

Christophe Poinsot

List of Publications by Year in descending order

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70
papers

2,023
citations

218677

26
h-index

254184

43
g-index

79
all docs

79
docs citations

79
times ranked

1746
citing authors

#	ARTICLE	IF	CITATIONS
1	HLW Conditioning and Long-Term Performance. , 2021, , 564-576.		1
2	Formation of plutonium($\text{Pu}(\text{IV})$) silicate species in very alkaline reactive media. Dalton Transactions, 2021, 50, 12528-12536.	3.3	5
3	<i>In situ</i> study of the synthesis of thorite (ThSiO_4) under environmental representative conditions. Dalton Transactions, 2020, 49, 11512-11521.	3.3	7
4	Soft Hydrothermal Synthesis of Hafnon, HfSiO_4 . Crystal Growth and Design, 2020, 20, 1820-1828.	3.0	11
5	Americium Recovery from Highly Active PUREX Raffinate by Solvent Extraction: The EXAm Process. A Review of 10 Years of R&D. Solvent Extraction and Ion Exchange, 2020, 38, 365-387.	2.0	29
6	The formation of PuSiO_4 under hydrothermal conditions. Dalton Transactions, 2020, 49, 6434-6445.	3.3	11
7	Formation of CeSiO_4 from cerium(III) silicate precursors. Dalton Transactions, 2019, 48, 10455-10463.	3.3	13
8	Preparation of CeSiO_4 from aqueous precursors under soft hydrothermal conditions. Dalton Transactions, 2019, 48, 7551-7559.	3.3	14
9	Impact of Carbonate Ions on the Synthesis of ThSiO_4 under Hydrothermal Conditions. Inorganic Chemistry, 2018, 57, 12398-12408.	4.0	11
10	Multiparametric Study of the Synthesis of ThSiO_4 under Hydrothermal Conditions. Inorganic Chemistry, 2018, 57, 9393-9402.	4.0	19
11	Could spent nuclear fuel be considered as a non-conventional mine of critical raw materials?. Progress in Nuclear Energy, 2017, 94, 222-228.	2.9	32
12	Assessment of the Anticipated Environmental Footprint of Future Nuclear Energy Systems. Evidence of the Beneficial Effect of Extensive Recycling. Energies, 2017, 10, 1445.	3.1	39
13	La chimie du recyclage des matières nucléaires, une expertise et un savoir-faire français en galles. Revue Générale Nucléaire, 2017, , 33-36.	0.0	0
14	The Sustainability, a Relevant Approach for Defining the Roadmap for Future Nuclear Fuel Cycles. Procedia Chemistry, 2016, 21, 536-544.	0.7	13
15	Energetics of a Uranothorite ($\text{ThU}(\text{SiO}_4)_2$) Solid Solution. Chemistry of Materials, 2016, 28, 7117-7124.	6.7	31
16	Selective transfer of Li-Al-rich phyllosilicate to metamorphic veins (Western Alps): Laser Induced Breakdown Spectroscopy (LIBS) compositional profiles and microstructural characterization. Journal of Geodynamics, 2016, 101, 51-72.	1.6	12
17	Vibrational spectroscopy of synthetic analogues of ankoleite, chernikovite and intermediate solid solution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 156, 143-150.	3.9	21
18	First experimental determination of the solubility constant of coffinite. Geochimica Et Cosmochimica Acta, 2016, 181, 36-53.	3.9	35

