

# Sudharshan N Raman

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

1,876  
citations

236612

25  
h-index

264894

42  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1443  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyurea coated composite aluminium plates subjected to high velocity projectile impact. <i>Materials &amp; Design</i> , 2013, 52, 1-16.	5.1	121
2	Influences of the volume fraction and shape of steel fibers on fiber-reinforced concrete subjected to dynamic loading – A review. <i>Engineering Structures</i> , 2016, 124, 405-417.	2.6	108
3	Early-Age Cracking in Concrete: Causes, Consequences, Remedial Measures, and Recommendations. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1730.	1.3	108
4	High-strength rice husk ash concrete incorporating quarry dust as a partial substitute for sand. <i>Construction and Building Materials</i> , 2011, 25, 3123-3130.	3.2	105
5	Pozzolanic contribution of rice husk ash in cementitious system. <i>Construction and Building Materials</i> , 2013, 47, 588-593.	3.2	98
6	Experimental investigation on the tensile behavior of polyurea at high strain rates. <i>Materials &amp; Design</i> , 2013, 50, 124-129.	5.1	96
7	Plastic deformation of polyurea coated composite aluminium plates subjected to low velocity impact. <i>Materials &amp; Design</i> , 2014, 56, 696-713.	5.1	87
8	Assessment of damage to an underground box tunnel by a surface explosion. <i>Tunnelling and Underground Space Technology</i> , 2017, 66, 64-76.	3.0	87
9	Analytical and numerical investigation of polyurea layered aluminium plates subjected to high velocity projectile impact. <i>Materials and Design</i> , 2015, 82, 1-17.	3.3	73
10	Utilization of By-Products and Wastes as Supplementary Cementitious Materials in Structural Mortar for Sustainable Construction. <i>Sustainability</i> , 2020, 12, 3888.	1.6	70
11	Elastomeric Polymers for Retrofitting of Reinforced Concrete Structures against the Explosive Effects of Blast. <i>Advances in Materials Science and Engineering</i> , 2012, 2012, 1-8.	1.0	69
12	Utilization of wood waste ash in construction technology: A review. <i>Construction and Building Materials</i> , 2020, 237, 117654.	3.2	65
13	Ferrocement composites for strengthening of concrete columns: A review. <i>Construction and Building Materials</i> , 2018, 160, 326-340.	3.2	53
14	Mechanical Properties and Durability of Normal and Water Reduced High Strength Grade 60 Concrete Containing Rice Husk Ash. <i>Journal of Advanced Concrete Technology</i> , 2009, 7, 21-30.	0.8	44
15	Synthesis of nano cementitious additives from agricultural wastes for the production of sustainable concrete. <i>Journal of Cleaner Production</i> , 2018, 171, 1150-1160.	4.6	43
16	Characterization of eco-friendly steel fiber reinforced concrete containing waste coconut shell as coarse aggregates and fly ash as partial cement replacement. <i>Structural Concrete</i> , 2020, 21, 437-447.	1.5	43
17	Toward a national sustainable building assessment system in Oman: Assessment categories and their performance indicators. <i>Sustainable Cities and Society</i> , 2017, 31, 122-135.	5.1	42
18	Fresh and mechanical characteristics of roselle fibre reinforced self-compacting concrete incorporating fly ash and metakaolin. <i>Construction and Building Materials</i> , 2021, 290, 123209.	3.2	42

#	ARTICLE	IF	CITATIONS
19	Effect of Steel Fiber on the Strength and Flexural Characteristics of Coconut Shell Concrete Partially Blended with Fly Ash. <i>Materials</i> , 2022, 15, 4272.	1.3	40
20	Mechanical characterisation of sustainable fibre-reinforced lightweight concrete incorporating waste coconut shell as coarse aggregate and sisal fibre. <i>International Journal of Environmental Science and Technology</i> , 2021, 18, 1579-1590.	1.8	34
21	Fibre reinforced concrete containing waste coconut shell aggregate, fly ash and polypropylene fibre. <i>Revista Facultad De IngenierÃa</i> , 2019, , 33-42.	0.5	34
22	Modeling of Compressive Strength for Self-Consolidating High-Strength Concrete Incorporating Palm Oil Fuel Ash. <i>Materials</i> , 2016, 9, 396.	1.3	33
23	Blast Damage Assessment of Symmetrical Box-Shaped Underground Tunnel According to Peak Particle Velocity (PPV) and Single Degree of Freedom (SDOF) Criteria. <i>Symmetry</i> , 2018, 10, 158.	1.1	31
24	Autogenous Shrinkage, Microstructure, and Strength of Ultra-High Performance Concrete Incorporating Carbon Nanofibers. <i>Materials</i> , 2019, 12, 320.	1.3	30
25	Pressureâ€“Impulse (Pâ€“I) Diagrams for Reinforced Concrete (RC) Structures: A Review. <i>Archives of Computational Methods in Engineering</i> , 2019, 26, 733-767.	6.0	28
26	An investigation of key mechanical and durability properties of coconut shell concrete with partial replacement of fly ash. <i>Structural Concrete</i> , 2021, 22, E985.	1.5	25
27	The Failure Behaviour of Reinforced Concrete Panels Under Far-field and Near-field Blast Effects. <i>Structures</i> , 2018, 14, 220-229.	1.7	22
28	Axial behavior of ferrocement confined cylindrical concrete specimens with different sizes. <i>Construction and Building Materials</i> , 2015, 78, 50-59.	3.2	21
29	Structural Behavior of Fibrous-Ferrocement Panel Subjected to Flexural and Impact Loads. <i>Materials</i> , 2020, 13, 5648.	1.3	19
30	The Perception of Malaysian Architects towards the Implementation of Green Roofs: A Review of Practices, Methodologies and Future Research. <i>E3S Web of Conferences</i> , 2014, 3, 01022.	0.2	18
31	Quasi-Static Behavior of Palm-Based Elastomeric Polyurethane: For Strengthening Application of Structures under Impulsive Loadings. <i>Polymers</i> , 2016, 8, 202.	2.0	17
32	Ballistic performance of multi-metal systems. <i>International Journal of Protective Structures</i> , 2020, 11, 379-410.	1.4	17
33	An approach to improve conventional square ferrocement jacket for strengthening application of short square RC column. <i>Materials and Structures/Materiaux Et Constructions</i> , 2016, 49, 1025-1037.	1.3	16
34	Dynamic Properties of High Volume Fly Ash Nanosilica (HVFANS) Concrete Subjected to Combined Effect of High Strain Rate and Temperature. <i>Latin American Journal of Solids and Structures</i> , 2018, 15, .	0.6	15
35	Experimental and numerical investigation of an exterior reinforced concrete beam-column joint subjected to shock loading. <i>International Journal of Impact Engineering</i> , 2020, 137, 103473.	2.4	15
36	Experimental Investigation on Composite Deck Slab Made of Cold-Formed Profiled Steel Sheeting. <i>Metals</i> , 2021, 11, 229.	1.0	14

