Jean-NoÃ«l Rouzaud

List of Publications by Year
in descending order

105 papers	9,926 citations	34105 52 h-index	34986 98 g-index
105 all docs	105 docs citations	105 times ranked	10075 citing authors

#	Article	IF	Citations
1	Traces of fire in a 560,000-year-old occupation soil at Caune de lâ€™Arago: response to the article by Professor Henry de Lumley. Comptes Rendus - Geoscience, 2022, 354, 47-50.	1.2	0
2	Search for early traces of fire in the Caune de lâ€™Arago at Tautavel (Eastern Pyrenees, France), combining magnetic susceptibility measurements, microscopic observations, and Raman analysis. Comptes Rendus - Geoscience, 2021, 353, 247-264.	1.2	8
3	Temperatures reached by the roof structure of Notre-Dame de Paris in the fire of April 15th 2019 determined by Raman paleothermometry. , 2020, 352, 7-18.		16
4	The color of refractory organic carbon. Bulletin - Societie Geologique De France, 2018, 189, 9.	2.2	1
5	Ultrasonic treatment of glassy carbon for nanoparticle preparation. Ultrasonics Sonochemistry, 2017, 35, 615-622.	8.2	9
6	A Raman â€“ HRTEM study of the carbonization of wood: A new Raman-based paleothermometer dedicated to archaeometry. Carbon, 2016, 102, 319-329.	10.3	74
7	Early Neanderthal constructions deep in Bruniquel Cave in southwestern France. Nature, 2016, 534, 111-114.	27.8	210
8	Nanostructure characterization of carbide-derived carbons by morphological analysis of transmission electron microscopy images combined with physisorption and Raman spectroscopy. Carbon, 2016, 105, 314-322.	10.3	53
9	Dynamic weakening and amorphization in serpentinite during laboratory earthquakes. Geology, 2016, 44, 607-610.	4.4	45
10	The Raman-Derived Carbonization Continuum: A Tool to Select the Best Preserved Molecular Structures in Archean Kerogens. Astrobiology, 2016, 16, 407-417.	3.0	46
11	Toward an experimental synthesis of the chondritic insoluble organic matter. Meteoritics and Planetary Science, 2015, 50, 1408-1422.	1.6	10
12	Carbons at the heart of questions on energy and environment: A nanostructural approach. Comptes Rendus - Geoscience, 2015, 347, 124-133.	1.2	54
13	Characterizing various types of defects in nuclear graphite using Raman scattering: Heat treatment, ion irradiation and polishing. Carbon, 2015, 95, 364-373.	10.3	167
14	Raman microspectroscopy characterization of carbon blacks: Spectral analysis and structural information. Carbon, 2015, 84, 479-490.	10.3	386
15	Origin of insoluble organic matter in type 1 and 2 chondrites: New clues, new questions. Geochimica Et Cosmochimica Acta, 2014, 136, 80-99.	3.9	68
16	Influence of surface fibre properties and textural organization of a pyrocarbon interphase on the interfacial shear stress of SiC/SiC minicomposites reinforced with Hi-Nicalon S and Tyranno SA3 fibres. Journal of the European Ceramic Society, 2014, 34, 179-188.	5.7	63
17	Graphitization at low temperatures (600â€“1200Â°C) in the presence of iron implications in planetology. Carbon, 2014, 66, 178-190.	10.3	57
18	Evolution of Barnett Shale organic carbon structure and nanostructure with increasing maturation. Organic Geochemistry, 2014, 71, 7-16.	1.8	170

