

Hajime Kinoshita

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

650
citations

686830

13
h-index

610482

24
g-index

48
all docs

48
docs citations

48
times ranked

548
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and properties of binder gels formed in the system $\text{Mg}(\text{OH})_2 \cdot \text{SiO}_2 \cdot \text{H}_2\text{O}$ for immobilisation of Magnox sludge. Dalton Transactions, 2015, 44, 8126-8137.	1.6	102
2	Production and properties of ferrite-rich CSAB cement from metallurgical industry residues. Science of the Total Environment, 2020, 712, 136208.	3.9	43
3	Identification of the hydrate gel phases present in phosphate-modified calcium aluminate binders. Cement and Concrete Research, 2015, 70, 21-28.	4.6	39
4	Characterisation of $\text{Ba}(\text{OH})_2 \cdot \text{Na}_2\text{SO}_4$ blast furnace slag cement-like composites for the immobilisation of sulfate bearing nuclear wastes. Cement and Concrete Research, 2014, 66, 64-74.	4.6	38
5	Blast furnace slag- $\text{Mg}(\text{OH})_2$ cements activated by sodium carbonate. RSC Advances, 2018, 8, 23101-23118.	1.7	38
6	Corrosion of aluminium metal in OPC- and CAC-based cement matrices. Cement and Concrete Research, 2013, 50, 11-18.	4.6	33
7	Ferritic calcium sulfoaluminate belite cement from metallurgical industry residues and phosphogypsum: Clinker production, scale-up, and microstructural characterisation. Cement and Concrete Research, 2022, 154, 106715.	4.6	31
8	Reduction of water content in calcium aluminate cement with/out phosphate modification for alternative cementation technique. Cement and Concrete Research, 2018, 109, 243-253.	4.6	28
9	Gamma irradiation resistance of an early age slag-blended cement matrix for nuclear waste encapsulation. Journal of Materials Research, 2015, 30, 1563-1571.	1.2	26
10	Thermodynamic modelling and phase stability assessment of $\text{MO}_2 \cdot \text{X}$ oxides with a fluorite structure. Journal of Chemical Thermodynamics, 2003, 35, 719-731.	1.0	22
11	Phase relation assessment of the $\text{O} \cdot \text{Pu} \cdot \text{Zr}$ system by thermodynamic modelling. Journal of Alloys and Compounds, 2003, 354, 129-137.	2.8	19
12	Carbonation of composite cements with high mineral admixture content used for radioactive waste encapsulation. Minerals Engineering, 2014, 59, 107-114.	1.8	18
13	Phase Stability of Yttria-Stabilized Zirconia with Dissolved Cerium and Neptunium Oxides Under Oxidizing and Reducing Atmospheres. Journal of the American Ceramic Society, 2000, 83, 391-396.	1.9	16
14	Stability evaluation of fluorite structure phases in $\text{ZrO}_2 \cdot \text{MO}_2$ (M=Th, U, Pu, Ce) systems by thermodynamic modelling. Journal of Alloys and Compounds, 2004, 370, 25-30.	2.8	16
15	Decarbonisation of calcium carbonate at atmospheric temperatures and pressures, with simultaneous CO_2 capture, through production of sodium carbonate. Energy and Environmental Science, 2021, 14, 6595-6604.	15.6	15
16	Gamma irradiation resistance of early age $\text{Ba}(\text{OH})_2 \cdot \text{Na}_2\text{SO}_4$ -slag cementitious grouts. Journal of Nuclear Materials, 2016, 482, 266-277.	1.3	13
17	Phase relation assessment for $\text{O} \cdot \text{Pu} \cdot \text{U}$ ternary system. Journal of Nuclear Materials, 2004, 326, 185-194.	1.3	12
18	Extraction of $\text{Mg}(\text{OH})_2$ from Mg silicate minerals with NaOH assisted with H_2O : implications for CO_2 capture from exhaust flue gas. Faraday Discussions, 2015, 183, 369-387.	1.6	12

