Supplementary Materials

Table S1. Record-level evidence registry (n = 124)

This table identifies the 124 unique records retained after second-round record-level eligibility adjudication. Evidence directness is assigned conservatively: Level A is reserved for studies explicitly identifiable as WWCB/wood-wool (including excelsior/fibrolite terminology), Level B denotes other lignocellulosic cement composites, and Level C denotes wood-free cementitious systems. The labels indicate transferability to the WWCB question and are not methodological-quality scores. Search-set membership alone is not treated as evidence that $CaCl_2$ or $Ca(HCOO)_2$ was an experimental variable. "Report-level status" records the information basis available during the revised evidence audit and should not be interpreted as a claim that full texts were systematically retrieved for all records. Table S1 is a record-level evidence registry rather than a complete study-level extraction matrix; formulation, dosage, curing, test-method, and outcome details are reported in the main manuscript only where they were established from the cited source. During the final evidence audit, two duplicate database records referring to the same publications (R1642/R0499 and R1601/R0235) were consolidated, and one clearly secondary state-of-the-art assessment (R1624) was removed from the primary evidence set. Conference-source records were not excluded solely because of venue; they remain only where the record describes study-specific work. The original full report was subsequently checked for R0697: calcium formate is one of three simultaneously applied additives. Title-explicit salt counts and evidence-directness counts are not counts of verified single-salt experiments. Publisher abstracts confirm experimental $CaCl_2$ in R0218, R0241 and R0433; R0697 contains formate only as one component of a mixed treatment. R0697 is classified as Level B because its main comparison is framed as a wood-fibre cement matrix, with cube compression specimens, although the original report also uses the term wood wool and reports flexural board specimens. This boundary classification does not imply a judgment of methodological quality. The corrected literal title audit identifies 16 $CaCl_2$ titles and 33 calcium-formate titles, with one overlap (R0888): 48 unique titles explicitly name a salt and 76 name neither. Subsequent targeted checks establish a lower bound of $CaCl_2$ experiments at Level A n=1, Level B n=6 and Level C n=2; isolated calcium-formate experiments at Level C n=3; and one Level B mixed treatment containing formate without an isolated arm. R0888 is counted for both salts in Level C. Across the registry, 12 distinct records have source-verified target-salt status, 43 further records explicitly name a target salt in the title but lack study-level source verification, and 69 records have neither title-explicit nor source-verified target-salt status. Separately, 76 titles do not explicitly name either target salt; seven of those records acquired source-verified salt status through the targeted source check. The counts are lower bounds and are not an exhaustive source-level census. Seven further records were removed during the second-round eligibility audit; they are excluded from the 124-record registry. No contemporaneous record-level exclusion log was retained; the seven IDs and metadata-based retrospective eligibility assessments are provided below.

ID	Authors (year)	Title	Source	DOI	Search set(s)	Evidence directness	Selection/evidence basis	Evidence-purpose audit category
R0065	Islam, Md. Shafiqul; Das, Atanu Kumar; Ahmed, Md. Kabir et al. (2013)	Effects of CaCl2 and NaHCO3 on the physical and mechanical properties of dhaincha (Sesbania aculeata) cement-bonded particleboard	Journal of the Indian Academy of Wood Science	10.1007/s13196-013-0097-4	S1; S2; S4	B	$CaCl_2$ tested alone and with sodium hydrogen carbonate against untreated boards; original journal abstract verified (Level B).	$CaCl_2$ experimental variable verified from publisher abstract; Level B
R0626	Castro, Vinicius; Araujo, Roberto Daniel; Parchen, Carlos et al. (2014)	Evaluation of pretreatment effects of eucalyptus benthamii maiden & cambage wood on the compatibility degree with portland cement; [Avaliação dos efeitos de pré-tratamentos da madeira de eucalyptus benthamii maiden & cambage no grau de compatibilidade com cimento portland1]	Revista Arvore	10.1590/s0100-67622014000500018	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0303	Bufalino, Lina; de Souza, Tiago Marcolino; Lima, Nerci Nina et al. (2023)	Contrasting the major characteristics of pinewood and Amazon hardwoods to provide high-quality cement-bonded particleboards	Construction and Building Materials	10.1016/j.conbuildmat.2023.132219	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0621	Yel, Husnu (2022)	Effect of alkaline pre-treatment and chemical additives on the performance of wood cement panels manufactured from sunflower stems	Journal of Building Engineering	10.1016/j.jobe.2022.104465	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R1634	Tas, Hasan Huseyin; Arslan, Bilge; Kalaycioglu, Hulya (2021)	EFFECTS OF POLYMER ADDITIVES ON SOME MECHANICAL AND PHYSICAL PROPERTIES OF CEMENT BONDED PARTICLEBOARDS	WOOD RESEARCH	10.37763/wr.1336-4561/66.3.331340	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title

