Vanchai Sata

List of Publications by Year
in descending order

59 papers	5,456 citations	101543 36 h-index	161849 54 g-index
59 all docs	59 docs citations	59 times ranked	2904 citing authors

#	Article	IF	Citations
1	The effect of adding nano-SiO2 and nano-Al2O3 on properties of high calcium fly ash geopolymer cured at ambient temperature. Materials & Design, 2014, 55, 58-65.	5.1	328
2	Influence of pozzolan from various by-product materials on mechanical properties of high-strength concrete. Construction and Building Materials, 2007, 21, 1589-1598.	7.2	315
3	Effects of NaOH concentrations on physical and electrical properties of high calcium fly ash geopolymer paste. Cement and Concrete Composites, 2014, 45, 9-14.	10.7	305
4	Resistance of lignite bottom ash geopolymer mortar to sulfate and sulfuric acid attack. Cement and Concrete Composites, 2012, 34, 700-708.	10.7	276
5	Influence of curing conditions on properties of high calcium fly ash geopolymer containing Portland cement as additive. Materials & Design, 2014, 53, 269-274.	5.1	233
6	Influence of recycled aggregate on fly ash geopolymer concrete properties. Journal of Cleaner Production, 2016, 112, 2300-2307.	9.3	217
7	Influence of rice husk ash on mechanical properties and fire resistance of recycled aggregate high-calcium fly ash geopolymer concrete. Journal of Cleaner Production, 2020, 252, 119797.	9.3	200
8	Utilization of Palm Oil Fuel Ash in High-Strength Concrete. Journal of Materials in Civil Engineering, 2004, 16, 623-628.	2.9	191
9	Setting Time, Strength, and Bond of High-Calcium Fly Ash Geopolymer Concrete. Journal of Materials in Civil Engineering, 2015, 27, .	2.9	189
10	High calcium fly ash geopolymer mortar containing Portland cement for use as repair material. Construction and Building Materials, 2015, 98, 482-488.	7.2	187
11	Properties of pervious geopolymer concrete using recycled aggregates. Construction and Building Materials, 2013, 42, 33-39.	7.2	179
12	Properties of pervious concrete containing recycled concrete block aggregate and recycled concrete aggregate. Construction and Building Materials, 2016, 111, 15-21.	7.2	174
13	Compressive strength and microstructure analysis of geopolymer paste using waste glass powder and fly ash. Journal of Cleaner Production, 2018, 172, 2892-2898.	9.3	169
14	Pervious high-calcium fly ash geopolymer concrete. Construction and Building Materials, 2012, 30, 366-371.	7.2	156
15	Use of municipal solid waste incinerator (MSWI) bottom ash in high calcium fly ash geopolymer matrix. Journal of Cleaner Production, 2017, 148, 49-59.	9.3	153
16	Properties of metakaolin-high calcium fly ash geopolymer concrete containing recycled aggregate from crushed concrete specimens. Construction and Building Materials, 2018, 161, 365-373.	7.2	152
17	Lightweight geopolymer concrete containing aggregate from recycle lightweight block. Materials & Design, 2013, 52, 580-586.	5.1	146
18	Improved geopolymerization of bottom ash by incorporating fly ash and using waste gypsum as additive. Cement and Concrete Composites, 2012, 34, 819-824.	10.7	127

#	Article	IF	Citations
19	Mechanical and thermal properties of lightweight geopolymer mortar incorporating crumb rubber. Journal of Cleaner Production, 2018, 195, 1069-1080.	9.3	127
20	Recycled aggregate high calcium fly ash geopolymer concrete with inclusion of OPC and nano-SiO2. Construction and Building Materials, 2018, 174, 244-252.	7.2	113
21	Use of lightweight aggregates in pervious concrete. Construction and Building Materials, 2013, 48, 585-591.	7.2	112
22	Natural fiber reinforced high calcium fly ash geopolymer mortar. Construction and Building Materials, 2020, 241, 118143.	7.2	111
23	Use of crushed clay brick and pumice aggregates in lightweight geopolymer concrete. Construction and Building Materials, 2018, 188, 1025-1034.	7.2	100
24	Use of ground coarse fly ash as a replacement of condensed silica fume in producing high-strength concrete. Cement and Concrete Research, 2004, 34, 549-555.	11.0	97
25	Properties of lightweight fly ash geopolymer concrete containing bottom ash as aggregates. Construction and Building Materials, 2016, 111, 637-643.	7.2	93
26	Properties of high calcium fly ash geopolymer pastes with Portland cement as an additive. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 214-220.	4.9	85
27	Effect of W/B ratios on pozzolanic reaction of biomass ashes in Portland cement matrix. Cement and Concrete Composites, 2012, 34, 94-100.	10.7	72
28	High-Calcium Bottom Ash Geopolymer: Sorptivity, Pore Size, and Resistance to Sodium Sulfate Attack. Journal of Materials in Civil Engineering, 2013, 25, 105-111.	2.9	69
29	Use of coal ash as geopolymer binder and coarse aggregate in pervious concrete. Construction and Building Materials, 2015, 96, 289-295.	7.2	65
30	Compressive strength, Bending and Fracture Characteristics of High Calcium Fly Ash Geopolymer Mortar Containing Portland Cement Cured at Ambient Temperature. Arabian Journal for Science and Engineering, 2016, 41, 1263-1271.	1.1	65
31	Mechanical Properties, Thermal Conductivity, and Sound Absorption of Pervious Concrete Containing Recycled Concrete and Bottom Ash Aggregates. KSCE Journal of Civil Engineering, 2018, 22, 1369-1376.	1.9	64
32	Enhancement of mechanical properties of fly ash geopolymer containing fine recycled concrete aggregate with micro carbon fiber. Journal of Building Engineering, 2021, 41, 102403.	3.4	63
33	Properties of high-calcium and low-calcium fly ash combination geopolymer mortar containing recycled aggregate. Heliyon, 2019, 5, e02513.	3.2	61
34	Compressive Strength and Heat Evolution of Concretes Containing Palm Oil Fuel Ash. Journal of Materials in Civil Engineering, 2010, 22, 1033-1038.	2.9	59
35	Effects of binder and CaCl2 contents on the strength of calcium carbide residue-fly ash concrete. Cement and Concrete Composites, 2011, 33, 436-443.	10.7	56
36	Pressed lightweight concrete containing calcined diatomite aggregate. Construction and Building Materials, 2013, 47, 896-901.	7.2	49

