Husain Abbas

List of Publications by Year
in descending order

132	3,453	136885	182361
papers	citations	32 h-index	51 g-index

132	132	132	2176
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Behavior of blended cement mortars containing nano-metakaolin at elevated temperatures. Construction and Building Materials, 2012, 35, 900-905.	3.2	159
2	Rate dependent behavior and modeling of concrete based on SHPB experiments. Cement and Concrete Composites, 2015, 55, 34-44.	4.6	158
3	Response of hybrid-fiber reinforced concrete slabs to hard projectile impact. International Journal of Impact Engineering, 2013, 58, 17-30.	2.4	122
4	Characteristics of metakaolin-based geopolymer concrete for different mix design parameters. Journal of Materials Research and Technology, 2021, 10, 84-98.	2.6	90
5	Creep and drying shrinkage of concrete containing GGBFS. Cement and Concrete Composites, 2016, 68, 35-45.	4.6	88
6	Analytical and experimental investigations on the fracture behavior of hybrid fiber reinforced concrete. Cement and Concrete Composites, 2016, 74, 201-217.	4.6	78
7	Bio-induction and bioremediation of cementitious composites using microbial mineral precipitation â€“ A review. Construction and Building Materials, 2017, 154, 857-876.	3.2	76
8	Progressive collapse potential of a typical steel building due to blast attacks. Journal of Constructional Steel Research, 2014, 101, 143-157.	1.7	75
9	Mechanical properties of hybrid fibre-reinforced concrete â€“ analytical modelling and experimental behaviour. Magazine of Concrete Research, 2016, 68, 823-843.	0.9	74
10	Aircraft crash upon outer containment of nuclear power plant. Nuclear Engineering and Design, 1996, 160, 13-50.	0.8	73
11	Experimental investigation of slender circular RC columns strengthened with FRP composites. Construction and Building Materials, 2014, 69, 323-334.	3.2	73
12	Strength characteristics of polymer mortar and concrete using different compositions of resins derived from post-consumer PET bottles. Construction and Building Materials, 2010, 24, 25-36.	3.2	71
13	Investigation of precast RC beam-column assemblies under column-loss scenario. Construction and Building Materials, 2017, 142, 552-571.	3.2	71
14	Prediction of strength parameters of FRP-confined concrete. Composites Part B: Engineering, 2012, 43, 228-239.	5.9	62
15	Lateral collapse of composite cylindrical tubes between flat platens. International Journal of Impact Engineering, 2000, 24, 329-346.	2.4	60
16	Effectiveness of hybrid-fibers in improving the impact resistance of RC slabs. International Journal of Impact Engineering, 2015, 81, 61-73.	2.4	57
17	Blast response of GFRP-strengthened infill masonry walls. Construction and Building Materials, 2016, 115, 438-451.	3.2	57
18	Effect of blast loading on CFRP-Retrofitted RC columns - a numerical study. Latin American Journal of Solids and Structures, 2011, 8, 55-81.	0.6	56

