

Nicolas Clavier

List of Publications by Year in descending order

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118
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3,689
citations

117453

34
h-index

161609

54
g-index

126
all docs

126
docs citations

126
times ranked

2123
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal chemistry of the monazite structure. <i>Journal of the European Ceramic Society</i> , 2011, 31, 941-976.	2.8	318
2	Versatile Monazite: Resolving geological records and solving challenges in materials science: Monazite as a promising long-term radioactive waste matrix: Benefits of high-structural flexibility and chemical durability. <i>American Mineralogist</i> , 2013, 98, 833-847.	0.9	151
3	Preparation and characterization of lanthanum-gadolinium monazites as ceramics for radioactive waste storage. <i>New Journal of Chemistry</i> , 2003, 27, 957-967.	1.4	142
4	Stability and Structural Evolution of $Ce^{IV}Ln^{III}O_{2-x}$ Solid Solutions: A Coupled $\frac{1}{4}$ -Raman/XRD Approach. <i>Inorganic Chemistry</i> , 2011, 50, 7150-7161.	1.9	109
5	Immobilisation of actinides in phosphate matrices. <i>Comptes Rendus Chimie</i> , 2004, 7, 1141-1152.	0.2	107
6	Occurrence of an Octanuclear Motif of Uranyl Isophthalate with Cation-Cation Interactions through Edge-Sharing Connection Mode. <i>Inorganic Chemistry</i> , 2011, 50, 6243-6249.	1.9	89
7	Actinide solubility-controlling phases during the dissolution of phosphate ceramics. <i>Journal of Nuclear Materials</i> , 2007, 362, 451-458.	1.3	80
8	Synthesis, Characterization, Sintering, and Leaching of $\frac{1}{2}$ -TUPD/Monazite Radwaste Matrices. <i>Inorganic Chemistry</i> , 2006, 45, 220-229.	1.9	75
9	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.	3.3	72
10	Multiparametric Dissolution of Thorium-Cerium Dioxide Solid Solutions. <i>Inorganic Chemistry</i> , 2011, 50, 11702-11714.	1.9	65
11	Monoclinic Form of the Rhabdophane Compounds: $REEPO_4 \cdot 0.667H_2O$. <i>Crystal Growth and Design</i> , 2014, 14, 5090-5098.	1.4	61
12	X-Ray Diffraction and $\frac{1}{4}$ -Raman Investigation of the Monoclinic-Orthorhombic Phase Transition in $ThU(C_2O_4)_2 \cdot 2H_2O$ Solid Solutions. <i>Inorganic Chemistry</i> , 2010, 49, 1921-1931.		60
13	Influence of Crystallization State and Microstructure on the Chemical Durability of Cerium-Neodymium Mixed Oxides. <i>Inorganic Chemistry</i> , 2011, 50, 9059-9072.	1.9	60
14	Comparative Behavior of Britholites and Monazite/Brabantite Solid Solutions during Leaching Tests: A Combined Experimental and DFT Approach. <i>Inorganic Chemistry</i> , 2008, 47, 10971-10979.	1.9	56
15	Preparation, sintering and leaching of optimized uranium thorium dioxides. <i>Journal of Nuclear Materials</i> , 2009, 385, 400-406.	1.3	55
16	Preparation of morphology controlled $Th_{1-x}U_xO_2$ sintered pellets from low-temperature precursors. <i>Powder Technology</i> , 2011, 208, 454-460.	2.1	54
17	Behavior of thorium-uranium (IV) phosphate-diphosphate sintered samples during leaching tests. Part I - Kinetic study. <i>Journal of Nuclear Materials</i> , 2006, 349, 291-303.	1.3	52
18	Environmental SEM monitoring of $CeLnO_{2-x}$ mixed-oxide microstructural evolution during dissolution. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5193-5203.	5.2	52