ID	Authors (year)	Title	Source	DOI	Search set(s)	Evidence directness	Selection/evidence basis	Evidence-purpose audit category
R0457	Yel, Husnu; Cavdar, Ayfer Donmez; Torun, Sevda Boran (2020)	Effect of press temperature on some properties of cement bonded particleboard	Maderas: Ciencia y Tecnologia	10.4067/s0718-221x2020005000108	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0194	Vyacheslav Z.A.; Victor S.A.; Sergey K.A. et al. (2019)	The influence of chemical additives on strength of wood-cement composite	Materials Science Forum	10.4028/www.scientific.net/msf.972.69	S1; S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0131	Sanaev V.G.; Zaprudnov V.I.; Gorbacheva G.A. et al. (2016)	Factors affecting the quality of wood-cement composites	Bulletin of the Transilvania University of Brasov, Series II: Forestry, Wood Industry, Agricultural Food Engineering		S1; S2	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0671	Wang, Lei; Chen, Season S.; Tsang, Daniel C. W. et al. (2016)	Value-added recycling of construction waste wood into noise and thermal insulating cement-bonded particleboards	Construction and Building Materials	10.1016/j.conbuildmat.2016.08.053	S2; S4	B	Publisher institution abstract reports 2% $CaCl_2$ used to improve wood–cement compatibility in particleboards (Level B).	$CaCl_2$ experimental variable verified from institutional article abstract; Level B
R0217	de Castro V.G.; Braz R.L.; Azambuja R.R. et al. (2015)	Wood-cement boards of Eucalyptus saligna with different chemical additives and methods of formation; [Painéis cimento-madeira de Eucalyptus saligna com diferentes aditivos químicos e métodos de formação]	Floresta	10.5380/rf.v45i2.35765	S1; S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0551	Moghadam, Sedigheh Kamali; Shamsian, Mohammad; Tabaghdehi, Fatemeh Moeel et al. (2014)	Investigation on physical and mechanical properties of wood-cement block manufactured from agriculture residues and Haloxylon species	Journal of the Indian Academy of Wood Science	10.1007/s13196-014-0129-8	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0508	Fabiyi J.S. (2013)	Suitability of Portland cement and rice husk ash pozzolan systems for cement bonded composites production	Journal of Materials and Environmental Science		S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0241	Ashori, Alireza; Tabarsa, Taghi; Sepahvand, Sima (2012)	Cement-bonded composite boards made from poplar strands	Construction and Building Materials	10.1016/j.conbuildmat.2011.06.001	S1; S2	B	Publisher abstract identifies calcium chloride content as an experimental design variable in poplar-strand cement boards; dosage/control structure requires full-text check.	$CaCl_2$ experimental variable verified from publisher abstract; Level B
R0159	Fan, Mizi; Ndikontar, Maurice Kor; Zhou, Xiangming et al. (2012)	Cement-bonded composites made from tropical woods: Compatibility of wood and cement	Construction and Building Materials	10.1016/j.conbuildmat.2012.04.089	S1; S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title

ID	Authors (year)	Title	Source	DOI	Search set(s)	Evidence directness	Selection/evidence basis	Evidence-purpose audit category
R0662	Pereira, C.; Caldeira, F.; Ferreira, Jose M. F. et al. (2012)	Characterization of cement-bonded particleboards manufactured with maritime pine, blue gum and cork grown in Portugal	European Journal of Wood and Wood Products	10.1007/s00107-011-0532-4	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0425	Sotannde, Olufemi A.; Oluwadare, Abiodun O.; Ogedoh, Omaojor et al. (2012)	Evaluation of cement-bonded particle board produced from Afzelia africana wood residues	Journal of Engineering Science and Technology		S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0024	Cheumani, Y. A. M.; Ndikontar, M.; De Jeso, B. et al. (2011)	Probing of wood-cement interactions during hydration of wood-cement composites by proton low-field NMR relaxometry	Journal of Materials Science	10.1007/s10853-010-4888-3	S1; S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0596	Mendes, Lourival Marin; Pomarico Loschi, Fernanda Alvarenga; de Ramos e Paula, Luana Elis et al. (2011)	Utilization potential of wood clones of Eucalyptus urophylla in the production of wood-cement panels; [Potencial de utilização da madeira de clones de Eucalyptus urophylla na produção de painéis cimento-madeira]	Cerne	10.1590/s0104-77602011000100008	S2	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0218	Ashori, Alireza; Tabarsa, Taghi; Azizi, Khadijeh et al. (2011)	Wood-wool cement board using mixture of eucalypt and poplar	Industrial Crops and Products	10.1016/j.indcrop.2011.03.033	S1; S2; S4	A	Publisher abstract identifies calcium chloride as an experimental design variable in WWCB; dosage/control structure requires full-text check.	$CaCl_2$ experimental variable verified from publisher abstract; Level A
R0235	De Lima A.J.M.; Iwakiri S. (2010)	Use of wood residues deriving from the production of sawnwood of Pinus spp, silica fume and rice husk ash in wood cement composites; [Utilização de resíduos do desdobro de toras de Pinus spp, sílica ativa e cinza de casca de arroz em compósito cimento-madeira]	Scientia Forestalis/Forest Sciences		S1; S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0237	Okino E.Y.A.; De Souza M.R.; Santana M.A.E. et al. (2004)	Cement-bonded wood particleboard with a mixture of eucalypt and rubberwood	Cement and Concrete Composites	10.1016/s0958-9465(03)00061-1	S1; S2	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0348	Olorunnisola A.O.; Adefisan O.O. (2002)	Trial production and testing of cement-bonded particleboard from rattan furniture waste	Wood and Fiber Science		S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0226	Wei Y.M.; Zhou Y.G.; Tomita B. (2000)	Study of hydration behavior of wood cement-based composite II: Effect of chemical additives on the hydration characteristics and strengths of wood-cement composites	Journal of Wood Science	10.1007/bf00765802	S1; S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title