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19	Phase Formation and Evolution in Mg(OH) ₂ Zeolite Cements. Industrial & Engineering Chemistry Research, 2018, 57, 2105-2113.	1.8	12
20	Chemical Durability of Yttria-Stabilized Zirconia for Highly Concentrated TRU Wastes. Materials Research Society Symposia Proceedings, 1999, 608, 393.	0.1	11
21	Experimental and thermodynamic assessment of the Ge-Nb-Si ternary phase diagram. Journal of Alloys and Compounds, 2017, 717, 303-316.	2.8	11
22	Pyro processing cement kiln bypass dust: Enhancing clinker phase formation. Construction and Building Materials, 2020, 259, 120420.	3.2	11
23	Producing cement clinker assemblages in the system: CaO-SiO ₂ -Al ₂ O ₃ -SO ₃ -CaCl ₂ -MgO. Cement and Concrete Research, 2021, 144, 106418.	4.6	11
24	Corrosion of Stainless Steel in NaCl-KCl Based Melts. ECS Transactions, 2010, 33, 321-327.	0.3	10
25	Re-evaluation of the phase relationship between plutonium and zirconium dioxides. Progress in Nuclear Energy, 2001, 38, 237-240.	1.3	7
26	Influence of mixing solution on characteristics of calcium aluminate cement modified with sodium polyphosphate. Cement and Concrete Research, 2020, 128, 105951.	4.6	7
27	Stability evaluation of fluorite structure phase in PuO ₂ -UO ₂ -ZrO ₂ system by thermodynamic modelling. Journal of Nuclear Materials, 2004, 334, 90-96.	1.3	6
28	Spectroelectrochemical Study of Stainless Steel Corrosion in NaCl-KCl Melt. ECS Transactions, 2010, 33, 277-285.	0.3	6
29	Solidification and stabilization of strontium and chloride ions in thermally treated calcium aluminate cement modified with or without sodium polyphosphate. Cement and Concrete Research, 2022, 156, 106758.	4.6	6
30	Processing High-Level Liquid Waste by Super-High-Temperature Method, (IV). Journal of Nuclear Science and Technology, 1996, 33, 973-980.	0.7	5
31	Alkaline digestion of dunite for Mg(OH) ₂ production: An investigation for indirect CO ₂ sequestration. Minerals Engineering, 2014, 59, 31-38.	1.8	5
32	Decarbonisation of calcium carbonate in sodium hydroxide solutions under ambient conditions: effect of residence time and mixing rates. Physical Chemistry Chemical Physics, 2022, 24, 16125-16138.	1.3	5
33	Strontium in Phosphate-Modified Calcium Aluminate Cement. Key Engineering Materials, 2019, 803, 341-345.	0.4	3
34	Identification of oxide phase and alloy phase obtained by heat treatment of calcined high level liquid waste with TiN reducing agent at 1873 K. Journal of Nuclear Materials, 1997, 247, 191-196.	1.3	2
35	Molten ceramic solidification during molten state processing of HLW. Materials Research Society Symposia Proceedings, 2006, 932, 1.	0.1	2
36	Mechanical integrity of yttria-stabilised zirconia doped with Np oxide. Materials Research Society Symposia Proceedings, 2006, 932, 1.	0.1	2

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37	High Temperature Behaviour of Polyoxometalates Containing Lanthanides. Materials Research Society Symposia Proceedings, 2008, 1107, 1.	0.1	2
38	Processing High-Level Liquid Waste by Super-High-Temperature Method, (IV). Reducing Reactions and Alloy Formation by Platinum Group Elements, Molybdenum and Corrosion Products Taking Place in Simulated HLLW.. Journal of Nuclear Science and Technology, 1996, 33, 973-980.	0.7	2
39	Melting Simulated High-Level Liquid Waste With Addition of TiN and AlN. Materials Research Society Symposia Proceedings, 1999, 608, 449.	0.1	1
40	The Effect of Fluoride and Iron Content on the Clinkering of Alite-Ye TM elite-Ferrite (AYF) Cement Systems. Frontiers in Built Environment, 2021, 7, .	1.2	1
41	Modification of Calcium Aluminate Cement with Phosphate for Incorporation of Strontium Chloride. Journal of Advanced Concrete Technology, 2021, 19, 1296-1308.	0.8	1
42	Al ₂ O ₃ -Doped TiO ₂ Ceramic Waste Forms Produced by Melting Method. Materials Research Society Symposia Proceedings, 1999, 608, 443.	0.1	0
43	Phase Relation Assessment of the O TM Pu TM Zr System by Thermodynamic Modeling.. ChemInform, 2003, 34, no.	0.1	0
44	Stability Evaluation of Fluorite Structure Phases in ZrO ₂ TM MO ₂ (M: Th, U, Pu, Ce) Systems by Thermodynamic Modeling.. ChemInform, 2004, 35, no.	0.1	0
45	Investigation on the Immobilisation of Carbon in OPC-BFS and OPC-PFA Systems. Materials Research Society Symposia Proceedings, 2008, 1107, 1.	0.1	0
46	Spectroelectrochemical Study of Stainless Steel Corrosion in NaCl-KCl Melt. ECS Meeting Abstracts, 2010, , .	0.0	0
47	Corrosion of Stainless Steel in NaCl-KCl Based Melts. ECS Meeting Abstracts, 2010, , .	0.0	0