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19	Synthesis and characterization of $\text{Th}_{1-x}\text{Ln}_x\text{O}_2$ mixed-oxides. <i>Materials Research Bulletin</i> , 2012, 47, 4017-4025.	2.7	51
20	Behavior of thorium-uranium (IV) phosphate-diphosphate sintered samples during leaching tests. Part II. Saturation processes. <i>Journal of Nuclear Materials</i> , 2006, 349, 304-316.	1.3	50
21	Preparation of Optimized Uranium and Thorium Bearing Brabantite or Monazite/Brabantite Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3673-3682.	1.9	50
22	Monazite, rhabdophane, xenotime & churchite: Vibrational spectroscopy of gadolinium phosphate polymorphs. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 205, 85-94.	2.0	49
23	Determination of the Solubility of Rhabdophanes $\text{LnPO}_4 \cdot 0.667\text{H}_2\text{O}$ (Ln = La to Tm). <i>Journal of Nuclear Materials</i> , 2005, 340, 1-14.	1.0	47
24	Synthesis and characterization of coffinite. <i>Journal of Nuclear Materials</i> , 2009, 393, 449-458.	1.3	46
25	Dissolution of Cerium(IV)-Lanthanide(III) Oxides: Comparative Effect of Chemical Composition, Temperature, and Acidity. <i>Inorganic Chemistry</i> , 2012, 51, 3868-3878.	1.9	44
26	Characterization of the thorium phosphate-hydrogenphosphate hydrate (TPHPH) and study of its transformation into the thorium phosphate-diphosphate (Th_2TPD). <i>Materials Research Bulletin</i> , 2005, 40, 2225-2242.	2.7	43
27	Uranium removal from mining water using Cu substituted hydroxyapatite. <i>Journal of Hazardous Materials</i> , 2020, 392, 122501.	6.5	43
28	In pursuit of the rhabdophane crystal structure: from the hydrated monoclinic $\text{LnPO}_4 \cdot 0.667\text{H}_2\text{O}$ to the hexagonal LnPO_4 (Ln = Nd, Sm, Gd, Eu and Dy). <i>Journal of Solid State Chemistry</i> , 2017, 249, 221-227.	1.4	42
29	Crystal structures of $\text{Th}(\text{OH})\text{PO}_4$, $\text{U}(\text{OH})\text{PO}_4$ and $\text{Th}_2\text{O}(\text{PO}_4)_2$. Condensation mechanism of $\text{M}(\text{OH})\text{PO}_4$ (M=Th, U) into $\text{M}_2\text{O}(\text{PO}_4)_2$. <i>Solid State Sciences</i> , 2007, 9, 619-627.	1.5	41
30	Synthesis and characterization of uranium (IV) phosphate-hydrogenphosphate hydrate and cerium (IV) phosphate-hydrogenphosphate hydrate. <i>Journal of Solid State Chemistry</i> , 2005, 178, 1054-1063.	1.4	39
31	Coffinite, USiO_4 , Is Abundant in Nature: So Why Is It So Difficult To Synthesize?. <i>Inorganic Chemistry</i> , 2015, 54, 6687-6696.	1.9	38
32	Kinetics of dissolution of thorium and uranium doped britholite ceramics. <i>Journal of Nuclear Materials</i> , 2010, 404, 33-43.	1.3	37
33	Calcined resin microsphere pelletization (CRMP): A novel process for sintered metallic oxide pellets. <i>Journal of the European Ceramic Society</i> , 2012, 32, 3199-3209.	2.8	37
34	Dissolution of $\text{Th}_{1-x}\text{U}_x\text{O}_2$: Effects of chemical composition and microstructure. <i>Journal of Nuclear Materials</i> , 2015, 457, 304-316.	1.3	35
35	First experimental determination of the solubility constant of coffinite. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 181, 36-53.	1.6	35
36	How To Explain the Difficulties in the Coffinite Synthesis from the Study of Uranothorite?. <i>Inorganic Chemistry</i> , 2011, 50, 11117-11126.	1.9	33

