

# Thierry Cabioc'h

## List of Publications by Year in descending order

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70  
papers

2,855  
citations

147566

31  
h-index

174990

52  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2445  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the possibility of synthesizing multilayered coatings in the (Ti,Al)N system by RCPP: A microstructural study. Surface and Coatings Technology, 2019, 374, 845-851.	2.2	3
2	Effect of P/Ni ratio on the performance of nickel phosphide phases supported on zirconia for the hydrodeoxygenation of m-cresol. Catalysis Communications, 2019, 119, 33-38.	1.6	23
3	Synthesis of MAX Phases in the Zr-Ti-Al-C System. Inorganic Chemistry, 2017, 56, 3489-3498.	1.9	70
4	A new etching environment (FeF <sub>3</sub> /HCl) for the synthesis of two-dimensional titanium carbide MXenes: a route towards selective reactivity vs. water. Journal of Materials Chemistry A, 2017, 5, 22012-22023.	5.2	227
5	Hydrodeoxygenation of m-cresol over nickel and nickel phosphide based catalysts. Influence of the nature of the active phase and the support. Applied Catalysis B: Environmental, 2017, 219, 619-628.	10.8	63
6	Evidence for Symmetry Reduction in Ti <sub>3</sub> (Al <sup>x</sup> Cu <sup>1-x</sup> )C <sub>2</sub> MAX Phase Solid Solutions. Inorganic Chemistry, 2017, 56, 14388-14395.	1.9	24
7	Reactive spark plasma sintering of Ti <sub>3</sub> SnC <sub>2</sub> , Zr <sub>3</sub> SnC <sub>2</sub> and Hf <sub>3</sub> SnC <sub>2</sub> using Fe, Co or Ni additives. Journal of the European Ceramic Society, 2017, 37, 4539-4545.	2.8	23
8	Structure and thermal expansion of (Cr <sub>x</sub> V <sub>1-x</sub> ) <sub>n+1</sub> AlC <sub>n</sub> phases measured by X-ray diffraction. Journal of the European Ceramic Society, 2017, 37, 15-21.	2.8	22
9	Synthesis and characterization of a new (Ti <sub>1-μ</sub> ,Cu <sub>μ</sub> ) <sub>3</sub> (Al,Cu)C <sub>2</sub> MAX phase solid solution. Journal of the European Ceramic Society, 2017, 37, 459-466.	2.8	37
10	Ti <sub>2</sub> AlN thin films synthesized by annealing of (Ti+Al)/AlN multilayers. Materials Research Bulletin, 2016, 80, 58-63.	2.7	26
11	Synthesis of MAX Phases in the Hf-Al-C System. Inorganic Chemistry, 2016, 55, 10922-10927.	1.9	57
12	Site-projected electronic structure of two-dimensional Ti <sub>3</sub> C <sub>2</sub> MXene: the role of the surface functionalization groups. Physical Chemistry Chemical Physics, 2016, 18, 30946-30953.	1.3	121
13	Synthesis of the new MAX phase Zr <sub>2</sub> AlC. Journal of the European Ceramic Society, 2016, 36, 1847-1853.	2.8	116
14	Synthesis of the novel Zr <sub>3</sub> AlC <sub>2</sub> MAX phase. Journal of the European Ceramic Society, 2016, 36, 943-947.	2.8	98
15	Spectroscopic evidence in the visible-ultraviolet energy range of surface functionalization sites in the multilayered Ti <sub>3</sub> C <sub>2</sub> MXene. Physical Review B, 2015, 91, 085411.	1.1	17
16	Ordering of (Cr,V) Layers in Nanolamellar (Cr <sub>&gt;0.5</sub> V <sub>&gt;0.5</sub> ) <sub>n+1</sub> AlC <sub>n</sub> Compounds. Materials Research Letters, 2015, 3, 100-106.	4.1	95
17	Experimental evidence of Cr magnetic moments at low temperature in Cr <sub>2</sub> A(A=Al, Ge)C. Journal of Physics Condensed Matter, 2014, 26, 176002.	0.7	36
18	Experimental and first-principles investigation of the electronic structure anisotropy of Cr <sub>2</sub> AlC. Physical Review B, 2014, 90, .	1.1	17

