Caraballo Richard

List of Publications by Year
in descending order

18 papers	526 citations	687363 13 h-index	996975 15 g-index
21 all docs	21 docs citations	21 times ranked	502 citing authors

#	Article	IF	Citations
1	Oxidizing dissolution mechanism of an irradiated MOX fuel in underwater aerated conditions at slightly acidic pH. Journal of Nuclear Materials, 2015, 462, 230-241.	2.7	15
2	Peculiar Behavior of (U,Am)O_{2â^'Î´} Compounds for High Americium Contents Evidenced by XRD, XAS, and Raman Spectroscopy. Inorganic Chemistry, 2015, 54, 9749-9760.	4.0	30
3	Alpha Decays Impact on Nuclear Glass Structure. , 2014, 7, 252-261.		14
4	Influence of Electronic Irradiation on Failure and Hardness Properties of Pure Silica Glasses. , 2014, 7, 286-293.		7
5	Oxide glass structure evolution under swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2014, 325, 54-65.	1.4	46
6	Characterization of Nuclear Materials in Extreme Conditions: Raman Spectroscopy Approach. IEEE Transactions on Nuclear Science, 2014, 61, 2045-2051.	2.0	19
7	Effect of 10B(n, Î±)7Li irradiation on the structure of a sodium borosilicate glass. Nuclear Instruments & Methods in Physics Research B, 2014, 327, 22-28.	1.4	28
8	Annealing of the defects observed by Raman spectroscopy in UO2 irradiated by 25MeV He2+ ions. Nuclear Instruments & Methods in Physics Research B, 2014, 327, 74-77.	1.4	22
9	Self-irradiation and oxidation effects on americium sesquioxide and Raman spectroscopy studies of americium oxides. Journal of Solid State Chemistry, 2014, 217, 159-168.	2.9	11
10	A possible new mechanism for defect formation in irradiated UO2. Nuclear Instruments & Methods in Physics Research B, 2013, 315, 169-172.	1.4	27
11	Crystal Growth and First Crystallographic Characterization of Mixed Uranium(IV)â€“Plutonium(III) Oxalates. Inorganic Chemistry, 2013, 52, 4941-4949.	4.0	41
12	Characterization of nuclear materials in extreme conditions: The raman spectroscopy approach. , 2013, , .		0
13	In situ Raman monitoring of He2+ irradiation induced damage in a UO2 ceramic. Applied Physics Letters, 2013, 103, 041904.	3.3	33
14	Determination of in-depth damaged profile by Raman line scan in a pre-cut He2+ irradiated UO2. Applied Physics Letters, 2012, 100, .	3.3	80
15	Solubility and Partitioning of Minor-actinides and Lanthanides in Alumino-borosilicate Nuclear Glass. Procedia Chemistry, 2012, 7, 554-558.	0.7	13
16	Simplified Nuclear Glasses Structure Behaviour Under Various Irradiation Conditions: A Raman Spectroscopy Study. Procedia Chemistry, 2012, 7, 581-586.	0.7	23
17	Raman spectroscopy characterization of actinide oxides (U1â^'yPuy)O2: Resistance to oxidation by the laser beam and examination of defects. Journal of Nuclear Materials, 2010, 405, 235-243.	2.7	75
18	Oxidizing dissolution of spent MOX47 fuel subjected to water radiolysis: Solution chemistry and surface characterization by Raman spectroscopy. Journal of Nuclear Materials, 2010, 399, 68-80.	2.7	42