

# Alain Tressaud

## List of Publications by Year in descending order

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54  
papers

1,731  
citations

331670

21  
h-index

302126

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87  
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87  
docs citations

87  
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Fluorinated carbonaceous nanoparticles as active material in primary lithium battery. <i>Journal of Fluorine Chemistry</i> , 2019, 219, 1-9.	1.7	9
4	Use of inorganic fluorinated materials in lithium batteries and in energy conversion systems. <i>Chemical Communications</i> , 2018, 54, 11375-11382.	4.1	28
5	[OsF <sub>6</sub> ] <sup>-</sup> : Molecular Models for Spinâ€Orbit Entangled Phenomena. <i>Chemistry - A European Journal</i> , 2017, 23, 11244-11248.	3.3	18
6	Iridates from the molecular side. <i>Nature Communications</i> , 2016, 7, 12195.	12.8	41
7	Long-term stability of fluorineâ€graphite intercalation compound prepared under high pressure of fluorine. <i>Carbon</i> , 2015, 82, 176-183.	10.3	8
8	Crystal Chemistry and Selected Physical Properties of Inorganic Fluorides and Oxide-Fluorides. <i>Chemical Reviews</i> , 2015, 115, 1191-1254.	47.7	135
9	Dual Lithium Insertion and Conversion Mechanisms in a Titanium-Based Mixed-Anion Nanocomposite. <i>Journal of the American Chemical Society</i> , 2011, 133, 13240-13243.	13.7	34
10	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
11	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
12	Fluorination of aluminosilicate minerals: The example of lepidolite. <i>Journal of Fluorine Chemistry</i> , 2009, 130, 799-805.	1.7	13
13	Highly Fluorinated Silica Obtained by Direct F <sub>2</sub> -Gas Fluorination: Stability and Unprecedented Fluorosilicate Species Revealed by Solid State NMR Investigations. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18652-18660.	3.1	23
14	The Single Crystal Structures of the Copper Usovites Ba <sub>2</sub> CaCuV <sub>2</sub> F <sub>14</sub> and Ba <sub>2</sub> CaCuCr <sub>2</sub> F <sub>14</sub> . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2008, 634, 2737-2739.	1.2	5
15	Coupling Solâ€Gel Synthesis and Microwaveâ€Assisted Techniques: A New Route from Amorphous to Crystalline Highâ€Surfaceâ€Area Aluminium Fluoride. <i>Chemistry - A European Journal</i> , 2008, 14, 6205-6212.	3.3	34
16	Nanostructured Aluminium Hydroxyfluorides Derived from Î²-AlF <sub>3</sub> . <i>Chemistry of Materials</i> , 2008, 20, 1459-1469.	6.7	64
17	Microwave Synthesis of an Aluminum Fluoride Hydrate with Cationic Vacancies: Structure, Thermal Stability, and Acidic Properties. <i>Chemistry of Materials</i> , 2008, 20, 7095-7106.	6.7	22
18	Nanostructured Al-based Fluoride-Oxide Materials with a Core-Shell Morphology. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12374-12380.	3.1	19

