

Jean-Christophe P Gabriel

List of Publications by Year in descending order

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71
papers

6,097
citations

126708

33
h-index

91712

69
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75
all docs

75
docs citations

75
times ranked

5953
citing authors

#	ARTICLE	IF	CITATIONS
1	First online X-ray fluorescence characterization of liquid-liquid extraction in microfluidics. <i>Nano Select</i> , 2022, 3, 425-436.	1.9	5
2	Direct reuse of electronic plastic scraps from computer monitor and keyboard to direct stem cell growth and differentiation. <i>Science of the Total Environment</i> , 2022, 807, 151085.	3.9	7
3	Sustainable route for Nd recycling from waste electronic components featured with unique element-specific sorting enabling simplified hydrometallurgy. <i>Chemical Engineering Journal</i> , 2022, 441, 135886.	6.6	15
4	Activated recovery of PVC from contaminated waste extension cord-cable using a weak acid. <i>Chemosphere</i> , 2022, 303, 134878.	4.2	7
5	Liquid-liquid extraction: thermodynamics-kinetics driven processes explored by microfluidics. <i>Comptes Rendus Chimie</i> , 2022, 25, 137-148.	0.2	1
6	Fine tuning the structural colours of photonic nanosheet suspensions by polymer doping. <i>Soft Matter</i> , 2021, 17, 9280-9292.	1.2	6
7	On-line spectroscopic study of brominated flame retardant extraction in supercritical CO ₂ . <i>Chemosphere</i> , 2021, 263, 128282.	4.2	10
8	Value-added products from thermochemical treatments of contaminated e-waste plastics. <i>Chemosphere</i> , 2021, 269, 129409.	4.2	54
9	Laser induced breakdown spectroscopy for plastic analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 140, 116280.	5.8	36
10	Electrochemical Approaches for the Recovery of Metals from Electronic Waste: A Critical Review. <i>Recycling</i> , 2021, 6, 53.	2.3	43
11	Dismantling of Printed Circuit Boards Enabling Electronic Components Sorting and Their Subsequent Treatment Open Improved Elemental Sustainability Opportunities. <i>Sustainability</i> , 2021, 13, 10357.	1.6	25
12	Destabilization of the Nematic Phase of Clay Nanosheet Suspensions by Polymer Adsorption. <i>Langmuir</i> , 2020, 36, 12563-12571.	1.6	3
13	Microfluidic lab-on-chip advances for liquid-liquid extraction process studies. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 46, 20-35.	3.4	29
14	A microfluidic study of synergic liquid-liquid extraction of rare earth elements. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5449-5462.	1.3	19
15	Effects of porous media on extraction kinetics: Is the membrane really a limiting factor?. <i>Journal of Membrane Science</i> , 2019, 586, 318-325.	4.1	10
16	Methods for dispersing carbon nanotubes for nanotechnology applications: liquid nanocrystals, suspensions, polyelectrolytes, colloids and organization control. <i>International Nano Letters</i> , 2019, 9, 31-49.	2.3	56
17	Determining the Partial Pressure of Volatile Components via Substrate-Integrated Hollow Waveguide Infrared Spectroscopy with Integrated Microfluidics. <i>Analytical Chemistry</i> , 2018, 90, 4445-4451.	3.2	18
18	Molecular simulation of binary phase diagrams from the osmotic equilibrium method: vapour pressure and activity in water-ethanol mixtures. <i>Molecular Physics</i> , 2018, 116, 2009-2021.	0.8	9

