

# Shahiron Shahidan

## List of Publications by Year in descending order

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Version: 2024-02-01

125  
papers

1,246  
citations

471509

17  
h-index

477307

29  
g-index

129  
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129  
docs citations

129  
times ranked

895  
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage classification in reinforced concrete beam by acoustic emission signal analysis. <i>Construction and Building Materials</i> , 2013, 45, 78-86.	7.2	206
2	Performance of plastic wastes in fiber-reinforced concrete beams. <i>Construction and Building Materials</i> , 2018, 183, 451-464.	7.2	72
3	Utilizing Construction and Demolition (C&D) Waste as Recycled Aggregates (RA) in Concrete. <i>Procedia Engineering</i> , 2017, 174, 1028-1035.	1.2	59
4	Diagnostic of fatigue damage severity on reinforced concrete beam using acoustic emission technique. <i>Engineering Failure Analysis</i> , 2014, 41, 1-9.	4.0	50
5	Physical and Chemical Properties of Coal Bottom Ash (CBA) from Tanjung Bin Power Plant. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 160, 012056.	0.6	37
6	Properties of Concrete with Different Percentage of the Rice Husk Ash (RHA) as Partial Cement Replacement. <i>Materials Science Forum</i> , 0, 803, 288-293.	0.3	35
7	Physical and mechanical properties of self-compacting concrete containing superplasticizer and metakaolin. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 271, 012004.	0.6	33
8	Effects of Grinding Process on the Properties of the Coal Bottom Ash and Cement Paste. <i>Journal of Engineering and Technological Sciences</i> , 2019, 51, 1-13.	0.6	28
9	Splitting tensile and pullout behavior of synthetic wastes as fiber-reinforced concrete. <i>Construction and Building Materials</i> , 2018, 171, 54-64.	7.2	25
10	Concrete Incorporated with Optimum Percentages of Recycled Polyethylene Terephthalate (PET) Bottle Fiber. <i>International Journal of Integrated Engineering</i> , 2018, 10, .	0.4	25
11	A Preliminary Study On Chemical And Physical Properties Of Coconut Shell Powder As A Filler In Concrete. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 160, 012059.	0.6	23
12	Potential of Hollow Glass Microsphere as Cement Replacement for Lightweight Foam Concrete on Thermal Insulation Performance. <i>MATEC Web of Conferences</i> , 2017, 103, 01014.	0.2	22
13	Performances of concrete containing coal bottom ash with different fineness as a supplementary cementitious material exposed to seawater. <i>Engineering Science and Technology, an International Journal</i> , 2019, 22, 929-938.	3.2	22
14	A Review on Potential Use of Coal Bottom Ash as a Supplementary Cementing Material in Sustainable Concrete Construction. <i>International Journal of Integrated Engineering</i> , 2018, 10, .	0.4	22
15	Quantitative Evaluation of the Relationship between Tensile Crack and Shear Movement in Concrete Beams. <i>Advanced Materials Research</i> , 2012, 626, 355-359.	0.3	20
16	A review on seashells ash as partial cement replacement. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 271, 012059.	0.6	20
17	Seismic fragility assessment for moment-resisting concrete frame with setback under repeated earthquakes. <i>Asian Journal of Civil Engineering</i> , 2019, 20, 465-477.	1.6	20
18	Optimisation of GBFS, Fly Ash, and Nano-Silica Contents in Alkali-Activated Mortars. <i>Polymers</i> , 2021, 13, 2750.	4.5	20

