

Guoqing Geng

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,890
citations

236925

25
h-index

265206

42
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all docs

45
docs citations

45
times ranked

1108
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular quantification of the decelerated dissolution of tri-calcium silicate (C3S) due to surface adsorption. <i>Cement and Concrete Research</i> , 2022, 152, 106682.	11.0	8
2	Influence of substrate moisture on the interfacial bonding between calcium silicate hydrate and epoxy. <i>Construction and Building Materials</i> , 2022, 320, 126252.	7.2	25
3	Endowing strength to calcium silicate hydrate (C-S-H) powder by high pressure mechanical compaction. <i>Cement and Concrete Research</i> , 2022, 159, 106858.	11.0	22
4	Micro X-ray diffraction and elemental study on Al-tobermorite formation in aged modern concrete. <i>Journal of the American Ceramic Society</i> , 2022, 105, 6924-6937.	3.8	1
5	The physiochemical alterations of calcium silicate hydrate (C-S-H) under magnesium attack. <i>Cement and Concrete Research</i> , 2022, 160, 106901.	11.0	8
6	The interpenetration polymer network in a cement paste-waterborne epoxy system. <i>Cement and Concrete Research</i> , 2021, 139, 106236.	11.0	52
7	Effects of pH on the nano/micro structure of calcium silicate hydrate (C-S-H) under sulfate attack. <i>Cement and Concrete Research</i> , 2021, 140, 106306.	11.0	64
8	Iron speciation in blast furnace slag cements. <i>Cement and Concrete Research</i> , 2021, 140, 106287.	11.0	24
9	Fe(II) interaction with cement phases: Method development, wet chemical studies and X-ray absorption spectroscopy. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 692-704.	9.4	18
10	An in-situ 3D micro-XRD investigation of water uptake by alkali-silica-reaction (ASR) product. <i>Cement and Concrete Research</i> , 2021, 141, 106331.	11.0	26
11	Research on the toughening mechanism of modified nano-silica and silane molecular cages in the multi-scale microfracture of cement-epoxy composite. <i>Cement and Concrete Composites</i> , 2021, 119, 104027.	10.7	10
12	Atomistic structure of alkali-silica reaction products refined from X-ray diffraction and micro X-ray absorption data. <i>Cement and Concrete Research</i> , 2020, 129, 105958.	11.0	38
13	Analysis of atomistic structural deformation characteristics of calcium silicate hydrate in 53-year-old tricalcium silicate paste using atomic pair distribution function. <i>Construction and Building Materials</i> , 2020, 237, 117714.	7.2	15
14	Fe(III) uptake by calcium silicate hydrates. <i>Applied Geochemistry</i> , 2020, 113, 104460.	3.0	31
15	Mechanical behavior and phase change of alkali-silica reaction products under hydrostatic compression. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020, 76, 674-682.	1.1	11
16	Uptake of iodide by calcium aluminate phases (AFm phases). <i>Applied Geochemistry</i> , 2020, 116, 104559.	3.0	13
17	Microstructural Study of Hydration of C3S in the Presence of Calcium Nitrate Using Scanning Transmission X-Ray Microscopy (STXM). <i>Journal of Nanomaterials</i> , 2020, 2020, 1-9.	2.7	4
18	Advances in characterizing and understanding the microstructure of cementitious materials. <i>Cement and Concrete Research</i> , 2019, 124, 105806.	11.0	104

