

Vanchai Sata

List of Publications by Year in descending order

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59
papers

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citations

101543

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54
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59
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59
docs citations

59
times ranked

2904
citing authors

#	ARTICLE	IF	CITATIONS
1	Fire resistance of recycled aggregate alkali-activated concrete. , 2022, , 489-506.		2
2	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
3	Bio-strengthening of cementitious composites from incinerated sugarcane filter cake by a calcifying bacterium <i>Lysinibacillus</i> sp. WH. Scientific Reports, 2022, 12, 7026.	3.3	3
4	High flexural strength lightweight fly ash geopolymer mortar containing waste fiber cement. Case Studies in Construction Materials, 2022, 16, e01121.	1.7	5
5	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
6	Effect of viscoelastic polymer on damping properties of precast concrete panel. Heliyon, 2021, 7, e06967.	3.2	7
7	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
8	Use of recycled aggregates in pressed fly ash geopolymer concrete. Environmental Progress and Sustainable Energy, 2020, 39, e13327.	2.3	28
9	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
10	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
11	Natural fiber reinforced high calcium fly ash geopolymer mortar. Construction and Building Materials, 2020, 241, 118143.	7.2	111
12	Use of construction and demolition waste (CDW) for alkali-activated or geopolymer concrete. , 2020, , 385-403.		13
13	Properties of high-calcium and low-calcium fly ash combination geopolymer mortar containing recycled aggregate. Heliyon, 2019, 5, e02513.	3.2	61
14	Resistance to algae and fungi formation of high calcium fly ash geopolymer paste containing TiO ₂ . Journal of Building Engineering, 2019, 25, 100817.	3.4	27
15	Recycled aggregate high calcium fly ash geopolymer concrete with inclusion of OPC and nano-SiO ₂ . Construction and Building Materials, 2018, 174, 244-252.	7.2	113
16	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
17	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
18	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

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19	Use of crushed clay brick and pumice aggregates in lightweight geopolymer concrete. <i>Construction and Building Materials</i> , 2018, 188, 1025-1034.	7.2	100
20	Mechanical and thermal properties of lightweight geopolymer mortar incorporating crumb rubber. <i>Journal of Cleaner Production</i> , 2018, 195, 1069-1080.	9.3	127
21	EFFECT OF SODIUM HYDROXIDE CONCENTRATION AND SODIUM SILICATE TO SODIUM HYDROXIDE RATIO ON PROPERTIES OF CALCINED KAOLIN-WHITE PORTLANDCEMENT GEOPOLYMER. <i>International Journal of GEOMATE</i> , 2018, 14, .	0.3	5
22	PORTLAND CEMENT CONTAINING FLY ASH, EXPANDED PERLITE, AND PLASTICIZER FOR MASONRY AND PLASTERING MORTARS. <i>International Journal of GEOMATE</i> , 2018, 15, .	0.3	2
23	Use of municipal solid waste incinerator (MSWI) bottom ash in high calcium fly ash geopolymer matrix. <i>Journal of Cleaner Production</i> , 2017, 148, 49-59.	9.3	153
24	Properties of lightweight fly ash geopolymer concrete containing bottom ash as aggregates. <i>Construction and Building Materials</i> , 2016, 111, 637-643.	7.2	93
25	Compressive strength, Bending and Fracture Characteristics of High Calcium Fly Ash Geopolymer Mortar Containing Portland Cement Cured at Ambient Temperature. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 1263-1271.	1.1	65
26	Properties of pervious concrete containing recycled concrete block aggregate and recycled concrete aggregate. <i>Construction and Building Materials</i> , 2016, 111, 15-21.	7.2	174
27	Influence of recycled aggregate on fly ash geopolymer concrete properties. <i>Journal of Cleaner Production</i> , 2016, 112, 2300-2307.	9.3	217
28	Properties of pervious concrete containing high-calcium fly ash. <i>Computers and Concrete</i> , 2016, 17, 337-351.	0.7	13
29	Bioactivity enhancement of calcined kaolin geopolymer with CaCl ₂ treatment. <i>ScienceAsia</i> , 2016, 42, 407.	0.5	12
30	Mechanical and Thermal Properties of Recycling Lightweight Pervious Concrete. <i>Arabian Journal for Science and Engineering</i> , 2015, 40, 443-450.	1.1	30
31	Apatite formation on calcined kaolin white Portland cement geopolymer. <i>Materials Science and Engineering C</i> , 2015, 51, 1-6.	7.3	37
32	Use of coal ash as geopolymer binder and coarse aggregate in pervious concrete. <i>Construction and Building Materials</i> , 2015, 96, 289-295.	7.2	65
33	High calcium fly ash geopolymer mortar containing Portland cement for use as repair material. <i>Construction and Building Materials</i> , 2015, 98, 482-488.	7.2	187
34	Setting Time, Strength, and Bond of High-Calcium Fly Ash Geopolymer Concrete. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	2.9	189
35	The effect of adding nano-SiO ₂ and nano-Al ₂ O ₃ on properties of high calcium fly ash geopolymer cured at ambient temperature. <i>Materials & Design</i> , 2014, 55, 58-65.	5.1	328
36	Influence of curing conditions on properties of high calcium fly ash geopolymer containing Portland cement as additive. <i>Materials & Design</i> , 2014, 53, 269-274.	5.1	233