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19	An Overview Current Application of Artificial Neural Network in Concrete. Advanced Materials Research, 2012, 626, 372-375.	0.3	17
20	Damage grading system for severity assessment on concrete structure. Case Studies in Construction Materials, 2016, 5, 79-86.	1.7	17
21	A Comprehensive Review on the Properties of Coal Bottom Ash in Concrete as Sound Absorption Material. MATEC Web of Conferences, 2017, 103, 01005.	0.2	16
22	Physical and Mechanical Properties of Compressed Earth Brick (CEB) Containing Sugarcane Bagasse Ash. MATEC Web of Conferences, 2016, 47, 01018.	0.2	15
23	Active crack evaluation in concrete beams using statistical analysis of acoustic emission data. Insight: Non-Destructive Testing and Condition Monitoring, 2017, 59, 24-31.	0.6	15
24	Properties of Cement Mortar Containing Rubber Ash as Sand Replacement. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012055.	0.6	14
25	Reducing Heavy Metal Element from Coal Bottom Ash by Using Citric Acid Leaching Treatment. MATEC Web of Conferences, 2017, 103, 01004.	0.2	13
26	A review on the suitability of rubberized concrete for concrete bridge decks. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012074.	0.6	13
27	Acoustic and non-acoustic performance of coal bottom ash concrete as sound absorber for wall concrete. Case Studies in Construction Materials, 2020, 13, e00399.	1.7	13
28	Damage severity evaluation on reinforced concrete beam by means of acoustic emission signal and intensity analysis. , 2011, , .		12
29	The effect on slurry water as a fresh water replacement in concrete properties. IOP Conference Series: Materials Science and Engineering, 2016, 133, 012041.	0.6	12
30	Compressive and flexural strength of concrete containing palm oil biomass clinker and polypropylene fibres. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012011.	0.6	11
31	Relationship between acoustic emission signal strength and damage evaluation of reinforced concrete structure: Case studies. , 2011, , .		10
32	Strength Development and Water Permeability of Engineered Biomass Aggregate Pervious Concrete. MATEC Web of Conferences, 2016, 47, 01007.	0.2	10
33	Effects of heating durations on normal concrete residual properties: compressive strength and mass loss. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012013.	0.6	10
34	Relationship of Physical Parameters in Pb-Contaminated by Stabilization/Solidification Method. MATEC Web of Conferences, 2016, 47, 03015.	0.2	9
35	Properties of Concrete Mixes with Carwash Wastewater. MATEC Web of Conferences, 2017, 87, 01018.	0.2	9
36	Compressive and tensile strength for concrete containing coal bottom ash. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012055.	0.6	9

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37	A review on the current issues and barriers of Industrialised Building System (IBS) adoption in Malaysia's construction industry. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012031.	0.6	9
38	Suitability of Coconut Shell Concrete for Precast Cool Wall Panel-A Review. MATEC Web of Conferences, 2017, 87, 01005.	0.2	9
39	Compressive strength and initial water absorption rate for cement brick containing high-density polyethylene (HDPE) as a substitutional material for sand. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012083.	0.6	9
40	An investigation on acoustic wave velocity of reinforced concrete beam in-plane source. , 2011, , .		8
41	An observation of noise intervention into acoustic emission signal on concrete structure. , 2011, , .		8
42	Health Index Evaluation on Acoustic Emission Signal for Concrete Structure by Intensity Analysis Method. Advanced Materials Research, 0, 403-408, 3729-3733.	0.3	8
43	Analysis of Physical Properties and Mineralogical of Pyrolysis Tires Rubber Ash Compared Natural Sand in Concrete material. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012053.	0.6	8
44	Crack classification in concrete beams using AE parameters. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012090.	0.6	8
45	The durability of concrete containing recycled tyres as a partial replacement of fine aggregate. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012075.	0.6	8
46	Influence of Ground Coal Bottom Ash on the Properties of Concrete. International Journal of Sustainable Construction Engineering and Technology, 2018, 9, .	0.3	8
47	Amplitude Distribution of Emission Wave for Cracking Process. MATEC Web of Conferences, 2016, 47, 02013.	0.2	7
48	A Review on Waste Minimization by Adopting in Self Compacting Concrete. MATEC Web of Conferences, 2016, 47, 01003.	0.2	7
49	Experimental Study of Slurry Infiltrated Fiber Reinforced Concrete. Materials Science Forum, 0, 857, 363-366.	0.3	7
50	Properties of concrete containing coconut shell powder (CSP) as a filler. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012006.	0.6	7
51	Strength and Acid Resistance of Ceramic-Based Self-Compacting Alkali-Activated Concrete: Optimizing and Predicting Assessment. Materials, 2021, 14, 6208.	2.9	7
52	Workability and Compressive Strength for Concrete With Coconut Shell Aggregate. MATEC Web of Conferences, 2017, 87, 01017.	0.2	6
53	Strength development of pervious concrete containing engineered biomass aggregate. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012002.	0.6	6
54	Review of palm oil fuel ash and ceramic waste in the production of concrete. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012051.	0.6	6