#	Article	IF	Citations
19	Enzyme-Induced Carbonate Precipitation (EICP)-Based methods for ecofriendly stabilization of different types of natural sands. Journal of Cleaner Production, 2020, 274, 122627.	4.6	54
20	Flexural, shear and bond strength of polymer concrete utilizing recycled resin obtained from post consumer PET bottles. Construction and Building Materials, 2013, 44, 798-811.	3.2	51
21	Physiochemical properties of polymer mortar composites using resins derived from post-consumer PET bottles. Cement and Concrete Composites, 2007, 29, 241-248.	4.6	47
22	Treatment of recycled concrete aggregate to enhance concrete performance. Construction and Building Materials, 2021, 307, 124960.	3.2	47
23	Experimental and numerical study on FRP-upgraded RC beams with large rectangular web openings in shear zones. Construction and Building Materials, 2019, 194, 322-343.	3.2	45
24	Behavior of Metakaolin-Based geopolymer concrete at ambient and elevated temperatures. Construction and Building Materials, 2022, 317, 125910.	3.2	44
25	Effect of nano-metakaolin addition on the hydration characteristics of fly ash blended cement mortar. Journal of Thermal Analysis and Calorimetry, 2014, 116, 845-852.	2.0	41
26	Effect of some biotic factors on microbially-induced calcite precipitation in cement mortar. Saudi Journal of Biological Sciences, 2017, 24, 286-294.	1.8	40
27	Prediction of Intermediate Crack Debonding Strain of Externally Bonded FRP Laminates in RC Beams and One-Way Slabs. Journal of Composites for Construction, 2014, 18, .	1.7	39
28	Bond strength between concrete substrate and metakaolin geopolymer repair mortars at ambient and elevated temperatures. Journal of Materials Research and Technology, 2020, 9, 10732-10745.	2.6	39
29	Investigation of different steel intermediate moment frame connections under column-loss scenario. Thin-Walled Structures, 2020, 154, 106875.	2.7	39
30	Reliability analysis of nuclear containment without metallic liners against jet aircraft crash. Nuclear Engineering and Design, 2003, 224, 11-21.	0.8	35
31	ANN models for prediction of residual strength of HSC after exposure to elevated temperature. Fire Safety Journal, 2019, 106, 13-28.	1.4	35
32	Influence of openings on seismic performance of masonry building walls. Building and Environment, 2008, 43, 1232-1240.	3.0	34
33	Reaction-time response of aircraft crash. Computers and Structures, 1995, 55, 809-817.	2.4	33
34	Effect of High Temperature on High-Volume Fly Ash Concrete. Arabian Journal for Science and Engineering, 2013, 38, 1369-1378.	1.1	33
35	Effect of CFRP strengthening on the response of RC slabs to hard projectile impact. Nuclear Engineering and Design, 2015, 286, 211-226.	0.8	33
36	Effect of GGBFS on age dependent static modulus of elasticity of concrete. Construction and Building Materials, 2013, 41, 411-418.	3.2	32

#	Article	IF	Citations
37	Mathematical modeling of axial crushing of cylindrical tubes. Thin-Walled Structures, 2000, 38, 355-375.	2.7	31
38	Predicting residual strength of non-linear ultrasonically evaluated damaged concrete using artificial neural network. Construction and Building Materials, 2012, 29, 42-50.	3.2	31
39	Bond performance of GFRP and steel rebars embedded in metakaolin based geopolymer concrete. Structures, 2020, 27, 1582-1593.	1.7	31
40	Nonlinear response of concrete beams and plates under impact loading. International Journal of Impact Engineering, 2004, 30, 1039-1053.	2.4	30
41	Assessment of progressive collapse potential of special moment resisting RC frames â€“ Experimental and FE study. Engineering Failure Analysis, 2019, 105, 896-918.	1.8	30
42	Experimental and analytical study of strengthening schemes for shear deficient RC deep beams. Construction and Building Materials, 2019, 216, 673-686.	3.2	30
43	Progressive collapse analysis of a RC building subjected to blast loads. Structural Engineering and Mechanics, 2010, 36, 301-319.	1.0	30
44	Axisymmetric axial crushing of thin frusta. Thin-Walled Structures, 2000, 36, 169-179.	2.7	29
45	Shear strength of RC beams subjected to cyclic thermal loading. Construction and Building Materials, 2010, 24, 1869-1877.	3.2	29
46	Experimental and numerical investigation for compression response of CFRP strengthened shape modified wall-like RC column. Construction and Building Materials, 2014, 63, 72-80.	3.2	29
47	Organic versus inorganic matrix composites for bond-critical strengthening applications of RC structures â€“ State-of-the-art review. Composites Part B: Engineering, 2019, 174, 106947.	5.9	29
48	Effect of elevated temperature on the behavior of high volume fly ash concrete. KSCE Journal of Civil Engineering, 2015, 19, 1825-1831.	0.9	27
49	Reliability of RC shielded steel plates against the impact of sharp nose projectiles. International Journal of Impact Engineering, 2014, 69, 122-135.	2.4	26
50	Behavior and Design Aspects of FRP-Strengthened URM Walls under Out-of-Plane Loading. Journal of Composites for Construction, 2016, 20, .	1.7	25
51	Some considerations in axisymmetric folding of metallic round tubes. International Journal of Impact Engineering, 2001, 25, 331-344.	2.4	24
52	Soft missile impact on rigid targets. International Journal of Impact Engineering, 1995, 16, 727-737.	2.4	22
53	Shear strength prediction of HSC slender beams without web reinforcement. Materials and Structures/Materiaux Et Constructions, 2016, 49, 3749-3772.	1.3	21
54	Strain Rate Dependent Behavior and Modeling for Compression Response of Hybrid Fiber Reinforced Concrete. Latin American Journal of Solids and Structures, 2016, 13, 1695-1715.	0.6	20

