# Xinyuan Ke

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2988669/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 24 papers | 1,348 citations | 516215 16 h-index | 642321 23 g-index |
| 24 all docs | 24 docs citations | 24 times ranked | 1118 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The effects of biomineralization on the localised phase and microstructure evolutions of bacteria-based self-healing cementitious composites. Cement and Concrete Composites, 2022, 128, 104421. | 4.6 | 22 |
| 2 | A Bayesian machine learning approach for inverse prediction of high-performance concrete ingredients with targeted performance. Construction and Building Materials, 2021, 270, 121424. | 3.2 | 32 |
| 3 | Thermodynamic properties of sodium aluminosilicate hydrate (Nâ€“Aâ€“Sâ€“H). Dalton Transactions, 2021, 50, 13968-13984. | 1.6 | 14 |
| 4 | Coupling machine learning with thermodynamic modelling to develop a composition-property model for alkali-activated materials. Composites Part B: Engineering, 2021, 216, 108801. | 5.9 | 29 |
| 5 | Activator Anion Influences the Nanostructure of Alkali-Activated Slag Cements. Journal of Physical Chemistry C, 2021, 125, 20727-20739. | 1.5 | 23 |
| 6 | Assessing the suitability of alkali-activated metakaolin geopolymer for thermochemical heat storage. Microporous and Mesoporous Materials, 2021, 325, 111329. | 2.2 | 10 |
| 7 | Incorporation of strontium and calcium in geopolymer gels. Journal of Hazardous Materials, 2020, 382, 121015. | 6.5 | 71 |
| 8 | Thermodynamic modelling of phase evolution in alkali-activated slag cements exposed to carbon dioxide. Cement and Concrete Research, 2020, 136, 106158. | 4.6 | 56 |
| 9 | Micro-fabricated electrochemical chloride ion sensors: From the present to the future. Talanta, 2020, 211, 120734. | 2.9 | 29 |
| 10 | Alkali aluminosilicate geopolymers as binders to encapsulate strontium-selective titanate ion-exchangers. Dalton Transactions, 2019, 48, 12116-12126. | 1.6 | 25 |
| 11 | A spatially-varying relaxation parameter Lattice Boltzmann Method (SVRP-LBM) for predicting the effective thermal conductivity of composite material. Computational Materials Science, 2019, 169, 109080. | 1.4 | 10 |
| 12 | Layered double hydroxides modify the reaction of sodium silicate-activated slag cements. Green Materials, 2019, 7, 52-60. | 1.1 | 8 |
| 13 | Slag-Based Cements That Resist Damage Induced by Carbon Dioxide. ACS Sustainable Chemistry and Engineering, 2018, 6, 5067-5075. | 3.2 | 39 |
| 14 | Metakaolin-Based Geopolymers for Nuclear Waste Encapsulation. RILEM Bookseries, 2018, , 183-188. | 0.2 | 7 |
| 15 | Slag and Activator Chemistry Control the Reaction Kinetics of Sodium Metasilicate-Activated Slag Cements. Sustainability, 2018, 10, 4709. | 1.6 | 47 |
| 16 | Structural Ordering of Aged and Hydrothermally Cured Metakaolin Based Potassium Geopolymers. RILEM Bookseries, 2018, , 232-237. | 0.2 | 2 |
| 17 | Uptake of chloride and carbonate by Mg-Al and Ca-Al layered double hydroxides in simulated pore solutions of alkali-activated slag cement. Cement and Concrete Research, 2017, 100, 1-13. | 4.6 | 224 |
| 18 | Chloride binding and mobility in sodium carbonate-activated slag pastes and mortars. Materials and Structures/Materiaux Et Constructions, 2017, 50, 252. | 1.3 | 52 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Characterization of supplementary cementitious materials by thermal analysis. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1. | 1.3 | 64 |
| 20 | Alternative inorganic binders based on alkali-activated metallurgical slags. , 2017, , 185-220. | | 15 |
| 21 | Controlling the reaction kinetics of sodium carbonate-activated slag cements using calcined layered double hydroxides. Cement and Concrete Research, 2016, 81, 24-37. | 4.6 | 213 |
| 22 | Oneâ€Part Geopolymers Based on Thermally Treated Red Mud/NaOH Blends. Journal of the American Ceramic Society, 2015, 98, 5-11. | 1.9 | 184 |
| 23 | Synthesis and Characterization of Geopolymer from Bayer Red Mud with Thermal Pretreatment. Journal of the American Ceramic Society, 2014, 97, 1652-1660. | 1.9 | 167 |
| 24 | Influence of Thermal Treatment on Phase Transformation and Dissolubility of Aluminosilicate Phase in Red Mud. Materials Research Society Symposia Proceedings, 2012, 1488, 88. | 0.1 | 5 |