Jan Elsen

List of Publications by Year
in descending order

83 papers	4,516 citations	117625 34 h-index	110387 64 g-index
86 all docs	86 docs citations	86 times ranked	3699 citing authors

#	Article	IF	Citations
1	Durability performance of binary and ternary blended cementitious systems with calcined clay: a RILEM TC 282-CCL, review. Materials and Structures/Materiaux Et Constructions, 2022, 55, .	3.1	9
2	Evaluating the quantification of the clay mineralogy of the Rupelian Boom Clay in Belgium by a detailed study of size fractions. Applied Clay Science, 2021, 201, 105954.	5.2	12
3	Gypsum efflorescence on clay brick masonry: Analysis of potential efflorescence origins. Journal of Building Physics, 2020, 44, 37-66.	2.4	6
4	Understanding the carbonation of concrete with supplementary cementitious materials: a critical review by RILEM TC 281-CCC. Materials and Structures/Materiaux Et Constructions, 2020, 53, 1.	3.1	123
5	The upper Miocene Deurne Member of the Diest Formation revisited: unexpected results from the study of a large temporary outcrop near Antwerp International Airport, Belgium. Geologica Belgica, 2020, 23, 219-252.	1.1	7
6	A unique recipe for glass beads at Iron Age Sardis. Journal of Archaeological Science, 2019, 108, 104974.	2.4	9
7	Understanding the leaching behavior of inorganic polymers made of iron rich slags. Journal of Cleaner Production, 2019, 238, 117736.	9.3	13
8	Quantitative clay mineralogy as provenance indicator for recent muds in the southern North Sea. Marine Geology, 2018, 398, 48-58.	2.1	20
9	Relating the Cation Exchange Properties of the Boom Clay (Belgium) to Mineralogy and Pore-Water Chemistry. Clays and Clay Minerals, 2018, 66, 449-465.	1.3	19
10	Effect of Calcium Hydroxide and Water to Solid Ratio on Compressive Strength of Mordenite-Based Geopolymer and the Evaluation of its Thermal Transmission Property. , 2018, , .		2
11	RILEM TC-238 SCM recommendation on hydration stoppage by solvent exchange for the study of hydrate assemblages. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	3.1	117
12	Report of TC 238-SCM: hydration stoppage methods for phase assemblage studies of blended cementsâ€"results of a round robin test. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	3.1	132
13	Clay mineralogical constraints on weathering in response to early Eocene hyperthermal events in the Bighorn Basin, Wyoming (Western Interior, USA). Bulletin of the Geological Society of America, 2017, 129, 997-1011.	3.3	14
14	Preparation, characterization and reaction kinetics of green cement: Ecuadorian natural mordenite-based geopolymers. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	3.1	25
15	Halloysite occurrence at the karstified contact of Oligocene sands and Cretaceous calcarenites in Hinnisdael quarries, Vechmaal (NE of Belgium). Geologica Belgica, 2017, 20, 43-52.	1.1	0
16	Pozzolanic reactivity of pure calcined clays. Applied Clay Science, 2016, 132-133, 552-560.	5.2	168
17	Tracing the primary production location of core-formed glass vessels, Mediterranean Group I. Journal of Archaeological Science: Reports, 2016, 5, 1-9.	0.5	13
18	Hydration and strength evolution of air-cured zeolite-rich tuffs and siltstone blended cement pastes at low water-to-binder ratio. Clay Minerals, 2015, 50, 133-152.	0.6	6

