

Husain Abbas

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

128
papers

2,183
citations

25
h-index

40
g-index

132
ext. papers

2,765
ext. citations

4.3
avg, IF

5.37
L-index

#	Paper	IF	Citations
128	Behavior of Metakaolin-Based geopolymer concrete at ambient and elevated temperatures. <i>Construction and Building Materials</i> , 2022 , 317, 125910	6.7	3
127	Role of recycled vehicle tires quantity and size on the properties of metakaolin-based geopolymer rubberized concrete. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 2593-2607	5.5	2
126	Experimental and FE study on strengthened steel beam-column joints for progressive collapse robustness under column-loss event. <i>Engineering Structures</i> , 2022 , 258, 114103	4.7	0
125	Impact behavior of hybrid-fiber reinforced concrete beams. <i>Structures</i> , 2022 , 39, 782-792	3.4	2
124	Effectiveness of GFRP strengthening of normal and high strength fiber reinforced concrete after exposure to heating and cooling. <i>Engineering Science and Technology, an International Journal</i> , 2022 , 36, 101147		0
123	Influence of Treatment Methods of Recycled Concrete Aggregate on Behavior of High Strength Concrete. <i>Buildings</i> , 2022 , 12, 494	3.2	2
122	Experimental and Analytical Study of Flexural Performance of Concrete Beams Reinforced with Hybrid of GFRP and Steel Rebars. <i>Engineering Failure Analysis</i> , 2022 , 106397	3.2	1
121	Biocementation by <i>Sporosarcina pasteurii</i> ATCC6453 under simulated conditions in sand columns. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 4375-4384	5.5	1
120	Experimental study of shear behavior of CFRP strengthened ultra-high-performance fiber-reinforced concrete deep beams. <i>Case Studies in Construction Materials</i> , 2022 , 16, e01103	2.7	0
119	Development of metakaolin-based geopolymer rubberized concrete: fresh and hardened properties. <i>Archives of Civil and Mechanical Engineering</i> , 2022 , 22,	3.4	2
118	Progressive collapse risk of 2D and 3D steel-frame assemblies having shear connections. <i>Journal of Constructional Steel Research</i> , 2021 , 179, 106533	3.8	4
117	Compression behavior and modeling of FRP-confined high strength geopolymer concrete. <i>Construction and Building Materials</i> , 2021 , 283, 122759	6.7	5
116	Experimental investigation for GFRP rebar couplers for reinforced concrete. <i>Journal of King Saud University, Engineering Sciences</i> , 2021 , 33, 104-110	2.2	2
115	Finite element analysis for progressive collapse potential of precast concrete beam-to-column connections strengthened with steel plates. <i>Journal of Building Engineering</i> , 2021 , 34, 101875	5.2	8
114	Influence of Critical Parameters of Mix Proportions on Properties of MK-Based Geopolymer Concrete. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 4399-4408	2.5	10
113	Hybrid UHPC/NSM CFRP strips vs. traditional systems for flexural upgrading of RC beams □ Experimental and FE study. <i>Composite Structures</i> , 2021 , 261, 113291	5.3	1
112	Stabilization of sand using energy efficient materials under normal and extreme hot weathers. <i>Journal of Cleaner Production</i> , 2021 , 285, 124914	10.3	0

