

DaniÃle Roudil

List of Publications by Year in descending order

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42
papers

865
citations

516710

16
h-index

477307

29
g-index

43
all docs

43
docs citations

43
times ranked

611
citing authors

#	ARTICLE	IF	CITATIONS
1	Irradiation stability of R7T7-type borosilicate glass. <i>Journal of Nuclear Materials</i> , 2006, 354, 1-13.	2.7	110
2	Raman spectroscopy characterization of actinide oxides (U \hat{y} Pu \hat{y})O ₂ : Resistance to oxidation by the laser beam and examination of defects. <i>Journal of Nuclear Materials</i> , 2010, 405, 235-243.	2.7	75
3	Effect of external gamma irradiation on dissolution of the spent UO ₂ fuel matrix. <i>Journal of Nuclear Materials</i> , 2005, 341, 62-82.	2.7	62
4	Evolution of spent nuclear fuel in dry storage conditions for millennia and beyond. <i>Journal of Nuclear Materials</i> , 2014, 451, 198-206.	2.7	60
5	Plutonium incorporation in phosphate and titanate ceramics for minor actinide containment. <i>Journal of Nuclear Materials</i> , 2006, 352, 233-240.	2.7	59
6	Helium thermal diffusion in a uranium dioxide matrix. <i>Journal of Nuclear Materials</i> , 2004, 325, 148-158.	2.7	56
7	Specific outcomes of the research on the spent fuel long-term evolution in interim dry storage and deep geological disposal. <i>Journal of Nuclear Materials</i> , 2006, 352, 246-253.	2.7	52
8	Effect of alpha radiation on the leaching behaviour of nuclear glass. <i>Journal of Nuclear Materials</i> , 2007, 362, 474-479.	2.7	46
9	Oxidizing dissolution of spent MOX47 fuel subjected to water radiolysis: Solution chemistry and surface characterization by Raman spectroscopy. <i>Journal of Nuclear Materials</i> , 2010, 399, 68-80.	2.7	42
10	Self-irradiation effects in dense and tailored porosity U \hat{y} AmyO $\hat{2}$ \hat{x} (y=0.10; 0.15) compounds. <i>Journal of Nuclear Materials</i> , 2011, 411, 15-19.	2.7	31
11	Diffusion of radiogenic helium in natural uranium oxides. <i>Journal of Nuclear Materials</i> , 2008, 378, 70-78.	2.7	30
12	Gap and grain boundaries inventories from pressurized water reactor spent fuels. <i>Journal of Nuclear Materials</i> , 2007, 362, 411-415.	2.7	26
13	Application of nuclear reaction geometry for ³ He depth profiling in nuclear ceramics. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 206, 1077-1082.	1.4	25
14	³ He thermal diffusion coefficient measurement in crystalline ceramics by ¹⁴ NRA depth profiling. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 210, 507-512.	1.4	21
15	Effect of alpha irradiation on UO ₂ surface reactivity in aqueous media. <i>Radiochimica Acta</i> , 2005, 93, 35-42.	1.2	19
16	Identification of the mechanism limiting the alteration of clad spent fuel segments in aerated carbonated groundwater. <i>Journal of Nuclear Materials</i> , 2004, 326, 144-155.	2.7	18
17	The use of NRA to study thermal diffusion of helium in (U,Pu)O ₂ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 2250-2254.	1.4	15
18	Investigation of defects in actinide-doped UO ₂ by positron annihilation spectroscopy. <i>Journal of Nuclear Materials</i> , 2012, 420, 63-68.	2.7	14

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19	Helium release from plutonium and curium-doped zirconolite. <i>Journal of Nuclear Materials</i> , 2007, 362, 431-437.	2.7	13
20	Ion beam analysis of radioactive samples. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 2245-2249.	1.4	11
21	CETAMA Contribution to Safeguards and Nuclear Forensic Analysis based on Nuclear Reference Materials. <i>Procedia Chemistry</i> , 2012, 7, 709-715.	0.7	10
22	Use of an excess variance approach for the certification of reference materials by interlaboratory comparison. <i>Accreditation and Quality Assurance</i> , 2014, 19, 269-274.	0.8	9
23	Spent fuel UO ₂ matrix alteration in aqueous media under oxidizing conditions. <i>Radiochimica Acta</i> , 2007, 95, 513-522.	1.2	7
24	Thermal diffusion of Helium and volatil fission products in UO ₂ and zirconolite nuclear ceramics. <i>Materials Research Society Symposia Proceedings</i> , 2004, 824, 487.	0.1	6
25	Validation of analytical methods for nuclear spent fuel reprocessing. <i>Progress in Nuclear Energy</i> , 2014, 72, 115-118.	2.9	6
26	EQRAIN: uranium and plutonium interlaboratory exercises from 1997 to 2016 – comparison to ITVs-2010. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 319, 1013-1021.	1.5	6
27	²⁴³ Am certified reference material for mass spectrometry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2021, 327, 495-504.	1.5	5
28	New laser induced photoacoustic signal measurement method. Example of application: Identification of the uranium(IV)-dioxalato complex in solution. <i>Radiochimica Acta</i> , 2003, 91, .	1.2	4
29	Effect of Alpha Decay on Nuclear Borosilicate Glass Properties. <i>Materials Research Society Symposia Proceedings</i> , 2004, 824, 246.	0.1	4
30	Effects of alpha self-irradiation on actinide-doped spent fuel surrogate matrix. <i>Materials Research Society Symposia Proceedings</i> , 2006, 932, 1.	0.1	4
31	Round Robin – Impurities in Uranium Matrix – A Success for CETAMA and IAEA. <i>Procedia Chemistry</i> , 2012, 7, 666-672.	0.7	4
32	Validation of gravimetry for high-accuracy analysis of uranium. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 1831-1838.	1.5	3
33	Emulsion characterisation by focused ultrasonic waves. <i>Ultrasonics</i> , 2001, 39, 329-334.	3.9	2
34	Contribution of an interlaboratory comparison to the certification of the STAM/IRMM-0243 ²⁴³ Am reference material. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 319, 717-725.	1.5	2
35	Development and Validation of Methods for the Analysis of Reprocessing Solvents: Role of CETAMA Working Group 24. <i>Procedia Chemistry</i> , 2012, 7, 703-708.	0.7	1
36	Optimization of U and Pu traces separation by chromatography for analytical purposes: influence of U/Pu mass ratio. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 317, 1253-1261.	1.5	1

#	ARTICLE	IF	CITATIONS
37	Metrology applications to D&D issues: issues at stake for INSIDER European project. EPJ Nuclear Sciences & Technologies, 2020, 6, 17.	0.7	1
38	Thermal desorption gas chromatography and positron annihilation spectroscopy contribution to alpha decay studies in actinide-doped matrices. , 2009, , .		0
39	Thermal Desorption Gas Chromatography and Positron Annihilation Spectroscopy Contribution to Alpha Decay Studies in Actinide-Doped Matrices. IEEE Transactions on Nuclear Science, 2010, , .	2.0	0
40	Comparaisons interlaboratoires de comptage de l'activité des émetteurs alpha et bêta dans des eaux à différentes charges salines. Radioprotection, 2015, 50, 215-223.	1.0	0
41	INSIDER. EPJ Nuclear Sciences & Technologies, 2020, 6, E3.	0.7	0
42	Controlled Potential Coulometry for the accurate determination of plutonium in the presence of uranium: The role of sulfate complexation. Talanta, 2021, 222, 121490.	5.5	0