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37	From Uranothorites to Coffinite: A Solid Solution Route to the Thermodynamic Properties of USiO_4 . <i>Inorganic Chemistry</i> , 2013, 52, 6957-6968.	1.9	33
38	Combining in situ HT-ESEM observations and dilatometry: An original and fast way to the sintering map of ThO_2 . <i>Materials Chemistry and Physics</i> , 2013, 137, 742-749.	2.0	32
39	Sintering of ^{232}Th -Uranium(IV) Phosphate~Diphosphate Solid Solutions from Low-Temperature Precursors. <i>Chemistry of Materials</i> , 2004, 16, 3357-3366.	3.2	31
40	Energetics of a Uranothorite ($\text{Th}_x\text{U}_x\text{SiO}_4$) Solid Solution. <i>Chemistry of Materials</i> , 2016, 28, 7117-7124.	3.2	31
41	Preparation and characterisation of uranium oxides with spherical shapes and hierarchical structures. <i>CrystEngComm</i> , 2014, 16, 6944-6954.	1.3	30
42	Catalytic dissolution of ceria under mild conditions. <i>Journal of Materials Chemistry</i> , 2012, 22, 14734.	6.7	29
43	From thorite to coffinite: A spectroscopic study of $\text{Th}_x\text{U}_x\text{SiO}_4$ solid solutions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 302-307.	2.0	29
44	Working with the ESEM at high temperature. <i>Materials Characterization</i> , 2019, 151, 15-26.	1.9	29
45	Triclinic~Cubic Phase Transition and Negative Expansion in the Actinide IV (Th, U, Np, Pu) Diphosphates. <i>Inorganic Chemistry</i> , 2012, 51, 4314-4322.	1.9	27
46	Preparation and characterization of synthetic $\text{Th}_0.5\text{U}_0.5\text{SiO}_4$ uranothorite. <i>Progress in Nuclear Energy</i> , 2012, 57, 155-160.	1.3	27
47	From in Situ HT-ESEM Observations to Simulation: How Does Polycrystallinity Affects the Sintering of CeO_2 Microspheres?. <i>Journal of Physical Chemistry C</i> , 2016, 120, 386-395.	1.5	27
48	Thermodynamics and Stability of Rhabdophanes, Hydrated Rare Earth Phosphates $\text{REPO}_4 \cdot n\text{H}_2\text{O}$. <i>Frontiers in Chemistry</i> , 2018, 6, 604.	1.8	27
49	Dynamic aspects of cerium dioxide sintering: HT-ESEM study of grain growth and pore elimination. <i>Journal of the European Ceramic Society</i> , 2012, 32, 353-362.	2.8	26
50	Charged defects during alpha-irradiation of actinide oxides as revealed by Raman and luminescence spectroscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 374, 67-70.	0.6	26
51	Synthesis, Raman and Rietveld analysis of thorium diphosphate. <i>Journal of Solid State Chemistry</i> , 2008, 181, 3352-3356.	1.4	25
52	An original precipitation route toward the preparation and the sintering of highly reactive uranium cerium dioxide powders. <i>Journal of Nuclear Materials</i> , 2015, 462, 173-181.	1.3	25
53	From uranium(IV) oxalate to sintered UO_2 : Consequences of the powders' thermal history on the microstructure. <i>Journal of the European Ceramic Society</i> , 2015, 35, 4535-4546.	2.8	25
54	High-temperature electron microscopy study of ThO_2 microspheres sintering. <i>Journal of the European Ceramic Society</i> , 2017, 37, 727-738.	2.8	25

