

# Pui Lam Ng

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

1,039  
citations

471061

17  
h-index

454577

30  
g-index

72  
all docs

72  
docs citations

72  
times ranked

776  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental characterization of the self-healing capacity of cement based materials and its effects on the material performance: A state of the art report by COST Action SARCOS WG2. <i>Construction and Building Materials</i> , 2018, 167, 115-142.	3.2	183
2	Cementing efficiencies and synergistic roles of silica fume and nano-silica in sulphate and chloride resistance of concrete. <i>Construction and Building Materials</i> , 2019, 223, 965-975.	3.2	49
3	Effects of superfine zeolite on strength, flowability and cohesiveness of cementitious paste. <i>Cement and Concrete Composites</i> , 2017, 83, 101-110.	4.6	48
4	Lowering cement content in mortar by adding superfine zeolite as cement replacement and optimizing mixture proportions. <i>Journal of Cleaner Production</i> , 2019, 210, 66-76.	4.6	48
5	Roles of packing density and slurry film thickness in synergistic effects of metakaolin and silica fume. <i>Powder Technology</i> , 2021, 387, 575-583.	2.1	46
6	Effects of fines content on packing density of fine aggregate in concrete. <i>Construction and Building Materials</i> , 2014, 61, 270-277.	3.2	45
7	Ternary blending with metakaolin and silica fume to improve packing density and performance of binder paste. <i>Construction and Building Materials</i> , 2020, 252, 119031.	3.2	41
8	Adding granite polishing waste as sand replacement to improve packing density, rheology, strength and impermeability of mortar. <i>Powder Technology</i> , 2020, 364, 404-415.	2.1	38
9	Packing and film thickness theories for the mix design of high-performance concrete. <i>Journal of Zhejiang University: Science A</i> , 2016, 17, 759-781.	1.3	35
10	Mechanical Behavior of Steel Fiber-Reinforced Concrete Beams Bonded with External Carbon Fiber Sheets. <i>Materials</i> , 2017, 10, 666.	1.3	33
11	Tension stiffening in concrete beams. Part 1: FE analysis. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2010, 163, 19-28.	0.4	31
12	Synergistic cementing efficiencies of nano-silica and micro-silica in carbonation resistance and sorptivity of concrete. <i>Journal of Building Engineering</i> , 2021, 33, 101862.	1.6	30
13	Effects of traffic vibration on curing concrete stitch: Part II – cracking, debonding and strength reduction. <i>Engineering Structures</i> , 2007, 29, 2881-2892.	2.6	24
14	Production of High-performance Concrete by Addition of Fly Ash Microsphere and Condensed Silica Fume. <i>Procedia Engineering</i> , 2017, 172, 165-171.	1.2	22
15	Use of superfine zeolite in conjunction with silica fume – Effects on rheology and strength of cementitious paste. <i>Powder Technology</i> , 2018, 328, 75-83.	2.1	20
16	Effects of traffic vibration on curing concrete stitch: Part I – test method and control program. <i>Engineering Structures</i> , 2007, 29, 2871-2880.	2.6	18
17	Strengthening of Fibre Reinforced Concrete Elements: Synergy of the Fibres and External Sheet. <i>Sustainability</i> , 2019, 11, 4456.	1.6	18
18	Adding granite polishing waste to reduce sand and cement contents and improve performance of mortar. <i>Journal of Cleaner Production</i> , 2021, 279, 123653.	4.6	18

