

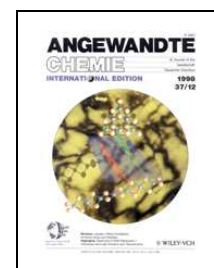
## Jean-Christophe P. Gabriel, Liste de publications

Analyse d'après Google Scholar au 19/04/2018 :

	Toutes	Depuis 2012
Citations	7546	2703
indice h	41	28
indice i10	74	52

- 1 - « *A New Nematic Suspension Based on All-Inorganic Polymer Rods.* »  
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- 2 - « *Molecular Hexanuclear Clusters in the System Rhenium Sulfur Chlorine - Solid State Synthesis, Solution Chemistry, and Redox Properties.* »  
J.-C. Gabriel, K. Boubekour, P. Batail, ***Inorg. Chem.*** **32**(13)2894-2900, 1993.
- 3 - « *A Novel Type of 2-Dimensional Pattern of Association of Mixed-Valence Dimers in the Structures of 2 Cation Radical Salts of Thieno[3,4-D]-1,3-Dithiol-2-Ylidene and a Monovalent Hexanuclear Chalcogenide Rhenium Cluster.* »  
J.-C. Gabriel, I. Johannsen, P. Batail, C. Coulon, ***Acta Cryst.*** **C49**, 1052-1056, 1993.
- 4 - « *Nematic liquid crystalline mineral polymers.* »  
P. Davidson, J.-C. Gabriel, A.-M. Levelut, P. Batail, ***Adv. Mater.*** **5**(9)665-668, 1993.
- 5 - « *The Construction of Electroactive Ordered Molecular Assemblies of Organic-Inorganic Character.* »  
P. Batail, K. Boubekour, M. Fourmigue, A. Dolbecq, J.-C. Gabriel, A. Guirauden, C. Livage, S. Uriel, ***New J. Chem.*** **18**(10) 999-1006, 1994 (Review article).
- 6 - « *Ordering of the Disk-like Hexakis(hexylthio)triphenylene in Solution and at a Liquid-Solid Interface.* »  
J.-C. Gabriel, N.B. Larsen, M. Larsen, N. Harrit, J.S. Pedersen, K. Schaumburg, K. Bechgaard. ***Langmuir***, **12**(6) 1690-1692, 1996.
- 7 - « *Structure-Directing Effects In Zeolite Synthesis - A Single-Crystal X-Ray Diffraction, Si-29 Mas Nmr, and Computational Study of the Competitive Formation of Siliceous Ferrierite and Dodecasil-3c (ZSM-39).* »  
S.J. Weigel, J.-C. Gabriel, E.G. Puebla, A.M. Bravo, N.J. Henson, L.M. Bull, A.K. Cheetham, ***J. Am. Chem. Soc.*** **118**(10)2427-2435, 1996.
- 8 - « *Observation of Nematic Liquid-Crystal Textures in Aqueous Gels of Smectite Clays.* »  
J.-C.P. Gabriel, C. Sanchez, P. Davidson. ***J. Phys. Chem.*** **100**(26) 11139-11143, 1996.
- 9 - « *Synthesis and Structure of a Three-Dimensional Open-framework Aluminophosphate  $[NH_2(CH_2)_3NH_3]^+[Al_3P_3O_{14}] \cdot H_2O$ , Containing  $AlO_5$  and  $AlO_6$  Polyhedra.* »  
S. Natarajan, J.-C.P. Gabriel, A.K. Cheetham, ***J. Chem. Soc., Chem. Commun.*** 1415-1416, 1996.