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55	Dissolution kinetics of monazite LnPO ₄ (Ln = La to Gd): A multiparametric study. Applied Geochemistry, 2018, 93, 81-93.	1.4	25
56	Effect of powder morphology on sintering kinetics, microstructure and mechanical properties of monazite ceramics. Journal of the European Ceramic Society, 2018, 38, 227-234.	2.8	25
57	Tetrameric entity resulting from two distinct dinuclear uranyl-centered motifs bridged through 1/4-OH and pyridazine-3,6-dicarboxylate. Inorganic Chemistry Communication, 2011, 14, 429-432.	1.8	24
58	In Situ HT-ESEM Observation of CeO ₂ Grain Growth During Sintering. Journal of the American Ceramic Society, 2012, 95, 3683-3690.	1.9	24
59	Hydrothermal Conversion of Uranium(IV) Oxalate into Oxides: A Comprehensive Study. Inorganic Chemistry, 2020, 59, 3260-3273.	1.9	24
60	Solubility properties of synthetic and natural meta-torbernite. Journal of Nuclear Materials, 2013, 442, 195-207.	1.3	23
61	Improvement of the preparation of sintered pellets of thorium phosphate-diphosphate and associated solid solutions from crystallized precursors. Journal of Nuclear Materials, 2006, 352, 209-216.	1.3	22
62	Multiparametric study of Th _{1-x} Ln _x O ₂ mixed oxides dissolution in nitric acid media. Journal of Nuclear Materials, 2012, 429, 237-244.	1.3	22
63	High-temperature behavior of cesium molybdate Cs ₂ MoO ₄ : Implications for fast neutron reactors. Journal of Solid State Chemistry, 2014, 215, 225-230.	1.4	22
64	Synthesis and characterization of low-temperature precursors of thorium-uranium (IV) phosphate-diphosphate solid solutions. Journal of Nuclear Materials, 2004, 335, 397-409.	1.3	21
65	Vibrational spectroscopy of synthetic analogues of ankoleite, chernikovite and intermediate solid solution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 156, 143-150.	2.0	21
66	Synthesis of size-controlled UO ₂ microspheres from the hydrothermal conversion of U(IV) aspartate. CrystEngComm, 2018, 20, 7749-7760.	1.3	21
67	Charge compensation mechanisms in Nd-doped UO ₂ samples for stoichiometric and hypo-stoichiometric conditions: Lack of miscibility gap. Journal of Nuclear Materials, 2020, 539, 152276.	1.3	21
68	Structural and thermodynamic study of cesium molybdate Cs ₂ Mo ₂ O ₇ : Implications for fast neutron reactors. Journal of Solid State Chemistry, 2017, 253, 89-102.	1.4	20
69	Synthesis, Crystal Structure, and Enthalpies of Formation of Churchite-type REPO ₄ ·2H ₂ O (RE = Gd to Lu) Materials. Crystal Growth and Design, 2019, 19, 4641-4649.	1.4	20
70	Preparation, characterization and sintering of yttrium-doped ThO ₂ for oxygen sensors applications. Journal of Alloys and Compounds, 2016, 689, 374-382.	2.8	19
71	Thorium aspartate tetrahydrate precursor to ThO ₂ : Comparison of hydrothermal and thermal conversions. Journal of Nuclear Materials, 2017, 487, 331-342.	1.3	19
72	Dilatometric study of U _{1-x} Am _x O ₂ and U _{1-x} Ce _x O ₂ reactive sintering. Journal of Nuclear Materials, 2013, 441, 40-46.	1.3	18