#	ARTICLE	IF	CITATIONS
19	Packing optimization of paste and aggregate phases for sustainability and performance improvement of concrete. <i>Advanced Powder Technology</i> , 2021, 32, 987-997.	2.0	18
20	Experimental and numerical analysis of strain gradient in tensile concrete prisms reinforced with multiple bars. <i>Construction and Building Materials</i> , 2018, 187, 572-583.	3.2	17
21	Adding limestone fines, fly ash and silica fume to reduce heat generation of concrete. <i>Magazine of Concrete Research</i> , 2013, 65, 865-877.	0.9	15
22	Modelling dowel action of discrete reinforcing bars for finite element analysis of concrete structures. <i>Computers and Concrete</i> , 2013, 12, 19-36.	0.7	14
23	Cement Equivalence of Metakaolin for Workability, Cohesiveness, Strength and Sorptivity of Concrete. <i>Materials</i> , 2020, 13, 1646.	1.3	13
24	Meso-scale modelling of stress effect on chloride diffusion in concrete using three-phase composite sphere model. <i>Materials and Structures/Materiaux Et Constructions</i> , 2019, 52, 1.	1.3	12
25	Deformation analysis of fibre-reinforced polymer reinforced concrete beams by tension-stiffening approach. <i>Composite Structures</i> , 2020, 234, 111664.	3.1	12
26	MODELLING CHLORIDE DIFFUSION IN CONCRETE WITH INFLUENCE OF CONCRETE STRESS STATE. <i>Journal of Civil Engineering and Management</i> , 2017, 23, 955-965.	1.9	11
27	Tension stiffening approach for deformation assessment of flexural reinforced concrete members under compressive axial load. <i>Structural Concrete</i> , 2019, 20, 2056-2068.	1.5	11
28	Shrinkage of Hong Kong granite aggregate concrete. <i>Magazine of Concrete Research</i> , 2010, 62, 115-126.	0.9	9
29	PREDICTING CRACK SPACING OF REINFORCED CONCRETE TENSION MEMBERS USING STRAIN COMPLIANCE APPROACH WITH DEBONDING. <i>Journal of Civil Engineering and Management</i> , 2019, 25, 422-430.	1.9	9
30	Reducing damage to concrete stitches in bridge decks. <i>Proceedings of the Institution of Civil Engineers: Bridge Engineering</i> , 2006, 159, 53-62.	0.3	8
31	Tension stiffening in concrete beams. Part 2: member analysis. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2010, 163, 29-39.	0.4	8
32	Experimental Study of Low Temperature Performance of Porous Asphalt Mixture. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4029.	1.3	8
33	Rheology of Mortar and its Influences on Performance of Self-Consolidating Concrete. <i>Key Engineering Materials</i> , 2008, 400-402, 421-426.	0.4	7
34	Effects of Concrete-to-Reinforcement Bond and Loading Conditions on Tension Stiffening. <i>Procedia Engineering</i> , 2011, 14, 704-714.	1.2	7
35	Investigation and Improvement of Bond Performance of Synthetic Macro-Fibres in Concrete. <i>Materials</i> , 2020, 13, 5688.	1.3	7
36	Experimental Investigation of Tension Stiffening in RC Ties. <i>Advances in Materials Science and Engineering</i> , 2016, 2016, 1-8.	1.0	6

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37	EFFECT OF CONCRETE STRESS STATES ON CARBONATION DEPTH OF CONCRETE. Journal of Civil Engineering and Management, 2019, 25, 518-530.	1.9	6
38	Remnant creep based visco-elastic model for concrete creep analysis. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2015, 168, 3-14.	0.4	5
39	A rigorous analytical model for shrinkage cracking of reinforced concrete. Magazine of Concrete Research, 2017, 69, 120-133.	0.9	5
40	Flexural Behavior of Reinforced Concrete Beams Strengthened by Textile Reinforced Magnesium Potassium Phosphate Cement Mortar. Frontiers in Materials, 2020, 7, .	1.2	5
41	Influences of fiber length and water film thickness on fresh properties of basalt fiber-reinforced mortar. Journal of Zhejiang University: Science A, 2021, 22, 344-356.	1.3	5
42	Improving Concrete Durability for Sewerage Applications. Lecture Notes in Mechanical Engineering, 2015, , 1043-1053.	0.3	5
43	Shrinkage movement analysis of reinforced concrete floors constructed in stages. Computers and Concrete, 2009, 6, 167-185.	0.7	5
44	EVALUATION OF ECOLOGICAL CONCRETE USING MULTI-CRITERIA ECOLOGICAL INDEX AND PERFORMANCE INDEX APPROACH. Architecture Civil Engineering Environment, 2019, 12, 97-107.	0.6	5
45	Analysis of Non-Uniform Shrinkage Effect in Box Girder Sections for Long-Span Continuous Rigid Frame Bridge. Baltic Journal of Road and Bridge Engineering, 2018, 13, 146-155.	0.4	5
46	Early Age Temperature Rise and Thermal Stresses Induced in Concrete Bridge Pier. Advanced Materials Research, 0, 163-167, 2731-2737.	0.3	4
47	Adiabatic Temperature Rise of Condensed Silica Fume (CSF) Concrete. Advanced Materials Research, 0, 261-263, 788-795.	0.3	4
48	Semi-adiabatic Curing Test with Heat Loss Compensation for Evaluation of Adiabatic Temperature Rise of Concrete. HKIE Transactions, 2012, 19, 11-19.	1.9	4
49	Adiabatic Temperature Rise of Concrete with Limestone Fines Added as a Filler. Procedia Engineering, 2017, 172, 768-775.	1.2	4
50	Building Diagnostic Techniques and Building Diagnosis: The Way Forward. Lecture Notes in Mechanical Engineering, 2015, , 849-862.	0.3	4
51	Modelling Dowel Action of Discrete Reinforcing Bars in Cracked Concrete Structures. AIP Conference Proceedings, 2010, , .	0.3	3
52	Adiabatic Temperature Rise of Pulverized Fuel Ash (PFA) Concrete. Advanced Materials Research, 0, 168-170, 570-577.	0.3	3
53	Mesoscopic analysis of Crack Propagation in Concrete by Nonlinear Finite Element Method with Crack Queuing Algorithm. Procedia Engineering, 2017, 172, 620-627.	1.2	3
54	Development of Tunnel Dismantling Machine (TDM) in an Underground Railway Project. Procedia Engineering, 2017, 189, 560-568.	1.2	3

