List of Publications by Year in descending order

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Χιριτίτι

#	Article	IF	CITATIONS
1	Treatment of zeolite adsorbed material as a potential nuclear waste glassâ€ceramic matrix. Journal of the American Ceramic Society, 2022, 105, 257-267.	3.8	5
2	Effect of irradiation on the phase evolution and chemical stability of neodymium and cerium co-doped simulated radioactive contaminated soil. Journal of Environmental Chemical Engineering, 2022, 10, 106936.	6.7	2
3	Microwave vitrification of Sr-contaminated soil: microstructure, mechanical properties and chemical durability. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 511-522.	1.5	2
4	Application of poly(vinylphosphonic acid) modified poly(amidoxime) in uptake of uranium from seawater. RSC Advances, 2022, 12, 4054-4060.	3.6	5
5	Effective management of trialkyl phosphine oxides waste via Gd2Zr2O7 ceramic. Journal of Cleaner Production, 2022, 348, 131370.	9.3	5
6	High immobilizing capacity of natural granite as glass-ceramic matrix to simulated trivalent actinide waste. Radiation Physics and Chemistry, 2022, 195, 110067.	2.8	4
7	Immobilization of simulated An4+ radioactively contaminated zeolite: Solidify mechanism and theory investigation. Journal of Solid State Chemistry, 2022, 311, 123095.	2.9	2
8	Sintering Bi ₂ O ₃ –B ₂ O ₃ –ZnO ternary low temperature glass by hydration device to solidify iodine containing silver-coated silica gel. Radiochimica Acta, 2022, 110, 193-203.	1.2	1
9	Immobilization of iodine waste at low sintering temperature: Phase evolution and microstructure transformation. Annals of Nuclear Energy, 2022, 173, 109145.	1.8	3
10	Bismuth Coordinates with Iodine Atoms to Form Chemical Bonds for Existing Stabilization in Boron Glass. Inorganic Chemistry, 2022, 61, 9860-9867.	4.0	4
11	Characteristics of cerium doped aluminosilicate glass as simulated radioactive waste forms: Effect on structures and properties. Progress in Nuclear Energy, 2022, 150, 104299.	2.9	9
12	Insight into the effect of Nd2O3 and CeO2 co-doped Gd2Zr2O7 ceramics without structural design: Phase evolution and chemical durability. Vacuum, 2022, 203, 111256.	3.5	3
13	Low-sintering-temperature borosilicate glass to immobilize silver-coated silica-gel with different iodine loadings. Journal of Hazardous Materials, 2021, 403, 123588.	12.4	16
14	Immobilization of iodine waste forms: A low-sintering temperature with Bi2O3-B2O3-ZnO glass. Annals of Nuclear Energy, 2021, 150, 107817.	1.8	16
15	Immobilization of silver-coated silica gel with varying iodine loading in silicate glass ceramics. Journal of Non-Crystalline Solids, 2021, 551, 120433.	3.1	5
16	Microwave vitrification of simulated radioactively contaminated soil: Mechanism and performance. Journal of Solid State Chemistry, 2021, 293, 121757.	2.9	11
17	Rapid solidification of Sr-contaminated soil by consecutive microwave sintering: mechanism and stability evaluation. Journal of Hazardous Materials, 2021, 407, 124761.	12.4	33
18	Role of amorphous silica gel in B2O3-Bi2O3-ZnO-SiO2 to immobilize iodine waste. Journal of Nuclear Materials, 2021, 543, 152619.	2.7	13

