

# Hong Wong

## List of Publications by Year in descending order

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85  
papers

5,778  
citations

71004

43  
h-index

84171

75  
g-index

86  
all docs

86  
docs citations

86  
times ranked

4097  
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-time monitoring of carbonation of hardened cement pastes using Raman microscopy. <i>Journal of Microscopy</i> , 2022, 286, 126-133.	0.8	7
2	Analysis of cement paste and aggregate content of concrete using micro X-ray fluorescence. <i>Magazine of Concrete Research</i> , 2022, 74, 889-904.	0.9	2
3	Methods for characterising the steel-concrete interface to enhance understanding of reinforcement corrosion: a critical review by RILEM TC 262-SCI. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, 1.	1.3	7
4	Effect of simulated hygrothermal environment on the flexural and interlaminar shear strength of particulate-filled epoxy-coated GFRP composites. <i>Construction and Building Materials</i> , 2022, 339, 127687.	3.2	10
5	Optimising confocal Raman microscopy for spectral mapping of cement-based materials. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, 1.	1.3	3
6	Low-carbon cements: Potential for low-grade calcined clays to form supplementary cementitious materials. <i>Cleaner Materials</i> , 2022, 5, 100099.	1.9	12
7	Developing circular concrete: Acid treatment of waste concrete fines. <i>Journal of Cleaner Production</i> , 2022, 365, 132615.	4.6	2
8	Graphene coated sand for smart cement composites. <i>Construction and Building Materials</i> , 2022, 346, 128313.	3.2	26
9	High-strength clogging resistant permeable pavement. <i>International Journal of Pavement Engineering</i> , 2021, 22, 271-282.	2.2	40
10	3D imaging techniques for characterising microcracks in cement-based materials. <i>Cement and Concrete Research</i> , 2021, 140, 106309.	4.6	21
11	Static behaviour of glass fibre reinforced novel composite sleepers for mainline railway track. <i>Engineering Structures</i> , 2021, 229, 111627.	2.6	58
12	Synergistic effects of hygrothermal conditions and solar ultraviolet radiation on the properties of structural particulate-filled epoxy polymer coatings. <i>Construction and Building Materials</i> , 2021, 277, 122336.	3.2	20
13	Analysis of autogenous shrinkage-induced microcracks in concrete from 3D images. <i>Cement and Concrete Research</i> , 2021, 144, 106416.	4.6	29
14	Bending and Shear Behaviour of Waste Rubber Concrete-Filled FRP Tubes with External Flanges. <i>Polymers</i> , 2021, 13, 2500.	2.0	9
15	Investigation on the physical, mechanical and microstructural properties of epoxy polymer matrix with crumb rubber and short fibres for composite railway sleepers. <i>Construction and Building Materials</i> , 2021, 295, 123700.	3.2	39
16	Improving bond strength and mass transport properties of spacer-concrete interface with textured spacers. <i>Materials and Structures/Materiaux Et Constructions</i> , 2021, 54, 1.	1.3	0
17	Failure analysis and the effect of material properties on the screw pull-out behaviour of polymer composite sleeper materials. <i>Engineering Failure Analysis</i> , 2021, 128, 105577.	1.8	9
18	Recycling of landfill wastes (tyres, plastics and glass) in construction – A review on global waste generation, performance, application and future opportunities. <i>Resources, Conservation and Recycling</i> , 2021, 173, 105745.	5.3	216