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37	Eco-friendly fiber-reinforced concretes. , 2022, , 109-145.		14
38	Low-cost evaluation techniques for information retrieval systems: A review. Journal of Informetrics, 2013, 7, 301-312.	1.4	12
39	Numerical Investigation on the Non-Linear Response of Reinforced Concrete (RC) Columns Subjected to Extreme Dynamic Loads. Journal of Asian Scientific Research, 2017, 7, 86-98.	0.0	11
40	Prediction of Residual Axial Load Carrying Capacity of Reinforced Concrete (RC) Columns Subjected to Extreme Dynamic Loads. American Journal of Engineering and Applied Sciences, 2017, 10, 431-448.	0.3	11
41	Effects of Medium Temperature and Industrial By-Products on the Key Hardened Properties of High Performance Concrete. Materials, 2015, 8, 8608-8623.	1.3	7
42	Effects of Admixtures on Energy Consumption in the Process of Ready-Mixed Concrete Mixing. Materials, 2022, 15, 4143.	1.3	7
43	Use of Coupled Smooth-Particle Hydrodynamics/Lagrangian Method in the Simulation of Deformable Projectile Penetration. International Journal of Protective Structures, 2015, 6, 419-437.	1.4	5
44	Feasible techniques for valorisation of construction and demolition waste for concreting applications. International Journal of Environmental Science and Technology, 2023, 20, 521-536.	1.8	5
45	P-I Diagram Generation for Reinforced Concrete (RC) Columns Under High Impulsive Loads Using Ale Method. Journal of Asian Scientific Research, 2017, 7, 253-262.	0.0	4
46	Sustainability of industrialised building system for housing in Malaysia. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2018, 171, 304-313.	0.4	4
47	Framework of Environmental Rating System for Home Buildings in Oman. Journal of Architectural Engineering, 2017, 23, 04017003.	0.8	3
48	Outdoor Environment of Low-cost Housing: A case study of Flat Taman Desa Sentosa. E3S Web of Conferences, 2014, 3, 01005.	0.2	2
49	Satisfaction Perception of Indoor Environment of Low-cost Housing: A case study of Flat Taman Desa Sentosa. E3S Web of Conferences, 2014, 3, 01001.	0.2	2
50	ELASTOMERIC POLYMERS FOR BLAST AND BALLISTIC RETROFITTING OF STRUCTURES. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.3	2
51	Development of an Assessment Method to Evaluate the Quality of Remedial Treatments on Concrete Flat Roofs of Multiple Buildings. Buildings, 2019, 9, 124.	1.4	2
52	Bio-Based Polyurethane Elastomer for Strengthening Application of Concrete Structures Under Dynamic Loadings. , 2018, , 751-757.		1
53	CHARACTERIZATION OF ULTRA-HIGH-PERFORMANCE CEMENTITIOUS COMPOSITE INCORPORATING CARBON NANOTUBES. Jurnal Teknologi (Sciences and Engineering), 2018, 80, .	0.3	1
54	Effects of MgO-Based Expansive Agent on the Characteristics of Expansive Concrete. Engineering Proceedings, 2021, 11, .	0.4	0

#	ARTICLE	IF	CITATIONS
55	A Review on the Effect of Fly Ash, RHA and Slag on the Synthesizing of Coal Bottom Ash (CBA) Based Geopolymer. Engineering Proceedings, 2021, 11, 20.	0.4	0