#	Article	IF	Citations
55	Performance of concrete subjected to elevated temperature. European Journal of Environmental and Civil Engineering, 2016, 20, 532-543.	1.0	20
56	Curved fold model analysis for axi-symmetric axial crushing of tubes. Thin-Walled Structures, 2003, 41, 639-661.	2.7	19
57	Strength characteristics and microstructure of hooked-end steel fiber reinforced concrete containing fly ash, bottom ash and their combination. Construction and Building Materials, 2020, 247, 118530.	3.2	19
58	Influence of Critical Parameters of Mix Proportions on Properties of MK-Based Geopolymer Concrete. Arabian Journal for Science and Engineering, 2021, 46, 4399-4408.	1.7	19
59	Growth of hole in thin plates under hypervelocity impact of spherical projectiles. Thin-Walled Structures, 2006, 44, 1006-1016.	2.7	18
60	Experimental investigation of progressive collapse potential of ordinary and special moment-resisting reinforced concrete frames. Materials and Structures/Materiaux Et Constructions, 2017, 50, 1.	1.3	18
61	Mechanical properties, phase composition and microstructure of activated Metakaolin-slaked lime binder. KSCE Journal of Civil Engineering, 2017, 21, 863-871.	0.9	18
62	Upgrading of precast RC beam-column joints using innovative FRP/steel hybrid technique for progressive collapse prevention. Construction and Building Materials, 2021, 268, 121130.	3.2	18
63	Progressive collapse risk of 2D and 3D steel-frame assemblies having shear connections. Journal of Constructional Steel Research, 2021, 179, 106533.	1.7	18
64	Experimental and analytical study of flexural performance of concrete beams reinforced with hybrid of GFRP and steel rebars. Engineering Failure Analysis, 2022, 138, 106397.	1.8	18
65	Progressive Collapse Analysis of RC Buildings against Internal Blast. Advances in Structural Engineering, 2015, 18, 2181-2192.	1.2	17
66	Post-heating response of concrete-filled circular steel columns. KSCE Journal of Civil Engineering, 2017, 21, 1367-1378.	0.9	17
67	Role of recycled vehicle tires quantity and size on the properties of metakaolin-based geopolymer rubberized concrete. Journal of Materials Research and Technology, 2022, 18, 2593-2607.	2.6	17
68	Effect of CFRP and TRM Strengthening of RC Slabs on Punching Shear Strength. Latin American Journal of Solids and Structures, 2015, 12, 1616-1640.	0.6	16
69	Effectiveness of CFRP Strengthening in Improving Cyclic Compression Response of Slender RC Columns. Journal of Composites for Construction, 2018, 22, .	1.7	16
70	Reliability analysis of a buried concrete target under missile impact. International Journal of Impact Engineering, 2002, 27, 791-806.	2.4	15
71	Progressive collapse analysis of a typical RC high-rise tower. Journal of King Saud University, Engineering Sciences, 2017, 29, 313-320.	1.2	15
72	Finite element analysis for progressive collapse potential of precast concrete beam-to-column connections strengthened with steel plates. Journal of Building Engineering, 2021, 34, 101875.	1.6	15