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19	Multiple generations of carbonaceous material deposited in Apex chert by basin-scale pervasive hydrothermal fluid flow. Gondwana Research, 2014, 25, 284-289.	6.0	27
20	Probing structures of soot formed in premixed flames of methane, ethylene and benzene. Proceedings of the Combustion Institute, 2013, 34, 1885-1892.	3.9	80
21	A new approach to characterize the nanostructure of activated carbons from mathematical morphology applied to high resolution transmission electron microscopy images. Carbon, 2013, 52, 239-258.	10.3	65
22	Wet Chemical Method for Making Graphene-like Films from Carbon Black. ACS Applied Materials & Interfaces, 2012, 4, 4491-4498.	8.0	44
23	Transmission Electron Microscopy of CONCORDIA UltraCarbonaceous Antarctic MicroMeteorites (UCAMMs): Mineralogical properties. Geochimica Et Cosmochimica Acta, 2012, 76, 68-82.	3.9	78
24	Comparative XRD, Raman, and TEM Study on Graphitization of PBO-Derived Carbon Fibers. Journal of Physical Chemistry C, 2012, 116, 257-268.	3.1	183
25	Influence of the inherent metal species on the graphitization of methane-based carbon nanofibers. Carbon, 2012, 50, 5387-5394.	10.3	19
26	Nanostructure evolution in heat-treated porous carbons derived from PBO polymer. Journal of Alloys and Compounds, 2012, 536, S464-S468.	5.5	7
27	Structure, composition, and location of organic matter in the enstatite chondrite Sahara 97096 (EH3). Meteoritics and Planetary Science, 2012, 47, 8-29.	1.6	33
28	Graphitization of highly porous carbons derived from poly(p-phenylene benzobisoxazole). Carbon, 2012, 50, 2929-2940.	10.3	33
29	High resolution TEM of chondritic carbonaceous matter: Metamorphic evolution and heterogeneity. Meteoritics and Planetary Science, 2012, 47, 345-362.	1.6	42
30	How to obtain a reliable structural characterization of polished graphitized carbons by Raman microspectroscopy. Journal of Raman Spectroscopy, 2012, 43, 207-211.	2.5	83
31	Silica encapsulation of luminescent silicon nanoparticles: stable and biocompatible nanohybrids. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	5
32	Implications of in situ calcification for photosynthesis in a ~3.3Ga-old microbial biofilm from the Barberton greenstone belt, South Africa. Earth and Planetary Science Letters, 2011, 310, 468-479.	4.4	75
33	Volcaniclastic habitats for early life on Earth and Mars: A case study from â^¼3.5Ga-old rocks from the Pilbara, Australia. Planetary and Space Science, 2011, 59, 1093-1106.	1.7	63
34	Complementary X-ray scattering and high resolution imaging of nanostructure development in thermally treated PBO fibers. Carbon, 2011, 49, 2960-2970.	10.3	20
35	High temperature iron-based catalysts for hydrogen and nanostructured carbon production by methane decomposition. International Journal of Hydrogen Energy, 2011, 36, 7832-7843.	7.1	111
36	The effect of temperature on soot properties in premixed methane flames. Combustion and Flame, 2010, 157, 1959-1965.	5.2	93

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37	Characterization of graphite implanted with chlorine ions using combined Raman microspectrometry and transmission electron microscopy on thin sections prepared by focused ion beam. Carbon, 2010, 48, 1244-1251.	10.3	35
38	Structures, origin and evolution of various carbon phases in the ureilite Northwest Africa 4742 compared with laboratory-shocked graphite. Geochimica Et Cosmochimica Acta, 2010, 74, 4167-4185.	3.9	43
39	Extreme Deuterium Excesses in Ultracarbonaceous Micrometeorites from Central Antarctic Snow. Science, 2010, 328, 742-745.	12.6	160
40	Effect of boron incorporation on the structure and electrical properties of diamond-like carbon films deposited by femtosecond and nanosecond pulsed laser ablation. Thin Solid Films, 2009, 518, 1470-1474.	1.8	18
41	Multiscale organisation of organic matter associated with gold and uranium minerals in the Witwatersrand basin, South Africa. International Journal of Coal Geology, 2009, 78, 77-88.	5.0	23
42	Precursor and metamorphic condition effects on Raman spectra of poorly ordered carbonaceous matter in chondrites and coals. Earth and Planetary Science Letters, 2009, 287, 185-193.	4.4	113
43	High-Resolution Transmission Electron Microscopy Studies of Graphite Materials Prepared by High-Temperature Treatment of Unburned Carbon Concentrates from Combustion Fly Ashes. Energy & Fuels, 2009, 23, 942-950.	5.1	23
44	New experimental constraints on the composition and structure of tholins. Icarus, 2008, 198, 218-231.	2.5	144
45	Molecular evidence for life in the 3.5Âbillion year old Warrawoona chert. Earth and Planetary Science Letters, 2008, 272, 476-480.	4.4	86
46	Molecular study of insoluble organic matter in Kainsaz CO3 carbonaceous chondrite: Comparison with CI and CM IOM. Meteoritics and Planetary Science, 2008, 43, 1099-1111.	1.6	22
47	Comparison of quantification methods to measure fireâ€derived (black/elemental) carbon in soils and sediments using reference materials from soil, water, sediment and the atmosphere. Global Biogeochemical Cycles, 2007, 21, .	4.9	483
48	Nanodiamond nucleation below 2273K at 15GPa from carbons with different structural organizations. Carbon, 2007, 45, 636-648.	10.3	83
49	Black carbon yields and types in forest and cultivated sandy soils (Landes de Gascogne, France) as determined with different methods: Influence of change in land use. Organic Geochemistry, 2006, 37, 1185-1189.	1.8	23
50	Graphitization of carbons synthesized in a confined geometry. Carbon, 2006, 44, 3348-3352.	10.3	63
51	Atom transfer radical polymerization (ATRP) initiated by aryl diazonium salts: a new route for surface modification of multiwalled carbon nanotubes by tethered polymer chains. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 287, 217-221.	4.7	78
52	Nanostructured coatings of metal containing diamond-like carbon films deposited by femtosecond pulsed laser ablation. Surface and Coatings Technology, 2006, 200, 6272-6278.	4.8	23
53	HIGH RESOLUTION TRANSMISSION ELECTRON MICROSCOPY IMAGE ANALYSIS OF DISORDERED CARBONS USED FOR ELECTROCHEMICAL STORAGE OF ENERGY. , 2006, , 411-424.		1
54	Evaluation of Raman spectroscopy to detect fullerenes in geological materials. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2364-2367.	3.9	10