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R0056	Lee Andy W.C.; Short Paul H. (1989)	Pretreating hardwood for cement-bonded excelsior board	Forest Products Journal		S1; S2	A	Direct WWCB evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0362	Lee Andy W.C.; Hong Zhongli (1986)	COMPRESSIVE STRENGTH OF CYLINDRICAL SAMPLES AS AN INDICATOR OF WOOD-CEMENT COMPATIBILITY.	Forest Products Journal		S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0216	Miranda de Lima, Adauto Jose; Iwakiri, Setsuo (2019)	Analysis of the alkalinity reduction of the wood-cement composites in the function of the partial replacement of the Portland cement by pozzolans; [Análise da redução da alcalinidade de compósitos cimento-madeira em função da substituição parcial do cimento Portland por pozolanas]	MATERIA-RIO DE JANEIRO	10.1590/s1517-707620190004.0839	S1; S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0075	de Castro, Vinicius Gomes; Azambuja, Rafael da Rosa; Alice Parchen, Carlos Frederico et al. (2019)	Influence of chemical additives in the production of wood-cement composites of two tropical species from Amazonia; [Influência de aditivos químicos na produção de compósitos madeira-cimento de duas espécies tropicais da Amazônia]	Ciencia Florestal	10.5902/1980509819497	S1; S2; S4	B	Original journal abstract identifies $CaCl_2$, $MgCl_2$ and hydrated lime as tested additives in wood–cement composites (Level B).	$CaCl_2$ experimental variable verified from original journal abstract; Level B
R0485	Iwakiri S.; Trianoski R.; Weber A.M. et al. (2017)	Effects of particles treatments and cement accelerator admixture in the wood cement panel production; [Efeitos do tratamento de partículas e aceleradores de endurecimento na produção de painéis cimento-madeira de hevea brasiliensis]	Floresta	10.5380/rf.v47i1.51636	S2	B	Original journal article identifies $CaCl_2$ and sodium silicate as hardening agents for wood–cement panels (Level B).	$CaCl_2$ experimental variable verified from original journal report; Level B
R0433	Matoski, Adalberto; Hara, Massayuki Mario; Iwakiri, Setsuo et al. (2013)	Influence of accelerating admixtures in wood-cement panels: Characteristics and properties; [Uso de aditivos aceleradores em painéis de cimento-madeira: Características e propriedades]	Acta Scientiarum - Technology	10.4025/actascitechnol.v35i4.11261	S2	B	Original journal abstract identifies calcium chloride, magnesium chloride, aluminium sulfate and sodium silicate as separate admixtures; calcium formate was not investigated.	$CaCl_2$ experimental variable verified from original journal abstract; Level B
R0022	Nasser R.A.; Al-Mefarrej H.A. (2010)	Evaluation of using midribs of date palm fronds as a raw material for wood-cement composite panels industry in Saudi Arabia	Acta Horticulturae	10.17660/actahortic.2010.882.124	S1; S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0633	Olorunnisola, Abel O. (2008)	Effects of pre-treatment of rattan (Laccosperma secundiflorum) on the hydration of Portland cement and the development of a new compatibility. index	Cement and Concrete Composites	10.1016/j.cemconcomp.2007.08.002	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0092	Chang, Feng-Cheng; Lam, Frank (2008)	Suitability of fibers from mountain pine beetle attacked wood in wood-cement composite materials	Forest Products Journal		S1; S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title

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R0123	Pereira, Catarina; Jorge, Fernando Caldeira; Irle, Mark et al. (2006)	Characterizing the setting of cement when mixed with cork, blue gum, or maritime pine, grown in Portugal - I: temperature profiles and compatibility indices	Journal of Wood Science	10.1007/s10086-005-0774-z	S1; S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0108	Sauvat N.; Sell R.; Mougel E. et al. (1999)	A study of ordinary portland cement hydration with wood by isothermal calorimetry	Holzforschung	10.1515/hf.1999.016	S1; S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0501	Tas, Hasan Huseyin (2021)	Fiberglass plaster mesh as reinforcement for cement bonded particleboard; [Učinci ojačanja cementom vezane iverice primjenom fasadne mrežice od stakloplastike]	Drvna Industrija	10.5552/drvind.2021.2027	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0497	Mendes R.F.; Vilela A.P.; Farrapo C.L. et al. (2017)	Lignocellulosic residues in cement-bonded panels	Sustainable and Nonconventional Construction Materials using Inorganic Bonded Fiber Composites	10.1016/b978-0-08-102001-2.00001-2	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0674	Nasser, Ramadan A.; Salem, Mohamed Z. M.; Al-Mefarrej, Hamad A. et al. (2016)	Use of tree pruning wastes for manufacturing of wood reinforced cement composites	Cement and Concrete Composites	10.1016/j.cemconcomp.2016.06.008	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R1652	Munoz, H. J.; Ferreyra, J.; Aguirre, D. D. et al. (2015)	Influence of CaCl2•2H2O content on the productive process of composites from cotton gin waste	INTERNATIONAL CONGRESS OF SCIENCE AND TECHNOLOGY OF METALLURGY AND MATERIALS, SAM - CONAMET 2014	10.1016/j.mspro.2015.04.015	S2	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R0586	de Sa, Vania Aparecida; Bufalino, Lina; Albino, Vanessa C. S. et al. (2012)	Mixture of three reforestation species on the cement-wood panels production; [Mistura de três espécies de reflorestamento na produção de Painéis cimento-madeira]	Revista Arvore	10.1590/s0100-67622012000300017	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0320	Ferraz J.M.; del Menezzi C.H.S.; Teixeira D.E. et al. (2011)	Effects of treatment of coir fiber and cement/fiber ratio on properties of cement-bonded composites	BioResources		S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0394	de Araujo, Priscila C.; Arruda, Larissa M.; Del Menezzi, Claudio H. S. et al. (2011)	Lignocellulosic composites from Brazilian giant bamboo (Guadua magna). Part 2: Properties of cement and gypsum bonded particleboards	Maderas: Ciencia y Tecnologia	10.4067/s0718-221x2011000300005	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title