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55	The Effect of Water Cement Ratio on Cement Brick Containing High Density Polyethylene (HDPE) as Sand Replacement. MATEC Web of Conferences, 2018, 150, 03010.	0.2	6
56	Overview of moment tensor analysis of acoustic emission signal in evaluation concrete structure. , 2011, , .		5
57	Applications of Acoustic Emission Technique Associated with the Fracture Process Zone in Concrete Beam " A Review. Advanced Materials Research, 2012, 626, 147-151.	0.3	5
58	Strength of Concrete Containing Rubber Particle as Partial Cement Replacement. MATEC Web of Conferences, 2016, 47, 01009.	0.2	5
59	The optimum content of rubber ash in concrete: flexural strength. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012009.	0.6	5
60	Effect of re-vibration on the compressive strength and surface hardness of concrete. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012057.	0.6	5
61	Self-consolidating concretes containing waste PET bottles as sand replacement. AIP Conference Proceedings, 2018, , .	0.4	5
62	Performance of composite sand cement brick containing recycle concrete aggregate and waste polyethylene terephthalate with different mix design ratio. IOP Conference Series: Earth and Environmental Science, 2018, 140, 012129.	0.3	5
63	Performance of concrete containing mussel shell (Perna viridis) ash under effect of sodium chloride curing. IOP Conference Series: Materials Science and Engineering, 2019, 601, 012033.	0.6	5
64	Mechanical properties of coconut shell-based concrete: experimental and optimisation modelling. Environmental Science and Pollution Research, 2022, 29, 21140-21155.	5.3	5
65	Analysis of the AE signals parameter at the critical area on the concrete beam. , 2012, , .		4
66	A REVIEW ON PERFORMANCE OF WASTE MATERIALS IN SELF COMPACTING CONCRETE (SCC). Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	4
67	Influence of Asphalt Dust Waste Material in Mix Design for Self-Compacting Concrete. Key Engineering Materials, 2017, 730, 473-478.	0.4	4
68	A review of the application Acoustic Emission (AE) incorporating mechanical approach to monitor Reinforced concrete (RC) strengthened with Fiber Reinforced Polymer (FRP) properties under fracture. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012086.	0.6	4
69	Fundamental and assessment of concrete structure monitoring by using acoustic emission technique testing: A review. IOP Conference Series: Earth and Environmental Science, 2018, 140, 012142.	0.3	4
70	Review of coal bottom ash and coconut shell in the production of concrete. IOP Conference Series: Materials Science and Engineering, 2018, 342, 012032.	0.6	4
71	Coal bottom ash as a sustainable supplementary cementitious material for the concrete exposed to seawater. AIP Conference Proceedings, 2019, , .	0.4	4
72	Strength Properties of Untreated Coal Bottom Ash as Cement Replacement. Journal of the Civil Engineering Forum, 2020, 6, 13.	0.6	4

