

Thierry Cabioc'h

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5141515/publications.pdf>

Version: 2024-02-01

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 | A new etching environment (FeF ₃ /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 |
| 2 | Enhanced and tunable surface plasmons in two-dimensional Ti ₃ C ₂ MXene stacks: Electronic structure versus boundary effects. Physical Review B, 2014, 89, . | 1.1 | 122 |
| 3 | Site-projected electronic structure of two-dimensional Ti ₃ C ₂ MXene: the role of the surface functionalization groups. Physical Chemistry Chemical Physics, 2016, 18, 30946-30953. | 1.3 | 121 |
| 4 | Synthesis of the new MAX phase Zr ₂ AlC. Journal of the European Ceramic Society, 2016, 36, 1847-1853. | 2.8 | 116 |
| 5 | A new technique for fullerene anion formation. Journal of Materials Science, 1995, 30, 4787-4792. | 1.7 | 99 |
| 6 | Tailoring of the thermal expansion of Cr ₂ (Al _x Ge _{1-x})C phases. Journal of the European Ceramic Society, 2013, 33, 897-904. | 2.8 | 99 |
| 7 | Synthesis of the novel Zr ₃ AlC ₂ MAX phase. Journal of the European Ceramic Society, 2016, 36, 943-947. | 2.8 | 98 |
| 8 | Ordering of (Cr,V) Layers in Nanolamellar (Cr _{0.5} V _{0.5}) _{n+1} AlC _n Compounds. Materials Research Letters, 2015, 3, 100-106. | 4.1 | 95 |
| 9 | Structural and magnetic properties of Fe _x Cr _{1-x} nanocomposite thin films. Journal of Applied Physics, 2000, 87, 3432-3443. | 1.1 | 78 |
| 10 | Carbon anions formation by high-dose carbon ion implantation into copper and silver. Surface and Coatings Technology, 2000, 128-129, 43-50. | 2.2 | 76 |
| 11 | A New Ternary Nanolaminate Carbide: Ti ₃ SnC ₂ . Journal of the American Ceramic Society, 2007, 90, 2642-2644. | 1.9 | 76 |
| 12 | Spectroscopic evidence in the visible-ultraviolet energy range of surface functionalization sites in the multilayer Ti ₃ C ₂ MXene. Physical Review B, 2015, 91, . | 1.1 | 75 |
| 13 | Silver nanoparticles encapsulated in carbon cages obtained by co-sputtering of the metal and graphite. Surface Science, 1998, 409, 358-371. | 0.8 | 74 |
| 14 | Synthesis of MAX Phases in the Zr-Ti-Al-C System. Inorganic Chemistry, 2017, 56, 3489-3498. | 1.9 | 70 |
| 15 | Structure and properties of carbon anion layers deposited onto various substrates. Journal of Applied Physics, 2002, 91, 1560-1567. | 1.1 | 69 |
| 16 | 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 |
| 17 | Structural investigation of substoichiometry and solid solution effects in Ti ₂ Al(C _x N _{1-x}) _y compounds. Journal of the European Ceramic Society, 2012, 32, 1803-1811. | 2.8 | 58 |
| 18 | Synthesis of MAX Phases in the Hf-Al-C System. Inorganic Chemistry, 2016, 55, 10922-10927. | 1.9 | 57 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Epitaxial growth and electrical transport properties of Cr_2GeC thin films. <i>Physical Review B</i> , 2011, 84, . | 1.1 | 56 |
| 20 | Carbon onions thin film formation and characterization. <i>Europhysics Letters</i> , 1997, 38, 471-476. | 0.7 | 51 |
| 21 | Solid solution effects in the $\text{Ti}_2\text{Al}(\text{C N})$ MAX phases: Synthesis, microstructure, electronic structure and transport properties. <i>Acta Materialia</i> , 2014, 80, 421-434. | 3.8 | 51 |
| 22 | Contribution of core-loss fine structures to the characterization of ion irradiation damages in the nanolaminated ceramic Ti_3AlC_2 . <i>Acta Materialia</i> , 2013, 61, 7348-7363. | 3.8 | 45 |
