chemistry, 2012, 134, 11-17.	0.9	67
21	Solid-State NMR (19F and13C) Study of Graphite Monofluoride (CF)n:Â19F Spinâ^'Lattice Magnetic Relaxation and19F/13C Distance Determination by Hartmannâ^'Hahn Cross Polarization. Journal of Physical Chemistry B, 2005, 109, 175-181.	1.2	66
22	Non-PGM electrocatalysts for PEM fuel cells: effect of fluorination on the activity and stability of a highly active NC_Ar + NH₃ catalyst. Energy and Environmental Science, 2019, 12, 3015-3037.	15.6	66
23	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
24	A thin and conformal metasurface for illusion acoustics of rapidly changing profiles. Applied Physics Letters, 2017, 110, .	1.5	65
25	Graphene nanochains and nanoislands in the layers of room-temperature fluorinated graphite. Carbon, 2013, 59, 518-529.	5.4	57
26	Pushing the theoretical limit of Liâ€“CFx batteries using fluorinated nanostructured carbon nanodiscs. Carbon, 2015, 94, 1061-1070.	5.4	57
27	Comparative Study of SWCNT Fluorination by Atomic and Molecular Fluorine. Chemistry of Materials, 2012, 24, 1744-1751.	3.2	56
28	Role of Atmospheric Oxygen for the Polymerization of Interleaved Aniline Sulfonic Acid in LDH. Chemistry of Materials, 2002, 14, 3799-3807.	3.2	55
29	Magnesium batteries: Towards a first use of graphite fluorides. Journal of Power Sources, 2007, 173, 592-598.	4.0	52
30	Enhanced performances in primary lithium batteries of fluorinated carbon nanofibers through static fluorination. Electrochimica Acta, 2013, 114, 142-151.	2.6	50
31	Electrochemical performance of low temperature fluorinated graphites used as cathode in primary lithium batteries. Carbon, 2006, 44, 2543-2548.	5.4	49
32	Protection of nuclear graphite toward fluoride molten salt by glassy carbon deposit. Journal of Nuclear Materials, 2009, 384, 292-302.	1.3	48
33	Modification of ultraâ€highâ€molecular weight polyethylene by various fluorinating routes. Journal of Polymer Science Part A, 2011, 49, 3559-3573.	2.5	47
34	Thermal exfoliation of fluorinated graphite. Carbon, 2014, 77, 688-704.	5.4	46
35	Tuning the discharge potential of fluorinated carbon used as electrode in primary lithium battery. Electrochimica Acta, 2012, 59, 485-491.	2.6	44
36	Structural and mechanical properties of a-C:H thin films grown by RF-PECVD. Diamond and Related Materials, 2004, 13, 1618-1624.	1.8	41

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37	Carbon nanofibres fluorinated using TbF4 as fluorinating agent. Part I: Structural properties. Carbon, 2008, 46, 1010-1016.	5.4	41
38	Time-Driven Superoscillations with Negative Refraction. Physical Review Letters, 2015, 114, 013902.	2.9	41
39	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
40	Effect of graphitization on fluorination of carbon nanocones and nanodiscs. Carbon, 2009, 47, 2763-2775.	5.4	40
41	NMR and NEXAFS Study of Various Graphite Fluorides. Journal of Physical Chemistry C, 2013, 117, 13564-13572.	1.5	40
42	Electrochemical insertion of lithium ions into disordered carbons derived from reduced graphite fluoride. Carbon, 2003, 41, 453-463.	5.4	39
43	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
44	Highly fluorinated graphite prepared from graphite fluoride formed using BF3 catalyst. Journal of Fluorine Chemistry, 2005, 126, 1078-1087.	0.9	37
45	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
46	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
47	SiOxNy thin films deposited by reactive sputtering: Process study and structural characterisation. Thin Solid Films, 2007, 515, 3480-3487.	0.8	34
48	New synthesis methods for fluorinated carbon nanofibres and applications. Journal of Fluorine Chemistry, 2010, 131, 676-683.	0.9	34
