

# Syed Yasir Alam

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

681  
citations

623734

14  
h-index

677142

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

628  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fracture examination in concrete through combined digital image correlation and acoustic emission techniques. <i>Construction and Building Materials</i> , 2014, 69, 232-242.	7.2	162
2	Use of the digital image correlation and acoustic emission technique to study the effect of structural size on cracking of reinforced concrete. <i>Engineering Fracture Mechanics</i> , 2015, 143, 17-31.	4.3	101
3	Fracture process zone characteristics and identification of the micro-fracture phases in recycled concrete. <i>Engineering Fracture Mechanics</i> , 2017, 181, 101-115.	4.3	58
4	A comprehensive approach for mesoscale discrete element modelling of mechanical and fracture behavior of concrete. <i>Granular Matter</i> , 2019, 21, 1.	2.2	55
5	Monitoring size effect on crack opening in concrete by digital image correlation. <i>European Journal of Environmental and Civil Engineering</i> , 2012, 16, 818-836.	2.1	52
6	Crack propagation and size effect in concrete using a non-local damage model. <i>Engineering Fracture Mechanics</i> , 2013, 109, 246-261.	4.3	31
7	A new way to analyse the size effect in quasi-brittle materials by scaling the heterogeneity size. <i>Engineering Fracture Mechanics</i> , 2020, 225, 106864.	4.3	31
8	Transition from energy dissipation to crack openings during continuumâ€“discontinuum fracture of concrete. <i>International Journal of Fracture</i> , 2017, 206, 49-66.	2.2	29
9	Natural hydraulic lime for blended cement mortars: Behavior from fresh to hardened states. <i>Cement and Concrete Research</i> , 2019, 120, 52-65.	11.0	27
10	Effect of micro-macro crack interaction on softening behaviour of concrete fracture. <i>International Journal of Solids and Structures</i> , 2020, 182-183, 34-45.	2.7	24
11	Viscoelastic properties of asphalt concrete using micromechanical self-consistent model. <i>Archives of Civil and Mechanical Engineering</i> , 2015, 15, 272-285.	3.8	19
12	Development of a micro-mechanical model for the determination of damage properties of cement pastes. <i>Construction and Building Materials</i> , 2020, 261, 120514.	7.2	16
13	A quantitative assessment of the parameters involved in the freezeâ€“thaw damage of cement-based materials through numerical modelling. <i>Construction and Building Materials</i> , 2021, 272, 121838.	7.2	16
14	Experimental approach to investigate creep-damage bilateral effects in concrete at early age. <i>Cement and Concrete Composites</i> , 2019, 96, 128-137.	10.7	14
15	An experimental investigation on the correlation between the aggregate size effect and the structural size effect. <i>Engineering Fracture Mechanics</i> , 2020, 234, 107101.	4.3	14
16	Size effect on the contribution of the aggregate interlock mechanism in reinforced concrete beams without shear reinforcement. <i>European Journal of Environmental and Civil Engineering</i> , 2020, 24, 1363-1380.	2.1	10
17	Prediction of delamination crack growth in carbon/fiber epoxy composite laminates using non-local interface damage model. <i>Mechanics and Industry</i> , 2014, 15, 293-300.	1.3	7
18	Experimental and numerical analysis of curling behavior of natural hydraulic lime - cement based mortars. <i>Cement and Concrete Research</i> , 2019, 117, 1-15.	11.0	7

#	ARTICLE	IF	CITATIONS
19	Microscopically informed upscale approach of modelling damage in mortar by considering matrix-to-grain interface and grain micro-fracture characteristics. Theoretical and Applied Fracture Mechanics, 2020, 109, 102725.	4.7	3
20	Fracture Process Analysis of Recycled Aggregate Concrete with Combined Acoustic Emission and Digital Image Correlation Techniques. , 0, , .		2
21	Detecting crack profile in concrete using digital image correlation and acoustic emission. EPJ Web of Conferences, 2010, 6, 23003.	0.3	1
22	Curling evolution of a cementitious slab: experimental study and discrete element modelling. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	1
23	A numerical microscopically informed upscale approach for analyzing the reliability of testing method for concrete resistance to freeze-thaw. Construction and Building Materials, 2022, 317, 125772.	7.2	1