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19	Enhanced and tunable surface plasmons in two-dimensional $\text{Ti}_3\text{C}_2\text{N}$ stacks: Electronic structure versus boundary effects. <i>Physical Review B</i> , 2014, 89, .	1.1	122
20	Synthesis and Microstructural Characterization of Substoichiometric $\text{Ti}_2\text{Al}(\text{C}_x\text{N}_y)$ Solid Solutions and Related $\text{Ti}_2\text{AlC}_x$ and $\text{Ti}_2\text{AlN}$ Endmembers. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2308-2313.	1.9	21
21	Solid solution effects in the $\text{Ti}_2\text{Al}(\text{C}_x\text{N}_y)$ MAX phases: Synthesis, microstructure, electronic structure and transport properties. <i>Acta Materialia</i> , 2014, 80, 421-434.	3.8	51
22	Studies of the oxidation stability, mechanical characteristics of materials based on max phases of the Ti-Al-(C, N) systems, and of the possibility of their use as tool bonds and materials for polishing. <i>Journal of Superhard Materials</i> , 2014, 36, 9-17.	0.5	18
23	Contribution of core-loss fine structures to the characterization of ion irradiation damages in the nanolaminated ceramic $\text{Ti}_3\text{AlC}_2$ . <i>Acta Materialia</i> , 2013, 61, 7348-7363.	3.8	45
24	Chemically sensitive amorphization process in the nanolaminated $\text{Cr}_2\text{AC}$ (A=Al or Ge) system from TEM in situ irradiation. <i>Journal of Nuclear Materials</i> , 2013, 441, 133-137.	1.3	23
25	Tailoring of the thermal expansion of $\text{Cr}_2(\text{Al}_x\text{Ge}_{1-x})\text{C}$ phases. <i>Journal of the European Ceramic Society</i> , 2013, 33, 897-904.	2.8	99
26	Anisotropy of the resistivity and charge-carrier sign in nanolaminated $\text{Ti}_3\text{AlC}$ : Experiment and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2013, 87, .	1.1	38
27	Invar Like Behavior of the $\text{Cr}_2\text{AlC}$ MAX Phase at Low Temperature. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3872-3876.	1.9	38
28	Formation Mechanisms of $\text{Ti}_3\text{SnC}_2$ Nanolaminated Carbide Using Fe as Additive. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3239-3242.	1.9	12
29	Investigation of Al-Ti Ohmic Contact to N-Type 4H-SiC. <i>Materials Science Forum</i> , 2012, 711, 184-187.	0.3	4
30	Epitaxial growth of $\text{Ti}_3\text{SiC}_2$ thin films with basal planes parallel or orthogonal to the surface on $\text{SiC}$ . <i>Applied Physics Letters</i> , 2012, 101, .	1.5	19
31	Interplay between many-body effects and charge transfers in $\text{Cr}_2\text{AlC}$ bulk plasmon excitation. <i>Physical Review B</i> , 2012, 86, .	1.1	19
32	Structural investigation of substoichiometry and solid solution effects in $\text{Ti}_2\text{Al}(\text{C}_x\text{N}_{1-x})_y$ compounds. <i>Journal of the European Ceramic Society</i> , 2012, 32, 1803-1811.	2.8	58
33	Mechanical properties of materials based on MAX phases of the Ti-Al-C system. <i>Journal of Superhard Materials</i> , 2012, 34, 102-109.	0.5	23
34	Synthesis of ternary compounds of the Ti-Al-C system at high pressures and temperatures. <i>Journal of Superhard Materials</i> , 2011, 33, 307-314.	0.5	8
35	Epitaxial growth and electrical transport properties of $\text{Cr}_2\text{GeC}$ thin films. <i>Physical Review B</i> , 2011, 84, .	1.1	56
36	Stability of the nitrogen-deficient $\text{Ti}_2\text{AlN}_x$ MAX phase in $\text{Ar}^{2+}$ -irradiated (Ti,Al)N/ $\text{Ti}_2\text{AlN}_x$ multilayers. <i>Journal of Materials Science</i> , 2010, 45, 5547-5552.	1.7	39