49	Fluorinated nanodiamonds as unique neutron reflector. Carbon, 2018, 130, 799-805.	5.4	34
50	In Situ Polymerization of Aniline Sulfonic Acid Derivatives into LDH Interlamellar Space Probed by ESR and Electrochemical Studies. Chemistry of Materials, 2005, 17, 373-382.	3.2	33
51	Improvement of wood polymer composite mechanical properties by direct fluorination. Materials & Design, 2015, 74, 61-66.	5.1	33
52	Chlorinated holey double-walled carbon nanotubes for relative humidity sensors. Carbon, 2019, 148, 413-420.	5.4	33
53	Enhancement of surface properties on commercial polymer packaging films using various surface treatment processes (fluorination and plasma). Applied Surface Science, 2014, 315, 426-431.	3.1	32
54	Study of the fluorination of carbon anode in molten KF-2HF by XPS and NMR investigations. Journal of Fluorine Chemistry, 2009, 130, 1080-1085.	0.9	31

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55	Direct fluorination applied to wood flour used as a reinforcement for polymers. Carbohydrate Polymers, 2013, 94, 642-646.	5.1	31
56	Comparison of the surface modifications of polymers induced by direct fluorination and rf-plasma using fluorinated gases. Journal of Fluorine Chemistry, 2014, 165, 49-60.	0.9	31
57	Fluorinated (Nano)Carbons: CF_x Electrodes and CF_xâ€Based Batteries. Energy Technology, 2021, 9, 2000605.	1.8	31
58	Direct fluorination of poly(p-phenylene). Polymer, 2005, 46, 6736-6745.	1.8	30
59	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
60	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
61	Solid State NMR study of nanodiamond surface chemistry. Solid State Nuclear Magnetic Resonance, 2011, 40, 144-154.	1.5	30
62	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
63	Tribological Properties of Fluorinated Carbon Nanofibres. Tribology Letters, 2009, 34, 49-59.	1.2	27
64	Structural/textural properties and water reactivity of fluorinated activated carbons. Carbon, 2012, 50, 5135-5147.	5.4	27
65	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
66	Carbon nanofibres fluorinated using TbF4 as fluorinating agent. Part II: Adsorption and electrochemical properties. Carbon, 2008, 46, 1017-1024.	5.4	26
67	The synthesis of multilayer graphene materials by the fluorination of carbon nanodiscs/nanocones. Carbon, 2012, 50, 3897-3908.	5.4	26
68	Surface modification of low-density polyethylene packaging film via direct fluorination. Surface and Coatings Technology, 2016, 292, 144-154.	2.2	26
69	Emergence of an enslaved phononic bandgap in a non-equilibrium pseudo-crystal. Nature Materials, 2017, 16, 808-813.	13.3	26
70	Liquid-phase exfoliation of F-diamane-like nanosheets. Carbon, 2021, 175, 124-130.	5.4	26
71	Characterisation of carbonaceous materials derived from polyparaphenylene pyrolyzed at low temperature. Carbon, 2000, 38, 1411-1417.	5.4	25
72	Fluorination of silicon carbide thin films using pure F2 gas or XeF2. Thin Solid Films, 2010, 518, 6746-6751.	0.8	25

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73	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
74	Tuning the transport gap of functionalized graphene via electron beam irradiation. New Journal of Physics, 2013, 15, 033024.	1.2	25
75	Kerker Effect in Ultrahigh-Field Magnetic Resonance Imaging. Physical Review X, 2018, 8, .	2.8	24
76	Structural characterisation of a sol-gel copolymer synthesised from aliphatic and aromatic alkoxysilanes using 29Si-NMR spectroscopy. Journal of Sol-Gel Science and Technology, 2006, 38, 111-119.	1.1	23