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19	Optical Properties of the $(\text{CrF}_6)^{3+}$ Complex in $\text{A}_2\text{BMF}_6:\text{Cr}^{3+}$ Elpasolite Crystals: Variation with $\text{M}^{\sim}\text{F}$ Bond Distance and Hydrostatic Pressure. <i>Inorganic Chemistry</i> , 2008, 47, 10288-10298.	4.0	36
20	Probing the Local Environments of Fluorine in Ce-Based Fluorite-Type Oxyfluorides with $^{19}\text{F}$ MAS NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2008, 112, 860-866.	3.1	16
21	Surface structure and electrochemical characteristics of plasma-fluorinated petroleum cokes for lithium ion battery. <i>Journal of Power Sources</i> , 2007, 168, 265-271.	7.8	20
22	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
23	Rare Earth Oxyfluorosulfides: A New Class of Compounds with Modulated Structure. <i>Chemistry of Materials</i> , 2006, 18, 6121-6131.	6.7	7
24	The low-temperature form of $\text{Rb}_2\text{KCrF}_6$ and $\text{Rb}_2\text{KGaF}_6$ : The first example of an elpasolite-derived structure with pentagonal bipyramid in the B-sublattice. <i>Journal of Solid State Chemistry</i> , 2006, 179, 3607-3614.	2.9	29
25	Henri Moissan: Winner of the Nobel Prize for Chemistry 1906. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6792-6796.	13.8	19
26	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
27	Analysis of the Refractive Indices of $\text{TiO}_2$ , $\text{TiOF}_2$ , and $\text{TiF}_4$ : Concept of Optical Channel as a Guide to Understand and Design Optical Materials.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
28	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
29	Analysis of the Refractive Indices of $\text{TiO}_2$ , $\text{TiOF}_2$ , and $\text{TiF}_4$ : Concept of Optical Channel as a Guide To Understand and Design Optical Materials. <i>Inorganic Chemistry</i> , 2005, 44, 3589-3593.	4.0	38
30	Palladium Chemistry in Anhydrous $\text{HF}/\text{AsF}_5$ Superacid Medium. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 1827-1834.	2.0	15
31	Palladium Chemistry in Anhydrous $\text{HF}/\text{AsF}_5$ Superacid Medium.. <i>ChemInform</i> , 2004, 35, no.	0.0	0
32	Compressed Octahedral Coordination in Chain Compounds Containing Divalent Copper: Structure and Magnetic Properties of $\text{CuFAsF}_6$ and $\text{CsCuAlF}_6$ . <i>Chemistry - A European Journal</i> , 2004, 10, 5052-5058.	3.3	27
33	Surface modification of several carbon-based materials: comparison between $\text{CF}_4$ rf plasma and direct $\text{F}_2$ -gas fluorination routes. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 1639-1648.	1.7	102
34	The dielectric function of $\text{LnSF}$ rare-earth fluorosulfides ( $\text{Ln}=\text{La}, \text{Ce}$ ): experiment and theory. <i>Journal of Solid State Chemistry</i> , 2004, 177, 2833-2840.	2.9	20
35	Infrared Study of the Surface Properties of HTB-Type $\text{Al}^{\sim}$ , $\text{Cr}^{\sim}$ , $\text{Fe}^{\sim}$ Hydroxyfluorides. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3246-3255.	2.6	44
36	Synthesis and characterization of $\text{Al}^{3+}$ , $\text{Cr}^{3+}$ , $\text{Fe}^{3+}$ and $\text{Ga}^{3+}$ hydroxyfluorides: correlations between structural features, thermal stability and acidic properties. <i>Journal of Materials Chemistry</i> , 2003, 13, 2330.	6.7	40

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37	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
38	Heat capacity and Tâ€“p phase diagram of Cs <sub>2</sub> NH <sub>4</sub> GaF <sub>6</sub> elpasolite. Solid State Sciences, 2002, 4, 15-18.	3.2	8
39	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
40	Electrochemical behavior of plasma-fluorinated graphite for lithium ion batteries. Journal of Power Sources, 2002, 104, 108-114.	7.8	85
41	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
42	Preparation, Magnetic Properties, and Pressure-Induced Transitions of Some MIIMIVF <sub>6</sub> (MII=Ni, Pd, Cu;) Tj ETQq0 0,0,rgBT /Overlock 10	2.9	9
43	Synthesis and characterization of boron-substituted carbons. Carbon, 2000, 38, 1461-1467.	10.3	212
44	Surface Modification of Inorganic Materials by Fluorination Treatments. , 2000, , 437-492.		5
45	Supercritical fluid processing: a new route for materials synthesis. Journal of Materials Chemistry, 1999, 9, 67-75.	6.7	112
46	Synthesis, structure and polarized optical spectroscopy of two new fluoromanganese(III) complexesâ€“â€“. Journal of the Chemical Society Dalton Transactions, 1997, , 4335-4340.	1.1	21
47	Cation Ordering in the SillÃ©n X1-Type Oxychloride, BaBiO <sub>2</sub> Cl. Journal of Solid State Chemistry, 1995, 117, 201-205.	2.9	20
48	Aspects of Intercalation of Fluorine and Metal Fluorides into Graphite. Molecular Crystals and Liquid Crystals, 1994, 244, 13-28.	0.3	15
49	Influence of fluorine-gas treatment on the structural and physical properties of La <sub>2</sub> CuO <sub>4</sub> . Journal of the Less Common Metals, 1990, 164-165, 832-839.	0.8	19
50	New heteronuclear trimers in fluorides with usovite-type structure. Materials Research Bulletin, 1988, 23, 637-645.	5.2	7
51	Crystal Chemistry of Fluorides. , 1985, , 77-203.		66
52	Ferro- and Ferrimagnetism in Fluorides. , 1985, , 371-394.		11
53	The tetrafluorides of iridium, rhodium and palladium. Journal of Inorganic and Nuclear Chemistry, 1976, 28, 23-28.	0.5	33
54	Crystal structure of rhodium pentafluoride. Inorganic Chemistry, 1973, 12, 2640-2644.	4.0	52