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R0654	Beraldo, Antonio L.; Balzamo, Humberto (2009)	Non-structural composites of sawdust from argentina wood species and comercial cements; [Compuestos no-estructurales de cementos comercialesy aserrín de maderas argentinas]	Maderas: Ciencia y Tecnologia	10.4067/s0718-221x2009000300006	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0499	Rocha Almeida R.; Henrique Soares Del Menezzi C.; Eterno Teixeira D. (2002)	Utilization of the coconut shell of babaçu (Orbignya sp.) to produce cement-bonded particleboard	Bioresource Technology	10.1016/s0960-8524(02)00082-2	S2; S4	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R0233	Yel, Husnu; Aras, Ugur (2026)	Effects of waste polyethylene terephthalate bottle particles on cement-bonded wood boards	Journal of Sustainable Cement-Based Materials	10.1080/21650373.2026.2676090	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0215	Arpaci, Emrecan; Arpaci, Sebnem S.; Guntekin, Ergun (2026)	Microstructural Evolution and Physico-Mechanical Response of Cement-Bonded Fiberboards: A Comparative Study on Cement Type and Fiber Ratio	Processes	10.3390/pr14060963	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0169	Verma, Akshat; Dewar, Darien A.; Shafer, Davis Q. et al. (2026)	Surface modified wood wool for improved adhesion in wood-cement composites	Construction and Building Materials	10.1016/j.conbuildmat.2026.147345	S1	A	Direct WWCB evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0149	Ponga, Donato Tale; Robert, Mathieu; Foruzanmehr, M. Reza (2026)	The influence of hydrothermal pre-treatment of hemp hurds on the compatibility and performance of cement-bonded boards with GU, white, and CSA cements	Journal of Building Engineering	10.1016/j.jobe.2025.114766	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0195	Yel, Husnu; Aras, Ugur; Kalaycioglu, Huelya et al. (2025)	CEMENT-BONDED WOOD PANELS FILLED WITH DUROPLAST SANITARY WARE WASTES	Maderas: Ciencia y Tecnologia	10.22320/s0718221x/2025.04	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0012	Schild, Anna; Cool, Julie (2025)	Hydration tests of four wood composites particles with cement	Wood Science and Technology	10.1007/s00226-025-01648-4	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata

ID	Authors (year)	Title	Source	DOI	Search set(s)	Evidence directness	Selection/evidence basis	Evidence-purpose audit category
R0005	Melichar, Tomas; Dufka, Amos; Dvorak, Karel et al. (2024)	Durability of Wood–Cement Composites with Modified Composition by Limestone and Stabilised Spruce Chips	Materials	10.3390/ma17246300	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0206	Melichar, Tomas; Bydzovsky, Jiri; Meszarosova, Lenka et al. (2024)	SPRUCE CHIPS STABILIZATION IN WOOD-CEMENT MATERIALS: EFFECT OF MATRIX COMPOSITION	Maderas: Ciencia y Tecnologia	10.22320/s0718221x/2024.27	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0026	El Hamri, Anas; Mouhib, Yassine; Ourmiche, Atmane et al. (2024)	Study of the Effect of Cedar Sawdust Content on Physical and Mechanical Properties of Cement Boards	Molecules	10.3390/molecules29184399	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0222	Narciso, Carolina Rezende Pinto; Nogueira, Nayra Diniz; Mendes, Juliana Farinassi et al. (2023)	Development of iron ore tailings based wood-cement composite panels	Environmental science and pollution research international	10.1007/s11356-023-30602-9	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0184	Engone, Jean Gerard Ndong; El Moumen, Ahmed; Djelal, Chafika et al. (2022)	Evaluation of Effective Elastic Properties for Wood–Cement Composites: Experimental and Computational Investigations	Sustainability (Switzerland)	10.3390/su14148638	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0201	Liu, Ziqiang; Han, Chunpeng; Li, Qiushi et al. (2022)	Study on wood chips modification and its application in wood-cement composites	Case Studies in Construction Materials	10.1016/j.cscm.2022.e01350	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0032	Brahmia, Fatima Zohra; Zsolt, Kovacs; Horvath, Peter Gyoergy et al. (2020)	Comparative study on fire retardancy of various wood species treated with PEG 400, phosphorus, and boron compounds for use in cement-bonded wood-based products	Surfaces and Interfaces	10.1016/j.surfin.2020.100736	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0069	Kochova, K.; Caprai, V; Gauvin, F. et al. (2020)	Investigation of local degradation in wood stands and its effect on cement wood composites	Construction and Building Materials	10.1016/j.conbuildmat.2019.117201	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata

