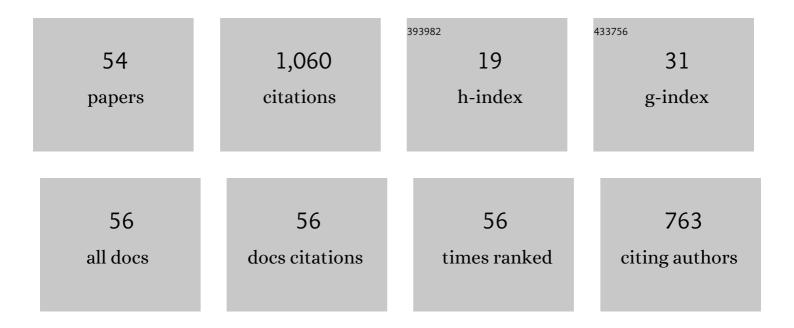
Raja Rizwan Hussain

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Corrosion performance of hot-dip galvanized zinc-aluminum coated steel rebars in comparison to the conventional pure zinc coated rebars in concrete environment. Construction and Building Materials, 2021, 274, 121921.	3.2	44
2	Quantitative Non-Linear Effect of High Ambient Temperature on Chloride Threshold Value for Steel Reinforcement Corrosion in Concrete under Extreme Boundary Conditions. Materials, 2021, 14, 7595.	1.3	2
3	Corrosion characteristics of vanadium micro-alloyed steel reinforcement bars exposed in concrete environments and industrially polluted atmosphere. Cement and Concrete Composites, 2020, 113, 103728.	4.6	22
4	Electro-chemical investigation for the effect of rebar source and surface condition on the corrosion rate of reinforced concrete structures under varying corrosive environments. Construction and Building Materials, 2020, 244, 118317.	3.2	18
5	Global sensitivity analysis of certain and uncertain factors for a circular tunnel under seismic action. Frontiers of Structural and Civil Engineering, 2019, 13, 1289-1300.	1.2	6
6	Effects of Temperature and Stress on Creep Behavior of PP and Hybrid Fiber Reinforced Reactive Powder Concrete. International Journal of Concrete Structures and Materials, 2019, 13, .	1.4	14
7	Sodium Phosphate Post-treatment on Al Coating: Morphological and Corrosion Study. Journal of Thermal Spray Technology, 2019, 28, 1511-1531.	1.6	9
8	Corrosion mechanism and kinetics of Al-Zn coating deposited by arc thermal spraying process in saline solution at prolong exposure periods. Scientific Reports, 2019, 9, 3399.	1.6	43
9	Creep behavior of steel fiber reinforced reactive powder concrete at high temperature. Construction and Building Materials, 2019, 205, 321-331.	3.2	28
10	Prediction meta-models for the responses of a circular tunnel during earthquakes. Underground Space (China), 2019, 4, 31-47.	3.4	9
11	Effect of Fibers on High-Temperature Mechanical Behavior and Microstructure of Reactive Powder Concrete. Materials, 2019, 12, 329.	1.3	55
12	Coupled effect of coarse aggregate and micro-silica on the relation between strength and elasticity of high performance concrete. Construction and Building Materials, 2018, 175, 321-332.	3.2	2
13	High temperature and residual properties of reactive powder concrete – A review. Construction and Building Materials, 2017, 147, 339-351.	3.2	160
14	Impact assessment of rainfall-vegetation on sedimentation and predicting erosion-prone region by GIS and RS. Geomatics, Natural Hazards and Risk, 2016, 7, 667-679.	2.0	6
15	Significance of oxygen concentration on the quality of passive film formation for steel reinforced concrete structures during the initial curing of concrete. Cement and Concrete Composites, 2016, 65, 171-176.	4.6	27
16	Accelerated Rusting of Reinforcing Bars: The Role of Manganese Alloying in Concrete Reinforcement Steel Bars. ACI Materials Journal, 2016, 113, .	0.3	1
17	Passive film formation and corrosion initiation in lightweight concrete structures as compared to self compacting and ordinary concrete structures at elevated temperature in chloride rich marine environment. Construction and Building Materials, 2015, 78, 144-152.	3.2	20
18	Investigation for the impact of nature of coarse aggregate on the passive layer formation and corresponding corrosion of reinforcement bars in high performance concrete. Construction and Building Materials. 2015. 100. 52-62.	3.2	8