- 10 - « A Concave, Cubic Diamond Coordination Polymer in the Versatile Chemistry of the Aqua-alkaline-earth Complex salts of Molecular hexanuclear Chalcogenide Rhenium Clusters,  $[Ca(H_2O)_n]Re_6Q_6Cl_8.mH_2O$  and  $[Mg(H_2O)_6]Re_6S_6Cl_8.2H_2O$  ( $Q=S, Se$ ). »  
S.Uriel, K.Boubekeur, J.-C. Gabriel, P.Batail, J.Orduna, **Bull. Soc. Chim. Fr.** **133**, 783-794, 1996.
- 11 - « A Pressure Sensitive Two-Dimensional Tetracyanoquinodimethane (TCNQ) Salt of a Stable Free Radical. »  
K.A. Hutchinson, G. Srdanov, R. Menon, J.-C.P. Gabriel, B. Knight, F. Wudl, **J. Am. Chem. Soc.** **118**(51) 13081-13082, 1996.
- 12 - « Hydrothermal Synthesis and Structure of a Mixed Valent Heteropoly-oxometallate Keggin Salt:  $[PMo_{4.27}W_{7.73}O_{40}^{6-}][H_3N(CH_2)_6NH_3^{2+}]_3$ . »  
J.-C.P. Gabriel, R. Nagarajan, S. Natarajan, A.K. Cheetham, C.N.R. Rao, **J. Solid State Chem.** **129**, 257-262, 1997.
- 13 - « Mineral Liquid Crystalline Polymers »  
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- 14 - « A Stable Free Radical as Donor: A Layer-Structure Organic Pressure Sensor. »  
K.A. Huchinson, G. Srdanov, R. Menon, J.-C. P. Gabriel, B. Knight, F. Wudl, **Synth. Metals** **86**(1-3) 2147-2148, 1997.
- 15 - «  $(nBu_4N)_4[Re_6S_5OCl_7]_2O$ , An Oxo-Bridged Siamese Twin Cluster of Two Hexanuclear Oxochalcogenide Rhenium Clusters »  
F. Simon, K. Boubekeur, J.-C. P. Gabriel and P. Batail, **J. Chem. Soc., Chem. Commun.** **1998**(7) 845-846, 1998.
- 16 - « Complex Fluids Based on the Flexible One-Dimensional Mineral Polymers,  $[K(MPS_4)]_\infty$  ( $M = Ni, Pd$ ); AutoFragmentation to Concave, Cyclic  $(PPh_4)_3[(NiPS_4)_3]$ . »  
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- 17 - « Electrocrystallization, an Invaluable Tool for the Construction of Ordered, Electroactive Molecular Solids. »  
P. Batail, K. Boubekeur, M. Fourmigué, J.-C. P. Gabriel, **Chem. Mater.** **10**(10) 3005-3015, 1998 (Review article).
- 18 - «  $Cs_3Re_6S_7Cl_7$ , the Missing, Water Soluble Octahedral Chalcogenide Rhenium(III) Cluster Mineral Salt »  
C. B. Guilbaud, J.-C. P. Gabriel, K. Boubekeur and P. Batail, **C. R. Acad. Sci. IIC**, **1**, 765-770, 1998.



- 19 - « *Behaviour of the One-Dimensional, Inorganic Polymer  $^1_\infty[\text{MPS}_4]^-$  Anions ( $M = \text{Ni}, \text{Pd}$ ) in Organic Solutions* »  
J. Sayettat, L. M. Bull, S. Jobic, J.-C. P. Gabriel, M. Fourmigué, P. Batail, R. Brec, R.-L. Inglebert, C. Sourisseau, **J. Mater. Chem.** **9**(1) 143-153, 1999.
- 20 - « *Lyotropic Mineral Liquid Crystals.* »  
J.-C. P. Gabriel, P. Batail, **Actualité Chim.**, **8-9**, 13-21, 1999 (Review article).
- 21 - « *New Trends in Colloidal Liquid Crystals Based on Mineral Moieties.* »  
J.-C. P. Gabriel, P. Davidson, **Adv. Mater.** **12**(1) 9-20, 2000 (Review article).
- 22 - « *The First Use of a Mineral Liquid Crystal to Induce Residual Dipolar Couplings in a NMR Study of a Non-Labeled Biomolecule.* »  
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- 23 - « *The Chemistry of Hexanuclear Chalcogenide rhenium Clusters.* »  
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- 24 - « *Swollen Liquid-Crystalline Lamellar Phase Based on Extended Solid-Like Sheets.* »  
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- 25 - « *Solvent-induced Folding of the Mineral Chains  $^1_\infty[\text{Nb}_2\text{PS}_{10}]^-$  into Nanotubes.* »  
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- 26 - « *The measurement by SAXS of the nematic order parameter of laponite gels* »  
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- 27 - « *Synthesis of a mesoporous composite material prepared by the self-assembly of mineral liquid crystals.* »  
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- 28 - « *Mineral Liquid Crystals from Self-assembly of Anisotropic Nanosystems.* »  
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- 29 - « *Magnetically induced large mesoporous single-domain monoliths using a mineral liquid crystal as a template.* »  
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- 30 - « *Electronic Detection of Specific Protein Binding Using Nanotube FET Devices.* »  
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- 31 - « *Influence of Mobile Ions on Nanotube Based FET Devices.* »  
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- 32 - « *Dilute liquid crystals used to enhance residual dipolar couplings may alter conformational equilibrium in oligosaccharides.* »  
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- 33 - « *Large Scale Production of Carbon Nanotube Transistors: A Generic Platforms for Chemical Sensors.* » J.-C. P. Gabriel, *Mat. Res. Soc. Symp. Proc.* **762**, Q.12.7.1, 2003.
- 34 - « *Combined SAXS-rheology studies of liquid-crystalline colloidal suspensions of mineral moieties.*»  
F. Camerel, J.-C. P. Gabriel, P. Panine, P. Davidson, *Langmuir* **19**(24); 10028-10035, 2003.
- 35 - « *Flexible nanotube transistors.*»  
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- 36 - « *Nanococoon Seeds for BN Nanotube Growth.*»  
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- 37 - « *Interaction of Aromatic Compounds with Carbon Nanotubes: Correlation to the Hammett Parameter of the Substituent and Measured Carbon Nanotube FET Response.* »  
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- 38 - « *Short-channel effects in contact-passivated nanotube chemical sensors.*»  
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- 40- « *Quasi-Langmuir-Blodgett Thin Film Deposition of Carbon Nanotubes.* »  
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- 41- «Hydrogen storage by physisorption: beyond carbon Strong hydrogen adsorbents for hydrogen storage.»  
S.-H. Jhi, Y.-K. Kwon, K. Bradley, J.-C. P. Gabriel, *Solid State Commun.* **129**, 769–773, 2004.
- 42- « *Nanoelectronic Carbon Dioxide Sensors.*»  
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- 43- « *Nanobioelectronics: integration of cell membranes and nanotube transistors.*»  
K. Bradley, A. Davis, J.-C. P. Gabriel, G. Grüner, *Nano Letters* 2005.
- 44- « *Mineral Liquid Crystals.*»  
P. Davidson, J.-C. P. Gabriel *Current Opinion Coll. Inter. Sciences* **9**, 377-383, 2005.

