

Kim Hung Mo

List of Publications by Year in descending order

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Version: 2024-02-01

120
papers

5,628
citations

61945

43
h-index

85498

71
g-index

120
all docs

120
docs citations

120
times ranked

3770
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of thermal conductivity, mechanical and transport properties of lightweight aggregate foamed geopolymer concrete. <i>Energy and Buildings</i> , 2014, 72, 238-245.	3.1	307
2	Incorporation of nano-materials in cement composite and geopolymer based paste and mortar – A review. <i>Construction and Building Materials</i> , 2017, 148, 62-84.	3.2	209
3	A review on microstructural study and compressive strength of geopolymer mortar, paste and concrete. <i>Construction and Building Materials</i> , 2018, 186, 550-576.	3.2	202
4	Recycling of seashell waste in concrete: A review. <i>Construction and Building Materials</i> , 2018, 162, 751-764.	3.2	177
5	Green concrete partially comprised of farming waste residues: a review. <i>Journal of Cleaner Production</i> , 2016, 117, 122-138.	4.6	171
6	A critical review of waste glass powder – Multiple roles of utilization in cement-based materials and construction products. <i>Journal of Environmental Management</i> , 2019, 242, 440-449.	3.8	162
7	Potential use of brick waste as alternate concrete-making materials: A review. <i>Journal of Cleaner Production</i> , 2018, 195, 226-239.	4.6	154
8	Recycling of wastes for value-added applications in concrete blocks: An overview. <i>Resources, Conservation and Recycling</i> , 2018, 138, 298-312.	5.3	138
9	A review of microencapsulated and composite phase change materials: Alteration of strength and thermal properties of cement-based materials. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 110, 467-484.	8.2	135
10	Mechanical and fresh properties of sustainable oil palm shell lightweight concrete incorporating palm oil fuel ash. <i>Journal of Cleaner Production</i> , 2016, 115, 307-314.	4.6	132
11	Flexural toughness characteristics of steel–polypropylene hybrid fibre-reinforced oil palm shell concrete. <i>Materials & Design</i> , 2014, 57, 652-659.	5.1	128
12	Lightweight foamed concrete as a promising avenue for incorporating waste materials: A review. <i>Resources, Conservation and Recycling</i> , 2021, 164, 105103.	5.3	126
13	Functions and impacts of plastic/rubber wastes as eco-friendly aggregate in concrete – A review. <i>Construction and Building Materials</i> , 2020, 240, 117869.	3.2	124
14	Comparative Study of Lightweight Cementitious Composite Reinforced with Different Fibre Types and the Effect of Silane-Based Admixture. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-10.	0.4	122
15	Structural performance of reinforced geopolymer concrete members: A review. <i>Construction and Building Materials</i> , 2016, 120, 251-264.	3.2	113
16	Characterization of pervious concrete with blended natural aggregate and recycled concrete aggregates. <i>Journal of Cleaner Production</i> , 2018, 181, 155-165.	4.6	112
17	Quality Improvement Techniques for Recycled Concrete Aggregate: A review. <i>Journal of Advanced Concrete Technology</i> , 2019, 17, 151-167.	0.8	105
18	Current development of geopolymer as alternative adsorbent for heavy metal removal. <i>Environmental Technology and Innovation</i> , 2020, 18, 100684.	3.0	102

