Franck Tessier

List of Publications by Year
in descending order

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85	2,428	236925	214800
papers	citations	25 h-index	47 g-index

90	90	90	3027
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Functionalized silica for heavy metal ions adsorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 221, 221-230.	4.7	278
2	Photoelectrochemical Properties of Crystalline Perovskite Lanthanum Titanium Oxynitride Films under Visible Light. Journal of Physical Chemistry C, 2009, 113, 6156-6162.	3.1	122
3	P-Type Nitrogen-Doped ZnO Nanoparticles Stable under Ambient Conditions. Journal of the American Chemical Society, 2012, 134, 464-470.	13.7	115
4	New routes to transition metal nitrides: and characterization of new phases. Journal of Materials Chemistry, 1999, 9, 297-304.	6.7	110
5	Ternary and higher order rare-earth nitride materials: synthesis and characterization of ionic-covalent oxynitride powders. Journal of Solid State Chemistry, 2003, 171, 143-151.	2.9	95
6	Energetics of binary iron nitrides. Solid State Sciences, 2000, 2, 457-462.	3.2	80
7	Synthesis and energetics of yellow TaON. Solid State Sciences, 2002, 4, 1071-1076.	3.2	79
8	Optical Properties of the Perovskite Solid Solution LaTiO2Nâ€“ATiO3(A = Sr, Ba). European Journal of Inorganic Chemistry, 2006, 2006, 1223-1230.	2.0	74
9	Titanium and vanadium oxynitride powders as pseudo-capacitive materials for electrochemical capacitors. Electrochimica Acta, 2012, 82, 257-262.	5.2	69
10	Enthalpy of Formation of Gallium Nitride. Journal of Physical Chemistry B, 2000, 104, 4060-4063.	2.6	63
11	Glass foams for environmental applications. Journal of Non-Crystalline Solids, 2010, 356, 2562-2568.	3.1	63
12	Optical properties of oxynitride powders. Journal of the Ceramic Society of Japan, 2009, 117, 1-5.	1.1	61
13	Thermal Ammonolysis Study of the Rare-Earth Tantalates RTaO4. Chemistry of Materials, 2005, 17, 152-156.	6.7	58
14	Mesoporous Metal Nitride Materials Prepared from Bulk Oxides. Journal of the American Ceramic Society, 2012, 95, 3084-3089.	3.8	56
15	Calorimetric determination of the enthalpy of formation of InN and comparison with AlN and GaN. Journal of Materials Research, 2001, 16, 2824-2831.	2.6	55
16	Thermochemistry of a New Class of Materials Containing Dinitrogen Pairs in an Oxide Matrix. Chemistry of Materials, 2005, 17, 3570-3574.	6.7	52
17	Typical features of nitrogen in nitride-type compounds. Solid State Sciences, 2001, 3, 1143-1146.	0.7	51
18	Eu^2+ and Mn^2+ codoped Ba_2Mg(BO_3)_2â€”new red phosphor for white LEDs. Optics Letters, 2008, 33, 2865.	3.3	49