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19	Immobilization of uranium-contaminated soil into glass waste by microwave sintering: Experimental and theoretical study. Journal of Non-Crystalline Solids, 2021, 556, 120551.	3.1	9
20	Heavy-ion irradiation effects on uranium-contaminated soil for nuclear waste. Journal of Hazardous Materials, 2021, 405, 124273.	12.4	21
21	The immobilization on various concentrations of iodine in silver-coated silica gel via B2O3–Bi2O3 based material. Materials Chemistry and Physics, 2021, 259, 124040.	4.0	8
22	Application of silica gel to immobilise iodine waste by low-temperature sintering. Philosophical Magazine Letters, 2021, 101, 79-84.	1.2	2
23	Transformation details of poly(acrylonitrile) to poly(amidoxime) during the amidoximation process. RSC Advances, 2021, 11, 1909-1915.	3.6	17
24	Effect of improved trialkyl phosphine oxides waste content on phase composition and density of spark plasma sintered <scp> Gd ₂ Zr ₂ O ₇ </scp> ceramics. International Journal of Energy Research, 2021, 45, 8724-8734.	4.5	5
25	Utilization of B ₂ O ₃ –Bi ₂ O ₃ –ZnO low-temperature glass-ceramics to immobilize iodine-loaded silver-coated silica-gel. Journal of Materials Chemistry C, 2021, 9, 10462-10471.	5.5	7
26	Xe20+ irradiation effects on soil holding simulated An4+ waste. Journal of Radioanalytical and Nuclear Chemistry, 2021, 327, 1159-1166.	1.5	3
27	Mechanical and leaching properties of neodymium ontaminated soil glass eramics. Journal of the American Ceramic Society, 2021, 104, 2521-2529.	3.8	22
28	Synthesis of glass composite material with bismuthate glass powder and zeolite-4A for immobilization of iodine waste. Journal of Solid State Chemistry, 2021, 294, 121856.	2.9	11
29	Immobilize CeO2 as simulated nuclear waste in natural magmatic granite: maximum solid solubility. Journal of Radioanalytical and Nuclear Chemistry, 2021, 328, 795-803.	1.5	2
30	Direct immobilization of iodine-loaded silver-coated silica gel with silicate glass powders at low temperature. Journal of Radioanalytical and Nuclear Chemistry, 2021, 329, 401-410.	1.5	2
31	Novel method for efficient solidification the iodine contained waste by B2O3–Bi2O3 glass powder at very low temperature. Journal of Radioanalytical and Nuclear Chemistry, 2021, 329, 1467-1476.	1.5	5
32	Low-temperature fabrication of glass-based iodine waste forms via a novel preparation method. Journal of Solid State Chemistry, 2021, 300, 122186.	2.9	6
33	Polyguanidine-modified adsorbent to enhance marine applicability for uranium recovery from seawater. Journal of Hazardous Materials, 2021, 416, 126192.	12.4	40
34	Response of simulated An3+/An4+ radioactive soil vitrification under alpha-particle irradiation. Radiation Physics and Chemistry, 2021, 187, 109567.	2.8	1
35	Investigation of the mechanism for simulated graphite waste treatment via microwave sintering technology. Journal of Hazardous Materials Letters, 2021, , 100046.	3.6	0
36	Rapid synthesis of Gd 2 Zr 2 O 7 glass eramics using spark plasma sintering. Journal of the American Ceramic Society, 2020, 103, 597-603.	3.8	10

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37	Solubility of Nd3+ and Ce4+ in co-doped simulated radioactive contaminated soil after microwave vitrification. Ceramics International, 2020, 46, 6767-6773.	4.8	18
38	Ab initio calculation of mechanical and thermodynamic properties of Gd2Zr2O7 pyrochlore. Materials Chemistry and Physics, 2020, 243, 122565.	4.0	6
39	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
40	Immobilization of iodine waste in B2O3–Bi2O3–ZnO based materials: maximum solid solubility. Journal of Radioanalytical and Nuclear Chemistry, 2020, 326, 1447-1456.	1.5	3
41	B2O3–Bi2O3–ZnO based materials for low-sintering temperature immobilization of iodine adsorbed waste. Journal of Solid State Chemistry, 2020, 289, 121518.	2.9	31
42	Bifunctional Phosphorylcholine-Modified Adsorbent with Enhanced Selectivity and Antibacterial Property for Recovering Uranium from Seawater. ACS Applied Materials & Interfaces, 2020, 12, 16959-16968.	8.0	48
43	Immobilization of simulated An4+ in radioactive contaminated clay via microwave sintering. Materials Chemistry and Physics, 2020, 254, 123534.	4.0	5
44	The effect of boron on zeolite-4A immobilization of iodine waste forms with a novel preparation method. Journal of Radioanalytical and Nuclear Chemistry, 2020, 324, 579-587.	1.5	30
45	Rapid vitrification of uranium-contaminated soil: Effect and mechanism. Environmental Pollution, 2020, 263, 114539.	7.5	42
46	Simulated self-irradiation effects of Gd2Ce2O7 nuclear waste form. Journal of Radioanalytical and Nuclear Chemistry, 2020, 324, 271-276.	1.5	5
47	Immobilization of simulated waste into pure Gd ₂ Zr ₂ O ₇ pyrochlore without space occupancy design. Journal of the American Ceramic Society, 2020, 103, 4700-4712.	3.8	6
48	Enhanced marine applicability of adsorbent for uranium via synergy of hyperbranched poly(amido) Tj ETQq0 0 0 r	gBT /Over 12.7	lock 10 Tf 50
49	Solubility of Sr2+ in the Gd2Zr2O7 ceramics via appropriate occupation designs. Journal of Alloys and Compounds, 2019, 808, 151563.	5.5	7
50	Boron assisted low temperature immobilization of iodine adsorbed by silver-coated silica gel. Journal of Nuclear Materials, 2019, 526, 151758.	2.7	32
51	Chemical behavior of uranium contaminated soil solidified by microwave sintering. Journal of Radioanalytical and Nuclear Chemistry, 2019, 322, 2109-2117.	1.5	12
52	Microwave irradiation reinforcement of weak muddy intercalation in slope. Applied Clay Science, 2019, 183, 105324.	5.2	9
53	Experimental investigation on structural evolution of granite at high temperature induced by microwave irradiation. Mineralogy and Petrology, 2019, 113, 745-754.	1.1	35