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19	Impact resistance of hybrid fibre-reinforced oil palm shell concrete. <i>Construction and Building Materials</i> , 2014, 50, 499-507.	3.2	99
20	Microstructural investigations of palm oil fuel ash and fly ash based binders in lightweight aggregate foamed geopolymer concrete. <i>Construction and Building Materials</i> , 2016, 120, 112-122.	3.2	96
21	Feasibility study of high volume slag as cement replacement for sustainable structural lightweight oil palm shell concrete. <i>Journal of Cleaner Production</i> , 2015, 91, 297-304.	4.6	88
22	Biomass ashes from agricultural wastes as supplementary cementitious materials or aggregate replacement in cement/geopolymer concrete: A comprehensive review. <i>Journal of Building Engineering</i> , 2021, 40, 102332.	1.6	88
23	Durability properties of sustainable concrete containing high volume palm oil waste materials. <i>Journal of Cleaner Production</i> , 2016, 137, 167-177.	4.6	87
24	Overview of supplementary cementitious materials usage in lightweight aggregate concrete. <i>Construction and Building Materials</i> , 2017, 139, 403-418.	3.2	81
25	The effect of steel fibres on the enhancement of flexural and compressive toughness and fracture characteristics of oil palm shell concrete. <i>Construction and Building Materials</i> , 2014, 55, 20-28.	3.2	77
26	Valorization of waste powders from cement-concrete life cycle: A pathway to circular future. <i>Journal of Cleaner Production</i> , 2020, 268, 122358.	4.6	77
27	Thermal efficiency and durability performances of paraffinic phase change materials with enhanced thermal conductivity – A review. <i>Thermochimica Acta</i> , 2019, 673, 198-210.	1.2	71
28	Assessing some durability properties of sustainable lightweight oil palm shell concrete incorporating slag and manufactured sand. <i>Journal of Cleaner Production</i> , 2016, 112, 763-770.	4.6	69
29	Bond properties of lightweight concrete – A review. <i>Construction and Building Materials</i> , 2016, 112, 478-496.	3.2	67
30	Enhancement of the mechanical properties of lightweight oil palm shell concrete using rice husk ash and manufactured sand. <i>Journal of Zhejiang University: Science A</i> , 2015, 16, 59-69.	1.3	63
31	Incorporation of expanded vermiculite lightweight aggregate in cement mortar. <i>Construction and Building Materials</i> , 2018, 179, 302-306.	3.2	63
32	Recent advances in artificial aggregate production. <i>Journal of Cleaner Production</i> , 2021, 291, 125215.	4.6	63
33	Effect of aggressive chemicals on durability and microstructure properties of concrete containing crushed new concrete aggregate and non-traditional supplementary cementitious materials. <i>Construction and Building Materials</i> , 2018, 163, 482-495.	3.2	62
34	Hydraulic and strength characteristics of pervious concrete containing a high volume of construction and demolition waste as aggregates. <i>Construction and Building Materials</i> , 2020, 253, 119251.	3.2	61
35	Evaluation of Industrial By-Products as Sustainable Pozzolanic Materials in Recycled Aggregate Concrete. <i>Sustainability</i> , 2017, 9, 767.	1.6	58
36	Waste resources recycling in controlled low-strength material (CLSM): A critical review on plastic properties. <i>Journal of Environmental Management</i> , 2019, 241, 383-396.	3.8	55

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37	CO ₂ sequestration of fresh concrete slurry waste: Optimization of CO ₂ uptake and feasible use as a potential cement binder. <i>Journal of CO₂ Utilization</i> , 2020, 42, 101330.	3.3	55
38	Effect of particle size and CO ₂ treatment of waste cement powder on properties of cement paste. <i>Canadian Journal of Civil Engineering</i> , 2021, 48, 522-531.	0.7	54
39	Effect of water-to-cement ratio induced hydration on the accelerated carbonation of cement pastes. <i>Environmental Pollution</i> , 2021, 280, 116914.	3.7	50
40	Utilization of ground granulated blast furnace slag as partial cement replacement in lightweight oil palm shell concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 2545-2556.	1.3	49
41	Influence of lightweight aggregate on the bond properties of concrete with various strength grades. <i>Construction and Building Materials</i> , 2015, 84, 377-386.	3.2	48
42	Shear behaviour and mechanical properties of steel fibre-reinforced cement-based and geopolymer oil palm shell lightweight aggregate concrete. <i>Construction and Building Materials</i> , 2017, 148, 369-375.	3.2	46
43	CO ₂ Treatment of Hydrated Cement Powder: Characterization and Application Consideration. <i>Journal of Materials in Civil Engineering</i> , 2021, 33, .	1.3	46
44	Enhancement of high temperature performance of cement blocks via CO ₂ curing. <i>Science of the Total Environment</i> , 2019, 671, 827-837.	3.9	45
45	CO ₂ pretreatment of municipal solid waste incineration fly ash and its feasible use as supplementary cementitious material. <i>Journal of Hazardous Materials</i> , 2022, 424, 127457.	6.5	43
46	Viability of agricultural wastes as substitute of natural aggregate in concrete: A review on the durability-related properties. <i>Journal of Cleaner Production</i> , 2020, 275, 123062.	4.6	41
47	Material and structural properties of waste-oil palm shell concrete incorporating ground granulated blast-furnace slag reinforced with low-volume steel fibres. <i>Journal of Cleaner Production</i> , 2016, 133, 414-426.	4.6	40
48	Thermal conductivity, compressive and residual strength evaluation of polymer fibre-reinforced high volume palm oil fuel ash blended mortar. <i>Construction and Building Materials</i> , 2017, 130, 113-121.	3.2	40
49	Mechanical strength and permeation properties of high calcium fly ash-based geopolymer containing recycled brick powder. <i>Journal of Building Engineering</i> , 2020, 32, 101655.	1.6	39
50	Sound absorption performance of modified concrete: A review. <i>Journal of Building Engineering</i> , 2020, 30, 101219.	1.6	39
51	Mechanical properties and drying shrinkage of lightweight cementitious composite incorporating perlite microspheres and polypropylene fibers. <i>Construction and Building Materials</i> , 2020, 246, 118410.	3.2	36
52	Mechanical, toughness, bond and durability-related properties of lightweight concrete reinforced with steel fibres. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017, 50, 1.	1.3	33
53	Contribution of acrylic fibre addition and ground granulated blast furnace slag on the properties of lightweight concrete. <i>Construction and Building Materials</i> , 2015, 95, 686-695.	3.2	32
54	A Review on the Use of Agriculture Waste Material as Lightweight Aggregate for Reinforced Concrete Structural Members. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-9.	1.0	31