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19	Pre-treatment of municipal solid waste incineration (MSWI) bottom ash for utilisation in cement mortar. Construction and Building Materials, 2015, 96, 76-85.	7.2	111
20	Pozzolanic Potential of the Calcined Clay-Lime System. RILEM Bookseries, 2015, , 567-567.	0.4	0
21	Potential of inorganic polymers (geopolymers) made of halloysite and volcanic glass for the immobilisation of tailings from gold extraction in Ecuador. Applied Clay Science, 2015, 109-110, 95-106.	5.2	37
22	Gypsum efflorescence on clay brick masonry: Field survey and literature study. Construction and Building Materials, 2015, 85, 57-64.	7.2	32
23	Multi-scale analysis on the influence of moisture on the mechanical behavior of ferruginous sandstone. Construction and Building Materials, 2014, 54, 78-90.	7.2	109
24	Thermomechanical treatment of two Ecuadorian zeolite-rich tuffs and their potential usage as supplementary cementitious materials. Journal of Thermal Analysis and Calorimetry, 2014, 115, 309-321.	3.6	18
25	Hydration process of zeolite-rich tuffs and siltstone-blended cement pastes at low W/B ratio, under wet curing condition. European Journal of Environmental and Civil Engineering, 2014, 18, 629-651.	2.1	5
26	Zeolite occurrence and genesis in the Late-Cretaceous Cayo arc of Coastal Ecuador: Evidence for zeolite formation in cooling marine pyroclastic flow deposits. Applied Clay Science, 2014, 87, 108-119.	5.2	32
27	Towards zero-waste mineral carbon sequestration via two-way valorization of ironmaking slag. Chemical Engineering Journal, 2014, 249, 260-269.	12.7	44
28	Natural Clay-Sized Glauconite in the Neogene Deposits of the Campine Basin (Belgium). Clays and Clay Minerals, 2014, 62, 35-52.	1.3	15
29	Distinguishing between carbonate and non-carbonate precipitates from the carbonation of calcium-containing organic acid leachates. Hydrometallurgy, 2014, 147-148, 90-94.	4.3	23
30	Surface textural analysis of quartz grains by scanning electron microscopy (SEM): From sample preparation to environmental interpretation. Earth-Science Reviews, 2014, 128, 93-104.	9.1	223
31	Accelerated mineral carbonation of stainless steel slags for CO2 storage and waste valorization: Effect of process parameters on geochemical properties. International Journal of Greenhouse Gas Control, 2013, 17, 32-45.	4.6	167
32	In situ synchrotron X-ray powder diffraction study of the early age hydration of cements blended with zeolitite and quartzite fines and water-reducing agent. Applied Clay Science, 2013, 72, 124-131.	5.2	21
33	Ultrasound-intensified mineral carbonation. Applied Thermal Engineering, 2013, 57, 154-163.	6.0	85
34	Susceptibility of mineral phases of steel slags towards carbonation: mineralogical, morphological and chemical assessment. European Journal of Mineralogy, 2013, 25, 533-549.	1.3	59
35	Lessons from a lost technology: The secrets of Roman concrete. American Mineralogist, 2013, 98, 1917-1918.	1.9	8
36	Supplementary Cementitious Materials for Concrete: Characterization Needs. Materials Research Society Symposia Proceedings, 2012, 1488, 8.	0.1	39

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37	RILEM TC 203-RHM: Repair mortars for historic masonry. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1287-1294.	3.1	47
38	Hydraulicity in Historic Lime Mortars: A Review. RILEM Bookseries, 2012, , 125-139.	0.4	35
39	RILEM TC 203-RHM: Repair mortars for historic masonry. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1295-1302.	3.1	23
40	RILEM TC 203-RHM: Repair mortars for historic masonry. Materials and Structures/Materiaux Et Constructions, 2012, 45, 1277-1285.	3.1	34
41	Supplementary Cementitious Materials. Reviews in Mineralogy and Geochemistry, 2012, 74, 211-278.	4.8	350
42	Long-term clay raw material selection and use in the region of Classical/Hellenistic to Early Byzantine Sagalassos (SW Turkey). Journal of Archaeological Science, 2012, 39, 1296-1305.	2.4	16
43	Stabilization of basic oxygen furnace slag by hot-stage carbonation treatment. Chemical Engineering Journal, 2012, 203, 239-250.	12.7	136
44	6. Supplementary Cementitious Materials. , 2012, , 211-278.		215
45	Phase and morphology evolution of calcium carbonate precipitated by carbonation of hydrated lime. Journal of Materials Science, 2012, 47, 6151-6165.	3.7	207
46	Real-time investigation of reaction rate and mineral phase modifications of lime carbonation. Construction and Building Materials, 2012, 35, 741-751.	7.2	113
47	Stability of pyrochlores in alkaline matrices: Solubility of calcium antimonate. Applied Geochemistry, 2011, 26, 809-817.	3.0	47
48	Raw materials used in ancient mortars from the Cathedral of Notre-Dame in Tournai (Belgium). European Journal of Mineralogy, 2011, 23, 871-882.	1.3	16
49	Study of composition change and agglomeration of flue gas cleaning residue from a fluidized bed waste incinerator. Environmental Technology (United Kingdom), 2011, 32, 1637-1647.	2.2	3
50	Calorimetric evolution of the early pozzolanic reaction of natural zeolites. Journal of Thermal Analysis and Calorimetry, 2010, 101, 97-105.	3.6	44
51	Early age hydration and pozzolanic reaction in natural zeolite blended cements: Reaction kinetics and products by in situ synchrotron X-ray powder diffraction. Cement and Concrete Research, 2010, 40, 1704-1713.	11.0	93
52	The pozzolanic reaction between clinoptilolite and portlandite: a time and spatially resolved IR study. European Journal of Mineralogy, 2010, 22, 767-777.	1.3	7
53	Quantitative composition of ancient mortars from the Notre Dame Cathedral in Tournai (Belgium). Materials Characterization, 2009, 60, 580-585.	4.4	17
54	The zeoliteâ€“lime pozzolanic reaction: Reaction kinetics and products by in situ synchrotron X-ray powder diffraction. Microporous and Mesoporous Materials, 2009, 126, 40-49.	4.4	43