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19	Zinc Germanium Oxynitride: Influence of the Preparation Method on the Photocatalytic Properties for Overall Water Splitting. Journal of Physical Chemistry C, 2009, 113, 8526-8531.	3.1	47
20	Thermochemistry of Phosphorus Oxynitrides:Â PON and LiNaPON Glasses. Chemistry of Materials, 2000, 12, 148-154.	6.7	38
21	Lanthanum titanate ceramics: Electrical characterizations in large temperature and frequency ranges. Journal of the European Ceramic Society, 2005, 25, 2085-2088.	5.7	38
22	UV absorption properties of ceria-modified compositions within the fluorite-type solid solution CeO2â€“Y6WO12. Journal of Solid State Chemistry, 2006, 179, 3184-3190.	2.9	38
23	Photophysical Properties of SrTaO₂N Thin Films and Influence of Anion Ordering: A Joint Theoretical and Experimental Investigation. Chemistry of Materials, 2017, 29, 3989-3998.	6.7	37
24	Oxynitride perovskite LaTiOxNy thin films deposited by reactive sputtering. Progress in Solid State Chemistry, 2007, 35, 299-308.	7.2	35
25	Reactive Sputtering Deposition of Perovskite Oxide and Oxynitride Lanthanum Titanium Films: Structural and Dielectric Characterization. Crystal Growth and Design, 2013, 13, 4852-4858.	3.0	33
26	Preparation of transition metal nitrides using unusual routes. Journal of the European Ceramic Society, 1997, 17, 1825-1829.	5.7	25
27	Structural and dielectric properties of oxynitride perovskite LaTiOxNy thin films. Thin Solid Films, 2008, 517, 544-549.	1.8	24
28	Tunability of the optical properties in the Y6(W,Mo)(O,N)12 system. Solid State Sciences, 2009, 11, 533-536.	3.2	23
29	Mixed valent niobium nitrides and oxynitrides resulting from ammonolysis of alkaline niobates. Journal of Alloys and Compounds, 1997, 262-263, 512-515.	5.5	21
30	Powder preparation and UV absorption properties of selected compositions in the CeO2â€“Y2O3 system. Journal of Solid State Chemistry, 2008, 181, 1204-1212.	2.9	21
31	Synthesis of Ni-poor NiO nanoparticles for p-DSSC applications. Solid State Sciences, 2016, 54, 37-42.	3.2	21
32	New scheelite-type oxynitrides in systems RWO3Nâ€“AWO4 (R = rare-earth element; A = Ca, Sr) from precursors obtained by the citrate route. Materials Research Bulletin, 2004, 39, 1091-1101.	5.2	20
33	Chemical tunability of europium emission in phosphate glasses. Journal of Luminescence, 2017, 183, 53-61.	3.1	20
34	Determining the Nitrogen Content in (Oxy)Nitride Materials. Materials, 2018, 11, 1331.	2.9	20
35	Preparation of nitrogen doped zinc oxide nanoparticles and thin films by colloidal route and low temperature nitridation process. Solid State Sciences, 2016, 54, 30-36.	3.2	19
36	Perovskite (Sr2Ta2O7)100â^'x(La2Ti2O7)x ceramics: From dielectric characterization to dielectric resonator antenna applications. Journal of Alloys and Compounds, 2021, 872, 159728.	5.5	19