77	Fabrication and characterization of fluorinated single-walled carbon nanotubes. Nanotechnologies in Russia, 2009, 4, 60-78.	0.7	23
78	Large-scale synthesis of fluorinated graphene by rapid thermal exfoliation of highly fluorinated graphite. Dalton Transactions, 2018, 47, 4596-4606.	1.6	23
79	Structural and Optical Investigations of Silicon Carbon Nitride Thin Films Deposited by Magnetron Sputtering. Plasma Processes and Polymers, 2009, 6, S11.	1.6	22
80	The synthesis of microporous carbon by the fluorination of titanium carbide. Carbon, 2011, 49, 2998-3009.	5.4	22
81	Experiments on Maxwell's fish-eye dynamics in elastic plates. Applied Physics Letters, 2015, 106, .	1.5	22
82	Insights on the reactivity of ordered porous carbons exposed to different fluorinating agents and conditions. Carbon, 2015, 84, 567-583.	5.4	22
83	Effect of nanodiamond fluorination on the efficiency of quasispecular reflection of cold neutrons. Physical Review A, 2018, 97, .	1.0	22
84	From hydrophilic to hydrophobic wood using direct fluorination: A localized treatment. Comptes Rendus Chimie, 2018, 21, 800-807.	0.2	22
85	Direct Imaging of the Energy-Transfer Enhancement between Two Dipoles in a Photonic Cavity. Physical Review X, 2019, 9, .	2.8	22
86	Tuning fluorine and oxygen distribution in graphite oxifluorides for enhanced performances in primary lithium battery. Carbon, 2019, 141, 6-15.	5.4	22
87	Electrochemical insertion of alkaline ions into polyparaphenylene: effect of the crystalline structure of the host material. Electrochimica Acta, 2001, 46, 4301-4307.	2.6	21
88	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
89	Tribological properties of fluorinated nanocarbons with different shape factors. Journal of Fluorine Chemistry, 2012, 144, 10-16.	0.9	21
90	Enhanced anti-graffiti or adhesion properties of polymers using versatile combination of fluorination and polymer grafting. Progress in Organic Coatings, 2015, 88, 127-136.	1.9	21

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91	Electrochemical intercalation of sodium ions into poly(para-phenylene) in carbonate-based electrolytes. Synthetic Metals, 1997, 90, 127-134.	2.1	20
92	Structural and optical investigations of SiOxNy thin films deposited by R.F. sputtering. Surface and Coatings Technology, 2005, 200, 330-333.	2.2	20
93	Experimental and DFT high pressure study of fluorinated graphite (C2F)n. Carbon, 2017, 114, 690-699.	5.4	20
94	Structural investigations of solâ€“gel-derived LiYF4 and LiGdF4 powders. Journal of Solid State Chemistry, 2007, 180, 3049-3057.	1.4	19
95	Fluorinated exfoliated graphite as cathode materials for enhanced performances in primary lithium battery. Electrochimica Acta, 2017, 227, 18-23.	2.6	19
96	Fluorination renders the wood surface hydrophobic without any loss of physical and mechanical properties. Industrial Crops and Products, 2019, 133, 133-141.	2.5	19
97	C F bonding in fluorinated N-Doped carbons. Applied Surface Science, 2022, 577, 151721.	3.1	19
98	Solid-state NMR and EPR study of fluorinated carbon nanofibers. Journal of Solid State Chemistry, 2008, 181, 1915-1924.	1.4	18
99	An unusual weak bonding mode of fluorine to single-walled carbon nanotubes. Carbon, 2009, 47, 2557-2562.	5.4	18
100	Modifications induced by acetylacetone in properties of solâ€“gel derived Y3Al5O12â€‰:â€‰Tb3+â€“ I: structural and morphological organizations. Dalton Transactions, 2010, 39, 8706.	1.6	18
101	How to decrease the hydrophilicity of wood flour to process efficient composite materials. Applied Surface Science, 2015, 353, 1234-1241.	3.1	18