111	Characteristics of metakaolin-based geopolymer concrete for different mix design parameters. <i>Journal of Materials Research and Technology</i> , 2021 , 10, 84-98	5.5	23
110	Upgrading of precast RC beam-column joints using innovative FRP/steel hybrid technique for progressive collapse prevention. <i>Construction and Building Materials</i> , 2021 , 268, 121130	6.7	9
109	Performance of new CFST square column-to-foundation connections for cyclic loads. <i>Journal of Constructional Steel Research</i> , 2021 , 185, 106868	3.8	0
108	Treatment of recycled concrete aggregate to enhance concrete performance. <i>Construction and Building Materials</i> , 2021 , 307, 124960	6.7	6
107	Compression behavior of FRP-strengthened RC square columns of varying slenderness ratios under eccentric loading. <i>Journal of Building Engineering</i> , 2020 , 32, 101512	5.2	6
106	Mechanical properties of concrete subjected to cyclic thermal loading. <i>European Journal of Environmental and Civil Engineering</i> , 2020 , 1-14	1.5	
105	Investigation of different steel intermediate moment frame connections under column-loss scenario. <i>Thin-Walled Structures</i> , 2020 , 154, 106875	4.7	16
104	Development limitations of compressive arch and catenary actions in reinforced concrete special moment resisting frames under column-loss scenarios. <i>Structure and Infrastructure Engineering</i> , 2020 , 16, 1616-1634	2.9	7
103	Strength characteristics and microstructure of hooked-end steel fiber reinforced concrete containing fly ash, bottom ash and their combination. <i>Construction and Building Materials</i> , 2020 , 247, 118530	6.7	9
102	Behavior of novel CFST circular column-to-foundation connections under cyclic loading. <i>Engineering Structures</i> , 2020 , 221, 111051	4.7	5
101	Enzyme-Induced Carbonate Precipitation (EICP)-Based methods for ecofriendly stabilization of different types of natural sands. <i>Journal of Cleaner Production</i> , 2020 , 274, 122627	10.3	16
100	Experimental and analytical investigation of fiber alignment on fracture properties of concrete. <i>Structures</i> , 2020 , 28, 2572-2581	3.4	3
99	Bond performance of GFRP and steel rebars embedded in metakaolin based geopolymer concrete. <i>Structures</i> , 2020 , 27, 1582-1593	3.4	15
98	Bond strength between concrete substrate and metakaolin geopolymer repair mortars at ambient and elevated temperatures. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 10732-10745	5.5	14
97	Organic versus inorganic matrix composites for bond-critical strengthening applications of RC structures State-of-the-art review. <i>Composites Part B: Engineering</i> , 2019 , 174, 106947	10	14
96	Experimental and analytical study of strengthening schemes for shear deficient RC deep beams. <i>Construction and Building Materials</i> , 2019 , 216, 673-686	6.7	19
95	Effect of magnitude of sustained loading on the long-term deflection of RC beams. <i>Archives of Civil and Mechanical Engineering</i> , 2019 , 19, 779-791	3.4	5
94	ANN models for prediction of residual strength of HSC after exposure to elevated temperature. <i>Fire Safety Journal</i> , 2019 , 106, 13-28	3.3	22

93	Assessment of progressive collapse potential of special moment resisting RC frames □ Experimental and FE study. <i>Engineering Failure Analysis</i> , 2019 , 105, 896-918	3.2	19
92	Experimental and numerical study on FRP-upgraded RC beams with large rectangular web openings in shear zones. <i>Construction and Building Materials</i> , 2019 , 194, 322-343	6.7	21
91	Effectiveness of CFRP Strengthening in Improving Cyclic Compression Response of Slender RC Columns. <i>Journal of Composites for Construction</i> , 2018 , 22, 04018009	3.3	11
90	Reliability Assessment of HFRC Slabs Against Projectile Impact. <i>International Journal of Concrete Structures and Materials</i> , 2018 , 12,	2.8	3
89	Effect of some biotic factors on microbially-induced calcite precipitation in cement mortar. <i>Saudi Journal of Biological Sciences</i> , 2017 , 24, 286-294	4	25
88	Experimental investigation of progressive collapse potential of ordinary and special moment-resisting reinforced concrete frames. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017 , 50, 1	3.4	13
87	Local Impact Damage Response of CFRP Strengthened Concrete Slabs. <i>Procedia Engineering</i> , 2017 , 173, 85-92		4
86	Progressive collapse analysis of a typical RC high-rise tower. <i>Journal of King Saud University, Engineering Sciences</i> , 2017 , 29, 313-320	2.2	8
85	Prediction of Ejected Mass from Hybrid-Fiber Reinforced Concrete Slabs subjected to Impact Loads. <i>Procedia Engineering</i> , 2017 , 173, 77-84		1
84	Investigation of precast RC beam-column assemblies under column-loss scenario. <i>Construction and Building Materials</i> , 2017 , 142, 552-571	6.7	50
83	Bio-induction and bioremediation of cementitious composites using microbial mineral precipitation □A review. <i>Construction and Building Materials</i> , 2017 , 154, 857-876	6.7	43
82	Post-heating response of concrete-filled circular steel columns. <i>KSCE Journal of Civil Engineering</i> , 2017 , 21, 1367-1378	1.9	11
81	Mechanical properties, phase composition and microstructure of activated Metakaolin-slaked lime binder. <i>KSCE Journal of Civil Engineering</i> , 2017 , 21, 863-871	1.9	10
80	Effect of GGBFS on time-dependent deflection of RC beams. <i>Computers and Concrete</i> , 2017 , 19, 51-58		3
79	Mechanical properties of hybrid fibre-reinforced concrete □Analytical modelling and experimental behaviour. <i>Magazine of Concrete Research</i> , 2016 , 68, 823-843	2	51
78	Punching of slab□column connections strengthened using external steel shear bolts. <i>Magazine of Concrete Research</i> , 2016 , 68, 55-68	2	4
77	Discussion: Mechanical properties of hybrid fibre-reinforced concrete □Analytical modelling and experimental behaviour. <i>Magazine of Concrete Research</i> , 2016 , 68, 1183-1186	2	7
76	TRM Versus FRP as Strengthening Material for Improving Impact Resistance of RC Slabs 2016 ,		1

