Bora Gencturk

List of Publications by Year in descending order

68 papers	1,380 citations	331538 21 h-index	377752 34 g-index
69 all docs	69 docs citations	69 times ranked	1225 citing authors

#	Article	IF	Citations
1	In-plane Quasi-static Cyclic Load Tests on Reinforced Concrete Frame Panels with and without Brick Masonry Infill Walls. Journal of Earthquake Engineering, 2022, 26, 5592-5616.	1.4	1
2	Bio self-healing concrete using MICP by an indigenous Bacillus cereus strain isolated from Qatari soil. Construction and Building Materials, 2022, 328, 126943.	3.2	41
3	Durability characteristics of high and ultra-high performance concretes. Journal of Building Engineering, 2021, 33, 101669.	1.6	58
4	Chemical Resistance of Cu-Al-Mn Superelastic Alloy Bars in Acidic and Alkaline Environments. Journal of Materials in Civil Engineering, 2021, 33, .	1.3	2
5	Dominant substructural vibration modes for fully-loaded spent nuclear fuel canisters. Computational Mechanics, 2021, 67, 365-384.	2.2	4
6	Multiphysics and Multiscale Modeling of Coupled Transport of Chloride Ions in Concrete. Materials, 2021, 14, 885.	1.3	6
7	Structural Response of Steel Jacket-UHPC Retrofitted Reinforced Concrete Columns under Blast Loading. Materials, 2021, 14, 1521.	1.3	10
8	Influence of alkali-silica reaction on the shear capacity of reinforced concrete beams with minimum transverse reinforcement. Engineering Structures, 2021, 235, 112020.	2.6	8
9	Dynamic response of dry cask storage systems for spent nuclear fuel to near field blast loading. Annals of Nuclear Energy, 2021, 155, 108155.	0.9	0
10	A Computational Study of the Shear Behavior of Reinforced Concrete Beams Affected from Alkaliâ€“Silica Reactivity Damage. Materials, 2021, 14, 3346.	1.3	5
11	Experimental and numerical investigation of vertical throughâ€plate for concreteâ€filled steel tube column to Hâ€beam connections. Structural Design of Tall and Special Buildings, 2021, 30, e1831.	0.9	8
12	Optimized Self-Healing in concrete using engineered aggregates. Construction and Building Materials, 2021, 309, 124965.	3.2	7
13	A method for smoothing multiple yield functions. International Journal for Numerical Methods in Engineering, 2020, 121, 434-449.	1.5	11
14	Electrochemical behavior of mild and corrosion resistant concrete reinforcing steels. Construction and Building Materials, 2020, 232, 117205.	3.2	57
15	Impact of Laboratory-Accelerated Aging Methods to Study Alkaliâ€“Silica Reaction and Reinforcement Corrosion on the Properties of Concrete. Materials, 2020, 13, 3273.	1.3	11
16	Multiscale modal analysis of fully-loaded spent nuclear fuel canisters. Computer Methods in Applied Mechanics and Engineering, 2020, 367, 113072.	3.4	6
17	Destructive and non-destructive evaluation of reinforced concrete dry casks affected by alkali-silica reactivity damage. Structure and Infrastructure Engineering, 2019, 15, 1404-1418.	2.0	2
18	Mitigating alkali-silica reaction induced concrete degradation through cement substitution by metakaolin and bentonite. Applied Clay Science, 2019, 182, 105257.	2.6	40

