

Franck Tessier

List of Publications by Year in descending order

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85
papers

2,428
citations

236833

25
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214721

47
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90
all docs

90
docs citations

90
times ranked

3027
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalized silica for heavy metal ions adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 221, 221-230.	2.3	278
2	Photoelectrochemical Properties of Crystalline Perovskite Lanthanum Titanium Oxynitride Films under Visible Light. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6156-6162.	1.5	122
3	P-Type Nitrogen-Doped ZnO Nanoparticles Stable under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2012, 134, 464-470.	6.6	115
4	New routes to transition metal nitrides: and characterization of new phases. <i>Journal of Materials Chemistry</i> , 1999, 9, 297-304.	6.7	110
5	Ternary and higher order rare-earth nitride materials: synthesis and characterization of ionic-covalent oxynitride powders. <i>Journal of Solid State Chemistry</i> , 2003, 171, 143-151.	1.4	95
6	Energetics of binary iron nitrides. <i>Solid State Sciences</i> , 2000, 2, 457-462.	1.5	80
7	Synthesis and energetics of yellow TaON. <i>Solid State Sciences</i> , 2002, 4, 1071-1076.	1.5	79
8	Optical Properties of the Perovskite Solid Solution $\text{LaTiO}_2\text{N}\hat{=}\text{ATiO}_3$ (A = Sr, Ba). <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1223-1230.	1.0	74
9	Titanium and vanadium oxynitride powders as pseudo-capacitive materials for electrochemical capacitors. <i>Electrochimica Acta</i> , 2012, 82, 257-262.	2.6	69
10	Enthalpy of Formation of Gallium Nitride. <i>Journal of Physical Chemistry B</i> , 2000, 104, 4060-4063.	1.2	63
11	Glass foams for environmental applications. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2562-2568.	1.5	63
12	Optical properties of oxynitride powders. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 1-5.	0.5	61
13	Thermal Ammonolysis Study of the Rare-Earth Tantalates RTaO_4 . <i>Chemistry of Materials</i> , 2005, 17, 152-156.	3.2	58
14	Mesoporous Metal Nitride Materials Prepared from Bulk Oxides. <i>Journal of the American Ceramic Society</i> , 2012, 95, 3084-3089.	1.9	56
15	Calorimetric determination of the enthalpy of formation of InN and comparison with AlN and GaN. <i>Journal of Materials Research</i> , 2001, 16, 2824-2831.	1.2	55
16	Thermochemistry of a New Class of Materials Containing Dinitrogen Pairs in an Oxide Matrix. <i>Chemistry of Materials</i> , 2005, 17, 3570-3574.	3.2	52
17	Typical features of nitrogen in nitride-type compounds. <i>Solid State Sciences</i> , 2001, 3, 1143-1146.	0.8	51
18	Eu^{2+} and Mn^{2+} codoped $\text{Ba}_2\text{Mg}(\text{BO}_3)_2$ new red phosphor for white LEDs. <i>Optics Letters</i> , 2008, 33, 2865.	1.7	49

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19	Zinc Germanium Oxynitride: Influence of the Preparation Method on the Photocatalytic Properties for Overall Water Splitting. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8526-8531.	1.5	47
20	Thermochemistry of Phosphorus Oxynitrides: PON and LiNaPON Glasses. <i>Chemistry of Materials</i> , 2000, 12, 148-154.	3.2	38
21	Lanthanum titanate ceramics: Electrical characterizations in large temperature and frequency ranges. <i>Journal of the European Ceramic Society</i> , 2005, 25, 2085-2088.	2.8	38
22	UV absorption properties of ceria-modified compositions within the fluorite-type solid solution $\text{CeO}_2\text{-Y}_6\text{WO}_{12}$. <i>Journal of Solid State Chemistry</i> , 2006, 179, 3184-3190.	1.4	38
23	Photophysical Properties of $\text{SrTaO}_{2-x}\text{N}$ Thin Films and Influence of Anion Ordering: A Joint Theoretical and Experimental Investigation. <i>Chemistry of Materials</i> , 2017, 29, 3989-3998.	3.2	37
24	Oxynitride perovskite LaTiO_xNy thin films deposited by reactive sputtering. <i>Progress in Solid State Chemistry</i> , 2007, 35, 299-308.	3.9	35
25	Reactive Sputtering Deposition of Perovskite Oxide and Oxynitride Lanthanum Titanium Films: Structural and Dielectric Characterization. <i>Crystal Growth and Design</i> , 2013, 13, 4852-4858.	1.4	33
26	Preparation of transition metal nitrides using unusual routes. <i>Journal of the European Ceramic Society</i> , 1997, 17, 1825-1829.	2.8	25
27	Structural and dielectric properties of oxynitride perovskite LaTiO_xNy thin films. <i>Thin Solid Films</i> , 2008, 517, 544-549.	0.8	24
28	Tunability of the optical properties in the $\text{Y}_6(\text{W},\text{Mo})(\text{O},\text{N})_{12}$ system. <i>Solid State Sciences</i> , 2009, 11, 533-536.	1.5	23
29	Mixed valent niobium nitrides and oxynitrides resulting from ammonolysis of alkaline niobates. <i>Journal of Alloys and Compounds</i> , 1997, 262-263, 512-515.	2.8	21
30	Powder preparation and UV absorption properties of selected compositions in the $\text{CeO}_2\text{-Y}_2\text{O}_3$ system. <i>Journal of Solid State Chemistry</i> , 2008, 181, 1204-1212.	1.4	21
31	Synthesis of Ni-poor NiO nanoparticles for p-DSSC applications. <i>Solid State Sciences</i> , 2016, 54, 37-42.	1.5	21
32	New scheelite-type oxynitrides in systems $\text{RWO}_3\text{-AWO}_4$ (R = rare-earth element; A = Ca, Sr) from precursors obtained by the citrate route. <i>Materials Research Bulletin</i> , 2004, 39, 1091-1101.	2.7	20
33	Chemical tunability of europium emission in phosphate glasses. <i>Journal of Luminescence</i> , 2017, 183, 53-61.	1.5	20
34	Determining the Nitrogen Content in (Oxy)Nitride Materials. <i>Materials</i> , 2018, 11, 1331.	1.3	20
35	Preparation of nitrogen doped zinc oxide nanoparticles and thin films by colloidal route and low temperature nitridation process. <i>Solid State Sciences</i> , 2016, 54, 30-36.	1.5	19
36	Perovskite $(\text{Sr}_2\text{Ta}_2\text{O}_7)_{100-x}(\text{La}_2\text{Ti}_2\text{O}_7)_x$ ceramics: From dielectric characterization to dielectric resonator antenna applications. <i>Journal of Alloys and Compounds</i> , 2021, 872, 159728.	2.8	19