75	Performance of concrete subjected to elevated temperature. <i>European Journal of Environmental and Civil Engineering</i> , 2016 , 20, 532-543	1.5	15
74	Shear strength prediction of HSC slender beams without web reinforcement. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016 , 49, 3749-3772	3.4	10
73	Creep and drying shrinkage of concrete containing GGBFS. <i>Cement and Concrete Composites</i> , 2016 , 68, 35-45	8.6	51
72	Risk assessment of precast reinforced concrete buildings against blast loads: Case study 2016 , 972-975		2
71	Strain Rate Dependent Behavior and Modeling for Compression Response of Hybrid Fiber Reinforced Concrete. <i>Latin American Journal of Solids and Structures</i> , 2016 , 13, 1695-1715	1.4	16
70	Behavior and Design Aspects of FRP-Strengthened URM Walls under Out-of-Plane Loading. <i>Journal of Composites for Construction</i> , 2016 , 20, 04016048	3.3	17
69	Blast response of GFRP-strengthened infill masonry walls. <i>Construction and Building Materials</i> , 2016 , 115, 438-451	6.7	37
68	Analytical and experimental investigations on the fracture behavior of hybrid fiber reinforced concrete. <i>Cement and Concrete Composites</i> , 2016 , 74, 201-217	8.6	48
67	Effect of elevated temperature on the behavior of high volume fly ash concrete. <i>KSCCE Journal of Civil Engineering</i> , 2015 , 19, 1825-1831	1.9	15
66	Ductility damage indices based on seismic performance of RC frames. <i>Soil Dynamics and Earthquake Engineering</i> , 2015 , 77, 226-237	3.5	10
65	Effect of CFRP strengthening on the response of RC slabs to hard projectile impact. <i>Nuclear Engineering and Design</i> , 2015 , 286, 211-226	1.8	18
64	Effectiveness of hybrid-fibers in improving the impact resistance of RC slabs. <i>International Journal of Impact Engineering</i> , 2015 , 81, 61-73	4	33
63	Closure to Prediction of Intermediate Crack Debonding Strain of Externally Bonded FRP Laminates in RC Beams and One-Way Slabs By H. M. Elsanadedy, H. Abbas, Y. A. Al-Salloum, and T. H. Almusallam. <i>Journal of Composites for Construction</i> , 2015 , 19, 07014004	3.3	2
62	Rate dependent behavior and modeling of concrete based on SHPB experiments. <i>Cement and Concrete Composites</i> , 2015 , 55, 34-44	8.6	96
61	Progressive Collapse Analysis of RC Buildings against Internal Blast. <i>Advances in Structural Engineering</i> , 2015 , 18, 2181-2192	1.9	14
60	Effect of CFRP and TRM Strengthening of RC Slabs on Punching Shear Strength. <i>Latin American Journal of Solids and Structures</i> , 2015 , 12, 1616-1640	1.4	9
59	Reliability of RC shielded steel plates against the impact of sharp nose projectiles. <i>International Journal of Impact Engineering</i> , 2014 , 69, 122-135	4	21
58	Reliability of double-wall containment against the impact of hard projectiles. <i>Nuclear Engineering and Design</i> , 2014 , 270, 143-151	1.8	10