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55	Continuous elimination of Pb2+, Cu2+, Zn2+, H+ and NH4+ from acidic waters by ionic exchange on natural zeolites. Journal of Hazardous Materials, 2009, 166, 619-627.	12.4	63
56	Pozzolanic reactions of common natural zeolites with lime and parameters affecting their reactivity. Cement and Concrete Research, 2009, 39, 233-240.	11.0	171
57	Hardening of mortars made from cement, rice husk ash and lime. Proceedings of Institution of Civil Engineers: Construction Materials, 2009, 162, 19-27.	1.1	4
58	Rilem TC 203-RHM: Repair mortars for historic masonry. Testing of hardened mortars, a process of questioning and interpreting. Materials and Structures/Materiaux Et Constructions, 2009, 42, 853-865.	3.1	47
59	The Rietveld structure refinement of an exceptionally pure sample of clinoptilolite from Ecuador and its Na-, K-, and Ca-exchanged forms. Zeitschrift FÃ¼r Kristallographie, Supplement, 2009, 2009, 395-400.	0.5	1
60	Assessment of Pb-slag, MSWI bottom ash and boiler and fly ash for using as a fine aggregate in cement mortar. Journal of Hazardous Materials, 2008, 154, 766-777.	12.4	125
61	Borate Distribution in Stabilized Stainless-Steel Slag. Journal of the American Ceramic Society, 2008, 91, 548-554.	3.8	44
62	Zeolite mineralogy of the Cayo formation in Guayaquil, Ecuador. Applied Clay Science, 2008, 42, 180-188.	5.2	25
63	Mineralogy, Geochemistry, and Diagenesis of Clinoptilolite Tuffs (Miocene) in the Central Simav Graben, Western Turkey. Clays and Clay Minerals, 2008, 56, 622-632.	1.3	14
64	Quantitative mineralogical analysis of hydraulic limes by X-ray diffraction. Cement and Concrete Research, 2007, 37, 1524-1530.	11.0	22
65	Slag Solidification Modeling Using the Scheil?Gulliver Assumptions. Journal of the American Ceramic Society, 2007, 90, 1177-1185.	3.8	39
66	Microscopy of historic mortarsâ€"a review. Cement and Concrete Research, 2006, 36, 1416-1424.	11.0	260
67	Use of computer assisted image analysis for the determination of the grain-size distribution of sands used in mortars. Cement and Concrete Research, 2006, 36, 1453-1459.	11.0	41
68	Hardening of Calcium Hydroxide and Calcium Silicate Binders Due to Carbonation and Hydration. , 2006, , 589-599.		5
69	MinÃ©ralogie des silicates de calcium prÃ©sents dans des mortiers anciens Ã Tournai. ArcheoSciences, 2006, , 61-65.	0.1	6
70	Microscopical study of ancient mortars from Tournai (Belgium). Materials Characterization, 2004, 53, 289-294.	4.4	54
71	Study of ancient mortars from Sagalassos (Turkey) in view of their conservation. Cement and Concrete Research, 2002, 32, 1457-1463.	11.0	99
72	Characterisation of pore structure by combining mercury porosimetry and micrography. Materials and Structures/Materiaux Et Constructions, 2001, 34, 76-82.	3.1	51

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73	Nineteenth century hydraulic restoration mortars in the Saint Michael's Church (Leuven, Belgium). Cement and Concrete Research, 2001, 31, 397-403.	11.0	156
74	Automated air void analysis on hardened concrete. Cement and Concrete Research, 2001, 31, 1027-1031.	11.0	21
75	Reference Materials for Adequate Porosity Measurements. Key Engineering Materials, 2001, 206-213, 681-684.	0.4	0
76	Simulieren der kapillaren Wasseraufnahme von porÃ¶sen Werkstoffen des Bauwesens / Modelling of the Capillary Water Absorption of Porous Building Materials. Restoration of Buildings and Monuments, 2000, 6, 293-306.	0.6	0
77	Microscopic analysis of imbibition processes in oolitic limestone. Geophysical Research Letters, 2000, 27, 3533-3536.	4.0	16
78	Viaeneite, (Fe,Pb)4S8O, a new mineral with mixed sulphur valencies from Engis, Belgium. European Journal of Mineralogy, 1996, 8, 93-102.	1.3	7
79	Determination of the wc ratio of hardened cement paste and concrete samples on thin sections using automated image analysis techniques. Cement and Concrete Research, 1995, 25, 827-834.	11.0	27
80	Quality assurance and quality control of air entrained concrete. Cement and Concrete Research, 1994, 24, 1267-1276.	11.0	15
81	Influence of temperature on the cation distribution in calcium mordenite. The Journal of Physical Chemistry, 1987, 91, 5800-5805.	2.9	21
82	Portland Cement and other Calcareous Hydraulic Binders. , 0, , 441-479.		3
83	Terrestrial sedimentary archives of episodes of greenhouse warming in ancient river floodplain deposits of the Bighorn Basin, Wyoming. Rendiconti Online Societa Geologica Italiana, 0, 31, 3-4.	0.3	0