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19	Optimal design of bridge columns constructed with engineered cementitious composites and Cu-Al-Mn superelastic alloys. Engineering Structures, 2019, 198, 109531.	2.6	12
20	Structural assessment of bridge columns with engineered cementitious composites and Cu-Al-Mn superelastic alloys. Construction and Building Materials, 2019, 203, 331-342.	3.2	18
21	Probabilistic analysis of vertical concrete dry casks subjected to tip-over and aging effects. Nuclear Engineering and Design, 2019, 343, 232-247.	0.8	11
22	Hydration of ternary Portland cement blends containing metakaolin and sodium bentonite. Cement and Concrete Research, 2019, 123, 105772.	4.6	71
23	An investigation of ballistic response of reinforced and sandwich concrete panels using computational techniques. Frontiers of Structural and Civil Engineering, 2019, 13, 1120-1137.	1.2	1
24	Dominant vibration modes for broadband frequency analysis of multiscale structures with numerous local vibration modes. International Journal for Numerical Methods in Engineering, 2019, 117, 644-692.	1.5	7
25	A numerical study of spent nuclear fuel dry storage systems under extreme impact loading. Engineering Structures, 2018, 161, 68-81.	2.6	16
26	Effect of Alkali-Silica Reactivity Damage to Tip-Over Impact Performance of Dry Cask Storage Structures. International Journal of Concrete Structures and Materials, 2018, 12, .	1.4	2
27	Advancements in Concrete Mix Designs: High-Performance and Ultrahigh-Performance Concretes from 1970 to 2016. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	50
28	Prestressing bridge girders with carbon fiberâ€“reinforced polymer: State of knowledge and research needs. Advances in Structural Engineering, 2018, 21, 598-612.	1.2	3
29	Bending Behavior of Axially Preloaded Multilayered Spiral Strands. Journal of Engineering Mechanics - ASCE, 2018, 144, .	1.6	10
30	Response of Reinforced and Sandwich Concrete Panels Subjected to Projectile Impact. , 2018, , .		2
31	Reinforced Concrete Degradation in the Harsh Climates of the Arabian Gulf: Field Study on 30-to-50-Year-Old Structures. Journal of Performance of Constructed Facilities, 2018, 32, 04018059.	1.0	20
32	Seismic behavior of 3-D ECC beam-column connections subjected to bidirectional bending and torsion. Engineering Structures, 2018, 172, 751-763.	2.6	25
33	Degradation of Natural Fiber in Cement Composites Containing Diatomaceous Earth. Journal of Materials in Civil Engineering, 2018, 30, 04018282.	1.3	12
34	Evaluation of existing provisions for design of â€œpinnedâ€•column base-plate connections. Journal of Constructional Steel Research, 2018, 148, 233-250.	1.7	6
35	Multi-hazard performance of reinforced concrete dry casks subjected to chloride attack and tip-over impact. Annals of Nuclear Energy, 2017, 108, 10-23.	0.9	11
36	Retrofitting of Full-Scale Confined Masonry Building Using Ferro-Cement Overlay. Journal of Performance of Constructed Facilities, 2017, 31, .	1.0	11