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37	Synthesis and characterization of tin containing molybdophosphate and tungstophosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 87-92.	1.5	18
38	Preparation of niobium based oxynitride nanosheets by exfoliation of Ruddlesden-Popper phase precursor. <i>Solid State Sciences</i> , 2016, 54, 17-21.	1.5	18
39	Unravelling the origin of the giant Zn deficiency in wurtzite type ZnO nanoparticles. <i>Scientific Reports</i> , 2015, 5, 12914.	1.6	17
40	An original way to prepare nitride-type compounds from sulfide precursors. <i>Journal of Alloys and Compounds</i> , 1997, 262-263, 410-415.	2.8	16
41	Nitrogen-substituted TiO ₂ : investigation on the photocatalytic activity in the visible light range. <i>Journal of Materials Science</i> , 2009, 44, 6110-6116.	1.7	16
42	Photoluminescence of Eu ²⁺ -Doped Strontium Cyanamide: A Novel Host Lattice for Eu ²⁺ . <i>Journal of the American Ceramic Society</i> , 2010, 93, 3052-3055.	1.9	16
43	Structural study of gallium oxynitrides prepared by ammonolysis of different oxide precursors. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 045408.	1.3	14
44	Lanthanum titanium perovskite compound: Thin film deposition and high frequency dielectric characterization. <i>Thin Solid Films</i> , 2014, 553, 76-80.	0.8	14
45	Novel color-tunable Gd ₂ O ₂ CN ₂ :Tb ³⁺ , Eu ³⁺ phosphors: Characterization and photoluminescence properties. <i>Ceramics International</i> , 2016, 42, 12508-12511.	2.3	14
46	Experimental and Theoretical Evidences of p-Type Conductivity in Nickel Carbodiimide Nanoparticles with a Delafossite Structure Type. <i>Inorganic Chemistry</i> , 2017, 56, 7922-7927.	1.9	14
47	Ferroelectricity and high tunability in novel strontium and tantalum based layered perovskite materials. <i>Journal of the European Ceramic Society</i> , 2018, 38, 2526-2533.	2.8	14
48	Thermodynamics of Formation of Binary and Ternary Nitrides in the System Ce/Mn/N. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2001, 627, 194-200.	0.6	13
49	Characterization of Nd ₂ AlO ₃ N and Sm ₂ AlO ₃ N oxynitrides synthesized by carbothermal reduction and nitridation. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5839-5842.	2.8	13
50	Crystal structure and optical properties of oxynitride rare-earth tantalates RTa ₂ (O, N) (R=Nd, Gd, Y). <i>Materials Research Bulletin</i> , 2008, 43, 811-818.	2.7	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. <i>Journal of Crystal Growth</i> , 2015, 413, 5-11.	0.7	12
52	Evolution of the elastic modulus of Zr _{1-x} Cu _x Al BMGs during annealing treatment and crystallization: Role of Zr/Cu ratio. <i>Journal of Non-Crystalline Solids</i> , 2015, 421, 35-40.	1.5	12
53	Ferroelectric and dielectric study of strontium tantalum based perovskite oxynitride films deposited by reactive rf magnetron sputtering. <i>Materials Research Bulletin</i> , 2017, 96, 126-132.	2.7	12
54	Perovskite oxynitride LaTiO _x N _y thin films: Dielectric characterization in low and high frequencies. <i>Thin Solid Films</i> , 2011, 520, 778-783.	0.8	11

