

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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45
all docs

45
docs citations

45
times ranked

1108
citing authors

#	ARTICLE	IF	CITATIONS
1	Aluminum-induced dreierketten chain cross-links increase the mechanical properties of nanocrystalline calcium aluminosilicate hydrate. <i>Scientific Reports</i> , 2017, 7, 44032.	3.3	122
2	Densification of the interlayer spacing governs the nanomechanical properties of calcium-silicate-hydrate. <i>Scientific Reports</i> , 2017, 7, 10986.	3.3	110
3	Interfacial Connection Mechanisms in Calcium Silicate Hydrates/Polymer Nanocomposites: A Molecular Dynamics Study. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41014-41025.	8.0	106
4	Advances in characterizing and understanding the microstructure of cementitious materials. <i>Cement and Concrete Research</i> , 2019, 124, 105806.	11.0	104
5	The chemistry and structure of calcium (alumino) silicate hydrate: A study by XANES, ptychographic imaging, and wide- and small-angle scattering. <i>Cement and Concrete Research</i> , 2019, 115, 367-378.	11.0	104
6	Role of Adsorption Phenomena in Cubic Tricalcium Aluminate Dissolution. <i>Langmuir</i> , 2017, 33, 45-55.	3.5	93
7	Synthesis, characterization, and water uptake property of alkali-silica reaction products. <i>Cement and Concrete Research</i> , 2019, 121, 58-71.	11.0	86
8	Synchrotron X-ray nanotomographic and spectromicroscopic study of the tricalcium aluminate hydration in the presence of gypsum. <i>Cement and Concrete Research</i> , 2018, 111, 130-137.	11.0	79
9	Effects of CO ₂ and temperature on the structure and chemistry of C-S-H investigated by Raman spectroscopy. <i>RSC Advances</i> , 2017, 7, 48925-48933.	3.6	70
10	Effect of fiber types on creep behavior of concrete. <i>Construction and Building Materials</i> , 2016, 105, 416-422.	7.2	65
11	Influence of decalcification on structural and mechanical properties of synthetic calcium silicate hydrate (C-S-H). <i>Cement and Concrete Research</i> , 2019, 123, 105793.	11.0	64
12	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
13	Preferred orientation of calcium aluminosilicate hydrate induced by confined compression. <i>Cement and Concrete Research</i> , 2018, 113, 186-196.	11.0	63
14	Solution chemistry of cubic and orthorhombic tricalcium aluminate hydration. <i>Cement and Concrete Research</i> , 2017, 100, 176-185.	11.0	59
15	Modification of poly(ethylene glycol) on the microstructure and mechanical properties of calcium silicate hydrates. <i>Cement and Concrete Research</i> , 2019, 115, 20-30.	11.0	55
16	Insights into the interfacial strengthening mechanisms of calcium-silicate-hydrate/polymer nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8247-8266.	2.8	53
17	The interpenetration polymer network in a cement paste-waterborne epoxy system. <i>Cement and Concrete Research</i> , 2021, 139, 106236.	11.0	52
18	The influence of expansive cement on the mechanical, physical, and microstructural properties of hybrid-fiber-reinforced concrete. <i>Cement and Concrete Composites</i> , 2019, 96, 21-32.	10.7	48

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19	Nanometer-Resolved Spectroscopic Study Reveals the Conversion Mechanism of $\text{CaO}\cdot\text{Al}_2\text{O}_3\cdot 10\text{H}_2\text{O}$ to $2\text{CaO}\cdot\text{Al}_2\text{O}_3\cdot 8\text{H}_2\text{O}$ and $3\text{CaO}\cdot\text{Al}_2\text{O}_3\cdot 6\text{H}_2\text{O}$ at an Elevated Temperature. <i>Crystal Growth and Design</i> , 2017, 17, 4246-4253.	3.0	44
20	Atomic and nano-scale characterization of a 50-year-old hydrated C3S paste. <i>Cement and Concrete Research</i> , 2015, 77, 36-46.	11.0	42
21	The Hydration of $\hat{1}^2$ - and $\hat{1}\hat{2}$ -Dicalcium Silicates: An X-ray Spectromicroscopic Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2316-2326.	6.7	42
22	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
23	Fe(III) uptake by calcium silicate hydrates. <i>Applied Geochemistry</i> , 2020, 113, 104460.	3.0	31
24	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
25	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
26	Characterization of the Bonds Developed between Calcium Silicate Hydrate and Polycarboxylate-Based Superplasticizers with Silyl Functionalities. <i>Langmuir</i> , 2017, 33, 3404-3412.	3.5	24
27	A high-pressure X-ray diffraction study of the crystalline phases in calcium aluminate cement paste. <i>Cement and Concrete Research</i> , 2018, 108, 38-45.	11.0	24
28	Iron speciation in blast furnace slag cements. <i>Cement and Concrete Research</i> , 2021, 140, 106287.	11.0	24
29	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
30	$\text{Ca}_{2,3}$ -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
31	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
32	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
33	Electrochemical Behavior of Fine-Grained Steel in Alkaline Solutions in the Presence of Chlorides. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	2.9	14
34	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
35	Uptake of iodide by calcium aluminate phases (AFm phases). <i>Applied Geochemistry</i> , 2020, 116, 104559.	3.0	13
36	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

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37	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
38	A Scanning Transmission X-ray Microscopy Study of Cubic and Orthorhombic C3A and Their Hydration Products in the Presence of Gypsum. <i>Materials</i> , 2016, 9, 745.	2.9	8
39	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
40	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
41	Corrosion resistance of fine-grained rebar in mortars designed for high-speed railway construction. <i>European Journal of Environmental and Civil Engineering</i> , 2018, 22, 562-577.	2.1	5
42	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
43	Verifying Cloud Application for the Interaction Correctness Using SoaML and SPIN. , 2019, , .		2
44	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