#	Article	IF	Citations
73	Failure of aluminium beams under low velocity impact. International Journal of Impact Engineering, 2008, 35, 1201-1212.	2.4	14
74	Change in thickness in straight fold models for axial crushing of thin-walled frusta and tubes. Thin-Walled Structures, 2009, 47, 98-108.	2.7	14
75	Reliability of double-wall containment against the impact of hard projectiles. Nuclear Engineering and Design, 2014, 270, 143-151.	0.8	14
76	Ductility damage indices based on seismic performance of RC frames. Soil Dynamics and Earthquake Engineering, 2015, 77, 226-237.	1.9	14
77	Development of metakaolin-based geopolymer rubberized concrete: fresh and hardened properties. Archives of Civil and Mechanical Engineering, 2022, 22, .	1.9	14
78	Bond strength of RC beams subjected to cyclic thermal loading. Construction and Building Materials, 2013, 38, 644-657.	3.2	13
79	Compression behavior of FRP-strengthened RC square columns of varying slenderness ratios under eccentric loading. Journal of Building Engineering, 2020, 32, 101512.	1.6	13
80	Considerations in straight fold analysis of thin tubes under axial compression. International Journal of Impact Engineering, 2005, 31, 1039-1053.	2.4	12
81	Discussion: Mechanical properties of hybrid fibre-reinforced concrete â€“ analytical modelling and experimental behaviour. Magazine of Concrete Research, 2016, 68, 1183-1186.	0.9	12
82	Development limitations of compressive arch and catenary actions in reinforced concrete special moment resisting frames under column-loss scenarios. Structure and Infrastructure Engineering, 2020, 16, 1616-1634.	2.0	12
83	Compression behavior and modeling of FRP-confined high strength geopolymer concrete. Construction and Building Materials, 2021, 283, 122759.	3.2	12
84	Behavior of novel CFST circular column-to-foundation connections under cyclic loading. Engineering Structures, 2020, 221, 111051.	2.6	11
85	Experimental and analytical investigation of fiber alignment on fracture properties of concrete. Structures, 2020, 28, 2572-2581.	1.7	11
86	Reliability analysis of projectile penetration into geological targets. Reliability Engineering and System Safety, 2002, 78, 13-19.	5.1	10
87	Punching of slabâ€“column connections strengthened using external steel shear bolts. Magazine of Concrete Research, 2016, 68, 55-68.	0.9	10
88	Prediction of compressive strength of concrete using neural networks. Computers and Concrete, 2012, 10, 197-217.	0.7	10
89	Experimental and FE study on strengthened steel beam-column joints for progressive collapse robustness under column-loss event. Engineering Structures, 2022, 258, 114103.	2.6	10
90	Hybrid UHPC/NSM CFRP strips vs. traditional systems for flexural upgrading of RC beams â€“ Experimental and FE study. Composite Structures, 2021, 261, 113291.	3.1	9

#	Article	IF	Citations
91	Impact behavior of hybrid-fiber reinforced concrete beams. Structures, 2022, 39, 782-792.	1.7	9
92	Influence of Treatment Methods of Recycled Concrete Aggregate on Behavior of High Strength Concrete. Buildings, 2022, 12, 494.	1.4	9
93	Change in thickness in curved fold model for axial crushing of tubes. International Journal of Solids and Structures, 2004, 41, 7129-7153.	1.3	8
94	Influence of strain hardening on bending momentâ€“axial force interaction. International Journal of Mechanical Sciences, 2012, 55, 65-77.	3.6	8
95	Long-term deflection of RC beams containing GGBFS. Magazine of Concrete Research, 2013, 65, 1441-1462.	0.9	8
96	Free vibration of tapered beams and plates based on unified beam theory. JVC/Journal of Vibration and Control, 2014, 20, 2450-2463.	1.5	8
97	Reliability Assessment of HFRC Slabs Against Projectile Impact. International Journal of Concrete Structures and Materials, 2018, 12, .	1.4	8
98	Mechanics of missile penetration into geo-materials. Structural Engineering and Mechanics, 2002, 13, 639-652.	1.0	8
99	Bond Performance of GFRP Bar-Splicing in Reinforced Concrete Beams. Journal of Composites for Construction, 2022, 26, .	1.7	8
100	Neural network approach for estimation of hole-diameter in thin plates perforated by spherical projectiles. Thin-Walled Structures, 2008, 46, 592-601.	2.7	7
101	Characterization of hole-diameter in thin metallic plates perforated by spherical projectiles using genetic algorithms. Archive of Applied Mechanics, 2011, 81, 907-924.	1.2	7
102	Local Impact Damage Response of CFRP Strengthened Concrete Slabs. Procedia Engineering, 2017, 173, 85-92.	1.2	7
103	Effect of magnitude of sustained loading on the long-term deflection of RC beams. Archives of Civil and Mechanical Engineering, 2019, 19, 779-791.	1.9	7
104	Fatigue reliability analysis of welded joints of a TLP tether system. Steel and Composite Structures, 2002, 2, 331-354.	1.3	7
105	Biocementation by Sporosarcina pasteurii ATCC6453 under simulated conditions in sand columns. Journal of Materials Research and Technology, 2022, 18, 4375-4384.	2.6	7
106	Experimental study of shear behavior of CFRP strengthened ultra-high-performance fiber-reinforced concrete deep beams. Case Studies in Construction Materials, 2022, 16, e01103.	0.8	7
107	Neural network approach for prediction of deflection of clamped beams struck by a mass. Thin-Walled Structures, 2012, 60, 222-228.	2.7	6
108	Strain hardening in Mâ€“P interaction for metallic beam of I-section. Thin-Walled Structures, 2013, 62, 243-256.	2.7	6

