

Alain Tressaud

List of Publications by Year in descending order

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54
papers

1,731
citations

331670

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302126

39
g-index

87
all docs

87
docs citations

87
times ranked

2022
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of boron-substituted carbons. Carbon, 2000, 38, 1461-1467.	10.3	212
2	Crystal Chemistry and Selected Physical Properties of Inorganic Fluorides and Oxide-Fluorides. Chemical Reviews, 2015, 115, 1191-1254.	47.7	135
3	Supercritical fluid processing: a new route for materials synthesis. Journal of Materials Chemistry, 1999, 9, 67-75.	6.7	112
4	Surface modification of several carbon-based materials: comparison between CF ₄ rf plasma and direct F ₂ -gas fluorination routes. Journal of Fluorine Chemistry, 2004, 125, 1639-1648.	1.7	102
5	Electrochemical behavior of plasma-fluorinated graphite for lithium ion batteries. Journal of Power Sources, 2002, 104, 108-114.	7.8	85
6	Crystal Chemistry of Fluorides. , 1985, , 77-203.		66
7	Nanostructured Aluminium Hydroxyfluorides Derived from AlF_3 . Chemistry of Materials, 2008, 20, 1459-1469.	6.7	64
8	Crystal structure of rhodium pentafluoride. Inorganic Chemistry, 1973, 12, 2640-2644.	4.0	52
9	Infrared Study of the Surface Properties of HTB-Type Al ³⁺ , Cr ³⁺ , Fe ³⁺ Hydroxyfluorides. Journal of Physical Chemistry B, 2004, 108, 3246-3255.	2.6	44
10	Electrochemical properties and structures of surface-fluorinated graphite for the lithium ion secondary battery. Journal of Fluorine Chemistry, 2002, 114, 209-214.	1.7	43
11	Iridates from the molecular side. Nature Communications, 2016, 7, 12195.	12.8	41
12	Synthesis and characterization of Al ³⁺ , Cr ³⁺ , Fe ³⁺ and Ga ³⁺ hydroxyfluorides: correlations between structural features, thermal stability and acidic properties. Journal of Materials Chemistry, 2003, 13, 2330.	6.7	40
13	Analysis of the Refractive Indices of TiO ₂ , TiOF ₂ , and TiF ₄ : Concept of Optical Channel as a Guide To Understand and Design Optical Materials. Inorganic Chemistry, 2005, 44, 3589-3593.	4.0	38
14	Optical Properties of the (CrF ₆) ³⁻ Complex in A ₂ BMF ₆ :Cr ³⁺ Elpasolite Crystals: Variation with M-F Bond Distance and Hydrostatic Pressure. Inorganic Chemistry, 2008, 47, 10288-10298.	4.0	36
15	Coupling Sol-Gel Synthesis and Microwave-Assisted Techniques: A New Route from Amorphous to Crystalline High-Surface Area Aluminium Fluoride. Chemistry - A European Journal, 2008, 14, 6205-6212.	3.3	34
16	Dual Lithium Insertion and Conversion Mechanisms in a Titanium-Based Mixed-Anion Nanocomposite. Journal of the American Chemical Society, 2011, 133, 13240-13243.	13.7	34
17	The tetrafluorides of iridium, rhodium and palladium. Journal of Inorganic and Nuclear Chemistry, 1976, 28, 23-28.	0.5	33
18	The low-temperature form of Rb ₂ KCrF ₆ and Rb ₂ KGaF ₆ : The first example of an elpasolite-derived structure with pentagonal bipyramid in the B-sublattice. Journal of Solid State Chemistry, 2006, 179, 3607-3614.	2.9	29