- 45- « Nanoelectronic CO<sub>2</sub> breath sensors.»  
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- 46- « Label-free detection of DNA hybridization using carbon nanotube network field-effect transistors.»  
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- 47- « Gas Sensor Array Based on Metal-Decorated Carbon Nanotubes.»  
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- 48- «Réseaux 2D aléatoires à nanotubes de carbone.» J.-C. Gabriel, OMNT Electronique Moléculaire, n° 37, pp 21-31, 2008.
- 49- « Characterization of Integrated Nano Materials.»  
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- 50- «Réseaux 2D aléatoires à nanotubes de carbone.» J.-C. Gabriel, C. R. Physique, *11*(5-6), 362-374, 2010.
- 51 - « VLSI silicon multi-gas analyzer coupling gas chromatography and NEMS detectors. »  
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- 52- « Electrostatic method to estimate the mechanical properties of suspended membranes applied to nickel-coated graphene oxide » N. Sridi, B. Lebental, J. Azevedo, J.C.P. Gabriel, A. Ghis, *Appl. Phys. Lett.* **103**, 051907 (2013); <http://dx.doi.org/10.1063/1.4817301>
- 53- « Liquid–crystalline properties of aqueous suspensions of natural clay nanosheets » E. Paineau, A.M. Philippe, K. Antonova, I. Bihannic, P. Davidson, I. Dozov, J.C.P. Gabriel, M. Impérator-Clerc, P. Levitz, F. Meneau & L.J. Michot *Liquid Crystals Rev.* **1**(2), 110-126 (2013); <http://dx.doi.org/10.1080/21680396.2013.842130>
- 54- « Implementation and mechanical characterization of 2 nm thin diamond like carbon suspended membranes » A. Ghis, N. Sridi, M. Delaunay, J.C.P. Gabriel, *Diamond Related Mater.* **57**, 53–57 (2015).
- 55 « A Promising Portable Tool for the Continuous, Online, and Field Monitoring of Pressured Processes. » J.C.P. Gabriel *ACS CENTRAL SCIENCE* **2**(4) 188-189(2016).
- 56 « Molecular Simulation of Binary Phase Diagrams from the Osmotic Equilibrium Method: Vapour Pressure and Activity in Water Ethanol Mixtures. » M. Bley, M. Duvail, P. Guilbaud, C.

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- 57 « FTIR and Microfluidic Integration for Fast Measurement of Volatile Components' partial pressures. » V. Kokoric, J. Theisen, A. Wilk, C. Penisson, G. Bernard, B. Mizaikoff, J.C.P. Gabriel, *Analytical Chemistry, Anal. Chem.* **90**(7) 4445–4451 (2018).  
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+ 2 publications dans les Clefs CEA en 2010 (composants carbonés) et 2011 (Chimie pour l'électronique).

