

# Caraballo Richard

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	Raman spectroscopy characterization of actinide oxides (U1 <sup>~</sup> yPu <sup>y</sup> )O2: Resistance to oxidation by the laser beam and examination of defects. Journal of Nuclear Materials, 2010, 405, 235-243.	2.7	75
3	Oxide glass structure evolution under swift heavy ion irradiation. Nuclear Instruments & Methods in Physics Research B, 2014, 325, 54-65.	1.4	46
4	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
5	Crystal Growth and First Crystallographic Characterization of Mixed Uranium(IV)â€“Plutonium(III) Oxalates. Inorganic Chemistry, 2013, 52, 4941-4949.	4.0	41
6	In situ Raman monitoring of He2+ irradiation induced damage in a UO2 ceramic. Applied Physics Letters, 2013, 103, 041904.	3.3	33
7	Peculiar Behavior of (U,Am)O<sub>2</sub> Compounds for High Americium Contents Evidenced by XRD, XAS, and Raman Spectroscopy. Inorganic Chemistry, 2015, 54, 9749-9760.	4.0	30
8	Effect of 10B(n, $\hat{1}\pm$ )7Li irradiation on the structure of a sodium borosilicate glass. Nuclear Instruments & Methods in Physics Research B, 2014, 327, 22-28.	1.4	28
9	A possible new mechanism for defect formation in irradiated UO2. Nuclear Instruments & Methods in Physics Research B, 2013, 315, 169-172.	1.4	27
10	Simplified Nuclear Glasses Structure Behaviour Under Various Irradiation Conditions: A Raman Spectroscopy Study. Procedia Chemistry, 2012, 7, 581-586.	0.7	23
11	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
12	Characterization of Nuclear Materials in Extreme Conditions: Raman Spectroscopy Approach. IEEE Transactions on Nuclear Science, 2014, 61, 2045-2051.	2.0	19
13	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
14	Alpha Decays Impact on Nuclear Glass Structure. , 2014, 7, 252-261.		14
15	Solubility and Partitioning of Minor-actinides and Lanthanides in Alumino-borosilicate Nuclear Glass. Procedia Chemistry, 2012, 7, 554-558.	0.7	13
16	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
17	Influence of Electronic Irradiation on Failure and Hardness Properties of Pure Silica Glasses. , 2014, 7, 286-293.		7
18	Characterization of nuclear materials in extreme conditions: The raman spectroscopy approach. , 2013, , .		0