F Goetz-Neunhoeffer

List of Publications by Citations

38 papers	1,622 citations	21 h-index	39 g-index
39 ext. papers	2,029 ext. citations	8.7 avg, IF	4.98 L-index

#	Paper	IF	Citations
38	The early hydration of Ordinary Portland Cement (OPC): An approach comparing measured heat flow with calculated heat flow from QXRD. *Cement and Concrete Research*, **2012**, 42, 134-138	10.3	196
37	Does Ordinary Portland Cement contain amorphous phase? A quantitative study using an external standard method. *Powder Diffraction*, **2011**, 26, 31-38	1.8	135
36	Quantitative analysis of C-S-H in hydrating alite pastes by in-situ XRD. *Cement and Concrete Research*, **2013**, 53, 119-126	10.3	119
35	Refined ettringite (Ca6Al2(SO4)3(OH)12·26H2O) structure for quantitative X-ray diffraction analysis. *Powder Diffraction*, **2006**, 21, 4-11	1.8	116
34	Change in reaction kinetics of a Portland cement caused by a superplasticizer – Calculation of heat flow curves from XRD data. *Cement and Concrete Research*, **2012**, 42, 327-332	10.3	115
33	Ionic Substitutions in Biphasic Hydroxyapatite and β-Tricalcium Phosphate Mixtures: Structural Analysis by Rietveld Refinement. *Journal of the American Ceramic Society*, **2007**, 91, 1-12	3.8	107
32	Studies on the early hydration of two modifications of ye'elimite with gypsum. *Cement and Concrete Research*, **2017**, 91, 106-116	10.3	83
31	Hydration kinetics of CA2 and CA—Investigations performed on a synthetic calcium aluminate cement. *Cement and Concrete Research*, **2013**, 43, 62-69	10.3	76
30	Newly developed Sr-substituted alpha-TCP bone cements. *Acta Biomaterialia*, **2010**, 6, 928-35	10.8	71
29	The influence of fly ash on the hydration of OPC within the first 44 h—A quantitative in situ XRD and heat flow calorimetry study. *Cement and Concrete Research*, **2014**, 56, 129-138	10.3	54
28	A comparative structural study of wet and dried ettringite. *Cement and Concrete Research*, **2010**, 40, 370-375	10.3	52
27	Mineralogical characteristics of Ettringites synthesized from solutions and suspensions. *Cement and Concrete Research*, **2006**, 36, 65-70	10.3	52
26	The early hydration of OPC investigated by in-situ XRD, heat flow calorimetry, pore water analysis and 1H NMR: Learning about adsorbed ions from a complete mass balance approach. *Cement and Concrete Research*, **2018**, 109, 230-242	10.3	41
25	Interaction of silicate and aluminate reaction in a synthetic cement system: Implications for the process of alite hydration. *Cement and Concrete Research*, **2017**, 93, 32-44	10.3	39
24	Mechanically activated alite: New insights into alite hydration. *Cement and Concrete Research*, **2015**, 76, 202-211	10.3	38
23	The hydration of synthetic brownmillerite in presence of low Ca-sulfate content and calcite monitored by quantitative in-situ-XRD and heat flow calorimetry. *Cement and Concrete Research*, **2013**, 54, 61-68	10.3	38
22	Quantitative in situ X-ray diffraction analysis of early hydration of Portland cement at defined temperatures. *Powder Diffraction*, **2009**, 24, 112-115	1.8	37

21	In vitro performance assessment of new brushite-forming Zn- and ZnSr-substituted beta-TCP bone cements. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2010**, 94, 414-20	3.5	27
20	Effects of two oppositely charged colloidal polymers on cement hydration. *Cement and Concrete Composites*, **2019**, 96, 66-76	8.6	24
19	New analytical possibilities for monitoring the phase development during the production of autoclaved aerated concrete. *Cement and Concrete Research*, **2018**, 107, 247-252	10.3	23
18	Study of hydration potential and kinetics of the ferrite phase in iron-rich CAC. *Cement and Concrete Research*, **2016**, 83, 79-85	10.3	23
17	Effect of polymers on cement hydration: A case study using substituted PDADMA. *Cement and Concrete Composites*, **2013**, 35, 71-77	8.6	20
16	The PONKCS method applied for time resolved XRD quantification of supplementary cementitious material reactivity in hydrating mixtures with ordinary Portland cement. *Construction and Building Materials*, **2019**, 214, 449-457	6.7	19
15	Acceleration of OPC by CAC in binary and ternary systems: The role of pore solution chemistry. *Cement and Concrete Research*, **2018**, 107, 264-274	10.3	18
14	How to increase the hydration degree of CA The influence of CA particle fineness. *Cement and Concrete Research*, **2015**, 67, 11-20	10.3	15
13	Ion-doped Brushite Cements for Bone Regeneration. *Acta Biomaterialia*, **2021**, 123, 51-71	10.8	13
12	In-situ XRD study of the temperature-dependent early hydration of calcium aluminate cement in a mix with calcite. *Cement and Concrete Research*, **2020**, 136, 106160	10.3	12
11	Impact of initial CA dissolution on the hydration mechanism of CAC. *Cement and Concrete Research*, **2018**, 113, 41-54	10.3	12
10	The retarding effect of phosphoric acid during CAC hydration. *Cement and Concrete Research*, **2019**, 122, 83-92	10.3	10
9	Application of thermodynamic modeling to predict the stable hydrate phase assemblages in ternary CSA-OPC-anhydrite systems and quantitative verification by QXRD. *Cement and Concrete Research*, **2020**, 128, 105956	10.3	10
8	Influence of crystallinity and surface area on the hydration kinetics of CA2. *Cement and Concrete Research*, **2016**, 89, 136-144	10.3	9
7	Impact of varying Li2CO3 additions on the hydration of ternary CSA-OPC-anhydrite mixes. *Cement and Concrete Research*, **2020**, 131, 106015	10.3	7
6	Influence of the reactivity of the amorphous part of mechanically activated alite on its hydration kinetics. *Cement and Concrete Research*, **2016**, 88, 73-81	10.3	6
5	Phase changes during the drying of calcium aluminate cement bond castables The influence of curing and drying conditions. *Cement*, **2022**, 7, 100020	2	2
4	Relating phase transitions to pore size distributions and mechanical mortar properties in CSA-OPC-C$ based systems The potential impact of delayed straetlingite formation. *Cement and Concrete Research*, **2021**, 147, 106496	10.3	2

3	Temperature-dependent late hydration of calcium aluminate cement in a mix with calcite Potential of G-factor quantification combined with GEMS-predicted phase content. *Cement*, **2021**, 5, 100011	2	1
2	Osteogenic lithium-doped brushite cements for bone regeneration.. *Bioactive Materials*, **2022**, 16, 403-417	16.7	0
1	Calibration and quantitative analysis of C2AHx (2CaO·Al2O3·xH2O) by Rietveld refinement combined G-factor method. *Cement and Concrete Research*, **2022**, 158, 106854	10.3	0