+ Participation au documentaire « [Bienvenue dans le Nanomonde](#) » présenté sur [TV5](#) en 2010.

+ Participation à la réalisation clip « [Nanoworld](#) », CEA/DSM.

### Liste des familles de brevets attribués

	Numéro.	Titre
1	US6672077	<a href="#">Hydrogen storage in nanostructure with physisorption</a>
2	US6748748	<a href="#">Hydrogen storage and supply system</a>
3	US6834508	<a href="#">Hydrogen storage and supply system</a>
4	US6894359	<a href="#">Sensitivity control for nanotube sensors</a>
5	US6905655	<a href="#">Modification of selectivity for sensing for nanostructure device arrays</a>
6	US6991773	<a href="#">Boron-oxide and related compounds for hydrogen storage</a>
7	US7036324	<a href="#">Hydrogen storage and supply system</a>
8	US7312095	<a href="#">Modification of selectivity for sensing for nanostructure sensing device arrays</a>
9	US7449757	<a href="#">Nanostructures with electrodeposited nanoparticles</a>
10	US7479240	<a href="#">Boron oxide and related compounds for hydrogen storage</a>
11	US7522040	<a href="#">Remotely communicating, battery-powered nanostructure sensor devices</a>
12	US7575933	<a href="#">Modification of selectivity for sensing for nanostructure device arrays</a>
13	US7714398	<a href="#">Nanoelectronic measurement system for physiologic gases and improved nanosensor for carbon dioxide</a>
14	US7956525	<a href="#">Flexible nanostructure electronic devices</a>

15	US7948041	<a href="#">Sensor Having A Thin-Film Inhibition Layer</a>
16	US7956525	<a href="#">Flexible nanostructure electronic devices</a>
17	US8154093	<a href="#">Nano-electronic sensors for chemical and biological analytes, including capacitance and bio-membrane devices</a>
18	US8152991	<a href="#">Ammonia nanosensors, and environmental control system</a>
19	US8456074	<a href="#">Flexible nanostructure electronic devices</a>
20	US8754454	<a href="#">Sensor having a thin-film inhibition layer</a>
21	US9103775	<a href="#">Nano-electronic sensors for chemical and biological analytes, including capacitance and bio-membrane devices</a>
22	US9291613	<a href="#">Sensor having a thin-film inhibition layer</a>

#### Brevet obtenu au CEA

23	US9070702	<a href="#">Method for obtaining three-dimensional actin structures and uses thereof</a>
24	Système, Patent n° : 2950332 2011	<a href="#">REALISATION DUN COMPOSANT ELECTROMECHANIQUE POUR UN MICRO- OU NANO- SYSTEME DOTE DUN BARREAU FORMANT UN AXE DE ROTATION DU COMPOSANT ET RECOUVERT DE GRAPHENE</a>

#### Liste des demandes en cours

	Applications: PUB.APP.NO.	Titre
1	US20030134433	<a href="#">Electronic sensing of chemical and biological agents using functionalized nanostructures</a>
2	US20030175161	<a href="#">Modification of selectivity for sensing for nanostructure device arrays</a>
3	US20040031387	<a href="#">Boron-oxide and related compounds for hydrogen storage</a>
4	US20040093874	<a href="#">Hydrogen Storage And Supply System</a>
5	US20050129573	<a href="#">Carbon dioxide nanoelectronic sensor</a>
6	US20050157445	<a href="#">Nanostructures with electrodeposited nanoparticles</a>
7	US20050169798	<a href="#">Sensitivity control for nanotube sensors</a>