⁵⁴Rapid immobilization of complex simulated radionuclides by as-prepared Gd2Zr2O7 ceramics without
structural design. Journal of Nuclear Materials, 2019, 526, 151782.2.722

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55	Porous NiFe-oxide nanocubes derived from prussian blue analogue as efficient adsorbents for the removal of toxic metal ions and organic dyes. Journal of Hazardous Materials, 2019, 379, 120786.	12.4	53
56	Atomic configurations of basal stacking faults and dislocation loops in GaN irradiated with Xe20+ ions at room temperature. Applied Surface Science, 2019, 486, 15-21.	6.1	10
57	Microwave vitrification of uranium-contaminated soil for nuclear test site and chemical stability. Ceramics International, 2019, 45, 13334-13339.	4.8	23
58	Alpha-radiation effects of Gd2Zr2O7 bearing simulated multi-nuclides. Journal of the Australian Ceramic Society, 2019, 55, 831-836.	1.9	5
59	Rapid vitrification of simulated Sr2+ radioactive contaminated soil for nuclear emergencies. Journal of Radioanalytical and Nuclear Chemistry, 2019, 319, 115-121.	1.5	13
60	Heavy-ion irradiation effects on Gd2Zr2O7 ceramics bearing complex nuclear waste. Journal of Alloys and Compounds, 2019, 771, 973-979.	5.5	21
61	Rapid fabrication and phase transition of Nd and Ce co-doped Gd2Zr2O7 ceramics by SPS. Journal of the European Ceramic Society, 2018, 38, 2863-2870.	5.7	33
62	Helium ion irradiation effects on neodymium and cerium co-doped Gd 2 Zr 2 O 7 pyrochlore ceramic. Journal of Rare Earths, 2018, 36, 398-403.	4.8	9
63	Effects of heavy-ion irradiation on Gd2Zr2O7 bearing simulated TRPO waste. Ceramics International, 2018, 44, 14020-14025.	4.8	2
64	Microstructure evolution of rapidly fabricated Gd2-Nd Zr2O7 (0.0 ≤ ≤.0) by spark plasma sintering. Ceramics International, 2018, 44, 2458-2462.	4.8	17
65	Effects of alpha irradiation on Nd2Zr2O7 matrix for nuclear waste forms. Journal of the Australian Ceramic Society, 2018, 54, 33-38.	1.9	6
66	Radiation stability of Gd2Zr2O7 and Nd2Ce2O7 ceramics as nuclear waste forms. Ceramics International, 2018, 44, 760-765.	4.8	30
67	Immobilisation of nuclear waste by microwave sintering with a natural magmatic rock. Philosophical Magazine Letters, 2018, 98, 155-160.	1.2	10
68	Spectroscopic Investigation of Enhanced Adsorption of U(VI) and Eu(III) on Magnetic Attapulgite in Binary System. Industrial & Engineering Chemistry Research, 2018, 57, 7533-7543.	3.7	32
69	Rapid synthesis and chemical durability of Gd2Zr2-Ce O7 via SPS for nuclear waste forms. Ceramics International, 2018, 44, 20306-20310.	4.8	24
70	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
71	Rapid immobilization of simulated radioactive soil waste by microwave sintering. Journal of Hazardous Materials, 2017, 337, 20-26.	12.4	52
72	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