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55	Thermal performance of a solar energy storage concrete panel incorporating phase change material aggregates developed for thermal regulation in buildings. <i>Renewable Energy</i> , 2020, 160, 817-829.	4.3	31
56	Strength, Carbon Footprint and Cost Considerations of Mortar Blends with High Volume Ground Granulated Blast Furnace Slag. <i>Sustainability</i> , 2019, 11, 7194.	1.6	30
57	Impact of CO ₂ curing on the microhardness and strength of 0.35 w/c cement paste: Comparative study of internal/surface layers. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11849-11860.	2.6	26
58	Bond stress-slip relationship of oil palm shell lightweight concrete. <i>Engineering Structures</i> , 2016, 127, 319-330.	2.6	25
59	Raman spectroscopy as a tool to understand the mechanism of concrete durability—A review. <i>Construction and Building Materials</i> , 2021, 268, 121079.	3.2	25
60	Green and Sustainable Concrete – The Potential Utilization of Rice Husk Ash and Egg Shells. <i>Civil Engineering Journal (Iran)</i> , 2019, 5, 74.	1.2	25
61	Compressive behaviour of lightweight oil palm shell concrete incorporating slag. <i>Construction and Building Materials</i> , 2015, 94, 263-269.	3.2	24
62	Experimental Investigation on the Properties of Lightweight Concrete Containing Waste Oil Palm Shell Aggregate. <i>Procedia Engineering</i> , 2015, 125, 587-593.	1.2	23
63	Prediction of the structural behaviour of oil palm shell lightweight concrete beams. <i>Construction and Building Materials</i> , 2016, 102, 722-732.	3.2	23
64	Microstructural and Strength Characteristics of High-Strength Mortar Using Nontraditional Supplementary Cementitious Materials. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	1.3	23
65	Investigation of structural characteristics of palm oil clinker based high-strength lightweight concrete comprising steel fibers. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6736-6746.	2.6	23
66	Offsetting strength loss in concrete via ITZ enhancement: From the perspective of utilizing new alternative aggregate. <i>Cement and Concrete Composites</i> , 2022, 127, 104385.	4.6	23
67	Properties of metakaolin-blended oil palm shell lightweight concrete. <i>European Journal of Environmental and Civil Engineering</i> , 2018, 22, 852-868.	1.0	22
68	Development of leak-free phase change material aggregates. <i>Construction and Building Materials</i> , 2020, 230, 117029.	3.2	22
69	Effect of micro-sized silica aerogel on the properties of lightweight cement composite. <i>Construction and Building Materials</i> , 2021, 290, 123229.	3.2	22
70	Mechanical strength and durability performance of autoclaved lime-saline soil brick. <i>Construction and Building Materials</i> , 2017, 146, 403-409.	3.2	21
71	Synthesis of porous geopolymer sphere for Ni(II) removal. <i>Ceramics International</i> , 2021, 47, 29055-29063.	2.3	21
72	Mechanical characteristics and flexural behaviour of fibre-reinforced cementitious composite containing PVA and basalt fibres. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2019, 44, 1.	0.8	20