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73	In situ HT-ESEM study of crystallites growth within CeO ₂ microspheres. <i>Ceramics International</i> , 2015, 41, 14703-14711.	2.3	18
74	Incorporation of Thorium in the Zircon Structure Type through the Th _{1-x} Er _x (SiO ₄) ₂ (PO ₄) ₂ Th _{1-x} Er _x Thorite-Xenotime Solid Solution. <i>Inorganic Chemistry</i> , 2016, 55, 11273-11282.	1.8	18
75	The Role of Water and Hydroxyl Groups in the Structures of Stetindite and Coffinite, MSiO ₄ (M = Ce, U). <i>Inorganic Chemistry</i> , 2021, 60, 718-735.	1.9	18
76	From thorium phosphate hydrogenphosphate hydrate to ²³² thorium phosphate diphosphate: Structural evolution to a radwaste storage ceramic. <i>Journal of Solid State Chemistry</i> , 2006, 179, 3007-3016.	1.4	17
77	Purification of uranothorite solid solutions from polyphase systems. <i>Journal of Nuclear Materials</i> , 2013, 441, 73-83.	1.3	17
78	The effect of the synthesis route of monazite precursors on the microstructure of sintered pellets. <i>Progress in Nuclear Energy</i> , 2016, 92, 298-305.	1.3	17
79	Kinetics of Structural and Microstructural Changes at the Solid/Solution Interface during Dissolution of Cerium(IV)-Neodymium(III) Oxides. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12027-12037.	1.5	16
80	Dissolution of uranium mixed oxides: The role of oxygen vacancies vs the redox reactions. <i>Progress in Nuclear Energy</i> , 2014, 72, 101-106.	1.3	16
81	Hydrothermal Method of Preparation of Actinide(IV) Phosphate Hydrogenphosphate Hydrates and Study of Their Conversion into Actinide(IV) Phosphate Diphosphate Solid Solutions. <i>Inorganic Chemistry</i> , 2007, 46, 10390-10399.	1.9	15
82	Negative thermal expansion in Th ₂ (PO ₄) ₂ . <i>Materials Research Bulletin</i> , 2011, 46, 1777-1780.	2.7	14
83	Densification behavior and microstructure evolution of yttrium-doped ThO ₂ ceramics. <i>Journal of the European Ceramic Society</i> , 2017, 37, 3381-3391.	2.8	14
84	Incorporation of thorium in the rhabdophane structure: Synthesis and characterization of Pr _{1-2x} Ca _x Th _x PO ₄ ·nH ₂ O solid solutions. <i>Journal of Nuclear Materials</i> , 2017, 492, 88-96.	1.3	14
85	Oxidation as an Early Stage in the Multistep Thermal Decomposition of Uranium(IV) Oxalate into U ₃ O ₈ . <i>Inorganic Chemistry</i> , 2020, 59, 8589-8602.	1.9	14
86	Hydrothermal Conversion of Thorium Oxalate into ThO ₂ ·nH ₂ O Oxide. <i>Inorganic Chemistry</i> , 2020, 59, 14954-14966.	1.9	13
87	Direct synthesis of pure brannerite UTi ₂ O ₆ . <i>Journal of Nuclear Materials</i> , 2019, 515, 401-406.	1.3	12
88	Reaction sintering of rhabdophane into monazite-cheralite Nd _{1-2x} Th _x Ca _x PO ₄ (x = 0-0.1) ceramics. <i>Journal of the European Ceramic Society</i> , 2020, 40, 911-922.	2.8	11
89	Catalytic dissolution of ceria-lanthanide mixed oxides provides environmentally friendly partitioning of lanthanides and platinum. <i>Hydrometallurgy</i> , 2015, 151, 107-115.	1.8	10
90	The Flexible Ba ₇ UM ₂ S _{12.5} O _{0.5} (M = V, Fe) Compounds: Syntheses, Structures and Spectroscopic, Resistivity, and Electronic Properties. <i>Inorganic Chemistry</i> , 2013, 52, 12057-12063.	1.9	9

