

Brant Walkley

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

2,239
citations

279487

23
h-index

288905

40
g-index

43
all docs

43
docs citations

43
times ranked

1480
citing authors

#	ARTICLE	IF	CITATIONS
1	Gel nanostructure in alkali-activated binders based on slag and fly ash, and effects of accelerated carbonation. <i>Cement and Concrete Research</i> , 2013, 53, 127-144.	4.6	593
2	Phase evolution of C-(N)-A-S-H/N-A-S-H gel blends investigated via alkali-activation of synthetic calcium aluminosilicate precursors. <i>Cement and Concrete Research</i> , 2016, 89, 120-135.	4.6	256
3	Reactivity tests for supplementary cementitious materials: RILEM TC 267-TRM phase 1. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	1.3	144
4	Solid-state nuclear magnetic resonance spectroscopy of cements. <i>Materials Today Advances</i> , 2019, 1, 100007.	2.5	110
5	Metakaolin-based geopolymers: Relation between formulation, physicochemical properties and efflorescence formation. <i>Composites Part B: Engineering</i> , 2020, 182, 107671.	5.9	110
6	The role of zinc in metakaolin-based geopolymers. <i>Cement and Concrete Research</i> , 2020, 136, 106194.	4.6	108
7	New Structural Model of Hydrated Sodium Aluminosilicate Gels and the Role of Charge-Balancing Extra-Framework Al. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5673-5685.	1.5	75
8	Phase evolution of $\text{Na}_2\text{O}\cdot\text{Al}_2\text{O}_3\cdot\text{SiO}_2\cdot\text{H}_2\text{O}$ gels in synthetic aluminosilicate binders. <i>Dalton Transactions</i> , 2016, 45, 5521-5535.	1.6	74
9	Structural evolution of synthetic alkali-activated $\text{CaO}\cdot\text{MgO}\cdot\text{Na}_2\text{O}\cdot\text{Al}_2\text{O}_3\cdot\text{SiO}_2$ materials is influenced by Mg content. <i>Cement and Concrete Research</i> , 2017, 99, 155-171.	4.6	73
10	Incorporation of strontium and calcium in geopolymer gels. <i>Journal of Hazardous Materials</i> , 2020, 382, 121015.	6.5	71
11	New selective dissolution process to quantify reaction extent and product stability in metakaolin-based geopolymers. <i>Composites Part B: Engineering</i> , 2019, 176, 107172.	5.9	58
12	Slag and Activator Chemistry Control the Reaction Kinetics of Sodium Metasilicate-Activated Slag Cements. <i>Sustainability</i> , 2018, 10, 4709.	1.6	47
13	Strategies for control and mitigation of efflorescence in metakaolin-based geopolymers. <i>Cement and Concrete Research</i> , 2021, 144, 106431.	4.6	44
14	Degradation resistance of different cementitious materials to phosphoric acid attack at early stage. <i>Cement and Concrete Research</i> , 2022, 151, 106606.	4.6	41
15	Synthesis of stoichiometrically controlled reactive aluminosilicate and calcium-aluminosilicate powders. <i>Powder Technology</i> , 2016, 297, 17-33.	2.1	40
16	Examination of alkali-activated material nanostructure during thermal treatment. <i>Journal of Materials Science</i> , 2018, 53, 9486-9503.	1.7	37
17	Nanostructural evolution of alkali-activated mineral wools. <i>Cement and Concrete Composites</i> , 2020, 106, 103472.	4.6	30
18	Thermal performance of calcium-rich alkali-activated materials: A microstructural and mechanical study. <i>Construction and Building Materials</i> , 2017, 153, 225-237.	3.2	29