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37	Effect of Elevated Temperature on Mechanical Properties of Limestone, Quartzite and Granite Concrete. International Journal of Concrete Structures and Materials, 2017, 11, 17-28.	1.4	115
38	Added mass effect for tip-over analysis of dry cask composite structures at two different scales. Annals of Nuclear Energy, 2017, 110, 126-139.	0.9	9
39	High-cycle fatigue performance of high-mast illumination pole bases with pre-existing cracks. Journal of Constructional Steel Research, 2017, 138, 463-472.	1.7	8
40	Dynamic structural response of reinforced concrete dry storage casks subjected to impact considering material degradation. Nuclear Engineering and Design, 2017, 325, 192-204.	0.8	21
41	Accelerated Aging of Concrete Dry Cask Storage Systems for Nuclear Waste. Journal of Advanced Concrete Technology, 2016, 14, 299-310.	0.8	10
42	Life-Cycle Environmental Impact Assessment of Reinforced Concrete Buildings Subjected to Natural Hazards. Journal of Architectural Engineering, 2016, 22, .	0.8	34
43	Derivation of Seismic Design Parameters for ECC and Multi-Material Special Moment-Resisting Frames. Journal of Earthquake Engineering, 2016, 20, 1054-1076.	1.4	4
44	Life cycle sustainability assessment of RC buildings in seismic regions. Engineering Structures, 2016, 110, 347-362.	2.6	82
45	Synergistic effect of fly ash and bentonite as partial replacement of cement in mass concrete. KSCE Journal of Civil Engineering, 2016, 20, 1987-1995.	0.9	29
46	Tip-Over Simulation of Degraded Dry Storage Structures. , 2015, , .		0
47	Long-Term Performance of Dry Storage Structures. , 2015, , .		5
48	Evaluation of reinforced concrete and reinforced engineered cementitious composite (ECC) members and structures using small-scale testing. Canadian Journal of Civil Engineering, 2015, 42, 164-177.	0.7	18
49	Repair of corroded and buckled short steel columns using concrete-filled GFRP jackets. Construction and Building Materials, 2015, 94, 20-27.	3.2	28
50	Selection of an optimal lattice wind turbine tower for a seismic region based on the Cost of Energy. KSCE Journal of Civil Engineering, 2015, 19, 2179-2190.	0.9	9
51	Seismic Capacity Assessment of Unreinforced Concrete Block Masonry Buildings in Pakistan Before and After Retrofitting. Journal of Earthquake Engineering, 2015, 19, 357-382.	1.4	12
52	Influence of base-plate connection stiffness on the design of low-rise metal buildings. Journal of Constructional Steel Research, 2015, 115, 169-178.	1.7	10
53	Special Issue on Field Testing of Bridges and Buildings. Journal of Structural Engineering, 2015, 141, .	1.7	1
54	Capacity Assessment of the Titus Tunnel Bridge Using Analytical and Numerical Techniques. Journal of Performance of Constructed Facilities, 2014, 28, 349-362.	1.0	8

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55	Use of digital image correlation technique in full-scale testing of prestressed concrete structures. Measurement: Journal of the International Measurement Confederation, 2014, 47, 505-515.	2.5	114
56	Loading rate and temperature dependency of superelastic Cuâ€“Alâ€“Mn alloys. Construction and Building Materials, 2014, 53, 555-560.	3.2	30
57	Lifeâ€cycle cost assessment of RC and ECC frames using structural optimization. Earthquake Engineering and Structural Dynamics, 2013, 42, 61-79.	2.5	39
58	Numerical modeling and analysis of ECC structures. Materials and Structures/Materiaux Et Constructions, 2013, 46, 663-682.	1.3	34
59	Optimal Design of RC Frames Using Nonlinear Inelastic Analysis. Computational Methods in Applied Sciences (Springer), 2013, , 545-568.	0.1	2
60	Simulation-Based Fragility Relationships for Unreinforced Masonry Buildings. Journal of Structural Engineering, 2013, 139, 400-410.	1.7	40
61	Behavior of Concrete and ECC Structures under Simulated Earthquake Motion. Journal of Structural Engineering, 2013, 139, 389-399.	1.7	30
62	Further development of matrix-based system reliability method and applications to structural systems. Structure and Infrastructure Engineering, 2012, 8, 441-457.	2.0	40
63	The Maule (Chile) earthquake of February 27, 2010: Development of hazard, site specific ground motions and back-analysis of structures. Soil Dynamics and Earthquake Engineering, 2012, 42, 229-245.	1.9	37
64	Development and application of an advanced capacity spectrum method. Engineering Structures, 2008, 30, 3345-3354.	2.6	24
65	Fragility Relationships for Populations of Woodframe Structures Based on Inelastic Response. Journal of Earthquake Engineering, 2008, 12, 119-128.	1.4	9
66	Assessment of Stone Arch Bridges under Static Loading Using Analytical Techniques. , 2007, , 1.		2
67	Drop Test of Thick-Walled Concrete Cylinder Subjected to Shrinkage and Expansion. , 0, , .		1
68	Life Cycle Cost Considerations in Seismic Design Optimization of Structures. , 0, , 1-22.		6