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19	Isotropic, nematic, and lamellar phases in colloidal suspensions of nanosheets. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6662-6667.	3.3	67
20	A Promising Portable Tool for the Continuous, Online, and Field Monitoring of Pressured Processes. ACS Central Science, 2016, 2, 188-189.	5.3	2
21	Implementation and mechanical characterization of 2 nm thin diamond like carbon suspended membranes. Diamond and Related Materials, 2015, 57, 53-57.	1.8	3
22	Electrostatic method to estimate the mechanical properties of suspended membranes applied to nickel-coated graphene oxide. Applied Physics Letters, 2013, 103, 051907.	1.5	9
23	Liquid-crystalline properties of aqueous suspensions of natural clay nanosheets. Liquid Crystals Reviews, 2013, 1, 110-126.	1.1	49
24	VLSI silicon multi-gas analyzer coupling gas chromatography and NEMS detectors. , 2011, , .		17
25	Réseaux 2d atomiques à nanotubes de carbone. Comptes Rendus Physique, 2010, 11, 362-374.	0.3	49
26	Characterization of Integrated Nano Materials. , 2009, , .		1
27	Gas Sensor Array Based on Metal-Decorated Carbon Nanotubes. Journal of Physical Chemistry B, 2006, 110, 21014-21020.	1.2	542
28	Label-free detection of DNA hybridization using carbon nanotube network field-effect transistors. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 921-926.	3.3	646
29	Self-Assemblies of Anisotropic Nanoparticles: Mineral Liquid Crystals. , 2006, , 173-212.		2
30	Mineral liquid crystals. Current Opinion in Colloid and Interface Science, 2005, 9, 377-383.	3.4	170
31	Integration of Cell Membranes and Nanotube Transistors. Nano Letters, 2005, 5, 841-845.	4.5	49
32	Quasi-Langmuir-Blodgett thin film deposition of carbon nanotubes. Journal of Applied Physics, 2004, 95, 3228-3230.	1.1	87
33	Nanoelectronic Carbon Dioxide Sensors. Advanced Materials, 2004, 16, 2049-2052.	11.1	294
34	Hydrogen storage by physisorption: beyond carbon. Solid State Communications, 2004, 129, 769-773.	0.9	86
35	Nanococoon seeds for BN nanotube growth. Journal of Materials Science, 2003, 38, 4805-4810.	1.7	25
36	Flexible Nanotube Electronics. Nano Letters, 2003, 3, 1353-1355.	4.5	319

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37	Magnetically Induced Large Mesoporous Single-Domain Monoliths Using a Mineral Liquid Crystal as a Template. <i>Advanced Functional Materials</i> , 2003, 13, 377-381.	7.8	16
38	Dilute liquid crystals used to enhance residual dipolar couplings may alter conformational equilibrium in oligosaccharides. <i>Carbohydrate Research</i> , 2003, 338, 1771-1785.	1.1	19
39	Combined SAXS~Rheological Studies of Liquid-Crystalline Colloidal Dispersions of Mineral Particles. <i>Langmuir</i> , 2003, 19, 10028-10035.	1.6	29
40	Interaction of Aromatic Compounds with Carbon Nanotubes:~Correlation to the Hammett Parameter of the Substituent and Measured Carbon Nanotube FET Response. <i>Nano Letters</i> , 2003, 3, 1421-1423.	4.5	204
41	Electronic Detection of Specific Protein Binding Using Nanotube FET Devices. <i>Nano Letters</i> , 2003, 3, 459-463.	4.5	759
42	Influence of Mobile Ions on Nanotube Based FET Devices. <i>Nano Letters</i> , 2003, 3, 639-641.	4.5	113
43	Short-channel effects in contact-passivated nanotube chemical sensors. <i>Applied Physics Letters</i> , 2003, 83, 3821-3823.	1.5	130
44	Charge Transfer from Ammonia Physisorbed on Nanotubes. <i>Physical Review Letters</i> , 2003, 91, 218301.	2.9	178
45	Mineral Liquid Crystals from Self-Assembly of Anisotropic Nanosystems. <i>Topics in Current Chemistry</i> , 2003, , 119-172.	4.0	85
46	Large Scale Production of Carbon Nanotube Transistors: A Generic Platform for Chemical Sensors. <i>Materials Research Society Symposia Proceedings</i> , 2003, 776, 1271.	0.1	9
47	The measurement by SAXS of the nematic order parameter of laponite gels. <i>Europhysics Letters</i> , 2002, 59, 55-61.	0.7	98
48	Original Single Walled Nanotubules Based on Weakly Interacting Covalent Mineral Polymers,1~[Nb2PS10-] inN-Methylformamide. <i>Nano Letters</i> , 2002, 2, 403-407.	4.5	16
49	Synthesis of a mesoporous composite material prepared by the self-assembly of mineral liquid crystals. <i>Chemical Communications</i> , 2002, , 1926-1927.	2.2	12
50	Chemistry of Hexanuclear Rhenium Chalcohalide Clusters. <i>Chemical Reviews</i> , 2001, 101, 2037-2066.	23.0	276
51	First Use of a Mineral Liquid Crystal for Measurement of Residual Dipolar Couplings of a Nonlabeled Biomolecule. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 373-376.	7.2	30
52	Swollen liquid-crystalline lamellar phase based on extended solid-like sheets. <i>Nature</i> , 2001, 413, 504-508.	13.7	256
53	First Use of a Mineral Liquid Crystal for Measurement of Residual Dipolar Couplings of a Nonlabeled Biomolecule We would like to thank Dr. Patrick Davidson for helpful discussions, St~phane Grolleau for TGA (thermogravimetric analysis) measurements, and Prof. Pierre Sina~ and Dr. Yongmin Zhang for the gift of the pentasaccharide. Financial support from the CNRS, the Ministry of Education (PhD) Tj ETQq1 1 0.784314 rgBT~Overlo acknowledged.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 373-376.	7.2	30
54	New Trends in Colloidal Liquid Crystals Based on Mineral Moieties. <i>Advanced Materials</i> , 2000, 12, 9-20.	11.1	204