102	Superhydrophobicity of polymer films via fluorine atoms covalent attachment and surface nano-texturing. Journal of Fluorine Chemistry, 2017, 200, 123-132.	0.9	18
103	Structural and electronic changes in graphite fluorides as a function of fluorination rate: An XRS, PDF and DFT study. Carbon, 2019, 147, 1-8.	5.4	18
104	Room temperature graphite fluorination process using chlorine as catalyst. Journal of Physics and Chemistry of Solids, 2006, 67, 1157-1161.	1.9	17
105	Comparison of yttrium polyphosphate Y(PO3)3 prepared by solâ€“gel process and solid state synthesis. Journal of Sol-Gel Science and Technology, 2010, 55, 41-51.	1.1	17
106	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
107	One Single Static Measurement Predicts Wave Localization in Complex Structures. Physical Review Letters, 2016, 117, 074301.	2.9	17
108	Electrochemical oxidation of graphite in aqueous hydrofluoric acid solution at high current densities. Journal of Fluorine Chemistry, 2016, 185, 36-41.	0.9	17

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109	Systematic Analysis of the Improvements in Magnetic Resonance Microscopy with Ferroelectric Composite Ceramics. Advanced Materials, 2019, 31, e1900912.	11.1	17
110	Electrochemical impedance spectroscopic study of the intercalation of lithium and sodium ions into polyparaphenylene in carbonate-based electrolytes. Electrochimica Acta, 2002, 47, 4459-4466.	2.6	16
111	Hybrid organicâ€“inorganic materials: Layered hydroxy double salts intercalated with substituted thiophene monomers. Journal of Physics and Chemistry of Solids, 2006, 67, 978-982.	1.9	16
112	The effect of nanostructure on the thermal properties of fluorinated carbon nanofibres. Carbon, 2011, 49, 4801-4811.	5.4	16
113	Comparative NEXAFS, NMR, and FTIR Study of Various-Sized Nanodiamonds: As-Prepared and Fluorinated. Journal of Physical Chemistry C, 2015, 119, 835-844.	1.5	16
114	Enhancement of surface properties on Low Density Polyethylene packaging films using various fluorination routes. European Polymer Journal, 2015, 66, 18-32.	2.6	16
115	High energy primary lithium battery using oxidized sub-fluorinated graphite fluorides. Journal of Fluorine Chemistry, 2019, 227, 109369.	0.9	16
116	A review about the fluorination and oxyfluorination of carbon fibres. Journal of Fluorine Chemistry, 2021, 251, 109887.	0.9	16
117	In situ polymerisation of monomers in layered double hydroxides. Comptes Rendus Chimie, 2003, 6, 259-264.	0.2	15
118	Heteronuclear dipolar recoupling using Hartmannâ€“Hahn cross polarization: A probe for 19Fâ€“13C distance determination of fluorinated carbon materials. Solid State Nuclear Magnetic Resonance, 2007, 31, 131-140.	1.5	15
119	Fluorinated nanocarbons using fluorinating agent: Strategies of fluorination and applications. European Physical Journal B, 2010, 75, 133-139.	0.6	15
120	Friction Properties of Fluorinated Carbon Nanodiscs and Nanocones. Tribology Letters, 2011, 41, 353-362.	1.2	15
121	Carbon in lithium-ion and post-lithium-ion batteries: Recent features. Synthetic Metals, 2021, 280, 116864.	2.1	15
122	Tribological Properties of Room Temperature Fluorinated Graphite Heat-Treated Under Fluorine Atmosphere. Tribology Letters, 2010, 37, 31-41.	1.2	14
123	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
124	The effect of lignin on the reactivity of natural fibres towards molecular fluorine. Materials and Design, 2017, 120, 66-74.	3.3	13
125	Preparation and Applications of Fluorinated Graphenes. Journal of Carbon Research, 2021, 7, 20.	1.4	13
126	Modifying the electronic properties of multi-wall carbon nanotubes via charge transfer, by chemical doping with some inorganic fluorides. Chemical Physics Letters, 2003, 381, 306-314.	1.2	12

