StÃ©phane CÃ©lÃ©rier

List of Publications by Year
in descending order

32 papers	1,424 citations	471061 17 h-index	414034 32 g-index
35 all docs	35 docs citations	35 times ranked	1599 citing authors

#	Article	IF	Citations
1	A new etching environment (FeF₃/HCl) for the synthesis of two-dimensional titanium carbide MXenes: a route towards selective reactivity vs.Âwater. Journal of Materials Chemistry A, 2017, 5, 22012-22023.	5.2	227
2	A critical analysis of the X-ray photoelectron spectra of Ti3C2Tz MXenes. Matter, 2021, 4, 1224-1251.	5.0	180
3	One MAX phase, different MXenes: A guideline to understand the crucial role of etching conditions on Ti3C2Tx surface chemistry. Applied Surface Science, 2020, 530, 147209.	3.1	172
4	Site-projected electronic structure of two-dimensional Ti₃C₂MXene: the role of the surface functionalization groups. Physical Chemistry Chemical Physics, 2016, 18, 30946-30953.	1.3	121
5	Spectroscopic evidence in the visible-ultraviolet energy range of surface functionalization sites in the multilayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ti</mml:mi><mml:mn>3</mml:mn></mml: mathvariant="normal">C</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>MXene. Physical Review B, 2015, 91, .	3.1	75
6	Hydration of Ti₃C₂T<i>_x</i> MXene: An Interstratification Process with Major Implications on Physical Properties. Chemistry of Materials, 2019, 31, 454-461.	3.2	70
7	New chemical route based on solâ€"gel process for the synthesis of oxyapatite La9.33Si6O26. Ceramics International, 2006, 32, 271-276.	2.3	67
8	MXene Supported Cobalt Layered Double Hydroxide Nanocrystals: Facile Synthesis Route for a Synergistic Oxygen Evolution Reaction Electrocatalyst. Advanced Materials Interfaces, 2019, 6, 1901328.	1.9	66
9	Synthesis by solâ€"gel route of oxyapatite powders for dense ceramics: Applications as electrolytes for solid oxide fuel cells. Journal of the European Ceramic Society, 2005, 25, 2665-2668.	2.8	53
10	Synthesis of La9.33Si6O26 Poreâ€"Solid Nanoarchitectures via Epoxide-Driven Solâ€"Gel Chemistry. Advanced Materials, 2006, 18, 615-618.	11.1	52
11	Glycerol dehydration to hydroxyacetone in gas phase over copper supported on magnesium oxide (hydroxide) fluoride catalysts. Applied Catalysis A: General, 2018, 557, 135-144.	2.2	39
12	Ion Implantation as an Approach for Structural Modifications and Functionalization of Ti₃C₂T_{<i>x</i>} MXenes. ACS Nano, 2021, 15, 4245-4255.	7.3	37
13	Incorporation of Water and Fast Proton Conduction in the Inherently Oxygen-Deficient Compound La26O27â–¡(BO3)8. Advanced Materials, 2007, 19, 867-870.	11.1	30
14	On a Two-Dimensional MoS₂/Mo₂CT_x Hydrogen Evolution Catalyst Obtained by the Topotactic Sulfurization of Mo₂CT_x MXene. Journal of the Electrochemical Society, 2020, 167, 124507.	1.3	26
15	High specific surface area metal fluorides as catalysts for the fluorination of 2-chloropyridine by HF. Applied Catalysis A: General, 2013, 453, 20-27.	2.2	25
16	Alkylation of thiophenic compounds over heteropoly acid H3PW12O40 supported on MgF2. Applied Catalysis B: Environmental, 2014, 152-153, 241-249.	10.8	25
17	Effects of Water Uptake on the Inherently Oxygen-Deficient Compounds Ln₂₆O₂₇â–¡(BO₃)₈ (Ln = La, Nd). Inorganic Chemistry, 2007, 46, 9961-9967.	1.9	19
18	Catalytic Fluorination of Various Chlorinated Hydrocarbons by HF and a Chromium Based Catalyst: Effect of the Presence of Zinc. Catalysis Letters, 2010, 138, 215-223.	1.4	17

#	Article	IF	Citations
19	Promising heterogeneous catalytic systems based on metal fluorides and oxide hydroxide fluorides: A short review. Catalysis Communications, 2015, 67, 26-30.	1.6	16
20	Inorganic hydroxide fluorides as solid catalysts for acylation of 2-methylfuran by acetic anhydride. Applied Catalysis B: Environmental, 2015, 168-169, 515-523.	10.8	15
21	Water incorporation into the (Ba1âˆ'xLax)2In2O5+xâ–¡1âˆ'x (0â‰x<0.6) system. Solid State Ionics, 2007, 178, 1353-1359.	1.3	13
22	Selective fluorination of substituted trichloromethyl benzenes by HF in liquid phase: Preparation of fluorinated building blocks. Journal of Fluorine Chemistry, 2010, 131, 1241-1246.	0.9	13
23	Fluorination of 2-chloropyridine over metal oxide catalysts as new catalytic fluorination systems. Catalysis Communications, 2010, 12, 151-153.	1.6	13
24	Upgrading of furfural to biofuel precursors <i>via</i> aldol condensation with acetone over magnesium hydroxide fluorides MgF_{2âˆ'x}(OH)_x. Catalysis Science and Technology, 2019, 9, 5793-5802.	2.1	12
25	Mixed Ba1âˆ'xLaxF2+x fluoride materials as catalyst for the gas phase fluorination of 2-chloropyridine by HF. Applied Catalysis B: Environmental, 2017, 204, 107-118.	10.8	9
26	Electronic Structure Sensitivity to Surface Disorder and Nanometer-Scale Impurity of 2D Titanium Carbide MXene Sheets as Revealed by Electron Energy-Loss Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 27071-27081.	1.5	9
27	Catalytic fluorination of dichloromethylbenzene by HF in liquid phase. Preparation of fluorinated building blocks. Journal of Fluorine Chemistry, 2012, 134, 103-106.	0.9	6
28	New synthesis of pure Ce x Zr1âˆ'x O2 mixed oxides (0Ââ‰ÂxÂâ‰Â1) by an epoxide solâ€"gel method. Journal of Sol-Gel Science and Technology, 2010, 54, 220-231.	1.1	5
29	Catalytic fluorination of 2-chloropyridine over metal oxide catalysts in gas phase in the presence of HF. Applied Catalysis A: General, 2012, 413-414, 149-156.	2.2	5
30	Catalytic fluorination of 1,1,1-trifluoro-2-chloro-ethane in the presence of oxygen over chromium based catalyst doped or not by zinc supported over partially fluorinated alumina. Journal of Fluorine Chemistry, 2011, 132, 1262-1265.	0.9	4
31	Plasmon spectroscopy for the determination of Ti₃C₂T_x MXene few layer stacks architecture. 2D Materials, 2022, 9, 035017.	2.0	2
32	Ion Implantation Enhanced Exfoliation Efficiency of V₂AlC Single Crystals: Implications for Large V₂CT<i>_z</i> Nanosheet Production. ACS Applied Nano Materials, 2022, 5, 8029-8037.	2.4	1