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37	Effects of NaOH concentrations on physical and electrical properties of high calcium fly ash geopolymer paste. <i>Cement and Concrete Composites</i> , 2014, 45, 9-14.	10.7	305
38	Investigation of properties of lightweight concrete with calcined diatomite aggregate. <i>KSCE Journal of Civil Engineering</i> , 2014, 18, 1429-1435.	1.9	11
39	Lightweight geopolymer concrete containing aggregate from recycle lightweight block. <i>Materials & Design</i> , 2013, 52, 580-586.	5.1	146
40	Use of lightweight aggregates in pervious concrete. <i>Construction and Building Materials</i> , 2013, 48, 585-591.	7.2	112
41	Properties of pervious geopolymer concrete using recycled aggregates. <i>Construction and Building Materials</i> , 2013, 42, 33-39.	7.2	179
42	Properties of high calcium fly ash geopolymer pastes with Portland cement as an additive. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 214-220.	4.9	85
43	Pressed lightweight concrete containing calcined diatomite aggregate. <i>Construction and Building Materials</i> , 2013, 47, 896-901.	7.2	49
44	High-Calcium Bottom Ash Geopolymer: Sorptivity, Pore Size, and Resistance to Sodium Sulfate Attack. <i>Journal of Materials in Civil Engineering</i> , 2013, 25, 105-111.	2.9	69
45	Effect of W/B ratios on pozzolanic reaction of biomass ashes in Portland cement matrix. <i>Cement and Concrete Composites</i> , 2012, 34, 94-100.	10.7	72
46	Resistance of lignite bottom ash geopolymer mortar to sulfate and sulfuric acid attack. <i>Cement and Concrete Composites</i> , 2012, 34, 700-708.	10.7	276
47	Improved geopolymerization of bottom ash by incorporating fly ash and using waste gypsum as additive. <i>Cement and Concrete Composites</i> , 2012, 34, 819-824.	10.7	127
48	Pervious high-calcium fly ash geopolymer concrete. <i>Construction and Building Materials</i> , 2012, 30, 366-371.	7.2	156
49	The effects of replacement fly ash with diatomite in geopolymer mortar. <i>Computers and Concrete</i> , 2012, 9, 427-437.	0.7	20
50	Microstructure and strength of blended FBC-PCC fly ash geopolymer containing gypsum as an additive. <i>ScienceAsia</i> , 2012, 38, 175.	0.5	15
51	Effects of binder and CaCl ₂ contents on the strength of calcium carbide residue-fly ash concrete. <i>Cement and Concrete Composites</i> , 2011, 33, 436-443.	10.7	56
52	Efficiency factor of high calcium Class F fly ash in concrete. <i>Computers and Concrete</i> , 2011, 8, 583-595.	0.7	3
53	Compressive Strength and Heat Evolution of Concretes Containing Palm Oil Fuel Ash. <i>Journal of Materials in Civil Engineering</i> , 2010, 22, 1033-1038.	2.9	59
54	Influence of pozzolan from various by-product materials on mechanical properties of high-strength concrete. <i>Construction and Building Materials</i> , 2007, 21, 1589-1598.	7.2	315

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55	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
56	Utilization of Palm Oil Fuel Ash in High-Strength Concrete. Journal of Materials in Civil Engineering, 2004, 16, 623-628.	2.9	191
57	Use of Recycled Concrete Aggregate in High-Calcium Fly Ash Geopolymer Concrete. Key Engineering Materials, 0, 718, 163-168.	0.4	5
58	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
59	Lightweight Geopolymer Concrete Containing Recycled Plastic Beads. Key Engineering Materials, 0, 801, 377-384.	0.4	12