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37	Apatite formation on calcined kaolinâ€“white Portland cement geopolymer. Materials Science and Engineering C, 2015, 51, 1-6.	7.3	37
38	Mechanical and Thermal Properties of Recycling Lightweight Pervious Concrete. Arabian Journal for Science and Engineering, 2015, 40, 443-450.	1.1	30
39	Use of recycled aggregates in pressed fly ash geopolymer concrete. Environmental Progress and Sustainable Energy, 2020, 39, e13327.	2.3	28
40	Resistance to algae and fungi formation of high calcium fly ash geopolymer paste containing TiO2. Journal of Building Engineering, 2019, 25, 100817.	3.4	27
41	Thermal and sound properties of concrete mixed with high porous aggregates from manufacturing waste impregnated with phase change material. Journal of Building Engineering, 2020, 29, 101111.	3.4	24
42	The effects of replacement fly ash with diatomite in geopolymer mortar. Computers and Concrete, 2012, 9, 427-437.	0.7	20
43	Recycled Non-Biodegradable polyethylene terephthalate waste as fine aggregate in fly ash geopolymer and cement mortars. Construction and Building Materials, 2022, 328, 127084.	7.2	17
44	Microstructure and strength of blended FBC-PCC fly ash geopolymer containing gypsum as an additive. ScienceAsia, 2012, 38, 175.	0.5	15
45	Use of construction and demolition waste (CDW) for alkali-activated or geopolymer concrete. , 2020, , 385-403.		13
46	Properties of pervious concrete containing high-calcium fly ash. Computers and Concrete, 2016, 17, 337-351.	0.7	13
47	Lightweight Geopolymer Concrete Containing Recycled Plastic Beads. Key Engineering Materials, 0, 801, 377-384.	0.4	12
48	Bioactivity enhancement of calcined kaolin geopolymer with CaCl2 treatment. ScienceAsia, 2016, 42, 407.	0.5	12
49	Investigation of properties of lightweight concrete with calcined diatomite aggregate. KSCE Journal of Civil Engineering, 2014, 18, 1429-1435.	1.9	11
50	Effect of viscoelastic polymer on damping properties of precast concrete panel. Heliyon, 2021, 7, e06967.	3.2	7
51	Strength enhancement of pumice-based geopolymer paste by incorporating recycled concrete and calcined oyster shell powders. Case Studies in Construction Materials, 2022, 17, e01307.	1.7	6
52	Use of Recycled Concrete Aggregate in High-Calcium Fly Ash Geopolymer Concrete. Key Engineering Materials, 0, 718, 163-168.	0.4	5
53	EFFECT OF SODIUM HYDROXIDE CONCENTRATION AND SODIUM SILICATE TO SODIUM HYDROXIDE RATIO ON PROPERTIES OF CALCINED KAOLIN-WHITE PORTLANDCEMENT GEOPOLYMER. International Journal of GEOMATE, 2018, 14, .	0.3	5
54	High flexural strength lightweight fly ash geopolymer mortar containing waste ï¬ber cement. Case Studies in Construction Materials, 2022, 16, e01121.	1.7	5

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55	Efficiency factor of high calcium Class F fly ash in concrete. Computers and Concrete, 2011, 8, 583-595.	0.7	3
56	Bio-strengthening of cementitious composites from incinerated sugarcane filter cake by a calcifying bacterium Lysinibacillus sp. WH. Scientific Reports, 2022, 12, 7026.	3.3	3
57	PORTLAND CEMENT CONTAINING FLY ASH, EXPANDED PERLITE, AND PLASTICIZER FOR MASONRY AND PLASTERING MORTARS. International Journal of GEOMATE, 2018, 15, .	0.3	2
58	Fire resistance of recycled aggregate alkali-activated concrete. , 2022, , 489-506.		2
59	Strength and Behaviour of Small-Scale Reinforced High Calcium Fly Ash Geopolymer Concrete Beam with Short Shear Span. Key Engineering Materials, 0, 718, 191-195.	0.4	1