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55	Maturation grade of coals as revealed by Raman spectroscopy: Progress and problems. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2368-2377.	3.9	176
56	Correlation of the irreversible lithium capacity with the active surface area of modified carbons. Carbon, 2005, 43, 2160-2167.	10.3	112
57	Carbon aerogels, cryogels and xerogels: Influence of the drying method on the textural properties of porous carbon materials. Carbon, 2005, 43, 2481-2494.	10.3	396
58	Size discontinuity between interstellar and chondritic aromatic structures: A high-resolution transmission electron microscopy study. Geochimica Et Cosmochimica Acta, 2005, 69, 3911-3917.	3.9	36
59	Experimental study of the microtextural and structural transformations of carbonaceous materials under pressure and temperature. European Journal of Mineralogy, 2004, 15, 937-951.	1.3	112
60	The first in situ 7Li NMR study of the reversible lithium insertion mechanism in disorganised carbons. Journal of Physics and Chemistry of Solids, 2004, 65, 245-251.	4.0	64
61	A better understanding of the irreversible lithium insertion mechanisms in disordered carbons. Journal of Physics and Chemistry of Solids, 2004, 65, 211-217.	4.0	47
62	Structural and electrochemical characterisation of nitrogen enriched carbons produced by the co-pyrolysis of coal-tar pitch with polyacrylonitrile. Electrochimica Acta, 2004, 49, 423-432.	5.2	64
63	HRTEM study of activated carbons prepared by alkali hydroxide activation of anthracite. Carbon, 2004, 42, 1305-1310.	10.3	36
64	Carbon nanotubes produced by aerosol pyrolysis: growth mechanisms and post-annealing effects. Diamond and Related Materials, 2004, 13, 1266-1269.	3.9	68
65	Coking properties of perhydrous low-rank vitrains. Influence of pyrolysis conditions. Journal of Analytical and Applied Pyrolysis, 2003, 67, 263-276.	5.5	15
66	On the characterization of disordered and heterogeneous carbonaceous materials by Raman spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 2267-2276.	3.9	724
67	Structural Modeling of Porous Carbons:Â Constrained Reverse Monte Carlo Method. Langmuir, 2003, 19, 8565-8582.	3.5	208
68	In Situ 7Li-Nuclear Magnetic Resonance Observation of Reversible Lithium Insertion into Disordered Carbons. Electrochemical and Solid-State Letters, 2003, 6, A225.	2.2	88
69	The first in situ 7Li nuclear magnetic resonance study of lithium insertion in hard-carbon anode materials for Li-ion batteries. Journal of Chemical Physics, 2003, 118, 6038-6045.	3.0	111
70	Abundance and composition of the refractory organic fraction of an ancient, tropical soil (Pointe) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	52
71	Graphitization in a high-pressure, low-temperature metamorphic gradient: a Raman microspectroscopy and HRTEM study. Contributions To Mineralogy and Petrology, 2002, 143, 19-31.	3.1	287
72	Raman spectra of carbonaceous material in metasediments: a new geothermometer. Journal of Metamorphic Geology, 2002, 20, 859-871.	3.4	934