#	Article	IF	CITATIONS
19	Incorporation preference for rubber-steel bearing isolation in retrofitting existing multi storied building. Computers and Concrete, 2015, 16, 503-529.	0.7	1
20	Mechanism of Nucleation and Growth of Passive Film on Steel Reinforcing Bar at Different Durations of its Exposure in Concrete Pore Solution at Nanoscale. ACI Materials Journal, 2015, 112, .	0.3	6
21	Economical-Structural Performance of Steel Moment Resisting Building Frames Using the Section Variation Technique. Revista De La Construccion, 2014, 13, 41-46.	0.5	2
22	Modeling of Corrosion; Steel, Concrete and Environment. Journal of Civil & Environmental Engineering, 2014, 04, .	0.1	0
23	EFFICIENT DESIGN IN BUILDING CONSTRUCTION WITH RUBBER BEARING IN MEDIUM RISK SEISMICITY: CASE STUDY AND ASSESSMENT. Journal of Civil Engineering and Management, 2014, 20, 621-631.	1.9	4
24	PARALLEL FRAMEWORK FOR EARTHQUAKE INDUCED RESPONSE COMPUTATION OF THE SDOF STRUCTURE. Journal of Civil Engineering and Management, 2014, 20, 477-484.	1.9	1
25	Time-dependent variation of the electrochemical impedance for thermo-mechanically treated versus plain low alloy steel rebars in contact with simulated concrete pore solution. Construction and Building Materials, 2014, 73, 283-288.	3.2	23
26	Role of Manganese Sulfide Inclusions in Steel Rebar in the Formation and Breakdown of Passive Films in Concrete Pore Solutions. Corrosion, 2014, 70, 74-86.	0.5	28
27	Repair Vulnerability of Corrosion Patch Repairs at the Steel Intersection Areas of Reinforced Concrete Slabs Influenced by Harsh Weather. Industrial & Engineering Chemistry Research, 2014, 53, 2656-2660.	1.8	2
28	Effect of Simulated Concrete Pore Solution Chemistry, Chloride Ions, and Temperature on Passive Layer Formed on Steel Reinforcement. ACI Materials Journal, 2014, 111, .	0.3	11
29	Computer based estimation of backbone curves for hysteretic Response of reinforced concrete columns under static cyclic lateral loads. Computers and Concrete, 2014, 14, 193-209.	0.7	1
30	Optimum structural modelling for tall buildings. Structural Design of Tall and Special Buildings, 2013, 22, 1173-1185.	0.9	8
31	Three-dimensional computer-aided finite element method retrofitting modeling and non-destructive testing techniques for the assessment of actual existing high-rise fire-damaged reinforced concrete building. Structural Design of Tall and Special Buildings, 2013, 22, 927-940.	0.9	3
32	Nonlinear dynamically automated excursions for rubber-steel bearing isolation in multi-storey construction. Automation in Construction, 2013, 30, 265-275.	4.8	27
33	Comparative study on induced macrocell corrosion phenomenon in repaired ordinary reinforced and self-compacting concrete structures. Corrosion Engineering Science and Technology, 2013, 48, 370-379.	0.7	3
34	Bond behaviour of highâ€strength concrete flexural member under low cyclic fatigue loading. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 602-613.	1.7	3
35	Non-linear FEM analysis of seismic induced pounding between neighbouring multi-storey structures. Latin American Journal of Solids and Structures, 2013, 10, 921-939.	0.6	27
36	Computer based FEM stabilization of oxygen transport model for material and energy simulation in corroding reinforced concrete. Computers and Concrete, 2013, 12, 669-680.	0.7	2

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37	Multivariable Empirical Analysis of Coupled Oxygen and Moisture for Potential and Rate of Quantitative Corrosion in Concrete. Journal of Materials in Civil Engineering, 2012, 24, 950-958.	1.3	10
38	Fiber-reinforced concrete incorporating locally available natural fibers in normal- and high-strength concrete and a performance analysis with steel fiber-reinforced composite concrete. Journal of Composite Materials, 2012, 46, 111-122.	1.2	52
39	Investigation of severe corrosion observed at intersection points of steel rebar mesh in reinforced concrete construction. Construction and Building Materials, 2012, 37, 67-81.	3.2	18
40	Coupled effect of ambient high relative humidity and varying temperature marine environment on corrosion of reinforced concrete. Construction and Building Materials, 2012, 28, 670-679.	3.2	45
41	Non-linear time domain analysis of base isolated multi-storey building under site specific bi-directional seismic loading. Automation in Construction, 2012, 22, 554-566.	4.8	42
42	Corrosion in RC construction under chloride and hot weather. Proceedings of Institution of Civil Engineers: Construction Materials, 2011, 164, 191-198.	0.7	1
43	Underwater half-cell corrosion potential bench mark measurements of corroding steel in concrete influenced by a variety of material science and environmental engineering variables. Measurement: Journal of the International Measurement Confederation, 2011, 44, 274-280.	2.5	24
44	Computer-aided oxygen transport model of mass and energy simulation for corrosion of reinforced steel. Automation in Construction, 2011, 20, 559-570.	4.8	14
45	Investigation of volumetric effect of coarse aggregate on corroding steel reinforcement at the interfacial transition zone of concrete. KSCE Journal of Civil Engineering, 2011, 15, 153-160.	0.9	14
46	Effect of moisture variation on oxygen consumption rate of corroding steel in chloride concrete. Cement and Concrete Composites, 2011, 33, 154-161.	4.6	45
47	Enhanced electro-chemical corrosion model for reinforced concrete under severe coupled action of chloride and temperature. Construction and Building Materials, 2011, 25, 1305-1315.	3.2	64
48	Influence of chloride ions and hot weather on isolated rusting steel bar in concrete based on NDT and electro-chemical model evaluation. NDT and E International, 2011, 44, 158-162.	1.7	17
49	Experimental investigation of time dependent non-linear 3D relationship between critical carbonation depth and corrosion of steel in carbonated concrete. Corrosion Engineering Science and Technology, 2011, 46, 657-660.	0.7	7
50	Enhanced mass balance Tafel slope model for computer based FEM computation of corrosion rate of steel reinforced concrete coupled with CO ₂ transport. Computers and Concrete, 2011, 8, 177-192.	0.7	4
51	Induced macro-cell corrosion phenomenon in the simulated repaired reinforced concrete patch. Australian Journal of Civil Engineering, 2010, 8, 53-60.	0.6	7
52	Development of numerical model for FEM computation of oxygen transport through porous media coupled with micro-cell corrosion model of steel in concrete structures. Computers and Structures, 2010, 88, 639-647.	2.4	25
53	Influence of connectivity of concrete pores and associated diffusion of oxygen on corrosion of steel under high humidity. Construction and Building Materials, 2010, 24, 1014-1019.	3.2	43
54	Novel Approach Towards Calculation of Averaged Activation Energy Based on Arrhenius Plot for Predicting the Effect of Temperature on Chloride Induced Corrosion of Steel in Concrete. Journal of ASTM International, 2010, 7, 1-8.	0.2	2