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73	Understanding the compressive strength degradation mechanism of cement-paste incorporating phase change material. <i>Cement and Concrete Composites</i> , 2021, 124, 104249.	4.6	20
74	Effective utilization of e-waste plastics and glasses in construction products - a review and future research directions. <i>Resources, Conservation and Recycling</i> , 2022, 176, 105936.	5.3	20
75	Sustainable ternary cement blends with high-volume ground granulated blast furnace slag-fly ash. <i>Environment, Development and Sustainability</i> , 2022, 24, 4751-4785.	2.7	17
76	Bond strength evaluation of palm oil fuel ash-based geopolymer normal weight and lightweight concretes with steel reinforcement. <i>Journal of Adhesion Science and Technology</i> , 2018, 32, 19-35.	1.4	16
77	An overview on the properties of eco-friendly concrete paving blocks incorporating selected waste materials as aggregate. <i>Environmental Science and Pollution Research</i> , 2021, 28, 29009-29036.	2.7	16
78	Examining the Influence of Recycled Concrete Aggregate on the Hardened Properties of Self-compacting Concrete. <i>Waste and Biomass Valorization</i> , 2021, 12, 1133-1141.	1.8	15
79	Valorization of Wastes from Power Plant, Steel-Making and Palm Oil Industries as Partial Sand Substitute in Concrete. <i>Waste and Biomass Valorization</i> , 2018, 9, 1645-1654.	1.8	14
80	Alkali-silica reactivity of lightweight aggregate: A brief overview. <i>Construction and Building Materials</i> , 2021, 270, 121444.	3.2	13
81	Eco-mechanical performance of binary and ternary cement blends containing fly ash and slag. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2021, 174, 23-36.	0.4	13
82	Towards an energy efficient cement composite incorporating silica aerogel: A state of the art review. <i>Journal of Building Engineering</i> , 2021, 44, 103227.	1.6	13
83	Optimization of Pervious Geopolymer Concrete Using TOPSIS-Based Taguchi Method. <i>Sustainability</i> , 2022, 14, 8767.	1.6	13
84	Influence of polypropylene fibres on the tensile strength and thermal properties of various densities of foamed concrete. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 271, 012058.	0.3	12
85	Performance of mechanical steel bar splices using grouted couplers under uniaxial tension. <i>Journal of Building Engineering</i> , 2021, 34, 101892.	1.6	12
86	Ductility behaviours of oil palm shell steel fibre-reinforced concrete beams under flexural loading. <i>European Journal of Environmental and Civil Engineering</i> , 2019, 23, 866-878.	1.0	11
87	Development of lightweight aggregate mortar skin layer for an innovative sandwich concrete composite. <i>Journal of Building Engineering</i> , 2020, 27, 100941.	1.6	11
88	High strength oil palm shell concrete beams reinforced with steel fibres. <i>Materiales De Construccion</i> , 2017, 67, 142.	0.2	11
89	Meta-Analysis of the Performance of Pervious Concrete with Cement and Aggregate Replacements. <i>Buildings</i> , 2022, 12, 461.	1.4	11
90	Study on the use of lightweight expanded perlite and vermiculite aggregates in blended cement mortars. <i>European Journal of Environmental and Civil Engineering</i> , 2020, , 1-20.	1.0	9