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19	Influence of supplementary cementitious materials on microstructure and transport properties of spacer-concrete interface. <i>Cement and Concrete Research</i> , 2021, 149, 106561.	4.6	8
20	Effect of autogenous shrinkage on microcracking and mass transport properties of concrete containing supplementary cementitious materials. <i>Cement and Concrete Research</i> , 2021, 150, 106611.	4.6	20
21	Structural and hydrological design of permeable concrete pavements. <i>Case Studies in Construction Materials</i> , 2021, 15, e00564.	0.8	18
22	Roles of Waste Glass and the Effect of Process Parameters on the Properties of Sustainable Cement and Geopolymer Concrete—A State-of-the-Art Review. <i>Polymers</i> , 2021, 13, 3935.	2.0	15
23	Optimal design for epoxy polymer concrete based on mechanical properties and durability aspects. <i>Construction and Building Materials</i> , 2020, 232, 117229.	3.2	92
24	Effects of ultraviolet solar radiation on the properties of particulate-filled epoxy based polymer coating. <i>Polymer Degradation and Stability</i> , 2020, 181, 109352.	2.7	44
25	Microscopy techniques for determining water/cement (w/c) ratio in hardened concrete: a round-robin assessment. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	1.3	5
26	Ageing of particulate-filled epoxy resin under hygrothermal conditions. <i>Construction and Building Materials</i> , 2020, 249, 118846.	3.2	38
27	Combined effects of vertical spacers and segregation on mass transport properties of reinforced concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2020, 53, 1.	1.3	6
28	The effect of the steel-concrete interface on chloride-induced corrosion initiation in concrete: a critical review by RILEM TC 262-SCI. <i>Materials and Structures/Materiaux Et Constructions</i> , 2019, 52, 1.	1.3	98
29	Effect of elevated in-service temperature on the mechanical properties and microstructure of particulate-filled epoxy polymers. <i>Polymer Degradation and Stability</i> , 2019, 170, 108994.	2.7	40
30	New advancements, challenges and opportunities of multi-storey modular buildings – A state-of-the-art review. <i>Engineering Structures</i> , 2019, 183, 883-893.	2.6	345
31	3D pore structure and mass transport properties of blended cementitious materials. <i>Cement and Concrete Research</i> , 2019, 117, 23-37.	4.6	46
32	Anomalous water absorption in cement-based materials caused by drying shrinkage induced microcracks. <i>Cement and Concrete Research</i> , 2019, 115, 90-104.	4.6	47
33	Effect of alkalinity and calcium concentration of pore solution on the swelling and ionic exchange of superabsorbent polymers in cement paste. <i>Cement and Concrete Composites</i> , 2018, 88, 150-164.	4.6	109
34	Flexural and shear behaviour of layered sandwich beams. <i>Construction and Building Materials</i> , 2018, 173, 429-442.	3.2	54
35	Evaluation of an Innovative Composite Railway Sleeper for a Narrow-Gauge Track under Static Load. <i>Journal of Composites for Construction</i> , 2018, 22, .	1.7	48
36	Modular assembly of water-retaining walls using GFRP hollow profiles: Components and connection performance. <i>Composite Structures</i> , 2018, 194, 1-11.	3.1	44

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37	Effect of fire-retardant ceram powder on the properties of phenolic-based GFRP composites. Composites Part B: Engineering, 2018, 155, 414-424.	5.9	37
38	Performance of Limestone Calcined Clay Cement (LC3) with various kaolinite contents with respect to chloride transport. Materials and Structures/Materiaux Et Constructions, 2018, 51, 1.	1.3	112
39	Defining clogging potential for permeable concrete. Journal of Environmental Management, 2018, 220, 44-53.	3.8	43
40	Wick action in mature mortars with binary cements containing slag or silica fume – The relation between chloride and moisture transport properties under non-saturated conditions. Cement and Concrete Research, 2018, 111, 94-103.	4.6	12
41	Short-term flexural behaviour of concrete filled pultruded GFRP cellular and tubular sections with pin-eye connections for modular retaining wall construction. Composite Structures, 2018, 206, 1-10.	3.1	46
42	Clogging in permeable concrete: A review. Journal of Environmental Management, 2017, 193, 221-233.	3.8	163
43	Effect of beam orientation on the static behaviour of phenolic core sandwich composites with different shear span-to-depth ratios. Composite Structures, 2017, 168, 292-304.	3.1	31
44	The steel–concrete interface. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	1.3	170
45	Bond behaviour of composite sandwich panel and epoxy polymer matrix: Taguchi design of experiments and theoretical predictions. Construction and Building Materials, 2017, 145, 76-87.	3.2	56
46	Transport properties of concrete after drying-wetting regimes to elucidate the effects of moisture content, hysteresis and microcracking. Cement and Concrete Research, 2017, 98, 136-154.	4.6	108
47	Representative elementary volume (REV) of cementitious materials from three-dimensional pore structure analysis. Cement and Concrete Research, 2017, 102, 187-202.	4.6	39
48	Sustainable infrastructure development through use of calcined excavated waste clay as a supplementary cementitious material. Journal of Cleaner Production, 2017, 168, 1180-1192.	4.6	95
49	Simulating the effect of microcracks on the diffusivity and permeability of concrete using a three-dimensional model. Computational Materials Science, 2016, 119, 130-143.	1.4	61
50	3D Monte Carlo simulation of backscattered electron signal variation across pore-solid boundaries in cement-based materials. Cement and Concrete Research, 2016, 89, 320-331.	4.6	23
51	Properties of epoxy polymer concrete matrix: Effect of resin-to-filler ratio and determination of optimal mix for composite railway sleepers. Construction and Building Materials, 2016, 124, 287-300.	3.2	76
52	Influence of reinforcement spacers on mass transport properties and durability of concrete structures. Cement and Concrete Research, 2016, 87, 31-44.	4.6	17
53	Self-sealing of cracks in concrete using superabsorbent polymers. Cement and Concrete Research, 2016, 79, 194-208.	4.6	188
54	3D imaging of cement-based materials at submicron resolution by combining laser scanning confocal microscopy with serial sectioning. Journal of Microscopy, 2015, 258, 151-169.	0.8	47