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37	Anisotropy of $\langle m_{\text{xx}} \rangle$ response investigated by <i>ab initio</i> calculations and electron energy-loss spectroscopy. <i>Physical Review B</i> , 2010, 81, .	1.1	31
38	Deposit of glass fragments during femtosecond laser penetrating keratoplasty. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2009, 247, 107-113.	1.0	5
39	Reaction synthesis of layered ternary Ti <sub>2</sub> AlC ceramic. <i>Journal of the European Ceramic Society</i> , 2009, 29, 187-194.	2.8	34
40	Formation of (Ti,Al)N/TiAlN multilayers after annealing of TiN/TiAl(N) multilayers deposited by ion beam sputtering. <i>Journal of Applied Physics</i> , 2008, 103, .	1.1	27
41	A New Ternary Nanolaminate Carbide: Ti <sub>3</sub> SnC <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , 2007, 90, 2642-2644.	1.9	76
42	Encapsulation of metallic nanoclusters in carbon and boron nitride thin films prepared by ion-beam sputtering. <i>Surface and Coatings Technology</i> , 2006, 200, 6251-6257.	2.2	12
43	Resonant nuclear reaction analysis study of carbon phase formation during carbon ion-implantation into silver substrates. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2003, 207, 409-414.	0.6	4
44	Nucleation and growth of carbon onions synthesized by ion implantation at high temperatures. <i>Physical Review B</i> , 2003, 68, .	1.1	15
45	Mechanisms involved in the formation of onionlike carbon nanostructures synthesized by ion implantation at high temperature. <i>Physical Review B</i> , 2002, 65, .	1.1	18
46	Electron microscopy study of carbon onions synthesized by ion implantation. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002, 82, 1509-1520.	0.8	5
47	Structure and properties of carbon onion layers deposited onto various substrates. <i>Journal of Applied Physics</i> , 2002, 91, 1560-1567.	1.1	69
48	Nucleation and growth of carbon onions synthesized by ion-implantation: a transmission electron microscopy study. <i>Materials Letters</i> , 2002, 54, 222-228.	1.3	33
49	Electronic structure and optical properties of concentric-shell fullerenes from electron-energy-loss spectroscopy in transmission. <i>Physical Review B</i> , 2001, 63, .	1.1	34
50	Carbon-onion thin-film synthesis onto silica substrates. <i>Chemical Physics Letters</i> , 2000, 320, 202-205.	1.2	33
51	Morphology of encapsulated iron nanoparticles obtained by co-sputtering and implantation: a GISAXS study. <i>Journal of Applied Crystallography</i> , 2000, 33, 437-441.	1.9	29
52	Carbon onions formation by high-dose carbon ion implantation into copper and silver. <i>Surface and Coatings Technology</i> , 2000, 128-129, 43-50.	2.2	76
53	Optical transmittance spectroscopy of concentric-shell fullerenes layers produced by carbon ion implantation. <i>European Physical Journal B</i> , 2000, 18, 535-540.	0.6	12
54	Structural and magnetic properties of Fe/C <sub>1-x</sub> nanocomposite thin films. <i>Journal of Applied Physics</i> , 2000, 87, 3432-3443.	1.1	78

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55	Electron-energy-loss spectroscopy of plasmon excitations in concentric-shell fullerenes. Physical Review B, 1999, 59, 5832-5836.	1.1	29
56	Co-sputtering C-Cu thin film synthesis: Microstructural study of copper precipitates encapsulated into a carbon matrix. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 501-516.	0.6	29
57	Microstructural study of a C-Fe alloy synthesized by ion-beam sputtering co-deposition. Applied Physics Letters, 1999, 74, 800-802.	1.5	22
58	Thin film of spherical carbon onions onto silver. Carbon, 1998, 36, 499-502.	5.4	14
59	Fourier transform infra-red characterization of carbon onions produced by carbon-ion implantation. Chemical Physics Letters, 1998, 285, 216-220.	1.2	28
60	Nanoindentation characterization of SiC coatings prepared by dynamic ion mixing. Surface and Coatings Technology, 1998, 100-101, 128-131.	2.2	8
61	Silver nanoparticles encapsulated in carbon cages obtained by co-sputtering of the metal and graphite. Surface Science, 1998, 409, 358-371.	0.8	74
62	Influence of the implantation parameters on the microstructure of carbon onions produced by carbon ion implantation. Applied Physics Letters, 1998, 73, 3096-3098.	1.5	31
63	Étude morphologique d'agrégats inclus dans des couches minces superficielles par diffusion centrale des rayons X en incidence rasante. European Physical Journal Special Topics, 1998, 08, Pr5-295-Pr5-302.	0.2	0
64	Carbon onions thin film formation and characterization. Europhysics Letters, 1997, 38, 471-476.	0.7	51
65	Characterization and growth of carbon phases synthesized by high temperature carbon ion implantation into copper. Diamond and Related Materials, 1997, 6, 261-265.	1.8	14
66	Fullerene onion formation by carbon-ion implantation into copper. Synthetic Metals, 1996, 77, 253-256.	2.1	19
67	A new technique for fullerene onion formation. Journal of Materials Science, 1995, 30, 4787-4792.	1.7	99
68	Carbon-based hard films produced by high-temperature carbon-ion implantation. Thin Solid Films, 1995, 263, 162-168.	0.8	13
69	Investigation of Ti <sub>3</sub> SiC <sub>2</sub> MAX Phase Formation onto N-Type 4H-SiC. Materials Science Forum, 0, 717-720, 845-848.	0.3	6
70	Electron microscopy study of carbon onions synthesized by ion implantation. , 0, .		1