#	ARTICLE	IF	CITATIONS
19	Report of RILEM TC 267-TRM phase 2: optimization and testing of the robustness of the R3 reactivity tests for supplementary cementitious materials. Materials and Structures/Materiaux Et Constructions, 2022, 55, 1.	1.3	29
20	Stoichiometrically controlled $\text{Ca}(\text{A})\text{H}/\text{N}\text{H}$ gel blends via alkali-activation of synthetic precursors. Advances in Applied Ceramics, 2015, 114, 372-377.	0.6	28
21	Metakaolin-based geopolymers: Efflorescence and its effect on microstructure and mechanical properties. Ceramics International, 2022, 48, 2212-2229.	2.3	27
22	Exploiting in-situ solid-state NMR spectroscopy to probe the early stages of hydration of calcium aluminate cement. Solid State Nuclear Magnetic Resonance, 2019, 99, 1-6.	1.5	25
23	Influence of activator type on reaction kinetics, setting time, and compressive strength of alkali-activated mineral wools. Journal of Thermal Analysis and Calorimetry, 2021, 144, 1129-1138.	2.0	24
24	Activator Anion Influences the Nanostructure of Alkali-Activated Slag Cements. Journal of Physical Chemistry C, 2021, 125, 20727-20739.	1.5	23
25	Nanostructure of $\text{CaO}(\text{Na}_2\text{O})\text{-Al}_2\text{O}_3\text{-SiO}_2\text{-H}_2\text{O}$ Gels Revealed by Multinuclear Solid-State Magic Angle Spinning and Multiple Quantum Magic Angle Spinning Nuclear Magnetic Resonance Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 1681-1694.	1.5	19
26	Thermodynamic modelling of BFS-PC cements under temperature conditions relevant to the geological disposal of nuclear wastes. Cement and Concrete Research, 2019, 119, 21-35.	4.6	17
27	TGF β 2 Inhibition Stimulates Collagen Maturation to Enhance Bone Repair and Fracture Resistance in a Murine Myeloma Model. Journal of Bone and Mineral Research, 2019, 34, 2311-2326.	3.1	14
28	Thermodynamic properties of sodium aluminosilicate hydrate (NH). Dalton Transactions, 2021, 50, 13968-13984.	1.6	14
29	Capture of aqueous radioiodine species by metallated adsorbents from wastestreams of the nuclear power industry: a review. SN Applied Sciences, 2021, 3, .	1.5	13
30	Synthesis and characterisation of the new oxyfluoride Li^+ ion conductor, $\text{Li}_5\text{SiO}_4\text{F}$. Solid State Ionics, 2018, 327, 64-70.	1.3	12
31	Synthesis of $\text{Ca}_{1-x}\text{Ce}_x\text{ZrTi}_2\text{-2xAl}_2\text{O}_7$ zirconolite ceramics for plutonium disposition. Journal of Nuclear Materials, 2021, 556, 153198.	1.3	8
32	18-month hydration of a low-pH cement for geological disposal of radioactive waste: The Cebama reference cement. Applied Geochemistry, 2020, 116, 104536.	1.4	6
33	Reversible Adsorption of Polycarboxylates on Silica Fume in High pH, High Ionic Strength Environments for Control of Concrete Fluidity. Langmuir, 2022, 38, 1662-1671.	1.6	6
34	Fly ash-based geopolymer chemistry and behavior. , 2017, , 185-214.		5
35	The influence of Fe_2O_3 reagent grade purity on the electrical properties of LaFeO_3 ceramics: A cautionary reminder. Journal of the European Ceramic Society, 2021, 41, 4189-4198.	2.8	5
36	Spectroscopic evaluation of U^{VI} cement mineral interactions: ettringite and hydrotalcite. Journal of Synchrotron Radiation, 2022, 29, 89-102.	1.0	5

#	ARTICLE	IF	CITATIONS
37	Characterizing oxygen atoms in perovskite and pyrochlore oxides using ADF-STEM at a resolution of a few tens of picometers. Acta Materialia, 2021, 208, 116717.	3.8	4
38	Cement-based stabilization/solidification of radioactive waste. , 2022, , 407-431.		4
39	Encapsulation of iodine-loaded metallated silica materials by a geopolymer matrix. MRS Advances, 2022, 7, 105-109.	0.5	4
40	Mimicking Biosintering: The Identification of Highly Condensed Surfaces in Bioinspired Silica Materials. Langmuir, 2021, 37, 561-568.	1.6	3
41	Chemical structure and dissolution behaviour of CaO and ZnO containing alkali-borosilicate glass. Materials Advances, 2022, 3, 1747-1758.	2.6	3
42	Geopolymers. Encyclopedia of Earth Sciences Series, 2018, , 1-2.	0.1	1
43	Geopolymers. Encyclopedia of Earth Sciences Series, 2018, , 406-407.	0.1	0