

Katrin Schollbach

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

825
citations

430754

18
h-index

501076

28
g-index

28
all docs

28
docs citations

28
times ranked

680
citing authors

#	ARTICLE	IF	CITATIONS
1	Active Iron-Rich Belite Sulfoaluminate Cements: Clinkering and Hydration. <i>Environmental Science & Technology</i> , 2010, 44, 6855-6862.	4.6	90
2	Effect of saccharides on the hydration of ordinary Portland cement. <i>Construction and Building Materials</i> , 2017, 150, 268-275.	3.2	84
3	Novel low temperature synthesis of sodium silicate and ordered mesoporous silica from incineration bottom ash. <i>Journal of Cleaner Production</i> , 2019, 211, 874-883.	4.6	66
4	In-depth mineralogical quantification of MSWI bottom ash phases and their association with potentially toxic elements. <i>Waste Management</i> , 2019, 87, 1-12.	3.7	64
5	Recycling and utilization of high volume converter steel slag into CO ₂ activated mortars – The role of slag particle size. <i>Resources, Conservation and Recycling</i> , 2020, 160, 104883.	5.3	53
6	Using alternative waste coir fibres as a reinforcement in cement-fibre composites. <i>Construction and Building Materials</i> , 2020, 231, 117121.	3.2	48
7	The effect of NaOH concentration on the mechanical and physical properties of alkali activated fly ash-based artificial lightweight aggregate. <i>Construction and Building Materials</i> , 2020, 259, 119832.	3.2	41
8	Valorization of converter steel slag into eco-friendly ultra-high performance concrete by ambient CO ₂ pre-treatment. <i>Construction and Building Materials</i> , 2021, 280, 122580.	3.2	40
9	One-pot synthesis of monolithic silica-cellulose aerogel applying a sustainable sodium silicate precursor. <i>Construction and Building Materials</i> , 2021, 293, 123289.	3.2	38
10	Chemical speciation, distribution and leaching behavior of chlorides from municipal solid waste incineration bottom ash. <i>Chemosphere</i> , 2020, 241, 124985.	4.2	33
11	The immobilization of potentially toxic elements due to incineration and weathering of bottom ash fines. <i>Journal of Hazardous Materials</i> , 2019, 379, 120798.	6.5	30
12	MSWI bottom ash as binder replacement in wood cement composites. <i>Construction and Building Materials</i> , 2019, 196, 672-680.	3.2	25
13	Hydration of potassium citrate-activated BOF slag. <i>Cement and Concrete Research</i> , 2021, 140, 106291.	4.6	25
14	A silica aerogel synthesized from olivine and its application as a photocatalytic support. <i>Construction and Building Materials</i> , 2020, 248, 118709.	3.2	24
15	Municipal solid waste incineration bottom ash fines: Transformation into a minor additional constituent for cements. <i>Resources, Conservation and Recycling</i> , 2021, 166, 105354.	5.3	23
16	Influence of hydrothermal treatment on the mechanical and environmental performances of mortars including MSWI bottom ash. <i>Waste Management</i> , 2018, 78, 639-648.	3.7	20
17	Effect of highly dispersed colloidal olivine nano-silica on early age properties of ultra-high performance concrete. <i>Cement and Concrete Composites</i> , 2022, 131, 104564.	4.6	19
18	Influence of the spruce strands hygroscopic behaviour on the performances of wood-cement composites. <i>Construction and Building Materials</i> , 2018, 166, 522-530.	3.2	18

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19	Investigation of the hydrothermal treatment for maximizing the MSWI bottom ash content in fine lightweight aggregates. <i>Construction and Building Materials</i> , 2020, 230, 116947.	3.2	18
20	Properties of Alkali Activated Lightweight Aggregate Generated from Sidoarjo Volcanic Mud (Lusi), Fly Ash, and Municipal Solid Waste Incineration Bottom Ash. <i>Materials</i> , 2020, 13, 2528.	1.3	17
21	Development of cement-free bio-based cold-bonded lightweight aggregates (BCBLWAs) using steel slag and miscanthus powder via CO ₂ curing. <i>Journal of Cleaner Production</i> , 2021, 322, 129105.	4.6	16
22	Investigation of local degradation in wood stands and its effect on cement wood composites. <i>Construction and Building Materials</i> , 2020, 231, 117201.	3.2	10
23	Effects of soluble magnesium on the structure of calcium silicate hydrate. <i>Construction and Building Materials</i> , 2021, 302, 124402.	3.2	6
24	Evaluation of municipal solid waste incineration filter cake as supplementary cementitious material. <i>Construction and Building Materials</i> , 2020, 250, 118833.	3.2	5
25	The mineralogy of air granulated converter slag. <i>International Journal of Ceramic Engineering & Science</i> , 2021, 3, 21-36.	0.5	5
26	The utilization of waste incineration filter dust (WIFD) in sodium carbonate activated slag mortars. <i>Construction and Building Materials</i> , 2021, 313, 125494.	3.2	3
27	A method for analysis of nuisance dust from integrated steel works: chemical and mineralogical characteristics of contributing sources. <i>Environmental Sciences Europe</i> , 2020, 32, .	2.6	2
28	Deformations in Cement Pastes during Capillary Imbibition and Their Relation to Water and Isopropanol as Imbibing Liquids. <i>Materials</i> , 2022, 15, 36.	1.3	2