

Xiaoyan Shu

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

617
citations

516710

16
h-index

610901

24
g-index

31
all docs

31
docs citations

31
times ranked

266
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Microwave vitrification of simulated radioactively contaminated soil: Mechanism and performance. Journal of Solid State Chemistry, 2021, 293, 121757.	2.9	11
3	Rapid solidification of Sr-contaminated soil by consecutive microwave sintering: mechanism and stability evaluation. Journal of Hazardous Materials, 2021, 407, 124761.	12.4	33
4	Heavy-ion irradiation effects on uranium-contaminated soil for nuclear waste. Journal of Hazardous Materials, 2021, 405, 124273.	12.4	21
5	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
6	Xe ²⁰⁺ irradiation effects on soil holding simulated An ⁴⁺ waste. Journal of Radioanalytical and Nuclear Chemistry, 2021, 327, 1159-1166.	1.5	3
7	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
8	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
9	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
10	Immobilization of simulated An ⁴⁺ in radioactive contaminated clay via microwave sintering. Materials Chemistry and Physics, 2020, 254, 123534.	4.0	5
11	Rapid vitrification of uranium-contaminated soil: Effect and mechanism. Environmental Pollution, 2020, 263, 114539.	7.5	42
12	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
13	Chemical behavior of uranium contaminated soil solidified by microwave sintering. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 2109-2117.	1.5	12
14	Experimental investigation on structural evolution of granite at high temperature induced by microwave irradiation. Mineralogy and Petrology, 2019, 113, 745-754.	1.1	35
15	Rapid immobilization of complex simulated radionuclides by as-prepared Gd ₂ Zr ₂ O ₇ ceramics without structural design. Journal of Nuclear Materials, 2019, 526, 151782.	2.7	22
16	Microwave vitrification of uranium-contaminated soil for nuclear test site and chemical stability. Ceramics International, 2019, 45, 13334-13339.	4.8	23
17	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
18	Heavy-ion irradiation effects on Gd ₂ Zr ₂ O ₇ ceramics bearing complex nuclear waste. Journal of Alloys and Compounds, 2019, 771, 973-979.	5.5	21

#	ARTICLE	IF	CITATIONS
19	Rapid fabrication and phase transition of Nd and Ce co-doped Gd ₂ Zr ₂ O ₇ ceramics by SPS. Journal of the European Ceramic Society, 2018, 38, 2863-2870.	5.7	33
20	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
21	Microstructure evolution of rapidly fabricated Gd ₂ -Nd Zr ₂ O ₇ (0.0 x 2.0) by spark plasma sintering. Ceramics International, 2018, 44, 2458-2462.	4.8	17
22	Radiation stability of Gd ₂ Zr ₂ O ₇ and Nd ₂ Ce ₂ O ₇ ceramics as nuclear waste forms. Ceramics International, 2018, 44, 760-765.	4.8	30
23	Immobilisation of nuclear waste by microwave sintering with a natural magmatic rock. Philosophical Magazine Letters, 2018, 98, 155-160.	1.2	10
24	Rapid synthesis and chemical durability of Gd ₂ Zr ₂ -Ce O ₇ via SPS for nuclear waste forms. Ceramics International, 2018, 44, 20306-20310.	4.8	24
25	Chemical stability of Ce-doped zircon ceramics: Influence of pH, temperature and their coupling effects. Journal of Rare Earths, 2017, 35, 164-171.	4.8	27
26	Rapid immobilization of simulated radioactive soil waste by microwave sintering. Journal of Hazardous Materials, 2017, 337, 20-26.	12.4	52
27	Microstructure and performance studies of (Mo, Ru, Pd, Zr) tetra-doped gadolinium zirconate pyrochlore. Advances in Applied Ceramics, 2017, 116, 272-277.	1.1	15
28	Rapid synthesis of high densified single phase ceramic Gd ₂ Zr ₂ O ₇ by spark plasma sintering. Materials Letters, 2017, 196, 403-405.	2.6	31
29	Phase evolution and chemical durability of Nd-doped zircon ceramics designed to immobilize trivalent actinides. Ceramics International, 2015, 41, 10044-10050.	4.8	34
30	Phase structure and aqueous stability of TRPO waste incorporation into Gd ₂ Zr ₂ O ₇ pyrochlore. Ceramics International, 2015, 41, 11741-11747.	4.8	46
31	Fabrication and phase transition of Gd ₂ Zr ₂ O ₇ ceramics immobilized various simulated radionuclides. Journal of Nuclear Materials, 2015, 456, 467-470.	2.7	28