| 23 | Stability of the nitrogen-deficient Ti_2AlN_x MAX phase in Ar^{2+} -irradiated $(\text{Ti,Al})\text{N}/\text{Ti}_2\text{AlN}_x$ multilayers. <i>Journal of Materials Science</i> , 2010, 45, 5547-5552. | 1.7 | 39 |
| 24 | Anisotropy of the resistivity and charge-carrier sign in nanolaminated Ti_2AlC : Experiment and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2013, 87, . | 1.1 | 38 |
| 25 | Invar Like Behavior of the Cr_2AlC MAX Phase at Low Temperature. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3872-3876. | 1.9 | 38 |
| 26 | Synthesis and characterization of a new $(\text{Ti}_{1-\hat{\mu}}, \text{Cu}_{\hat{\mu}})_3(\text{Al,Cu})\text{C}_2$ MAX phase solid solution. <i>Journal of the European Ceramic Society</i> , 2017, 37, 459-466. | 2.8 | 37 |
| 27 | Experimental evidence of Cr magnetic moments at low temperature in Cr_2A (A=Al, Ge)C. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 176002. | 0.7 | 36 |
| 28 | 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 |
| 29 | Reaction synthesis of layered ternary Ti_2AlC ceramic. <i>Journal of the European Ceramic Society</i> , 2009, 29, 187-194. | 2.8 | 34 |
| 30 | Carbon-onion thin-film synthesis onto silica substrates. <i>Chemical Physics Letters</i> , 2000, 320, 202-205. | 1.2 | 33 |
| 31 | 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 |
| 32 | Influence of the implantation parameters on the microstructure of carbon onions produced by carbon ion implantation. <i>Applied Physics Letters</i> , 1998, 73, 3096-3098. | 1.5 | 31 |
| 33 | Anisotropy of Ti_2AlC response investigated by <i>ab initio</i> calculations and electron energy-loss spectroscopy. <i>Physical Review B</i> , 2010, 81, . | 1.1 | 31 |
| 34 | Electron-energy-loss spectroscopy of plasmon excitations in concentric-shell fullerenes. <i>Physical Review B</i> , 1999, 59, 5832-5836. | 1.1 | 29 |
| 35 | Co-sputtering C-Cu thin film synthesis: Microstructural study of copper precipitates encapsulated into a carbon matrix. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1999, 79, 501-516. | 0.6 | 29 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Fourier transform infra-red characterization of carbon onions produced by carbon-ion implantation. Chemical Physics Letters, 1998, 285, 216-220. | 1.2 | 28 |
| 38 | Formation of (Ti,Al)N \hat{c} Ti ₂ AlN multilayers after annealing of TiN \hat{c} TiAl(N) multilayers deposited by ion beam sputtering. Journal of Applied Physics, 2008, 103, . | 1.1 | 27 |
| 39 | Ti ₂ AlN thin films synthesized by annealing of (Ti+Al)/AlN multilayers. Materials Research Bulletin, 2016, 80, 58-63. | 2.7 | 26 |
| 40 | Evidence for Symmetry Reduction in Ti ₃ (Al _{1-x} Cr _x)Cu ₂ C ₂ MAX Phase Solid Solutions. Inorganic Chemistry, 2017, 56, 14388-14395. | 1.9 | 24 |
| 41 | Mechanical properties of materials based on MAX phases of the Ti-Al-C system. Journal of Superhard Materials, 2012, 34, 102-109. | 0.5 | 23 |
| 42 | Chemically sensitive amorphization process in the nanolaminated Cr ₂ AC (A=Al or Ge) system from TEM in situ irradiation. Journal of Nuclear Materials, 2013, 441, 133-137. | 1.3 | 23 |
| 43 | Reactive spark plasma sintering of Ti ₃ SnC ₂ , Zr ₃ SnC ₂ and Hf ₃ SnC ₂ using Fe, Co or Ni additives. Journal of the European Ceramic Society, 2017, 37, 4539-4545. | 2.8 | 23 |
| 44 | 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 |
| 45 | Microstructural study of a C \hat{c} Fe alloy synthesized by ion-beam sputtering co-deposition. Applied Physics Letters, 1999, 74, 800-802. | 1.5 | 22 |