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73	Quantitative high-resolution transmission electron microscopy: a promising tool for carbon materials characterization. Fuel Processing Technology, 2002, 77-78, 229-235.	7.2	103
74	Carbon nanoparticles from laser pyrolysis. Carbon, 2002, 40, 2775-2789.	10.3	133
75	Evaluation of a protocol for the quantification of black carbon in sediments. Global Biogeochemical Cycles, 2001, 15, 881-890.	4.9	341
76	Improved Molecular Models for Porous Carbons. Studies in Surface Science and Catalysis, 2001, 132, 647-652.	1.5	30
77	Influence of the Pyrolysis Conditions on the Nature of Lithium Inserted in Hard Carbons. Journal of Physical Chemistry A, 2001, 105, 5794-5800.	2.5	30
78	Optical properties of synthetic carbon nanoparticles as model of cosmic dust. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 797-814.	3.9	25
79	Surface functionality and porosity of activated carbons obtained from chemical activation of wood. Carbon, 2000, 38, 669-674.	10.3	193
80	A small angle X-ray scattering study on the porosity of anthracites. Carbon, 2000, 38, 1391-1400.	10.3	31
81	On the optically biaxial character and heterogeneity of anthracites. International Journal of Coal Geology, 2000, 44, 227-250.	5.0	65
82	Influence of Pyrolysis Conditions on the Performance of Hard Carbons as Anodes for Lithium Batteries. Molecular Crystals and Liquid Crystals, 2000, 340, 431-436.	0.3	4
83	Chemical structure and sources of the macromolecular, resistant, organic fraction isolated from a forest soil (LacadÃ©e, south-west France). Organic Geochemistry, 2000, 31, 813-827.	1.8	122
84	Calculation of reflectance values for two models of texture of carbon materials. International Journal of Coal Geology, 1999, 38, 333-348.	5.0	33
85	Transmission electron microscopy studies on carbon materials prepared by mechanical milling. Carbon, 1999, 37, 1941-1959.	10.3	113
86	Influence of the atmosphere in the chemical activation of wood by phosphoric acid. Carbon, 1998, 36, 306-309.	10.3	125
87	Influence of anthracite pretreatment in the preparation of activated carbons. Fuel, 1998, 77, 495-502.	6.4	25
88	Mechanism of Lithium Insertion in Different Kinds of Carbons. Molecular Crystals and Liquid Crystals, 1998, 310, 359-364.	0.3	5
89	A Comparative Study of Silicate-Oxide Nanocomposites. Molecular Crystals and Liquid Crystals, 1998, 311, 295-301.	0.3	0
90	Raman microspectrometry of accumulated non-graphitized solid bitumens. Journal of Raman Spectroscopy, 1997, 28, 717-724.	2.5	35

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91	Microtextural study of cokes from hydropyrolysis of coals. Fuel, 1995, 74, 201-207.	6.4	6
92	Application of Fourier self-deconvolution to the FT-i.r. characterization of coals and their N-methyl 2-pyrrolidinone extraction products. Fuel, 1995, 74, 217-225.	6.4	35
93	Natural graphitization of anthracite: Experimental considerations. Carbon, 1995, 33, 679-691.	10.3	127
94	Mechanisms of graphite formation from kerogen: experimental evidence. International Journal of Coal Geology, 1995, 28, 1-36.	5.0	175
95	Structural and adsorption properties of carbons synthesized within taeniolite matrices. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 493-497.	1.7	10
96	Different mechanisms of coke microtexture formation during coking coal carbonization. Fuel, 1994, 73, 795-809.	6.4	39
97	Influence of the oxidation of coals of different rank on coke microtexture and other relevant properties. Fuel, 1994, 73, 810-815.	6.4	7
98	Graphitization of high rank coalsâ€"the role of shear strain: experimental considerations. Organic Geochemistry, 1991, 17, 585-596.	1.8	32
99	Contribution of transmission electron microscopy to the study of the coal carbonization processes. Fuel Processing Technology, 1990, 24, 55-69.	7.2	42
100	Organic geochemistry of precambrian shales and schists (Bohemian massif, Central Europe). Organic Geochemistry, 1990, 16, 865-872.	1.8	26
101	Structure, microtexture, and optical properties of anthracene and saccharose-based carbons. Carbon, 1989, 27, 517-529.	10.3	228
102	Coke properties and their microtexture Part I: Microtextural analysis: A guide for cokemaking. Fuel Processing Technology, 1988, 20, 143-154.	7.2	33
103	Coke properties and their microtexture. Part III: First results about relationship between microtexture and reactivity of some cokes. Fuel Processing Technology, 1988, 20, 163-175.	7.2	22
104	Graphitization of Korean anthracites as studied by transmission electron microscopy and X-ray diffraction. International Journal of Coal Geology, 1987, 8, 375-393.	5.0	59
105	Carbon films: Structure and microtexture (optical and electron microscopy, Raman spectroscopy). Thin Solid Films, 1983, 105, 75-96.	1.8	213