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55	Behaviour of the one-dimensional, inorganic polymer $[MPS_4]^-$ anions (M=Ni, Pd) in organic solutions. <i>Journal of Materials Chemistry</i> , 1999, 9, 143-153.	6.7	16
56	Complex Fluids Based on the Flexible One-Dimensional Mineral Polymers $[K(MPS_4)]^-$ (M=Ni, Pd): Autofragmentation to Concave, Cyclic $(PPh_4)_3[(NiPS_4)_3]$. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 1711-1714.	7.2	40
57	Synthesis and solubility in water of $Cs_3Re_6S_7Cl_7$, the missing octahedral thiochloride rhenium(III) cluster salt. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 1998, 1, 765-770.	0.1	0
58	Electrocrystallization, an Invaluable Tool for the Construction of Ordered, Electroactive Molecular Solids. <i>Chemistry of Materials</i> , 1998, 10, 3005-3015.	3.2	154
59	$[NBu_4]_4[(Re_6S_5OCl_7)_2O]$, an oxo-bridged siamese twin cluster of two hexanuclear oxochalcohalide rhenium clusters. <i>Chemical Communications</i> , 1998, , 845-846.	2.2	11
60	A stable free radical as donor: A layer-structure organic pressure sensor. <i>Synthetic Metals</i> , 1997, 86, 2147-2148.	2.1	7
61	Mineral liquid crystalline polymers. <i>Progress in Polymer Science</i> , 1997, 22, 913-936.	11.8	67
62	Hydrothermal Synthesis and Structure of a Mixed Valent Heteropoly-oxometallate Keggin Salt: $[PMo_4.27W_7.73O_6]^{4-}$ $[H_3N(CH_2)_6NH_2+3]_3$. <i>Journal of Solid State Chemistry</i> , 1997, 129, 257-262.	1.4	22
63	Ordering of the Disk-like 2,3,6,7,10,11-Hexakis(hexylthio)triphenylene in Solution and at a Liquid-Solid Interface. <i>Langmuir</i> , 1996, 12, 1690-1692.	1.6	17
64	A Pressure Sensitive Two-Dimensional Tetracyanoquinodimethane (TCNQ) Salt of a Stable Free Radical. <i>Journal of the American Chemical Society</i> , 1996, 118, 13081-13082.	6.6	52
65	Observation of Nematic Liquid-Crystal Textures in Aqueous Gels of Smectite Clays. <i>The Journal of Physical Chemistry</i> , 1996, 100, 11139-11143.	2.9	252
66	Structure-Directing Effects in Zeolite Synthesis: A Single-Crystal X-ray Diffraction, ^{29}Si MAS NMR, and Computational Study of the Competitive Formation of Siliceous Ferrierite and Dodecasil-3C (ZSM-39). <i>Journal of the American Chemical Society</i> , 1996, 118, 2427-2435.	6.6	79
67	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. <i>Chemical Communications</i> , 1996, , 1415-1416.	2.2	28
68	Nematic liquid crystalline mineral polymers. <i>Advanced Materials</i> , 1993, 5, 665-668.	11.1	25
69	A novel type of two-dimensional pattern of association of mixed-valence dimers in the structures of two cation radical salts of thieno- and selenolo[3,4-d]-1,3-dithiol-2-ylidene and a monovalent hexanuclear chalcohalide rhenium cluster anion. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1993, 49, 1052-1056.	0.4	4
70	Molecular hexanuclear clusters in the system rhenium-sulfur-chlorine: solid state synthesis, solution chemistry, and redox properties. <i>Inorganic Chemistry</i> , 1993, 32, 2894-2900.	1.9	63
71	A New Nematic Suspension Based on All-Inorganic Polymer Rods. <i>Europhysics Letters</i> , 1993, 21, 317-322.	0.7	47