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127	Pseudotetragonal Structure of Li_{2+x}Ce_x³⁺Ce_{12â^'x}⁴⁺F₅₀: The First Mixed Valence Cerium Fluoride. Inorganic Chemistry, 2010, 49, 686-694.	4.9	12
128	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
129	Superhydrophocity via gas-phase monomers grafting onto carbon nanotubes. Progress in Surface Science, 2016, 91, 57-71.	3.8	12
130	Fluorine-graphite intercalation compound (C4F)n at high pressure: Experimental and theoretical study. Carbon, 2018, 127, 384-391.	5.4	12
131	Acoustic flat lensing using an indefinite medium. Physical Review B, 2019, 99, .	1.1	12
132	Wireless coils based on resonant and nonresonant coupledâ€wire structure for small animal multinuclear imaging. NMR in Biomedicine, 2019, 32, e4079.	1.6	12
133	Synthesis and crystal structure of Rb2AlTb3F16: a new mixed-valence terbium fluoride. Solid State Sciences, 2003, 5, 1141-1148.	1.5	11
134	Synthesis and crystal structures of new mixed-valence terbium (III/IV) fluorides with a random distribution between Tb3+ and Tb4+. Journal of Alloys and Compounds, 2004, 374, 213-218.	2.8	11
135	Fluorine-intercalated graphite for lithium batteries. , 2005, , 369-395.		11
136	Direct Fluorination of Carbon Nanocones and Nanodiscs. Journal of Nanoscience and Nanotechnology, 2009, 9, 4496-4501.	0.9	11
137	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
138	Directional excitation without breaking reciprocity. New Journal of Physics, 2016, 18, 095001.	1.2	11
139	Atomic Layer Fluorination of the Li₄Ti₅O₁₂ Surface: A Multiprobing Survey. ACS Applied Energy Materials, 2019, 2, 6681-6692.	2.5	11
140	Fluorocarbon Gas Exposure Induces Disaggregation of Nanodiamond Clusters and Enhanced Adsorption, Enabling Medical Microbubble Formation. ACS Applied Nano Materials, 2020, 3, 8897-8905.	2.4	11
141	Raman spectroelectrochemical study of sodium intercalation into poly(p-phenylene). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 1849-1856.	2.0	10
142	Dual C F bonding in fluorinated exfoliated graphite. Journal of Fluorine Chemistry, 2015, 174, 36-41.	0.9	10
143	A universal fluorous technology toward superhydrophobic coatings. Journal of Colloid and Interface Science, 2019, 553, 778-787.	5.0	10
144	Direct fluorination of various poly(p-phenylene): Effects of the polymer synthesis and thermal post-treatment. Polymer, 2007, 48, 3961-3973.	1.8	9

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145	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
146	Fluorination/Torrefaction Combination to Further Improve the Hydrophobicity of Wood. Macromolecular Chemistry and Physics, 2019, 220, 1900041.	1.1	9
147	Favorable Intercalation of Nitrate Ions with Fluorine-Substituted Layered Double Hydroxides. Inorganic Chemistry, 2020, 59, 1602-1610.	1.9	9
148	Surface modification of sized vegetal fibers through direct fluorination for eco-composites. Journal of Fluorine Chemistry, 2020, 238, 109618.	0.9	9
149	Anti-KSbF6 structure of CaTbF6 and CdTbF6: a confirmation of the singular crystal chemistry of Tb4+ in fluorides. Acta Crystallographica Section B: Structural Science, 2005, 61, 1-10.	1.8	8
150	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.	1.9	8
151	Comparative Electrochemical Study of Low Temperature Fluorinated Graphites used as Cathode in Primary Lithium Batteries. ECS Transactions, 2006, 3, 153-163.	0.3	8
152	A carbonaceous chemical filter for the selective detection of NO2 in the environment. Carbon, 2013, 52, 17-29.	5.4	8