ID	Authors (year)	Title	Source	DOI	Search set(s)	Evidence directness	Selection/evidence basis	Evidence-purpose audit category
R1622	Baracho, Jr., Expedito; Marangon, Luis Carlos; Rolin, Mario et al. (2020)	Use of lignocellulosic waste in the manufacture of wood-cement composites for non-structural construction purposes	REVISTA CUBANA DE CIENCIAS FORESTALES		S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0210	Kochova, K.; Gauvin, F.; Schollbach, K. et al. (2020)	Using alternative waste coir fibres as a reinforcement in cement-fibre composites	Construction and Building Materials	10.1016/j.conbuildmat.2019.117121	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0140	de Castro, Vinicius Gomes; Azambuja, Rafael da Rosa; Alice Parchen, Carlos Frederico et al. (2019)	Alternative vibro-dynamic compression processing of wood-cement composites using amazonian wood; [Método alternativo de compactação vibro-dinâmica na produção de compósitos madeira-cimento com uso de madeiras amazônicas]	Acta Amazonica	10.1590/1809-4392201800192	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0091	de Castro, Vinicius Gomes; Alice Parchen, Carlos Frederico; Iwakiri, Setsuo (2019)	Production of low density wood-cement composites by vibro-dynamic compaction method; [Produção de compósitos madeira-cimento de baixa densidade pelo método vibro-dinâmico de compactação]	MATERIA-RIO DE JANEIRO	10.1590/s1517-707620190002.0666	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R1623	Cechin, Luana; Matoski, Adalberto; Miranda de Lima, Adauto Jose et al. (2018)	Effect of adding blast furnace slag to composites with mosso bamboo	MATERIA-RIO DE JANEIRO	10.1590/s1517-707620180004.0574	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0001	Caprai, V.; Gauvin, F.; Schollbach, K. et al. (2018)	Influence of the spruce strands hygroscopic behaviour on the performances of wood-cement composites	Construction and Building Materials	10.1016/j.conbuildmat.2018.01.162	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0129	Boadu, Kwadwo Boakye; Antwi-Boasiako, Charles; Ofosuhene, Linda (2018)	Solvent extraction of inhibitory substances from three hardwoods of different densities and their compatibility with cement in composite production	Journal of the Indian Academy of Wood Science	10.1007/s13196-018-0219-0	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0002	Antwi-Boasiako, Charles; Ofosuhene, Linda; Boadu, Kwadwo B. (2018)	Suitability of sawdust from three tropical timbers for wood-cement composites	Journal of Sustainable Forestry	10.1080/10549811.2018.1427112	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata

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R0213	de la Gree, G. C. H. Doudart; Yu, Q. L.; Brouwers, H. J. H. (2018)	Upgrading and evaluation of waste paper sludge ash in eco-lightweight cement composites	Journal of Materials in Civil Engineering	10.1061/(asce)mt.1943-5533.0002186	S1	A	Publisher abstract identifies a wood-wool cement board application; Level A application directness. No target-salt experimental arm established.	Contextual evidence; target-salt experimental status not established from registry metadata
R0039	Malaszkiewicz, Dorota; Sztukowska, Magdalena (2018)	Utilization of wastes from medium density fiberboards production as an aggregate for lightweight cement composite	3RD SCIENTIFIC CONFERENCE ENVIRONMENTAL CHALLENGES IN CIVIL ENGINEERING (ECCE 2018)	10.1051/matecconf/201817402005	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0109	Bezerra H.J.C.L.; Pereira S.J.; Miranda Júnior E.J.P. et al. (2017)	Influence of particle size and soak conditions of the species Simarouba amara on cement-wood composites	Materials Science Forum	10.4028/www.scientific.net/msf.881.265	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0104	Bejo L.; Major B.; Csoka L. et al. (2016)	Improving the connection between wood and cement using LBL nanocoating to create a lightweight, eco-friendly structural material	IOP Conference Series: Materials Science and Engineering	10.1088/1757-899x/123/1/012054	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R1615	Diquelou, Youen; Courlay, Etienne; Arnaud, Laurent et al. (2016)	Influence of binder characteristics on the setting and hardening of hemp lightweight concrete	CONSTRUCTION AND BUILDING MATERIALS	10.1016/j.conbuildmat.2016.02.138	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0087	Quiroga, A.; Marzocchi, V.; Rintoul, I. (2016)	Influence of wood treatments on mechanical properties of wood-cement composites and of Populus Euroamericana wood fibers	Composites Part B: Engineering	10.1016/j.compositesb.2015.08.069	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R1607	Safin, Ruslan R.; Galyavetdinov, R.; Nazipova, Farida V. et al. (2016)	ULTRASONIC TREATMENT OF VEGETABLE RAW MATERIALS IN ALKALINE MEDIUM IN THE PRODUCTION OF COMPOSITE MATERIALS BASED ON MINERAL BINDER	NANO, BIO AND GREEN - TECHNOLOGIES FOR A SUSTAINABLE FUTURE CONFERENCE PROCEEDINGS, SGEM 2016, VOL II		S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0200	Castro, Vinicius; Iwakiri, Setsuo (2014)	Influence of different degrees of acetylation in the physical and mechanical properties of particleboards and woodcement composites; [Influência de diferentes níveis de acetilação nas propriedades físico-mecânicas de aglomerados e painéis madeira-cimento]	Cerne	10.1590/01047760201420041673	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata

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R1626	Frybort, Stephan; Mauritz, Raimund; Teischinger, Alfred et al. (2012)	INVESTIGATION OF THE MECHANICAL INTERACTIONS AT THE INTERFACE OF WOOD-CEMENT COMPOSITES BY MEANS OF ELECTRONIC SPECKLE PATTERN INTERFEROMETRY	BIORESOURCES		S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R1628	Silva Moreira, Ana Betania; Macedo, Alcebiades Negrao; Lima Souza, Paulo Sergio (2012)	Masonry concrete block strength compound with sawdust according to residue treatment	ACTA SCIENTIARUM-TECHNOLOGY	10.4025/actascitechnol.v34i3.14372	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0232	Macedo, A. N.; de Lima, A. M.; Fonseca, F. de O. et al. (2011)	Statistical analysis of the mechanical behavior under compression of cement-wood composite; [Análise estatística do comportamento mecânico à compressão do compósito cimento-madeira]	MATERIA-RIO DE JANEIRO	10.1590/s1517-70762011000200002	S1	B	Near-direct lignocellulosic cement-composite evidence. Eligible from title/abstract metadata; full report not available in supplied files	Contextual evidence; target-salt experimental status not established from registry metadata
R0697	Mahzabin, Mst. Sadia; Hamid, R.; Badaruzzaman, W. H. W. (2013)	Evaluation of chemicals incorporated wood fibre cement matrix properties	Journal of Engineering Science and Technology		S3	B	Source verified from original 2013 report: calcium formate, magnesium chloride and sodium silicate combined at 3% total chemical dosage by cement mass (equal amounts of three chemicals); treated versus untreated wood-fibre/cement matrices; density, water absorption, compressive and flexural strength measured. Salt-specific effect not identifiable. The original report also refers to wood wool and board specimens; the Level B boundary decision is explained in the table note.	Verified formate-containing mixed treatment; no isolated calcium-formate arm; contextual Level B evidence for target-salt comparison
R0888	Oinam, Yanchen; Dahal, Mandip; Mesfin, Minwuye et al. (2024)	On improved microstructure properties of slag-based UHPC incorporating calcium formate and calcium chloride	Journal of Building Engineering	10.1016/j.jobe.2024.109551	S4; S5	C	Original publisher abstract identifies calcium chloride and calcium formate as investigated accelerators in wood-free slag-based UHPC (Level C).	Both target salts experimentally investigated; wood-free Level C evidence
R1520	Shi, Wei; Tang, Zhongping; Jin, Yiming et al. (2026)	Enhancing the Strength and Durability of Cement Mortar: Synergetic Effects of Shell Powder, Calcium Formate and Basalt Fibers	Buildings	10.3390/buildings16010098	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1549	Ben, Xunqin; Jiang, Linhua; Guo, Ming-Zhi et al. (2022)	Chloride erosion resistance of calcium formate incorporated cement mortar under chloride attack	Construction and Building Materials	10.1016/j.conbuildmat.2021.125611	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1487	Song, Qingnan; Wang, Qing; Li, Zhe et al. (2022)	Study on corrosion resistance of hydrophobic early strength mortar containing calcium formate	Construction and Building Materials	10.1016/j.conbuildmat.2022.129367	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate

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R1769	Noor-ul-Amin; Alam, Sultan; Gul, Saeed et al. (2013)	Chemical activation of clay in cement mortar, using calcium chloride	ADVANCES IN CEMENT RESEARCH	10.1680/adcr.11.00071	S4	C	Targeted CaCl2 hydration/phase-chemistry mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R1562	Heikal M. (2004)	Effect of calcium formate as an accelerator on the physicochemical and mechanical properties of pozzolanic cement pastes	Cement and Concrete Research	10.1016/j.cemconres.2003.11.015	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R0944	Chen, Qianyu; Gao, Huaguo; Shi, Xinxin et al. (2026)	Research on the Development, Mechanical Properties, and Durability of Nano-SiO2-Basalt Fiber-CaCl2 Recycled Concrete	Journal of Materials Engineering and Performance	10.1007/s11665-026-14422-9	S4	C	Targeted CaCl2 hydration/phase-chemistry mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R1834	Sharifi, Naser P.; Vandenbossche, Julie M.; Iannacchione, Anthony T. et al. (2023)	Establishing the Influence of CaCl2 on the Vulnerability of Cement Slurries to Gas Migration Using the Modified Wellbore Simulation Chamber Apparatus	SPE JOURNAL		S4	C	Targeted CaCl2 hydration/phase-chemistry mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R0914	Al Rawashdeh M.A.; Shaqadan A.A.; Asad O.A. et al. (2021)	Assessment of environmental factors on corrosion in reinforced concrete with calcium chloride	Civil Engineering and Architecture	10.13189/cea.2021.090627	S4	C	Redundant, peripheral, or insufficiently specific for evidence-purpose synthesis. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R0909	Oey, Tandre; Stoian, Julyan; Li, Jialin et al. (2015)	Comparison of Ca(NO3)2 and CaCl2 admixtures on reaction, setting, and strength evolutions in plain and blended cementing formulations	Journal of Materials in Civil Engineering	10.1061/(asce)mt.1943-5533.0001240	S4	C	Original publisher abstract reports a comparison of $CaCl_2$ and calcium nitrate additions in wood-free cementing formulations (Level C).	$CaCl_2$ experimental variable verified from original publisher abstract; Level C
R1461	Ferraz, Joana M.; Del Menezzi, Claudio H. S.; Souza, Mario R. et al. (2012)	Compatibility of pretreated coir fibres (cocos nucifera L.) with Portland cement to produce mineral composites	International Journal of Polymer Science	10.1155/2012/290571	S2; S4	B	Redundant, peripheral, or insufficiently specific for evidence-purpose synthesis. Eligible from title/abstract metadata; full report not available in supplied files	Lignocellulosic/$CaCl_2$-targeted search context; target salt not established from title
R1354	Sluijter W.L.; Kreijger P.C. (1977)	CORROSION OF REINFORCEMENT IN CONCRETE DUE TO CALCIUM CHLORIDE.	Heron		S4	C	Targeted CaCl2 hydration/phase-chemistry mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R1444	Anon (1977)	INFLUENCE OF CALCIUM CHLORIDE ADMIXTURE ON REINFORCEMENT CORROSION IN CONCRETES.	Cem Res Inst India RB		S4	C	Targeted CaCl2 hydration/phase-chemistry mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R1987	Hosseini, Sedigheh; Manesh, Hossein Mohammadi; Mousavi, Sayed Yassin (2026)	ENHANCING EARLY-AGE STRENGTH OF CEMENT MORTAR USING CALCIUM NITRATE, CALCIUM FORMATE, AND SILICAFUME: A TAGUCHI OPTIMIZATION APPROACH	REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS		S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1486	Ma, Jian; Bai, Xiaoyu; Sun, Jinfeng et al. (2026)	The role of calcium formate in supersulfated cement: A multiscale study on hydration mechanisms, pore structure and environmental benefits	Process Safety and Environmental Protection	10.1016/j.psep.2025.108250	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1515	Zhou, Zhiyuan; Sofi, Massoud; Lu, Jinghan et al. (2025)	Antagonistic Effects of Hydrated Lime and Calcium Formate on Early-Age Strength in High Volume Fly Ash Composites: Mechanisms and Engineering Implications	Journal of Composites Science	10.3390/jcs9090476	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate