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37	Synthesis and characterization of tin containing molybdophosphate and tungstophosphate glasses. Journal of Non-Crystalline Solids, 2010, 356, 87-92.	3.1	18
38	Preparation of niobium based oxynitride nanosheets by exfoliation of Ruddlesden-Popper phase precursor. Solid State Sciences, 2016, 54, 17-21.	3.2	18
39	Unravelling the origin of the giant Zn deficiency in wurtzite type ZnO nanoparticles. Scientific Reports, 2015, 5, 12914.	3.3	17
40	An original way to prepare nitride-type compounds from sulfide precursors. Journal of Alloys and Compounds, 1997, 262-263, 410-415.	5.5	16
41	Nitrogen-substituted TiO2: investigation on the photocatalytic activity in the visible light range. Journal of Materials Science, 2009, 44, 6110-6116.	3.7	16
42	Photoluminescence of Eu²⁺â€Doped Strontium Cyanamide: A Novel Host Lattice for Eu²⁺. Journal of the American Ceramic Society, 2010, 93, 3052-3055.	3.8	16
43	Structural study of gallium oxynitrides prepared by ammonolysis of different oxide precursors. Journal Physics D: Applied Physics, 2009, 42, 045408.	2.8	14
44	Lanthanum titanium perovskite compound: Thin film deposition and high frequency dielectric characterization. Thin Solid Films, 2014, 553, 76-80.	1.8	14
45	Novel color-tunable Gd2O2CN2:Tb3+, Eu3+ phosphors: Characterization and photoluminescence properties. Ceramics International, 2016, 42, 12508-12511.	4.8	14
46	Experimental and Theoretical Evidences of p-Type Conductivity in Nickel Carbodiimide Nanoparticles with a Delafossite Structure Type. Inorganic Chemistry, 2017, 56, 7922-7927.	4.0	14
47	Ferroelectricity and high tunability in novel strontium and tantalum based layered perovskite materials. Journal of the European Ceramic Society, 2018, 38, 2526-2533.	5.7	14
48	Thermodynamics of Formation of Binary and Ternary Nitrides in the System Ce/Mn/N. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2001, 627, 194-200.	1.2	13
49	Characterization of Nd2AlO3N and Sm2AlO3N oxynitrides synthesized by carbothermal reduction and nitridation. Journal of Alloys and Compounds, 2011, 509, 5839-5842.	5.5	13
50	Crystal structure and optical properties of oxynitride rare-earth tantalates RTaâ€“(O, N) (R=Nd, Gd, Y). Materials Research Bulletin, 2008, 43, 811-818.	5.2	12
51	Growth of (Sr,La)-(Ta,Ti)-O-N perovskite oxide and oxynitride films by radio frequency magnetron sputtering: Influence of the reactive atmosphere on the film structure. Journal of Crystal Growth, 2015, 413, 5-11.	1.5	12
52	Evolution of the elastic modulus of Zrâ€“Cuâ€“Al BMGs during annealing treatment and crystallization: Role of Zr/Cu ratio. Journal of Non-Crystalline Solids, 2015, 421, 35-40.	3.1	12
53	Ferroelectric and dielectric study of strontium tantalum based perovskite oxynitride films deposited by reactive rf magnetron sputtering. Materials Research Bulletin, 2017, 96, 126-132.	5.2	12
54	Perovskite oxynitride LaTiOxNy thin films: Dielectric characterization in low and high frequencies. Thin Solid Films, 2011, 520, 778-783.	1.8	11

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55	Nanometric nickel exsolution in the hexagonal perovskite Ba8Ta6NiO24: Survey of the structural, magnetic and catalytic features. Journal of Alloys and Compounds, 2018, 766, 987-993.	5.5	11
56	Original Synthesis of Molybdenum Nitrides Using Metal Cluster Compounds as Precursors: Applications in Heterogeneous Catalysis. Chemistry of Materials, 2020, 32, 6026-6034.	6.7	11
57	Topochemical Reduction of YMnO‹sub›3‹/sub› into a Composite Structure. Inorganic Chemistry, 2017, 56, 8547-8553.	4.0	9
58	Characterization of fluorite-type oxynitride phases in the R2TaON system (R=rare-earth element). Materials Research Bulletin, 2008, 43, 30-37.	5.2	8
59	Luminescent properties of novel red-emitting phosphor: Gd_2O_2CN_2:Eu^3+. Optical Materials Express, 2015, 5, 2616.	3.0	8
60	Electronic Band Transitions in Î³-Ge3N4. Electronic Materials Letters, 2021, 17, 315-323.	2.2	8
61	Energetics of Nitridophosphates PON and â€œLiNaPON Glassesâ€• Materials Research Society Symposia Proceedings, 1998, 547, 389.	0.1	7
62	Study of the Râ€“(Zr,W)â€“(O,N) (R=Y, Nd, Sm, Gd, Yb) oxynitride system. Materials Research Bulletin, 2010, 45, 97-102.	5.2	7
63	Dielectric oxynitride LaTiOxNy thin films deposited by reactive radio-frequency sputtering. Thin Solid Films, 2012, 520, 4536-4540.	1.8	7
64	Mesoporous VN prepared by solidâ€“solid phase separation. Journal of Solid State Chemistry, 2013, 197, 398-401.	2.9	7
65	Influence of the sputtering reactive gas on the oxide and oxynitride LaTiON deposition by RF magnetron sputtering. Applied Surface Science, 2013, 264, 533-537.	6.1	7
66	Preparation and optical characteristics of novel oxynitride phases in the R3(Ta/Nb)â€“Oâ€“N system (RÂ=ÂLa,) Tj ETQq0 0 0 rgBT /Overl	3.2	6
67	Deposition and dielectric characterization of strontium and tantalum-based oxide and oxynitride perovskite thin films. Solid State Sciences, 2016, 54, 22-29.	3.2	6
68	Deposition and dielectric study as function of thickness of perovskite oxynitride SrTaO 2 N thin films elaborated by reactive sputtering. Surface and Coatings Technology, 2017, 324, 607-613.	4.8	6
69	Transesterification of vegetable oils by AlPOxNy heterogeneous catalysts. Applied Catalysis B: Environmental, 2016, 185, 253-264.	20.2	5
70	Preparation and Characterization of New Molybdenum Nitride or Oxynitride Phases. Materials Research Society Symposia Proceedings, 1994, 368, 15.	0.1	4
71	Preparation and Photoluminescence Properties of Eu 2+ -Doped Oxyapatite-Type Sr x La 10â^' x (SiO 4) 6 O 3â^' x /2. Chinese Physics Letters, 2011, 28, 014209.	3.3	4
72	Impact of Nanostructuration on the Chemical Composition of Nickel Oxide Nanoparticles. Inorganic Chemistry, 2019, 58, 15004-15007.	4.0	4