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55	Nanometric nickel exsolution in the hexagonal perovskite Ba ₈ Ta ₆ NiO ₂₄ : Survey of the structural, magnetic and catalytic features. Journal of Alloys and Compounds, 2018, 766, 987-993.	2.8	11
56	Original Synthesis of Molybdenum Nitrides Using Metal Cluster Compounds as Precursors: Applications in Heterogeneous Catalysis. Chemistry of Materials, 2020, 32, 6026-6034.	3.2	11
57	Topochemical Reduction of YMnO ₃ into a Composite Structure. Inorganic Chemistry, 2017, 56, 8547-8553.	1.9	9
58	Characterization of fluorite-type oxynitride phases in the R ₂ TaON system (R=rare-earth element). Materials Research Bulletin, 2008, 43, 30-37.	2.7	8
59	Luminescent properties of novel red-emitting phosphor: Gd ₂₀ 2CN ₂ :Eu ³⁺ . Optical Materials Express, 2015, 5, 2616.	1.6	8
60	Electronic Band Transitions in \hat{I}^3 -Ge ₃ N ₄ . Electronic Materials Letters, 2021, 17, 315-323.	1.0	8
61	Energetics of Nitridophosphates PON and \hat{a}^{∞} LiNaPON Glasses \hat{a}^{∞} . Materials Research Society Symposia Proceedings, 1998, 547, 389.	0.1	7
62	Study of the R \hat{a}^{∞} (Zr,W) \hat{a}^{∞} (O,N) (R=Y, Nd, Sm, Gd, Yb) oxynitride system. Materials Research Bulletin, 2010, 45, 97-102.	2.7	7
63	Dielectric oxynitride LaTiO _x N _y thin films deposited by reactive radio-frequency sputtering. Thin Solid Films, 2012, 520, 4536-4540.	0.8	7
64	Mesoporous VN prepared by solid \hat{a}^{∞} solid phase separation. Journal of Solid State Chemistry, 2013, 197, 398-401.	1.4	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.	3.1	7
66	Preparation and optical characteristics of novel oxynitride phases in the R ₃ (Ta/Nb) \hat{a}^{∞} O \hat{a}^{∞} N system (R \hat{A} = \hat{A} La,) Tj EIQqO O O rgBT /Overl	1.8	6
67	Deposition and dielectric characterization of strontium and tantalum-based oxide and oxynitride perovskite thin films. Solid State Sciences, 2016, 54, 22-29.	1.5	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.	2.2	6
69	Transesterification of vegetable oils by AlPO _x N _y heterogeneous catalysts. Applied Catalysis B: Environmental, 2016, 185, 253-264.	10.8	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 _{10\hat{a}^{∞}x} (SiO ₄) ₆ O _{3\hat{a}^{∞}x/2} . Chinese Physics Letters, 2011, 28, 014209.	1.3	4
72	Impact of Nanostructuring on the Chemical Composition of Nickel Oxide Nanoparticles. Inorganic Chemistry, 2019, 58, 15004-15007.	1.9	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.	0.8	3
75	Thermal oxidation of oxynitride films as a strategy to achieve (Sr ₂ Ta ₂ O ₇) _{100-x} (La ₂ Ti ₂ O ₇) _x based oxide perovskite films with x = 1.65. Journal of the European Ceramic Society, 2020, 40, 6293-6300.	2.8	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.	0.4	2
77	Nanoporous surface of infrared transparent chalcogenide glass-ceramics by chemical etching. Materials Research Bulletin, 2012, 47, 4076-4081.	2.7	2
78	Structural and photoelectrochemical properties of SrTaO ₂ N oxynitride thin films deposited by reactive magnetron sputtering. Journal of the European Ceramic Society, 2020, 40, 6301-6308.	2.8	2
79	THERMOCHEMICAL APPROACH OF THE PRECIPITATION OF METALLIC PARTICLES IN "LiNaPON CLASSES". Phosphorus Research Bulletin, 1999, 10, 605-610.	0.1	1
80	Novel TaPO ₅ ·xN _{2x/3} oxynitrides. Journal of Alloys and Compounds, 2012, 513, 530-538.	2.8	1
81	Synthesis and Energetics of Yellow TaON.. ChemInform, 2003, 34, no-no.	0.1	0
82	Ternary and Higher Order Rare-Earth Nitride Materials: Synthesis and Characterization of Ionic-Covalent Oxynitride Powders. ChemInform, 2003, 34, no.	0.1	0
83	Thermochemistry of a New Class of Materials Containing Dinitrogen Pairs in an Oxide Matrix.. ChemInform, 2005, 36, no.	0.1	0
84	LaTiO _x N _y 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.	1.5	0