

# Xavier Deschanel

## List of Publications by Year in descending order

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20  
papers

434  
citations

1040056

9  
h-index

752698

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21  
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21  
docs citations

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times ranked

456  
citing authors

#	ARTICLE	IF	CITATIONS
1	Grafted mesoporous silicas for radionuclide uptake: Radiolytic stability under electron irradiation. <i>Microporous and Mesoporous Materials</i> , 2022, 336, 111851.	4.4	2
2	Corrosion Products Formed on MgZr Alloy Embedded in Geopolymer Used as Conditioning Matrix for Nuclear Waste: A Proposition of Interconnected Processes. <i>Materials</i> , 2021, 14, 2017.	2.9	0
3	Behavior of mesoporous silica under 2.0 MeV electron beam irradiation. <i>Microporous and Mesoporous Materials</i> , 2021, 328, 111454.	4.4	3
4	First principles investigations of the optical selectivity of titanium carbide-based materials for concentrating solar power applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7591-7598.	5.5	4
5	Evolution of Corrosion Products Formed during the Corrosion of MgZr Alloy in Poral Solutions Extracted from Na-Geopolymers Used as Conditioning Matrix for Nuclear Waste. <i>Materials</i> , 2020, 13, 4958.	2.9	5
6	Molecular dynamics simulation of ballistic effects in mesoporous silica. <i>Journal of Non-Crystalline Solids</i> , 2020, 549, 120346.	3.1	2
7	Effect of TiC incorporation on the optical properties and oxidation resistance of SiC ceramics. <i>Solar Energy Materials and Solar Cells</i> , 2020, 213, 110536.	6.2	12
8	SiC-TiC nanocomposite for bulk solar absorbers applications: Effect of density and surface roughness on the optical properties. <i>Solar Energy Materials and Solar Cells</i> , 2019, 191, 199-208.	6.2	14
9	Structure evolution of mesoporous silica under heavy ion irradiations of intermediate energies. <i>Microporous and Mesoporous Materials</i> , 2017, 251, 146-154.	4.4	9
10	From colloidal precursors to metal carbides nanocomposites MC (M=Ti, Zr, Hf and Si): Synthesis, characterization and optical spectral selectivity studies. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 473-479.	6.2	22
11	Comparison of two soft chemistry routes for the synthesis of mesoporous carbon/SiC nanocomposites. <i>Journal of Materials Science</i> , 2013, 48, 4097-4108.	3.7	4
12	Mesoporous materials in the field of nuclear industry: applications and perspectives. <i>New Journal of Chemistry</i> , 2012, 36, 531-541.	2.8	71
13	Plutonium incorporation in phosphate and titanate ceramics for minor actinide containment. <i>Journal of Nuclear Materials</i> , 2006, 352, 233-240.	2.7	59
14	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
15	Thermal diffusion of Helium and volatil fission products in UO <sub>2</sub> and zirconolite nuclear ceramics. <i>Materials Research Society Symposia Proceedings</i> , 2004, 824, 487.	0.1	6
16	Helium thermal diffusion in a uranium dioxide matrix. <i>Journal of Nuclear Materials</i> , 2004, 325, 148-158.	2.7	56
17	Application of nuclear reaction geometry for <sup>3</sup> He depth profiling in nuclear ceramics. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2003, 206, 1077-1082.	1.4	25
18	<sup>3</sup> He thermal diffusion coefficient measurement in crystalline ceramics by <sup>1</sup> / <sub>4</sub> nra depth profiling. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2003, 210, 507-512.	1.4	21

#	ARTICLE	IF	CITATIONS
19	Solubility of actinide surrogates in nuclear glasses. Journal of Nuclear Materials, 2003, 312, 76-80.	2.7	107
20	Investigation de divers procédés de texturation de céramiques supraconductrices à haute Tc. Journal De Physique III, 1992, 2, 213-224.	0.3	3