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R1541	Rashad A.M.; Khalil M.H.; Shaltout A.M. (2025)	Calcium formate as a modifier agent for calcium hydroxide-activated slag cement	Journal of Engineering and Applied Science	10.1186/s44147-025-00768-9	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1567	Kang, Min-Chang; Oh, Taekgeun; Jun, Goeun et al. (2025)	Effect of calcium formate on microstructure and mechanical properties of strain-hardening CaO-activated GGBFS composites	Journal of Building Engineering	10.1016/j.jobe.2025.114426	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1511	Pirvan, Adrian-Alexandru; Lothenbach, Barbara; Schroder, Miriam et al. (2025)	Enhancing slag reaction in cement blends using calcium formate and sodium metasilicate activators	Cement and Concrete Composites	10.1016/j.cemconcomp.2025.106215	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1985	Sulekova, Nikola; Soukal, Frantisek; Novotny, Radoslav et al. (2025)	Influence of alkali metal formates and calcium formate on workability, hydration and basic properties of reactive powder concrete	JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY	10.1007/s10973-024-13703-6	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1500	Ju, Yongjian; Zhang, Siqi; Jia, Sainan et al. (2025)	Influence of calcium formate dosing on early mechanical properties and microstructure of SS-GBFS-DG cementitious materials	Process Safety and Environmental Protection	10.1016/j.psep.2025.106935	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1516	Li, Wan; Song, Yang; Yu, Xianghong et al. (2025)	Multi-scale optimization of shotcrete with classified iron tailings and calcium formate: Machine learning-driven mix design and mechanism regulation	Construction and Building Materials	10.1016/j.conbuildmat.2025.142356	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1545	Wang, Yimu; Jia, Jinqing; Zhang, Dingming et al. (2025)	New Insights into the Effect of Calcium Formate on the Hydration Process of Tricalcium Silicate	Journal of Materials in Civil Engineering	10.1061/jmcee7.mteng-19409	S5	C	Original publisher abstract reports calcium-formate addition in a tricalcium-silicate hydration study (Level C).	Calcium formate experimental variable verified from original publisher abstract; Level C
R1540	Geng, Chaohui; Liu, Binbin; Sun, Guilong et al. (2025)	New insight into the role of alkaline activator in the hydration of supersulfated cement and the regulation effect of calcium formate	Construction and Building Materials	10.1016/j.conbuildmat.2025.140108	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1503	Li, Feiyang; Ran, Xinyi; Li, Yi et al. (2025)	Rapid hardening and high-fluidity ultra-high performance cement-based grout with calcium formate	Materials Letters	10.1016/j.matlet.2025.138326	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1509	Zhou, Zhuo; Chen, Bing; Ahmad, Muhammad Riaz (2025)	Ultra-low clinker cementitious binders with enhanced early strength via Ca (OH)2 and calcium formate activation	Construction and Building Materials	10.1016/j.conbuildmat.2025.143276	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1981	Li, Hainan; He, Luyun; Wane, Huilong et al. (2024)	Effect of calcium formate/nano C-S-H composite on early hydration and microstructure of the GGBS-cement system under steam curing	ZKG INTERNATIONAL		S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1571	Geng, Chaohui; Chen, Heng; Qu, Yupeng et al. (2024)	THE EFFECT OF CALCIUM FORMATE ON THE PERFORMANCE OF SUPERSULFATED CEMENT	Ceramics - Silikaty	10.13168/cs.2024.0021	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate

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R1575	Rakic, Jelena M.; Petrovic, Rada D.; Radojevic, Vesna J. et al. (2024)	Use of sodium oxalate and calcium formate for chemical activation of high volume fly ash (HVFA) binders	Journal of Building Engineering	10.1016/j.jobe.2024.109666	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1546	Dahal, Mandip; Oinam, Yanchen; Vashistha, Prabhat et al. (2023)	Cementless ultra-high performance concrete (UHPC) using CaO- activated GGBFS and calcium formate as an accelerator	Journal of Building Engineering	10.1016/j.jobe.2023.107000	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1547	Yang, Zhouzhou; Mao, Jianghong; Li, Bixiong et al. (2023)	Early strength development of mortar with addition of calcium formate and electric field curing in cold climates	Magazine of Concrete Research	10.1680/jmacr.23.00042	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1514	Wang, Yimu; Jia, Jinqing; Cao, Qi et al. (2022)	Effect of calcium formate on the compressive strength, and hydration process of cement composite containing fly ash and slag	Journal of Building Engineering	10.1016/j.jobe.2022.104133	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1491	Lanlan Z.; Junpeng M.; Hainan L. et al. (2022)	Influence of Calcium Formate/Nano C-S-H Composite on Early Hydration of Fly Ash-Cement System under Steam Curing	Bulletin of the Chinese Ceramic Society		S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1524	Xu, Yongdong; He, Tingshu; Ma, Xiaodong et al. (2022)	New insights into the effect of calcium formate on hydration process of C3A-AF-Gp System: Formation C3A·Ca(HCOO)2·11H2O phase	Construction and Building Materials	10.1016/j.conbuildmat.2022.128941	S5	C	Original publisher abstract reports investigation of calcium formate in the C_3A–AF–gypsum system (Level C).	Calcium formate experimental variable verified from original publisher abstract; Level C
R1578	Zhang F.; Bai Y.; Cai Y. (2021)	Effect of Calcium Formate on Early Hydration of Cement at 5℃; [5℃养护下甲酸钙对水泥早期水化的影响]	Materials Reports	10.11896/cldb.20020138	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1555	Zhou, Zhiyuan; Sofi, Massoud; Zhong, Aocheng et al. (2021)	Effects of calcium formate on early-age strength and microstructure of high-volume fly ash cement systems	Magazine of Concrete Research	10.1680/jmacr.20.00118	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R0864	Qiao, Chunyu; Suraneni, Prannoy; Ying, Then Nathalene Wei et al. (2019)	Chloride binding of cement pastes with fly ash exposed to CaCl2 solutions at 5 and 23 °C	Cement and Concrete Composites	10.1016/j.cemconcomp.2018.12.011	S4	C	Targeted CaCl2 hydration/phase-chemistry mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R0955	Hemalatha, T.; Arthi, Karunanithi; Mapa, Maitri (2019)	Effect of calcium formate on hydration mechanism of cement fly ash blends	ACI Materials Journal	10.14359/51716680	S4; S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1983	Jin, Yu; Stephan, Dietmar; Lu, Zichen (2019)	The effects of calcium formate on the early hydration of alkali silicate activated slag	MATERIALS AND STRUCTURES	10.1617/s11527-019-1336-y	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1569	Gebler Steven (1983)	EVALUATION OF CALCIUM FORMATE AND SODIUM FORMATE AS ACCELERATING ADMIXTURES FOR PORTLAND CEMENT CONCRETE.	Journal of the American Concrete Institute		S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate

ID	Authors (year)	Title	Source	DOI	Search set(s)	Evidence directness	Selection/evidence basis	Evidence-purpose audit category
R0868	Sales, Leane P. B.; da Nobrega, Aline F.; da Nobrega, Ana C. V. et al. (2026)	CaCl2 as a hardening accelerator for air lime-metakaolin slurries: Effects of two different types of metakaolin on kinetics, rheology and microstructure	Applied Clay Science	10.1016/j.clay.2026.108302	S4	C	Targeted CaCl2 hydration/phase-chemistry mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R0926	Padilla-Encinas, P.; Tambara, Luis Urbano Durlo; Fernandez-Jimenez, Ana (2026)	CaCl2-driven phase instability in low-carbon calcium sulfoaluminate binders	Results in Engineering	10.1016/j.rineng.2026.112058	S4	C	Targeted CaCl2 hydration/phase-chemistry mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R1067	Liu C.; Ye J.; Luo K. et al. (2026)	Effect of Anhydrite on Sub-Zero Temperature Properties of Calcium Chloride-Sulfoaluminate Cementitious Composite Systems under Full-Cold Construction; [全冷施工下硬石膏对氯化钙-硫铝酸盐胶凝材料复合体系负温性能的影响]	Kuei Suan Jen Hsueh Pao/Journal of the Chinese Ceramic Society	10.14062/j.issn.0454-5648.20250393	S4	C	Targeted CaCl2 hydration/phase-chemistry mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R0752	Zhang, Chaowei; Jing, Hongjun; Dai, Jun et al. (2026)	Novel efficient activation method for coal gangue: Mechanism of synergistic effect of calcium chloride and microwave activation and its enhancement mechanism on cementitious properties	Construction and Building Materials	10.1016/j.conbuildmat.2026.145848	S4	C	Targeted CaCl2 hydration/phase-chemistry mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$
R1496	Wang, Yimu; Geng, Jing; Zhai, Tianyu (2026)	Influence of Calcium Formate on the Hydration of Tricalcium Aluminate-Gypsum Systems	Journal of Materials in Civil Engineering	10.1061/jmcee7.mteng-21334	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1568	Wang, Yimu; Jia, Jinqing; Zhang, Dingming (2026)	Influence of low concentration calcium formate on the hydration process of tricalcium aluminate-gypsum system	Journal of Sustainable Cement-Based Materials	10.1080/21650373.2025.2561750	S5	C	Targeted calcium-formate cement mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: calcium formate/formate
R1798	Niu, Qianjin; Feng, Xiujuan (2025)	Effect of Calcium Chloride on the Reinforcement of Uranium Tailings with Sodium Hydroxide-Sodium Silicate-Metakaolin	MINERALS	10.3390/min15050526	S4	C	Targeted CaCl2 hydration/phase-chemistry mechanism. Eligible from title/abstract metadata; full report not available in supplied files	Target salt explicit in title: $CaCl_2$

Retrospective audit of seven records removed between the 131-record and 124-record registry versions

The seven IDs were recovered by comparing the earlier 131-record registry with the final 124-record registry. The reasons below are retrospective eligibility assessments based on the available bibliographic metadata, not a contemporaneously recorded exclusion log or a full-text assessment.

ID	Retrospective eligibility assessment based on available metadata
R0015	Broad overview of inorganic wood composites; a study-specific target-salt experiment is not established from the available record.
R0028	Bark panels bonded with clay rather than a cementitious binder; outside the defined material scope.
R0035	Conference record on structural sandwich-panel potential; a study-specific accelerator experiment is not established from the available record.
R0101	Cement production using waste from cement-bonded particleboards, rather than accelerator effects during board manufacture; outside the synthesis question.
R0120	Reactivation of hydrated cement paste without an established wood component or target-salt comparison; outside the defined application scope.
R0158	Broad conference record on wood–cement composites; a study-specific accelerator experiment is not established from the available record.
R0439	Study of additives for cellulase enhancement rather than wood–cement or WWCB products; outside the defined material scope.

Abbreviations: WWCB, wood-wool cement board; DOI, digital object identifier. Search sets S1–S5 correspond to the predefined database-search architecture reported in the main manuscript.