57	Free vibration of tapered beams and plates based on unified beam theory. <i>JVC/Journal of Vibration and Control</i> , 2014 , 20, 2450-2463	2	8
56	Experimental investigation of slender circular RC columns strengthened with FRP composites. <i>Construction and Building Materials</i> , 2014 , 69, 323-334	6.7	52
55	Progressive collapse potential of a typical steel building due to blast attacks. <i>Journal of Constructional Steel Research</i> , 2014 , 101, 143-157	3.8	59
54	Prediction of Intermediate Crack Debonding Strain of Externally Bonded FRP Laminates in RC Beams and One-Way Slabs. <i>Journal of Composites for Construction</i> , 2014 , 18, 04014008	3.3	26
53	Improving the Impact Resistance of Reinforced Concrete. <i>Advanced Materials Research</i> , 2014 , 919-921, 1924-1929	0.5	6
52	Dynamic Analysis of Tapered Plates Based on Higher Order Beam Theory. <i>Advanced Materials Research</i> , 2014 , 919-921, 79-82	0.5	
51	Experimental and numerical investigation for compression response of CFRP strengthened shape modified wall-like RC column. <i>Construction and Building Materials</i> , 2014 , 63, 72-80	6.7	18
50	Effect of nano-metakaolin addition on the hydration characteristics of fly ash blended cement mortar. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 116, 845-852	4.1	28
49	Investigations on the influence of radial confinement in the impact response of concrete. <i>Computers and Concrete</i> , 2014 , 14, 675-694		3
48	Effect of High Temperature on High-Volume Fly Ash Concrete. <i>Arabian Journal for Science and Engineering</i> , 2013 , 38, 1369-1378		20
47	Strain hardening in MB interaction for metallic beam of I-section. <i>Thin-Walled Structures</i> , 2013 , 62, 243-256	4.6	6
46	Effect of GGBFS on age dependent static modulus of elasticity of concrete. <i>Construction and Building Materials</i> , 2013 , 41, 411-418	6.7	23
45	Flexural, shear and bond strength of polymer concrete utilizing recycled resin obtained from post consumer PET bottles. <i>Construction and Building Materials</i> , 2013 , 44, 798-811	6.7	35
44	Response of hybrid-fiber reinforced concrete slabs to hard projectile impact. <i>International Journal of Impact Engineering</i> , 2013 , 58, 17-30	4	88
43	Bond strength of RC beams subjected to cyclic thermal loading. <i>Construction and Building Materials</i> , 2013 , 38, 644-657	6.7	9
42	Long-term deflection of RC beams containing GGBFS. <i>Magazine of Concrete Research</i> , 2013 , 65, 1441-1462		8
41	Predicting residual strength of non-linear ultrasonically evaluated damaged concrete using artificial neural network. <i>Construction and Building Materials</i> , 2012 , 29, 42-50	6.7	24
40	Influence of strain hardening on bending moment-axial force interaction. <i>International Journal of Mechanical Sciences</i> , 2012 , 55, 65-77	5.5	7

39	Neural network approach for prediction of deflection of clamped beams struck by a mass. <i>Thin-Walled Structures</i> , 2012 , 60, 222-228	4.7	6
38	Behavior of blended cement mortars containing nano-metakaolin at elevated temperatures. <i>Construction and Building Materials</i> , 2012 , 35, 900-905	6.7	130
37	Prediction of strength parameters of FRP-confined concrete. <i>Composites Part B: Engineering</i> , 2012 , 43, 228-239	10	51
36	Prediction of compressive strength of concrete using neural networks. <i>Computers and Concrete</i> , 2012 , 10, 197-217		7
35	Static and dynamic response of cost effective unreinforced brick masonry buildings. <i>Archives of Civil and Mechanical Engineering</i> , 2011 , 11, 921-941	3.4	3
34	Effect of blast loading on CFRP-Retrofitted RC columns - a numerical study. <i>Latin American Journal of Solids and Structures</i> , 2011 , 8, 55-81	1.4	42
33	Characterization of hole-diameter in thin metallic plates perforated by spherical projectiles using genetic algorithms. <i>Archive of Applied Mechanics</i> , 2011 , 81, 907-924	2.2	5
32	Strength characteristics of polymer mortar and concrete using different compositions of resins derived from post-consumer PET bottles. <i>Construction and Building Materials</i> , 2010 , 24, 25-36	6.7	55
31	Shear strength of RC beams subjected to cyclic thermal loading. <i>Construction and Building Materials</i> , 2010 , 24, 1869-1877	6.7	25
30	Progressive collapse analysis of a RC building subjected to blast loads. <i>Structural Engineering and Mechanics</i> , 2010 , 36, 301-319		26
29	Change in thickness in straight fold models for axial crushing of thin-walled frusta and tubes. <i>Thin-Walled Structures</i> , 2009 , 47, 98-108	4.7	13
28	Influence of openings on seismic performance of masonry building walls. <i>Building and Environment</i> , 2008 , 43, 1232-1240	6.5	25
27	Neural network approach for estimation of hole-diameter in thin plates perforated by spherical projectiles. <i>Thin-Walled Structures</i> , 2008 , 46, 592-601	4.7	5
26	Failure of aluminium beams under low velocity impact. <i>International Journal of Impact Engineering</i> , 2008 , 35, 1201-1212	4	12
25	Physiochemical properties of polymer mortar composites using resins derived from post-consumer PET bottles. <i>Cement and Concrete Composites</i> , 2007 , 29, 241-248	8.6	38
24	Growth of hole in thin plates under hypervelocity impact of spherical projectiles. <i>Thin-Walled Structures</i> , 2006 , 44, 1006-1016	4.7	15
23	A simplified procedure to incorporate soil non-linearity in missile penetration problems. <i>Structural Engineering and Mechanics</i> , 2006 , 23, 249-262		1
22	Considerations in straight fold analysis of thin tubes under axial compression. <i>International Journal of Impact Engineering</i> , 2005 , 31, 1039-1053	4	9