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91	Novel approaches for the <i>in situ</i> study of the sintering of nuclear oxide fuel materials and their surrogates. <i>Radiochimica Acta</i> , 2017, 105, 879-892.	0.5	9
92	From Th-Rhabdophane to Monazite-Cheralite Solid Solutions: Thermal Behavior of $\text{Nd}_{1-x}\text{Th}_x\text{Ca}_{4-x}\text{PO}_4\text{H}_2\text{O}$ ($x = 0\text{--}0.15$). <i>Crystal Growth and Design</i> , 2019, 19, 2794-2801.	1.4	9
93	Determination of the isotopic composition of single sub- μm -sized uranium particles by laser ablation coupled with multi-collector inductively coupled plasma mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 419-428.	0.7	9
94	Effect of hydration and thermal treatment on ceria surface using non-intrusive techniques. <i>Journal of Nuclear Materials</i> , 2014, 444, 359-367.	1.3	8
95	Chemical and mineralogical modifications of simplified radioactive waste calcine during heat treatment. <i>Journal of Nuclear Materials</i> , 2014, 448, 8-19.	1.3	8
96	Solubility product of the thorium phosphate hydrogen-phosphate hydrate $(\text{Th}_2(\text{PO}_4)_2(\text{HPO}_4)\cdot\text{H}_2\text{O})$. <i>Journal of Nuclear Materials</i> , 2014, 448, 8-19.	1.0	8
97	Sintering of a $\text{UO}_2\text{-PuO}_2$ freeze-granulated powder under reducing conditions. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5900-5908.	2.8	6
98	A multiscale <i>in situ</i> high temperature high resolution transmission electron microscopy study of ThO_2 sintering. <i>Nanoscale</i> , 2021, 13, 7362-7374.	2.8	6
99	SEraMic: A semi-automatic method for the segmentation of grain boundaries. <i>Journal of the European Ceramic Society</i> , 2021, 41, 5349-5358.	2.8	6
100	Investigation in thorium phosphate by NMR II-phosphorus dipolar networks. <i>Solid State Nuclear Magnetic Resonance</i> , 2006, 29, 294-304.	1.5	5
101	Impact of the cationic homogeneity on $\text{Th}_0.5\text{U}_0.5\text{O}_2$ densification and chemical durability. <i>Journal of Nuclear Materials</i> , 2019, 514, 368-379.	1.3	5
102	Early stages of UO_2+x sintering by <i>in situ</i> high-temperature environmental scanning electron microscopy. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5891-5899.	2.8	5
103	Structural and thermodynamic study of $\text{Cs}_3\text{Na}(\text{MoO}_4)_2$: Margin to the safe operation of sodium cooled fast reactors. <i>Journal of Solid State Chemistry</i> , 2019, 269, 1-8.	1.4	4
104	Impact of liquid sodium corrosion on microstructure and electrical properties of yttrium-doped thoria prepared by co-precipitation. <i>Corrosion Science</i> , 2020, 171, 108721.	3.0	4
105	Synthesis and Direct Sintering of Nanosized $(\text{M}^{\text{IV}}, \text{M}^{\text{III}})\text{O}_2$ Hydrated Oxides as Electrolyte Ceramics. <i>ChemPhysChem</i> , 2017, 18, 2666-2674.	1.0	3
106	Influence of the PuO_2 content on the sintering behaviour of $\text{UO}_2\text{-PuO}_2$ freeze-granulated powders under reducing conditions. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6778-6783.	2.8	3
107	Direct sintering of UO_2+x oxides prepared under hydrothermal conditions. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6697-6707.	2.8	3
108	Study of Actinides Incorporation in Thorium Phosphate-Diphosphate/Monazite Based Ceramics. <i>Materials Research Society Symposia Proceedings</i> , 2003, 802, 111.	0.1	2

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109	Hydrothermal Methods as a New Way of Actinide Phosphate Preparation. Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	2
110	Structural changes of Nd- and Ce-doped ammonium diuranate microspheres during the conversion to $U_1-xV_xO_2$. Journal of Nuclear Materials, 2020, 542, 152454.	1.3	2
111	Effect of Annealing on Structural and Thermodynamic Properties of $ThSiO_4$ - $ErPO_4$ Xenotime Solid Solution. Inorganic Chemistry, 2021, 60, 12020-12028.	1.9	2
112	Impact of impurities on the fabrication and performances of yttrium-doped thoria electrolyte ceramics. Journal of Nuclear Materials, 2022, 560, 153499.	1.3	2
113	Structural and Thermodynamic Investigation of the Perovskite $Ba_2NaMoO_{5.5}$. Inorganic Chemistry, 2020, 59, 6120-6130.	1.9	1
114	Investigation in hydrated thorium phosphates by NMR I-relation proton phosphorus. Solid State Nuclear Magnetic Resonance, 2006, 30, 29-44.	1.5	0
115	Kinetic and Thermodynamic Study of the Chemistry of Neoformed Phases during the Dissolution of Phosphate Based Ceramics. Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	0
116	Separation of uranium(VI) from tri- and tetravalent elements in phosphoric acid solutions. Radiochimica Acta, 2006, 94, .	0.5	0
117	In Situ Study of CeO_2 Microspheres Sintering Using HT-ESEM. Microscopy and Microanalysis, 2016, 22, 62-63.	0.2	0
118	First Stage of Sintering of ThO_2 Microspheres: a HT-ESEM and HT-HRTEM Study. Microscopy and Microanalysis, 2019, 25, 49-50.	0.2	0