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19	Improving the nuclear energy sustainability by decreasing its environmental footprint. Guidelines from life cycle assessment simulations. <i>Progress in Nuclear Energy</i> , 2016, 92, 234-241.	2.9	51
20	Thermodynamics of formation of coffinite, $USiO_4$. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6551-6555.	7.1	72
21	Coffinite, $USiO_4$, Is Abundant in Nature: So Why Is It So Difficult To Synthesize?. <i>Inorganic Chemistry</i> , 2015, 54, 6687-6696.	4.0	38
22	From thorite to coffinite: A spectroscopic study of $Th_{1-x}U_xSiO_4$ solid solutions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 302-307.	3.9	29
23	Assessment of the environmental footprint of nuclear energy systems. Comparison between closed and open fuel cycles. <i>Energy</i> , 2014, 69, 199-211.	8.8	137
24	Purification of uranothorite solid solutions from polyphase systems. <i>Journal of Nuclear Materials</i> , 2013, 441, 73-83.	2.7	17
25	Solubility properties of synthetic and natural meta-torbernite. <i>Journal of Nuclear Materials</i> , 2013, 442, 195-207.	2.7	23
26	From Uranothorites to Coffinite: A Solid Solution Route to the Thermodynamic Properties of $USiO_4$. <i>Inorganic Chemistry</i> , 2013, 52, 6957-6968.	4.0	33
27	Overview of radionuclide behaviour in the natural environment. , 2012, , 1-10.		1
28	Main results of the French program on Partitioning and Transmutation of Minor Actinides. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1475, 57.	0.1	3
29	Interactions between Nuclear Fuel and Water at the Fukushima Daiichi Reactors. <i>Elements</i> , 2012, 8, 213-219.	0.5	26
30	ANCRE-A Roadmap on Chemistry for Nuclear Energy. <i>Procedia Chemistry</i> , 2012, 7, 3-12.	0.7	0
31	Advanced Reprocessing Developments in Europe Status on European Projects ACSEPT and ACTINET-13. <i>Procedia Chemistry</i> , 2012, 7, 166-171.	0.7	10
32	Recycling the Actinides, The Cornerstone of Any Sustainable Nuclear Fuel Cycles. <i>Procedia Chemistry</i> , 2012, 7, 349-357.	0.7	50
33	Main Results of the French Program on Partitioning of Minor Actinides, a Significant Improvement Towards Nuclear Waste Reduction. <i>Procedia Chemistry</i> , 2012, 7, 358-366.	0.7	31
34	Development and Validation of the EXAm Separation Process for Single Am Recycling. <i>Procedia Chemistry</i> , 2012, 7, 367-373.	0.7	64
35	Study of Long Term Behavior of Intermediate Level Long Lived Waste Packages: An Overview of the R&D Approach and Results. <i>Procedia Chemistry</i> , 2012, 7, 559-566.	0.7	5
36	Long-term Behavior Science: The cornerstone approach for reliably assessing the long-term performance of nuclear waste. <i>Journal of Nuclear Materials</i> , 2012, 420, 182-192.	2.7	94

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37	Preparation and characterization of synthetic Th _{0.5} U _{0.5} SiO ₄ uranothorite. Progress in Nuclear Energy, 2012, 57, 155-160.	2.9	27
38	How To Explain the Difficulties in the Coffinite Synthesis from the Study of Uranothorite?. Inorganic Chemistry, 2011, 50, 11117-11126.	4.0	33
39	Metamorphic veining and mass transfer in a chemically closed system: a case study in Alpine metabauxites (western Vanoise). Journal of Metamorphic Geology, 2011, 29, 275-300.	3.4	28
40	Electrophoretic deposition of siderite thin layers: Influence of electrode potential and deposition time. Thin Solid Films, 2010, 518, 2644-2648.	1.8	6
41	Post-containment performance of geological repository systems: source-term release and radionuclide migration in the near- and far-field environments. , 2010, , 421-493.		8
42	Synthesis and characterization of coffinite. Journal of Nuclear Materials, 2009, 393, 449-458.	2.7	46
43	Response of synthetic coffinite to energetic ion beam irradiation. Journal of Nuclear Materials, 2009, 393, 481-486.	2.7	18
44	Structural transitions and electron transfer in coffinite, USiO ₄ , at high pressure. American Mineralogist, 2009, 94, 916-920.	1.9	25
45	Thermochemical characterization of Ca ₄ La ₆ (SiO ₄) ₆ (OH) ₂ a synthetic La- and OH-analogous of britholite: implication for monazite and LREE apatites stability. Mineralogia, 2008, 39, 41-52.	0.8	5
46	Overview of the CEA French Research Program on Nuclear Waste. Materials Research Society Symposia Proceedings, 2008, 1107, 1.	0.1	2
47	Radionuclides Release From the Spent Fuel Under Disposal Conditions: Re-evaluation of the Instant Release Fraction. Materials Research Society Symposia Proceedings, 2008, 1107, 1.	0.1	14
48	Key Scientific Issues Related to the Sustainable Management of the Spent Nuclear Fuel in the Back-end of the Fuel Cycle. , 2008, , .		1
49	Thermochemistry of monazite-(La) and dissakisite-(La): implications for monazite and allanite stability in metapelites. Contributions To Mineralogy and Petrology, 2007, 154, 1-14.	3.1	125
50	Perspectives on the closed fuel cycle " Implications for high-level waste matrices. Journal of Nuclear Materials, 2007, 362, 383-394.	2.7	53
51	Identification of Neoformed Ni-Phyllosilicates Upon Ni Uptake in Montmorillonite: A Transmission Electron Microscopy and Extended X-Ray Absorption Fine Structure Study. Clays and Clay Minerals, 2006, 54, 209-219.	1.3	15
52	Specific outcomes of the research on the spent fuel long-term evolution in interim dry storage and deep geological disposal. Journal of Nuclear Materials, 2006, 352, 246-253.	2.7	52
53	Europium migration in Argillaceous Rocks : on the use of Micro Laser-Induced Breakdown Spectroscopy (micro LIBS) as a Microanalysis Tool. Materials Research Society Symposia Proceedings, 2006, 932, 1.	0.1	13
54	New Perspectives for the Spent Nuclear Fuel Radionuclides Release Model in a Deep Geological Repository. Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	2