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55	Modelling the Effect of Microcracks on the Transport Properties of Concrete in Three Dimensions. , 2015, , .		1
56	Hydrophobic concrete using waste paper sludge ash. Cement and Concrete Research, 2015, 70, 9-20.	4.6	171
57	Composite railway sleepers â€œ Recent developments, challenges and future prospects. Composite Structures, 2015, 134, 158-168.	3.1	116
58	Influence of drying-induced microcracking and related size effects on mass transport properties of concrete. Cement and Concrete Research, 2015, 68, 35-48.	4.6	116
59	Effect of confining pressure and microcracks on mass transport properties of concrete. Advances in Applied Ceramics, 2014, 113, 485-495.	0.6	15
60	Determining the slag fraction, water/binder ratio and degree of hydration in hardened cement pastes. Cement and Concrete Research, 2014, 56, 171-181.	4.6	51
61	Computational investigation of capillary absorption in concrete using a three-dimensional mesoscale approach. Computational Materials Science, 2014, 87, 54-64.	1.4	61
62	Modelling the diffusivity of mortar and concrete using a three-dimensional mesostructure with several aggregate shapes. Computational Materials Science, 2013, 78, 63-73.	1.4	159
63	Estimating the original cement content and waterâ€œcement ratio of Portland cement concrete and mortar using backscattered electron microscopy. Magazine of Concrete Research, 2013, 65, 693-706.	0.9	25
64	Estimating the permeability of cement pastes and mortars using image analysis and effective medium theory. Cement and Concrete Research, 2012, 42, 476-483.	4.6	57
65	Comparison of uniform and non-uniform corrosion induced damage in reinforced concrete based on a Gaussian description of the corrosion layer. Corrosion Science, 2011, 53, 2803-2814.	3.0	118
66	Effect of entrained air voids on the microstructure and mass transport properties of concrete. Cement and Concrete Research, 2011, 41, 1067-1077.	4.6	133
67	Influence of aggregate size and volume fraction on shrinkage induced micro-cracking of concrete and mortar. Cement and Concrete Research, 2010, 40, 85-93.	4.6	158
68	Potential of superabsorbent polymer for self-sealing cracks in concrete. Advances in Applied Ceramics, 2010, 109, 296-302.	0.6	147
69	On the penetration of corrosion products from reinforcing steel into concrete due to chloride-induced corrosion. Corrosion Science, 2010, 52, 2469-2480.	3.0	208
70	Influence of the interfacial transition zone and microcracking on the diffusivity, permeability and sorptivity of cement-based materials after drying. Magazine of Concrete Research, 2009, 61, 571-589.	0.9	202
71	Assessing the influence of ITZ on the steady-state chloride diffusivity of concrete using a numerical model. Cement and Concrete Research, 2009, 39, 805-813.	4.6	104
72	Determining the waterâ€œcement ratio, cement content, water content and degree of hydration of hardened cement paste: Method development and validation on paste samples. Cement and Concrete Research, 2009, 39, 957-965.	4.6	114

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73	Characterising aggregate surface geometry in thin-sections of mortar and concrete. Cement and Concrete Research, 2008, 38, 1227-1231.	4.6	19
74	Mass transport properties of mature wasteform grouts. Advances in Cement Research, 2007, 19, 35-46.	0.7	25
75	Euclidean Distance Mapping for computing microstructural gradients at interfaces in composite materials. Cement and Concrete Research, 2006, 36, 1091-1097.	4.6	52
76	Pore segmentation of cement-based materials from backscattered electron images. Cement and Concrete Research, 2006, 36, 1083-1090.	4.6	323
77	Characterisation of "Hadley"™ grains by confocal microscopy. Cement and Concrete Research, 2006, 36, 1483-1489.	4.6	18
78	Reply to the discussion by Sidney Diamond of the paper "Patch microstructure in cement-based materials: Fact or artefact?". Cement and Concrete Research, 2006, 36, 1002-1003.	4.6	4
79	Patch microstructure in cement-based materials: Fact or artefact?. Cement and Concrete Research, 2006, 36, 990-997.	4.6	61
80	Monte Carlo simulation of electron-solid interactions in cement-based materials. Cement and Concrete Research, 2006, 36, 1076-1082.	4.6	46
81	Estimating transport properties of mortars using image analysis on backscattered electron images. Cement and Concrete Research, 2006, 36, 1556-1566.	4.6	64
82	CHARACTERISING THE PORE STRUCTURE OF CEMENT-BASED MATERIALS USING BACKSCATTERED ELECTRON AND CONFOCAL MICROSCOPY. , 2006, , 495-502.		4
83	Strength estimation model for high-strength concrete incorporating metakaolin and silica fume. Cement and Concrete Research, 2005, 35, 688-695.	4.6	67
84	Efficiency of calcined kaolin and silica fume as cement replacement material for strength performance. Cement and Concrete Research, 2005, 35, 696-702.	4.6	158
85	Near surface characteristics of concrete containing supplementary cementing materials. Cement and Concrete Composites, 2004, 26, 883-889.	4.6	69