#	Article	IF	Citations
109	Improving the Impact Resistance of Reinforced Concrete. Advanced Materials Research, 0, 919-921, 1924-1929.	0.3	6
110	Experimental investigation for GFRP rebar couplers for reinforced concrete. Journal of King Saud University, Engineering Sciences, 2021, 33, 104-110.	1.2	6
111	Residual compressive strength of plain and fiber reinforced concrete after exposure to different heating and cooling regimes. European Journal of Environmental and Civil Engineering, 2022, 26, 6746-6765.	1.0	6
112	Prediction of Ejected Mass from Hybrid-Fiber Reinforced Concrete Slabs subjected to Impact Loads. Procedia Engineering, 2017, 173, 77-84.	1.2	5
113	Stabilization of sand using energy efficient materials under normal and extreme hot weathers. Journal of Cleaner Production, 2021, 285, 124914.	4.6	5
114	Effectiveness of GFRP strengthening of normal and high strength fiber reinforced concrete after exposure to heating and cooling. Engineering Science and Technology, an International Journal, 2022, 36, 101147.	2.0	5
115	Prediction of error in finite element results. Computers and Structures, 1996, 60, 471-480.	2.4	4
116	Performance of new CFST square column-to-foundation connections for cyclic loads. Journal of Constructional Steel Research, 2021, 185, 106868.	1.7	4
117	Effect of GGBFS on time-dependent deflection of RC beams. Computers and Concrete, 2017, 19, 51-58.	0.7	4
118	Local Damage of Plain and Reinforced Concrete Targets under Impact Load. Defence Science Journal, 2003, 53, 67-73.	0.5	4
119	Discussion of â€œ Mechanics of Masonry in Compression â€•by W. Scott McNary and Daniel P. Abrams (April, 1985, Vol. 111, No. 4). Journal of Structural Engineering, 1987, 113, 190-191.	1.7	3
120	Static and dynamic response of cost effective unreinforced brick masonry buildings. Archives of Civil and Mechanical Engineering, 2011, 11, 921-941.	1.9	3
121	Investigations on the influence of radial confinement in the impact response of concrete. Computers and Concrete, 2014, 14, 675-694.	0.7	3
122	Closure to â€œPrediction of Intermediate Crack Debonding Strain of Externally Bonded FRP Laminates in RC Beams and One-Way Slabsâ€•by H. M. Elsanadedy, H. Abbas, Y. A. Al-Salloum, and T. H. Almusallam. Journal of Composites for Construction, 2015, 19, 07014004.	1.7	2
123	TRM Versus FRP as Strengthening Material for Improving Impact Resistance of RC Slabs. , 2016, , .		2
124	Mechanical properties of concrete subjected to cyclic thermal loading. European Journal of Environmental and Civil Engineering, 2022, 26, 2855-2868.	1.0	2
125	Risk assessment of precast reinforced concrete buildings against blast loads: Case study. , 2016, , 972-975.		2
126	Reliability analysis of latticed steel towers against wind induced displacement. Steel and Composite Structures, 2004, 4, 9-21.	1.3	2

#	Article	IF	Citations
127	A simplified procedure to incorporate soil non-linearity in missile penetration problems. Structural Engineering and Mechanics, 2006, 23, 249-262.	1.0	2
128	Progressive collapse risk of steel framed building considering column buckling. Engineering Science and Technology, an International Journal, 2022, , 101193.	2.0	2
129	A computer-oriented procedure for the yield line analysis of slabs. Computers and Structures, 1994, 52, 419-430.	2.4	1
130	Progressive Collapse Analysis of a Medium-Rise Circular RC Building Against Blast Loads. , 2016, , .		1
131	Analysis of Axisymmetric Crushing of Frusta. Defence Science Journal, 2003, 53, 41-50.	0.5	1
132	Dynamic Analysis of Tapered Plates Based on Higher Order Beam Theory. Advanced Materials Research, 0, 919-921, 79-82.	0.3	0