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73	Formation of Molybdenum Nitrides by Ammonia Nitridation of Mo Powder and Sheet. Defect and Diffusion Forum, 2001, 194-199, 1607-1612.	0.4	3
74	Miniaturized notch antenna based on lanthanum titanium perovskite oxide thin films. Thin Solid Films, 2014, 563, 36-39.	1.8	3
75	Thermal oxidation of oxynitride films as a strategy to achieve (Sr2Ta2O7)100-x(La2Ti2O7)x based oxide perovskite films with x = 1.65. Journal of the European Ceramic Society, 2020, 40, 6293-6300.	5.7	3
76	X-ray powder diffraction investigation of new oxynitride precursors: rare earth oxide compounds of fluorite- and sheelite-type structures in the Yb-(Zr,W)-O system. Powder Diffraction, 2007, 22, 344-351.	0.2	2
77	Nanoporous surface of infrared transparent chalcogenide glassâ€“ceramics by chemical etching. Materials Research Bulletin, 2012, 47, 4076-4081.	5.2	2
78	Structural and photoelectrochemical properties of SrTaO2N oxynitride thin films deposited by reactive magnetron sputtering. Journal of the European Ceramic Society, 2020, 40, 6301-6308.	5.7	2
79	THERMOCHEMICAL APPROACH OF THE PRECIPITATION OF METALLIC PARTICLES IN “LiNaPON GLASSES”. Phosphorus Research Bulletin, 1999, 10, 605-610.	0.6	1
80	Novel TaPO5â^'xN2x/3 oxynitrides. Journal of Alloys and Compounds, 2012, 513, 530-538.	5.5	1
81	Synthesis and Energetics of Yellow TaON.. ChemInform, 2003, 34, no-no.	0.0	0
82	Ternary and Higher Order Rare-Earth Nitride Materials: Synthesis and Characterization of Ionic-Covalent Oxynitride Powders. ChemInform, 2003, 34, no.	0.0	0
83	Thermochemistry of a New Class of Materials Containing Dinitrogen Pairs in an Oxide Matrix.. ChemInform, 2005, 36, no.	0.0	0
84	LaTiO<inf>x</inf>N<inf>y</inf> Thin Films, Measurement and Application to Microwave Device. , 2008, , .		0
85	Tunable TTB strontium and tantalum based thin films: Influence of the deposition parameters on the structural and dielectric properties. Solid State Sciences, 2021, 121, 106733.	3.2	0