#	ARTICLE	IF	CITATIONS
55	Role of reinforcement couplers in serviceability performance of concrete members. IOP Conference Series: Materials Science and Engineering, 2017, 251, 012103.	0.3	3
56	Tension-stiffening behaviour of reinforced concrete ties of various strength classes. , 2015, , .		3
57	Crack analysis of concrete beams based on pseudo-discrete crack model. , 2015, , .		3
58	Adiabatic Temperature Rise of Incompletely Hydrated Cement Concrete. Key Engineering Materials, 2008, 400-402, 157-162.	0.4	2
59	Improving Particle Size Distribution in Cement Paste by Blending with Superfine Cement. Journal of Sustainable Architecture and Civil Engineering, 2016, 16, .	0.3	2
60	Concurrent paste replacement and aggregate replacement strategy for producing eco-efficient and low-carbon concrete. Clean Technologies and Environmental Policy, 2022, 24, 2459-2477.	2.1	2
61	Practical Determination of Prestress Tendon Profile by Load-balancing Method. HKIE Transactions, 2006, 13, 27-35.	1.9	1
62	Yield Line Analysis of Reinforced Concrete Slabs with Openings by Dip and Strike Angles Method. Advances in Structural Engineering, 2013, 16, 1223-1233.	1.2	1
63	NONLINEAR MULTILEVEL ANALYSIS OF REINFORCED CONCRETE FRAMES. Engineering Structures and Technologies, 2016, 7, 168-176.	0.2	1
64	Strategies for improving dimensional stability of concrete. Canadian Journal of Civil Engineering, 2016, 43, 875-885.	0.7	1
65	Effects of Micro-silica and Nano-silica on Fresh Properties of Mortar. Medziagotyra, 2017, 23, .	0.1	1
66	Effects of Crushed Oyster Shell on Strength and Durability of Marine Concrete Containing Fly Ash and Blastfurnace Slag. Medziagotyra, 2019, 25, .	0.1	1
67	Multi-Layer Visco-Elastic Creep Model for Time-Dependent Analysis of Concrete Structures. , 0, , .		1
68	Response of Concrete Beams Partially Prestressed with External Unbonded Carbon Fiber-Reinforced Polymer Tendons. Advanced Materials Research, 0, 150-151, 344-349.	0.3	0
69	Enhancing the Built Environment by Green Roofs. Advanced Materials Research, 2010, 150-151, 267-273.	0.3	0
70	Discussion: Use of adiabatic calorimetry for performance assessment of concretes. Advances in Cement Research, 2017, 29, 135-136.	0.7	0
71	Development of a novel tunnel dismantling machine for the MTR West Island Line construction. HKIE Transactions, 2017, 24, 151-168.	1.9	0
72	Triple Blending with Superfine Natural Zeolite and Condensed Silica Fume to Improve Performance of Cement Paste. , 0, , .		0