

Xiaoyan Shu

List of Publications by Year in descending order

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papers

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid immobilization of simulated radioactive soil waste by microwave sintering. <i>Journal of Hazardous Materials</i> , 2017, 337, 20-26.	12.4	52
2	Phase structure and aqueous stability of TRPO waste incorporation into Gd ₂ Zr ₂ O ₇ pyrochlore. <i>Ceramics International</i> , 2015, 41, 11741-11747.	4.8	46
3	Rapid vitrification of uranium-contaminated soil: Effect and mechanism. <i>Environmental Pollution</i> , 2020, 263, 114539.	7.5	42
4	Experimental investigation on structural evolution of granite at high temperature induced by microwave irradiation. <i>Mineralogy and Petrology</i> , 2019, 113, 745-754.	1.1	35
5	Phase evolution and chemical durability of Nd-doped zircon ceramics designed to immobilize trivalent actinides. <i>Ceramics International</i> , 2015, 41, 10044-10050.	4.8	34
6	Rapid fabrication and phase transition of Nd and Ce co-doped Gd ₂ Zr ₂ O ₇ ceramics by SPS. <i>Journal of the European Ceramic Society</i> , 2018, 38, 2863-2870.	5.7	33
7	Rapid solidification of Sr-contaminated soil by consecutive microwave sintering: mechanism and stability evaluation. <i>Journal of Hazardous Materials</i> , 2021, 407, 124761.	12.4	33
8	Rapid synthesis of high densified single phase ceramic Gd ₂ Zr ₂ O ₇ by spark plasma sintering. <i>Materials Letters</i> , 2017, 196, 403-405.	2.6	31
9	Radiation stability of Gd ₂ Zr ₂ O ₇ and Nd ₂ Ce ₂ O ₇ ceramics as nuclear waste forms. <i>Ceramics International</i> , 2018, 44, 760-765.	4.8	30
10	Fabrication and phase transition of Gd ₂ Zr ₂ O ₇ ceramics immobilized various simulated radionuclides. <i>Journal of Nuclear Materials</i> , 2015, 456, 467-470.	2.7	28
11	Chemical stability of Ce-doped zircon ceramics: Influence of pH, temperature and their coupling effects. <i>Journal of Rare Earths</i> , 2017, 35, 164-171.	4.8	27
12	Rapid synthesis and chemical durability of Gd ₂ Zr ₂ -Ce O ₇ via SPS for nuclear waste forms. <i>Ceramics International</i> , 2018, 44, 20306-20310.	4.8	24
13	Microwave vitrification of uranium-contaminated soil for nuclear test site and chemical stability. <i>Ceramics International</i> , 2019, 45, 13334-13339.	4.8	23
14	Rapid immobilization of complex simulated radionuclides by as-prepared Gd ₂ Zr ₂ O ₇ ceramics without structural design. <i>Journal of Nuclear Materials</i> , 2019, 526, 151782.	2.7	22
15	Heavy-ion irradiation effects on Gd ₂ Zr ₂ O ₇ ceramics bearing complex nuclear waste. <i>Journal of Alloys and Compounds</i> , 2019, 771, 973-979.	5.5	21
16	Heavy-ion irradiation effects on uranium-contaminated soil for nuclear waste. <i>Journal of Hazardous Materials</i> , 2021, 405, 124273.	12.4	21
17	Microstructure evolution of rapidly fabricated Gd ₂ -Nd Zr ₂ O ₇ (0.0 at% x at% 2.0) by spark plasma sintering. <i>Ceramics International</i> , 2018, 44, 2458-2462.	4.8	17
18	Microstructure and performance studies of (Mo, Ru, Pd, Zr) tetra-doped gadolinium zirconate pyrochlore. <i>Advances in Applied Ceramics</i> , 2017, 116, 272-277.	1.1	15

#	ARTICLE	IF	CITATIONS
19	Rapid vitrification of simulated Sr ²⁺ radioactive contaminated soil for nuclear emergencies. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 115-121.	1.5	13
20	Chemical behavior of uranium contaminated soil solidified by microwave sintering. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 2109-2117.	1.5	12
21	Microwave vitrification of simulated radioactively contaminated soil: Mechanism and performance. Journal of Solid State Chemistry, 2021, 293, 121757.	2.9	11
22	Immobilisation of nuclear waste by microwave sintering with a natural magmatic rock. Philosophical Magazine Letters, 2018, 98, 155-160.	1.2	10
23	Rapid synthesis of Gd ₂ Zr ₂ O ₇ glass-ceramics using spark plasma sintering. Journal of the American Ceramic Society, 2020, 103, 597-603.	3.8	10
24	Immobilization of simulated An ⁴⁺ in radioactive contaminated clay via microwave sintering. Materials Chemistry and Physics, 2020, 254, 123534.	4.0	5
25	Simulated self-irradiation effects of Gd ₂ Ce ₂ O ₇ nuclear waste form. Journal of Radioanalytical and Nuclear Chemistry, 2020, 324, 271-276.	1.5	5
26	Effect of improved trialkyl phosphine oxides waste content on phase composition and density of spark plasma sintered Gd ₂ Zr ₂ O ₇ ceramics. International Journal of Energy Research, 2021, 45, 8724-8734.	4.5	5
27	Effective management of trialkyl phosphine oxides waste via Gd ₂ Zr ₂ O ₇ ceramic. Journal of Cleaner Production, 2022, 348, 131370.	9.3	5
28	Xe ²⁰⁺ irradiation effects on soil holding simulated An ⁴⁺ waste. Journal of Radioanalytical and Nuclear Chemistry, 2021, 327, 1159-1166.	1.5	3
29	Effects of heavy-ion irradiation on Gd ₂ Zr ₂ O ₇ bearing simulated TRPO waste. Ceramics International, 2018, 44, 14020-14025.	4.8	2
30	Immobilize CeO ₂ as simulated nuclear waste in natural magmatic granite: maximum solid solubility. Journal of Radioanalytical and Nuclear Chemistry, 2021, 328, 795-803.	1.5	2
31	Effect of soil particle size and types on the crystallization behavior for nuclear waste disposal. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 137-145.	1.5	0