#	ARTICLE	IF	CITATIONS
19	Use of inorganic fluorinated materials in lithium batteries and in energy conversion systems. Chemical Communications, 2018, 54, 11375-11382.	4.1	28
20	Compressed Octahedral Coordination in Chain Compounds Containing Divalent Copper: Structure and Magnetic Properties of CuFAsF6 and CsCuAlF6. Chemistry - A European Journal, 2004, 10, 5052-5058.	3.3	27
21	Highly Fluorinated Silica Obtained by Direct F ₂ -Gas Fluorination: Stability and Unprecedented Fluorosilicate Species Revealed by Solid State NMR Investigations. Journal of Physical Chemistry C, 2009, 113, 18652-18660.	3.1	23
22	Microwave Synthesis of an Aluminum Fluoride Hydrate with Cationic Vacancies: Structure, Thermal Stability, and Acidic Properties. Chemistry of Materials, 2008, 20, 7095-7106.	6.7	22
23	Synthesis, structure and polarized optical spectroscopy of two new fluoromanganese(III) complexes. Journal of the Chemical Society Dalton Transactions, 1997, , 4335-4340.	1.1	21
24	Structural features of new rare earth-based mixed anions (O, S, F) compounds: relationships between optical absorption and rare earth environment. Solid State Sciences, 2002, 4, 1471-1479.	3.2	21
25	Cation Ordering in the Sillarsite X1-Type Oxychloride, BaBiO2Cl. Journal of Solid State Chemistry, 1995, 117, 201-205.	2.9	20
26	The dielectric function of LnSF rare-earth fluorosulfides (Ln=La, Ce): experiment and theory. Journal of Solid State Chemistry, 2004, 177, 2833-2840.	2.9	20
27	Surface structure and electrochemical characteristics of plasma-fluorinated petroleum cokes for lithium ion battery. Journal of Power Sources, 2007, 168, 265-271.	7.8	20
28	Influence of fluorine-gas treatment on the structural and physical properties of La2CuO4. Journal of the Less Common Metals, 1990, 164-165, 832-839.	0.8	19
29	Henri Moissan: Winner of the Nobel Prize for Chemistry 1906. Angewandte Chemie - International Edition, 2006, 45, 6792-6796.	13.8	19
30	Nanostructured Al-based Fluoride-Oxide Materials with a Core-Shell Morphology. Journal of Physical Chemistry C, 2008, 112, 12374-12380.	3.1	19
31	[OsF ₆] ²⁻ : Molecular Models for Spin-Orbit Entangled Phenomena. Chemistry - A European Journal, 2017, 23, 11244-11248.	3.3	18
32	Probing the Local Environments of Fluorine in Ce-Based Fluorite-Type Oxyfluorides with ¹⁹ F MAS NMR Spectroscopy. Journal of Physical Chemistry C, 2008, 112, 860-866.	3.1	16
33	Aspects of Intercalation of Fluorine and Metal Fluorides into Graphite. Molecular Crystals and Liquid Crystals, 1994, 244, 13-28.	0.3	15
34	Surface Structure And Electrochemical Characteristics Of Graphite Fluorinated By Elemental Fluorine And Plasma Treatment Using Cf 4. Molecular Crystals and Liquid Crystals, 2002, 388, 103-108.	0.9	15
35	Palladium Chemistry in Anhydrous HF/AsF5 Superacid Medium. European Journal of Inorganic Chemistry, 2004, 2004, 1827-1834.	2.0	15
36	Fluorination of alumino-silicate minerals: The example of lepidolite. Journal of Fluorine Chemistry, 2009, 130, 799-805.	1.7	13

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37	Charge/discharge behavior of plasma-fluorinated natural graphites in propylene carbonate-containing solvent. <i>Journal of Power Sources</i> , 2007, 171, 932-937.	7.8	12
38	Ferro- and Ferrimagnetism in Fluorides. , 1985, , 371-394.		11
39	Structural architecture and physical properties of some inorganic fluoride series: a review. <i>Journal of Fluorine Chemistry</i> , 2011, 132, 651-659.	1.7	10
40	Preparation, Magnetic Properties, and Pressure-Induced Transitions of Some MIIIMVF ₆ (MII=Ni, Pd, Cu;) Tj ETQq0 0,0rgBT /Oylock 10	2.9	9
41	Surface modification of phyllosilicate minerals by fluorination methods. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 373-381.	2.1	9
42	Fluorinated carbonaceous nanoparticles as active material in primary lithium battery. <i>Journal of Fluorine Chemistry</i> , 2019, 219, 1-9.	1.7	9
43	Heat capacity and Tâ€“p phase diagram of Cs ₂ NH ₄ GaF ₆ elpasolite. <i>Solid State Sciences</i> , 2002, 4, 15-18.	3.2	8
44	Long-term stability of fluorineâ€“graphite intercalation compound prepared under high pressure of fluorine. <i>Carbon</i> , 2015, 82, 176-183.	10.3	8
45	New heteronuclear trimers in fluorides with usovite-type structure. <i>Materials Research Bulletin</i> , 1988, 23, 637-645.	5.2	7
46	Rare Earth Oxyfluorosulfides:â€“ A New Class of Compounds with Modulated Structure. <i>Chemistry of Materials</i> , 2006, 18, 6121-6131.	6.7	7
47	Access to Heteroleptic Fluoridoâ€“Cyanido Complexes with a Large Magnetic Anisotropy by Fluoride Abstraction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10306-10310.	13.8	6
48	Surface Modification of Inorganic Materials by Fluorination Treatments. , 2000, , 437-492.		5
49	The Single Crystal Structures of the Copper Usovites Ba ₂ CaCuV ₂ F ₁₄ and Ba ₂ CaCuCr ₂ F ₁₄ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 2737-2739.	1.2	5
50	Evolution of the optical band gap in Titanium-based Oxy-(Hydroxy)-Fluorides series. <i>Materials Research Society Symposia Proceedings</i> , 2005, 891, 1.	0.1	2
51	Surface Modification of Carbonaceous Materials by Fluorinated Gases and Use as Anode in Lithium-Ion Battery. <i>ECS Transactions</i> , 2006, 3, 167-176.	0.5	2
52	Access to Heteroleptic Fluoridoâ€“Cyanido Complexes with a Large Magnetic Anisotropy by Fluoride Abstraction. <i>Angewandte Chemie</i> , 2020, 132, 10392-10396.	2.0	2
53	Palladium Chemistry in Anhydrous HF/AsF ₅ Superacid Medium.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
54	Analysis of the Refractive Indices of TiO ₂ , TiOF ₂ , and TiF ₄ : Concept of Optical Channel as a Guide to Understand and Design Optical Materials.. <i>ChemInform</i> , 2005, 36, no.	0.0	0