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73	Rapid synthesis of high densified single phase ceramic Gd2Zr2O7 by spark plasma sintering. Materials Letters, 2017, 196, 403-405.	2.6	31
74	High capacity immobilization of U3O8 in Gd2Zr2O7 ceramics via appropriate occupation designs. Ceramics International, 2017, 43, 3015-3024.	4.8	16
75	Effect of alpha-particles irradiation on the phase evolution and chemical stability of Nd-doped zircon ceramics. Journal of Alloys and Compounds, 2017, 729, 483-491.	5.5	13
76	Vitrification of radioactive contaminated soil by means of microwave energy. AIP Conference Proceedings, 2017, , .	0.4	3
77	Helium ions' irradiation effects on Gd2Zr2O7 ceramics holding complex simulated radionuclides. Journal of Radioanalytical and Nuclear Chemistry, 2017, 314, 2113-2122.	1.5	2
78	Alpha-particle irradiation effects on uranium-bearing Gd 2 Zr 2 O 7 ceramics for nuclear waste forms. Journal of the European Ceramic Society, 2017, 37, 779-785.	5.7	25
79	Solubilization of Pu-239 in Low-level Radioactive Contaminated Soil by the Addition of Microbial Leaching Solution of Acidithiobacillus Ferooxidans. Procedia Environmental Sciences, 2016, 31, 280-287.	1.4	1
80	Design and fabrication of Gd2Zr2O7-based waste forms for U3O8 immobilization in high capacity. Journal of Materials Science, 2016, 51, 5281-5289.	3.7	34
81	Rapid and efficient disposal of radioactive contaminated soil using microwave sintering method. Materials Letters, 2016, 175, 165-168.	2.6	34
82	The Immobilization of Triuranium Octoxide by Gadolinium Zirconate. Nuclear Technology, 2016, 193, 430-433.	1.2	3
83	Nd and Ce simultaneous substitution driven structure modifications in Gd2â^'xNdxZr2â^'yCeyO7. Journal of the European Ceramic Society, 2015, 35, 1847-1853.	5.7	32
84	Phase evolution and chemical durability of co-doped Gd2Zr2O7 ceramics for nuclear waste forms. Ceramics International, 2015, 41, 6344-6349.	4.8	48
85	Structure and performance evolution of the system (Gd1â~'Nd)2(Zr1â~'Ce)2O7 (0 ≤, y≤1.0). Journal of the European Ceramic Society, 2015, 35, 3095-3102.	5.7	46
86	Preparation and heavy-ion irradiation effects of Gd ₂ Ce _x Zr _{2â^'x} O ₇ ceramics. RSC Advances, 2015, 5, 64247-64253.	3.6	18
87	Phase evolution and microstructure studies on Nd3+ and Ce4+ co-doped zircon ceramics. Journal of the European Ceramic Society, 2015, 35, 2153-2161.	5.7	34
88	Phase evolution and chemical durability of Nd-doped zircon ceramics designed to immobilize trivalent actinides. Ceramics International, 2015, 41, 10044-10050.	4.8	34
89	Phase structure and aqueous stability of TRPO waste incorporation into Gd2Zr2O7 pyrochlore. Ceramics International, 2015, 41, 11741-11747.	4.8	46
90	Fabrication and phase transition of Gd2Zr2O7 ceramics immobilized various simulated radionuclides. Journal of Nuclear Materials, 2015, 456, 467-470.	2.7	28

#	Article	IF	CITATIONS
91	Rapid synthesis of single phase Gd2Zr2O7 pyrochlore waste forms by microwave sintering. Ceramics International, 2014, 40, 13191-13194.	4.8	21
92	High capacity immobilization of TRPO waste by Gd 2 Zr 2 O 7 pyrochlore. Materials Letters, 2014, 136, 1-3.	2.6	24
93	Phase and rietveld refinement of pyrochlore Gd2Zr2O7 used for immobilization of Pu (IV). Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 233-236.	1.0	3
94	Investigation of mechanical and thermodynamic properties of La 2 Zr 2 O 7 pyrochlore. International Journal of Energy Research, 0, , .	4.5	1