8	US20050183424	<a href="#"><u>Hydrogen storage and supply system</u></a>
9	US20050279987	<a href="#"><u>Nanostructure sensor device with polymer recognition layer</u></a>
10	US20060055392	<a href="#"><u>Remotely communicating, battery-powered nanostructure sensor devices</u></a>
11	US20060078468	<a href="#"><u>Modification of selectivity for sensing for nanostructure device arrays</u></a>
12	US20060165577	<a href="#"><u>Boron oxide and related compounds for hydrogen storage</u></a>
13	US20060228723	<a href="#"><u>System and method for electronic sensing of biomolecules</u></a>
14	US20060263255	<a href="#"><u>Nanoelectronic sensor system and hydrogen-sensitive functionalization</u></a>
15	US20070045756	<a href="#"><u>Nanoelectronic sensor with integral suspended micro-heater</u></a>
16	US20070048180	<a href="#"><u>Nanoelectronic breath analyzer and asthma monitor</u></a>
17	US20070048181	<a href="#"><u>Carbon dioxide nanosensor, and respiratory CO2 monitors</u></a>
18	US20070092437	<a href="#"><u>Increasing hydrogen adsorption of nanostructured storage materials by modifying sp2 covalent bonds</u></a>
19	US20070114573	<a href="#"><u>Sensor device with heated nanostructure</u></a>
20	US20070132043	<a href="#"><u>Nano-electronic sensors for chemical and biological analytes, including capacitance and bio-membrane devices</u></a>
21	US20070140946	<a href="#"><u>Dispersed growth of nanotubes on a substrate</u></a>
22	US20070178477	<a href="#"><u>Nanotube sensor devices for DNA detection</u></a>
23	US20070208243	<a href="#"><u>Nanoelectronic glucose sensors</u></a>
24	US20080021339	<a href="#"><u>Anesthesia monitor, capacitance nanosensors and dynamic sensor sampling method</u></a>
25	US20080093226	<a href="#"><u>Ammonia Nanosensors, And Environmental Control System</u></a>
26	US20090101996	<a href="#"><u>Nanostructures With Electrodeposited Nanoparticles</u></a>
27	US20090165533	<a href="#"><u>Sensor Device With Heated Nanostructure</u></a>
28	US20100047901	<a href="#"><u>System And Method For Electronic Sensing Of Biomolecules</u></a>
29	US20100056892	<a href="#"><u>Nanoelectronic Measurement System For Physiologic Gases And Improved Nanosensor For Carbon Dioxide</u></a>
30	US20100085067	<a href="#"><u>Anesthesia Monitor, Capacitance Nanosensors And Dynamic Sensor Sampling Method</u></a>



<b>32</b>	US20130075690	<a href="#">Ammonia Nanosensors, and Environmental Control System</a>
<b>33</b>	US 20130075794	<a href="#">Nano-electronic sensors for chemical and biological analytes, including capacitance and bio-membrane devices</a>
<b>34</b>	US20150008486	<a href="#">Sensor having a thin-film inhibition layer</a>
<b>35</b>	US20160123947	<a href="#">Ammonia Nanosensors, and Environmental Control System</a>

## Brevets Internationaux: demandes d'extensions

1	<a href="#">WO/2003/078652A2</a>	MODIFICATION OF SELECTIVITY FOR SENSING FOR NANOSTRUCTURE DEVICE ARRAYS
2	<a href="#">WO/2004/040671A2</a>	DISPERSED GROWTH OF NANOTUBES ON A SUBSTRATE
3	<a href="#">WO/2005/026694A2</a>	CARBON DIOXIDE NANOELECTRONIC SENSOR 09/16/2010
4	<a href="#">WO/2005/094221A2</a>	NANOSTRUCTURES WITH ELECTRODEPOSITED NANOPARTICLES
5	<a href="#">WO/2006/024023A2</a>	NANOTUBE SENSOR DEVICES FOR DNA DETECTION
6	<a href="#">WO/2006/024023A3</a>	SENSOR DEVICES FOR DNA DETECTION
7	<a href="#">WO/2006/071895A2</a>	NANOELECTRONIC DEVICES FOR DNA DETECTION, AND RECOGNITION OF POLYNUCLEOTIDE SEQUENCES
8	<a href="#">WO/2007/136523A2</a>	NANOELECTRONIC BREATH ANALYZER AND ASTHMA MONITOR
9	<a href="#">WO/2008/039165A2</a>	CARBON DIOXIDE NANOSENSOR, AND RESPIRATORY CO2 MONITORS
10	<a href="#">EP1781771A2</a>	NANOTUBE SENSOR DEVICES FOR DNA DETECTION
11	<a href="#">EP1831670A2</a>	NANOELECTRONIC DEVICES FOR DNA DETECTION, AND RECOGNITION OF POLYNUCLEOTIDE SEQUENCES
12	<a href="#">EP1941270A2</a>	IMPROVED CARBON DIOXIDE NANOSENSOR, AND RESPIRATORY CO2 MONITORS
13	<a href="#">EP2029013A2</a>	NANOELECTRONIC BREATH ANALYZER AND ASTHMA MONITOR
14	EP2298693A1	<a href="#">Process for forming an electromechanical component for a micro- or nano-system having a rod which forms the rotation axis of the component, the rod being covered with graphene</a>