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19	Verifying Cloud Application for the Interaction Correctness Using SoaML and SPIN. , 2019, , .		2
20	Influence of decalcification on structural and mechanical properties of synthetic calcium silicate hydrate (C-S-H). Cement and Concrete Research, 2019, 123, 105793.	11.0	64
21	Synthesis, characterization, and water uptake property of alkali-silica reaction products. Cement and Concrete Research, 2019, 121, 58-71.	11.0	86
22	The Hydration of $\hat{1}^2$ - and $\hat{1}\hat{a}\hat{e}^2$ _H -Dicalcium Silicates: An X-ray Spectromicroscopic Study. ACS Sustainable Chemistry and Engineering, 2019, 7, 2316-2326.	6.7	42
23	The influence of expansive cement on the mechanical, physical, and microstructural properties of hybrid-fiber-reinforced concrete. Cement and Concrete Composites, 2019, 96, 21-32.	10.7	48
24	Modification of poly(ethylene glycol) on the microstructure and mechanical properties of calcium silicate hydrates. Cement and Concrete Research, 2019, 115, 20-30.	11.0	55
25	The chemistry and structure of calcium (alumino) silicate hydrate: A study by XANES, ptychographic imaging, and wide- and small-angle scattering. Cement and Concrete Research, 2019, 115, 367-378.	11.0	104
26	Insights into the interfacial strengthening mechanisms of calcium-silicate-hydrate/polymer nanocomposites. Physical Chemistry Chemical Physics, 2018, 20, 8247-8266.	2.8	53
27	A high-pressure X-ray diffraction study of the crystalline phases in calcium aluminate cement paste. Cement and Concrete Research, 2018, 108, 38-45.	11.0	24
28	Corrosion resistance of fine-grained rebar in mortars designed for high-speed railway construction. European Journal of Environmental and Civil Engineering, 2018, 22, 562-577.	2.1	5
29	Preferred orientation of calcium aluminosilicate hydrate induced by confined compression. Cement and Concrete Research, 2018, 113, 186-196.	11.0	63
30	Synchrotron X-ray nanotomographic and spectromicroscopic study of the tricalcium aluminate hydration in the presence of gypsum. Cement and Concrete Research, 2018, 111, 130-137.	11.0	79
31	Aluminum-induced dreierketten chain cross-links increase the mechanical properties of nanocrystalline calcium aluminosilicate hydrate. Scientific Reports, 2017, 7, 44032.	3.3	122
32	Nanometer-Resolved Spectroscopic Study Reveals the Conversion Mechanism of $\text{CaO}\hat{\text{A}}\text{Al}_{2}\text{O}_{3}\hat{\text{A}}10\text{H}_{2}\text{O}$ to $2\text{CaO}\hat{\text{A}}\text{Al}_{2}\text{O}_{3}\hat{\text{A}}8\text{H}_{2}\text{O}$ and $3\text{CaO}\hat{\text{A}}\text{Al}_{2}\text{O}_{3}\hat{\text{A}}6\text{H}_{2}\text{O}$ at an Elevated Temperature. Crystal Growth and Design, 2017, 17, 4246-4253.	3.0	44
33	Electrochemical Behavior of Fine-Grained Steel in Alkaline Solutions in the Presence of Chlorides. Journal of Materials in Civil Engineering, 2017, 29, .	2.9	14
34	Characterization of the Bonds Developed between Calcium Silicate Hydrate and Polycarboxylate-Based Superplasticizers with Silyl Functionalities. Langmuir, 2017, 33, 3404-3412.	3.5	24
35	Role of Adsorption Phenomena in Cubic Tricalcium Aluminate Dissolution. Langmuir, 2017, 33, 45-55.	3.5	93
36	Interfacial Connection Mechanisms in Calcium "Silicate" Hydrates/Polymer Nanocomposites: A Molecular Dynamics Study. ACS Applied Materials & Interfaces, 2017, 9, 41014-41025.	8.0	106

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37	Densification of the interlayer spacing governs the nanomechanical properties of calcium-silicate-hydrate. <i>Scientific Reports</i> , 2017, 7, 10986.	3.3	110
38	Solution chemistry of cubic and orthorhombic tricalcium aluminate hydration. <i>Cement and Concrete Research</i> , 2017, 100, 176-185.	11.0	59
39	Effects of CO ₂ and temperature on the structure and chemistry of C ₃ A-H investigated by Raman spectroscopy. <i>RSC Advances</i> , 2017, 7, 48925-48933.	3.6	70
40	Ca _L _{2,3} -edge near edge X-ray absorption fine structure of tricalcium aluminate, gypsum, and calcium (sulfo)aluminate hydrates. <i>American Mineralogist</i> , 2017, 102, 900-908.	1.9	21
41	A Scanning Transmission X-ray Microscopy Study of Cubic and Orthorhombic C ₃ A and Their Hydration Products in the Presence of Gypsum. <i>Materials</i> , 2016, 9, 745.	2.9	8
42	Effect of fiber types on creep behavior of concrete. <i>Construction and Building Materials</i> , 2016, 105, 416-422.	7.2	65
43	CaCl ₂ -Accelerated Hydration of Tricalcium Silicate: A STXM Study Combined with ²⁹ Si MAS NMR. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-10.	2.7	13
44	Atomic and nano-scale characterization of a 50-year-old hydrated C ₃ S paste. <i>Cement and Concrete Research</i> , 2015, 77, 36-46.	11.0	42