| 46 | Structure and thermal expansion of (Cr _x V _{1-x}) _n +1AlC _n phases measured by X-ray diffraction. Journal of the European Ceramic Society, 2017, 37, 15-21. | 2.8 | 22 |
| 47 | Synthesis and Microstructural Characterization of Substoichiometric Ti ₂ Al(C _x N _y) Solid Solutions and Related Ti ₂ AlC _x and Ti ₂ AlN End \hat{c} Members. Journal of the American Ceramic Society, 2014, 97, 2308-2313. | 1.9 | 21 |
| 48 | Fullerene onion formation by carbon-ion implantation into copper. Synthetic Metals, 1996, 77, 253-256. | 2.1 | 19 |
| 49 | Epitaxial growth of Ti ₃ SiC ₂ thin films with basal planes parallel or orthogonal to the surface on \hat{c} -SiC. Applied Physics Letters, 2012, 101, . | 1.5 | 19 |
| 50 | Interplay between many-body effects and charge transfers in Cr \hat{c} AlC bulk plasmon excitation. Physical Review B, 2012, 86, . | 1.1 | 19 |
| 51 | Mechanisms involved in the formation of onionlike carbon nanostructures synthesized by ion implantation at high temperature. Physical Review B, 2002, 65, . | 1.1 | 18 |
| 52 | 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. Journal of Superhard Materials, 2014, 36, 9-17. | 0.5 | 18 |
| 53 | Experimental and first-principles investigation of the electronic structure anisotropy of Cr ₂ AlC. Physical Review B, 2014, 90, . | 1.1 | 17 |
| 54 | Nucleation and growth of carbon onions synthesized by ion implantation at high temperatures. Physical Review B, 2003, 68, . | 1.1 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Characterization and growth of carbon phases synthesized by high temperature carbon ion implantation into copper. <i>Diamond and Related Materials</i> , 1997, 6, 261-265. | 1.8 | 14 |
| 56 | Thin film of spherical carbon onions onto silver. <i>Carbon</i> , 1998, 36, 499-502. | 5.4 | 14 |
| 57 | Carbon-based hard films produced by high-temperature carbon-ion implantation. <i>Thin Solid Films</i> , 1995, 263, 162-168. | 0.8 | 13 |
| 58 | 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 |
| 59 | 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 |
| 60 | Formation Mechanisms of Ti ₃ SnC ₂ Nanolaminate Carbide Using Fe as Additive. <i>Journal of the American Ceramic Society</i> , 2013, 96, 3239-3242. | 1.9 | 12 |
| 61 | Nanoindentation characterization of SiC coatings prepared by dynamic ion mixing. <i>Surface and Coatings Technology</i> , 1998, 100-101, 128-131. | 2.2 | 8 |
| 62 | 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 |
| 63 | Investigation of Ti ₃ SiC ₂ MAX Phase Formation onto N-Type 4H-SiC. <i>Materials Science Forum</i> , 0, 717-720, 845-848. | 0.3 | 6 |
| 64 | 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 |
| 65 | 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 |
| 66 | Resonant nuclear reaction analysis study of carbon phase formation during carbon ion-implantation into silver substrates. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 207, 409-414. | 0.6 | 4 |
| 67 | Investigation of Al-Ti Ohmic Contact to N-Type 4H-SiC. <i>Materials Science Forum</i> , 2012, 711, 184-187. | 0.3 | 4 |
| 68 | On the possibility of synthesizing multilayered coatings in the (Ti,Al)N system by RGPP: A microstructural study. <i>Surface and Coatings Technology</i> , 2019, 374, 845-851. | 2.2 | 3 |
| 69 | Electron microscopy study of carbon onions synthesized by ion implantation. , 0, . | | 1 |
| 70 | Étude morphologique d'agrégats inclus dans des couches minces superficielles par diffusion centrale des rayons X en incidence rasante. <i>European Physical Journal Special Topics</i> , 1998, 08, Pr5-295-Pr5-302. | 0.2 | 0 |