21	Nonlinear response of concrete beams and plates under impact loading. <i>International Journal of Impact Engineering</i> , 2004 , 30, 1039-1053	4	22
20	Change in thickness in curved fold model for axial crushing of tubes. <i>International Journal of Solids and Structures</i> , 2004 , 41, 7129-7153	3-1	7
19	Reliability analysis of latticed steel towers against wind induced displacement. <i>Steel and Composite Structures</i> , 2004 , 4, 9-21		2
18	Reliability analysis of nuclear containment without metallic liners against jet aircraft crash. <i>Nuclear Engineering and Design</i> , 2003 , 224, 11-21	1.8	17
17	Curved fold model analysis for axi-symmetric axial crushing of tubes. <i>Thin-Walled Structures</i> , 2003 , 41, 639-661	4-7	18
16	Local Damage of Plain and Reinforced Concrete Targets under Impact Load. <i>Defence Science Journal</i> , 2003 , 53, 67-73	1.4	4
15	Reliability analysis of projectile penetration into geological targets. <i>Reliability Engineering and System Safety</i> , 2002 , 78, 13-19	6.3	8
14	Reliability analysis of a buried concrete target under missile impact. <i>International Journal of Impact Engineering</i> , 2002 , 27, 791-806	4	10
13	Fatigue reliability analysis of welded joints of a TLP tether system. <i>Steel and Composite Structures</i> , 2002 , 2, 331-354		7
12	Mechanics of missile penetration into geo-materials. <i>Structural Engineering and Mechanics</i> , 2002 , 13, 639-652		5
11	Some considerations in axisymmetric folding of metallic round tubes. <i>International Journal of Impact Engineering</i> , 2001 , 25, 331-344	4	18
10	Axisymmetric axial crushing of thin frusta. <i>Thin-Walled Structures</i> , 2000 , 36, 169-179	4-7	27
9	Mathematical modeling of axial crushing of cylindrical tubes. <i>Thin-Walled Structures</i> , 2000 , 38, 355-375	4-7	27
8	Lateral collapse of composite cylindrical tubes between flat platens. <i>International Journal of Impact Engineering</i> , 2000 , 24, 329-346	4	53
7	Prediction of error in finite element results. <i>Computers and Structures</i> , 1996 , 60, 471-480	4-5	4
6	Aircraft crash upon outer containment of nuclear power plant. <i>Nuclear Engineering and Design</i> , 1996 , 160, 13-50	1.8	66
5	Soft missile impact on rigid targets. <i>International Journal of Impact Engineering</i> , 1995 , 16, 727-737	4	20
4	Reaction-time response of aircraft crash. <i>Computers and Structures</i> , 1995 , 55, 809-817	4-5	31

3	A computer-oriented procedure for the yield line analysis of slabs. <i>Computers and Structures</i> , 1994 , 52, 419-430	4.5	
2	Discussion of [Mechanics of Masonry in Compression] by W. Scott McNary and Daniel P. Abrams (April, 1985, Vol. 111, No. 4). <i>Journal of Structural Engineering</i> , 1987 , 113, 190-191	3	3
1	Residual compressive strength of plain and fiber reinforced concrete after exposure to different heating and cooling regimes. <i>European Journal of Environmental and Civil Engineering</i> , 1-20	1.5	3