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55	Assessment of the relevance of Coffinite formation within the near-field environment of spent nuclear fuel geological disposals. Materials Research Society Symposia Proceedings, 2006, 932, 1.	0.1	10
56	Mechanisms governing the release of radionuclides from spent nuclear fuel in geological repository: major outcomes of the European Project SFS. Materials Research Society Symposia Proceedings, 2006, 932, 1.	0.1	3
57	Spent fuel radionuclide source-term model for assessing spent fuel performance in geological disposal. Part I: Assessment of the instant release fraction. Journal of Nuclear Materials, 2005, 346, 56-65.	2.7	65
58	Enhanced diffusion under alpha self-irradiation in spent nuclear fuel: Theoretical approaches. Journal of Nuclear Materials, 2005, 346, 48-55.	2.7	23
59	Spent fuel radionuclide source term model for assessing spent fuel performance in geological disposal. Part II: Matrix alteration model and global performance. Journal of Nuclear Materials, 2005, 346, 66-77.	2.7	41
60	Radionuclides Release Model for Performance Assessment Studies of Spent Nuclear Fuel in Geological Disposal. Materials Research Society Symposia Proceedings, 2004, 824, 115.	0.1	1
61	Quantitative Assessment of the Instant Release Fraction (IRF) for Fission Gases and Volatile Elements as a Function of Burnup and Time under Geological Disposal Conditions. Materials Research Society Symposia Proceedings, 2003, 807, 748.	0.1	6
62	Key Scientific Issues Related to the Evolution of Spent Nuclear Fuel in Long Term Dry Storage and Geological Disposal. Materials Research Society Symposia Proceedings, 2003, 807, 271.	0.1	3
63	Consequences of the Anticipated Long-Term Evolution of Spent Nuclear Fuel for the Assessment of the Release Rate of Radionuclides.. Materials Research Society Symposia Proceedings, 2002, 757, II1.8.1.	0.1	1
64	Assessment of the Evolution with Time of the Instant Release Fraction of Spent Nuclear Fuel in Geological Disposal Conditions. Materials Research Society Symposia Proceedings, 2002, 713, 1.	0.1	4
65	Long term evolution of spent nuclear fuel in long term storage or geological disposal. New findings from the French PRECCI R&D program and implications for the definition of the RN source term in geological repository. Journal of Nuclear Science and Technology, 2002, 39, 473-476.	1.3	10
66	A New Approach to the RN Source Term for Spent Nuclear Fuel under Geological Disposal Conditions. Materials Research Society Symposia Proceedings, 2000, 663, 1.	0.1	5
67	Experimental and modelling studies of caesium sorption on illite. Geochimica Et Cosmochimica Acta, 1999, 63, 3217-3227.	3.9	267
68	Chemical interaction between a simulated nuclear waste glass and different backfill materials under a thermal gradient. Applied Geochemistry, 1998, 13, 715-734.	3.0	13
69	Crustal-scale strain partitioning: footwall deformation below the Alpine Oligo-Miocene detachment of Corsica. Journal of Structural Geology, 1996, 18, 41-59.	2.3	83
70	Hydrothermal alteration of a simulated nuclear waste glass: effects of a thermal gradient and of a chemical barrier. European Journal of Mineralogy, 1996, 8, 533-548.	1.3	16