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91	Relationship between microstructure and performance of polypropylene fibre reinforced cement composites subjected to elevated temperature. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 1792-1806.	1.0	9
92	Synergistic Effect of Pre-carbonated Slurry and Mixing Sequence on the Performance of Self-compacting Recycled Aggregate Modified Mortar. <i>Waste and Biomass Valorization</i> , 2021, 12, 5201-5210.	1.8	9
93	The strength and environmental performance of asphalt mixtures with recycled concrete aggregates. <i>Transportation Research, Part D: Transport and Environment</i> , 2021, 100, 103065.	3.2	9
94	Enhancement of seismic behaviour of precast beam-to-column joints using engineered cementitious composite. <i>Engineering Structures</i> , 2022, 255, 113932.	2.6	9
95	High-temperature CO ₂ for accelerating the carbonation of recycled concrete fines. <i>Journal of Building Engineering</i> , 2022, 52, 104526.	1.6	9
96	Effects of CO ₂ curing treatment on alkali-silica reaction of mortars containing glass aggregate. <i>Construction and Building Materials</i> , 2022, 323, 126637.	3.2	8
97	Investigation on the copper ion removal potential of a facile-fabricated foamed geopolymer sphere for wastewater remediation. <i>Cleaner Materials</i> , 2022, 4, 100088.	1.9	8
98	Waste press mud in enhancing the performance of glass powder blended cement. <i>Construction and Building Materials</i> , 2021, 313, 125469.	3.2	7
99	Behaviour of fibre-reinforced cementitious composite containing high-volume fly ash at elevated temperatures. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2018, 43, 1.	0.8	6
100	Compressive Strength Forecasting of Air-Entrained Rubberized Concrete during the Hardening Process Utilizing Elastic Wave Method. <i>Crystals</i> , 2020, 10, 912.	1.0	6
101	Chemo-physico-mechanical characteristics of high-strength alkali-activated mortar containing non-traditional supplementary cementitious materials. <i>Journal of Building Engineering</i> , 2021, 44, 103368.	1.6	6
102	Properties of Cementitious Repair Materials for Concrete Pavement. <i>Advances in Materials Science and Engineering</i> , 2022, 2022, 1-17.	1.0	6
103	Effects of moulding pressure and w/c induced pore water saturation on the CO ₂ curing efficiency of dry-mix cement blocks. <i>Construction and Building Materials</i> , 2022, 335, 127509.	3.2	6
104	Insights into the Multifaceted Applications of Architectural Concrete: A State-of-the-Art Review. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 4213-4223.	1.7	5
105	Incorporation of crumb rubber and air-entraining agent in ultra-lightweight cementitious composite: Evaluation of mechanical and acoustic properties. <i>Journal of Building Engineering</i> , 2021, 42, 103034.	1.6	5
106	Comparative study on the properties and high temperature resistance of self-compacting concrete with various types of recycled aggregates. <i>Case Studies in Construction Materials</i> , 2021, 15, e00678.	0.8	5
107	A Study of the Strength Performance of Peat Soil: A Modified Cement-Based Stabilization Agent Using Fly Ash and Polypropylene Fiber. <i>Polymers</i> , 2021, 13, 4059.	2.0	5
108	Upcycling of waste hydrated cement paste containing high-volume supplementary cementitious materials via CO ₂ pre-treatment. <i>Journal of Building Engineering</i> , 2022, 52, 104396.	1.6	5

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109	Recycling Bayer and sintering red muds in brick production: a review. <i>Journal of Zhejiang University: Science A</i> , 2022, 23, 335-357.	1.3	5
110	Effect of basalt and polypropylene fibers on crumb rubber mortar with Portland cement and calcium aluminate cement binders: Strength and artificial neural network prediction model. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2022, 38, 99-124.	0.8	3
111	The Evaluation of Geotube Behaviors on Muddy Beach: Field Monitoring and Numerical Analysis. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 4185-4193.	0.9	2
112	Utilization of coal fly ash and bottom ash in brick and block products. , 2022, , 355-371.		2
113	Impacts of polyvinyl alcohol and basalt fibres on green fly ash cenosphere lightweight cementitious composite. <i>Materials Today: Proceedings</i> , 2022, 61, 512-516.	0.9	2
114	The Potential of Geopolymer in Development of Green Coating Materials: A Review. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 12289-12299.	1.7	2
115	Use of phase change materials in nano-concrete for energy savings. , 2020, , 351-381.		1
116	Experimental Study on Clay Brick Masonry Assemblies Strengthened with Basalt Textile Reinforced Mortar. <i>Journal of Testing and Evaluation</i> , 2020, 48, 3312-3323.	0.4	1
117	Compressive Behaviour of Polyacrylonitrile Fibre Reinforced Lightweight Aggregate Concrete Composite. <i>Advanced Materials Research</i> , 2015, 1115, 188-191.	0.3	0
118	Autoclaved Lime-Saline Soil Products: Reactivity Assessments and Effects of Quartz Sand. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, 04018055.	1.3	0
119	High calcium fly ash geopolymer for application in textile reinforced mortar. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	0
120	Aerogel and expanded perlite incorporated lightweight cementitious composites containing crushed glass: Evaluation of the drying shrinkage and alkali-silica expansion. <i>Science Progress</i> , 2022, 105, 003685042210911.	1.0	0