153	Efficient Fluorinating Agent through Topochemical Fluorination of Coâ€“Fe Layered Double Hydroxides. Inorganic Chemistry, 2014, 53, 852-860.	1.9	8
154	Tunable hydrophylicity/hydrophobicity of fluorinated carbon nanotubes via graft polymerization of gaseous monomers. Journal of Fluorine Chemistry, 2015, 178, 279-285.	0.9	8
155	Fluorination of carbon fibre sizing without mechanical or chemical loss of the fibre. Applied Surface Science, 2020, 534, 147647.	3.1	8
156	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.	1.6	8
157	A Semi-Analytical Model of High-Permittivity Dielectric Ring Resonators for Magnetic Resonance Imaging. IEEE Transactions on Antennas and Propagation, 2020, 68, 6317-6329.	3.1	8
158	Hyperfine interaction in Znâ€“Al layered double hydroxides intercalated with conducting polymers. Journal of Physics and Chemistry of Solids, 2008, 69, 1079-1083.	1.9	7
159	Improved selectivity towards NO2 of phthalocyanine-based chemosensors by means of original indigo/nanocarbons hybrid material. Talanta, 2014, 127, 100-107.	2.9	7
160	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
161	Reply to the â€˜Comment on â€œNon-PGM electrocatalysts for PEM fuel cells: effect of fluorination on the activity and stability of a highly active NC_Ar + NH₃ catalystâ€â€™ by Xi Yin, Edward F. Holby and Piotr Zelenay, Energy Environ. Sci., 10.1039/D0EE02069A. Energy and Environmental Science, 2021, 14, 1034-1041.	15.6	7
162	Effects of the electrolyte composition on the electrochemical intercalation of lithium ions into polyparaphenylene. Electrochimica Acta, 1998, 44, 805-812.	2.6	6

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163	para-Sexiphenylene as a model compound of poly(para-phenylene) during the electrochemical intercalation of lithium and sodium ions in ethylene carbonate-based electrolyte. Synthetic Metals, 1998, 97, 217-222.	2.1	6
164	Electron spin resonance in lithium and sodium electrochemically intercalated poly(paraphenylene). Solid State Communications, 1999, 111, 571-576.	0.9	6
165	Electrical behaviour of SiOxNy thin films and correlation with structural defects. Applied Surface Science, 2006, 252, 5607-5610.	3.1	6
166	Influence of the Structure of a-SiOxNy Thin Films on Their Electrical Properties. Plasma Processes and Polymers, 2007, 4, S59-S63.	1.6	6
167	A study of water releases in ground (GCC) and precipitated (PCC) calcium carbonates. Journal of Physics and Chemistry of Solids, 2008, 69, 1603-1614.	1.9	6
168	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
169	Friction Properties of Fluorinated Graphitized Carbon Blacks. Tribology Letters, 2014, 56, 259-271.	1.2	6
170	Plasma and fluorination combination for stable multifunctionality of LDPE packaging films. Plasma Processes and Polymers, 2017, 14, 1600066.	1.6	6
171	Advances in tailoring the water content in porous carbon aerogels using RT-pulsed fluorination. Journal of Fluorine Chemistry, 2020, 238, 109633.	0.9	6
172	Tuning Câ€“F Bonding of Graphite Fluoride by Applying High Pressure: Experimental and Theoretical Study. Journal of Physical Chemistry C, 2020, 124, 24747-24755.	1.5	6
173	A Multitechnique Study of Fluorinated Nanodiamonds for Low-Energy Neutron Physics Applications. Journal of Physical Chemistry C, 2020, 124, 14229-14236.	1.5	6
174	Magnetism of Tb4+ ion in fluorides: correlation with crystal-structure. Physica B: Condensed Matter, 2004, 350, E43-E45.	1.3	5
175	Characterization by electron spin resonance of defects in a-C:H thin films. Correlation between structural evolutions and optical properties. Surface and Coatings Technology, 2004, 180-181, 227-233.	2.2	5
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