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73	Laminated Veneer Lumber (LVL) Sengon: An Innovative Sustainable Building Material in Indonesia. International Journal of Integrated Engineering, 2018, 10, .	0.4	4
74	Evaluate the Expressions of Compression Strength and UPV Relationship. International Journal of Integrated Engineering, 2018, 10, .	0.4	4
75	Classification of Damage Mode of Reinforced Concrete Beams Using Acoustic Emission Technique. Advanced Materials Research, 2012, 626, 953-957.	0.3	3
76	Behavior of Fire Exposed Concrete-Filled Double Skin Steel Tubular (CFDST) Columns under Concentric Axial Loads. Applied Mechanics and Materials, 0, 773-774, 938-942.	0.2	3
77	A Comprehensive Review on the Effectiveness of Existing Noise Barriers commonly used in the Railway Industry. MATEC Web of Conferences, 2017, 87, 01007.	0.2	3
78	Utilizing Slurry and Carwash Wastewater as Fresh Water Replacement in Concrete Properties. MATEC Web of Conferences, 2017, 103, 01020.	0.2	3
79	A Preliminary Study Application Clustering System in Acoustic Emission Monitoring. MATEC Web of Conferences, 2017, 103, 02027.	0.2	3
80	Concrete-Filled Double Skin Steel Tubular Columns Exposed to ASTM E-119 Fire Curve for 60 and 90 Minutes of Fire. MATEC Web of Conferences, 2017, 103, 02009.	0.2	3
81	The effect of sludge water treatment plant residuals on the properties of compressed brick. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012052.	0.6	3
82	Preliminary evaluation of physical and chemical characterization of waste palm oil shell as cool material replaced in asphaltic concrete as fine aggregate. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012054.	0.6	3
83	An Utilization of Palm Fuel Ash (POFA) and Ceramic Waste as Cement Materials Replacement in Concrete Production. International Journal of Engineering and Technology(UAE), 2018, 7, 89.	0.3	3
84	Analysis methods of Acoustic Emission signal for monitoring of reinforced concrete structure: A review. , 2011, , .		2
85	The Behaviours of Steel Fiber as Main Reinforcement in High Performance Slurry Infiltrated Fiber Reinforced Concrete. Key Engineering Materials, 2013, 594-595, 34-38.	0.4	2
86	Effect of Diameter on Fire Exposed Concrete-Filled Double Skin Steel Tubular (CFDST) Columns under Concentric Axial Loads. Applied Mechanics and Materials, 0, 802, 130-135.	0.2	2
87	RELATIONSHIP BETWEEN AE SIGNAL STRENGTH AND ABSOLUTE ENERGY IN DETERMINING DAMAGE CLASSIFICATION OF CONCRETE STRUCTURES. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.4	2
88	Forensic Building: Deterioration and Defect in Concrete Structures. MATEC Web of Conferences, 2017, 103, 02016.	0.2	2
89	Enhancing the compressive strength of landfill soil using cement and bagasse ash. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012053.	0.6	2
90	Efficiency of Polyethylene Terephthalate (PET) Waste Fiber in Concrete Material by Means of Ultrasonic Velocity Method. SSRG International Journal of Engineering Trends and Technology, 2020, 68, 18-24.	0.5	2

#	ARTICLE	IF	CITATIONS
91	An Investigation of an Acoustic Wave Velocity in a Reinforced Concrete Beam from Out-of Plane and in Plane Sources. , 2013, , .		1
92	Seismic Fragility Curves of Industrial Buildings by Using Nonlinear Analysis. MATEC Web of Conferences, 2017, 103, 02017.	0.2	1
93	Sound absorption coefficient of coal bottom ash concrete for railway application. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012077.	0.6	1
94	The comparison of properties and cost of material use of natural rubber and sand in manufacturing cement mortar for construction sub-base layer. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012017.	0.6	1
95	Durability of coconut shell powder (CSP) concrete. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012007.	0.6	1
96	Establishment of Strength Prediction Equation for Concrete Containing Coal Bottom Ash Exposed to Aggressive Environment. Silicon, 2021, 13, 3999-4011.	3.3	1
97	Performance of Modified Mortar Containing Epoxy. IOP Conference Series: Materials Science and Engineering, 2020, 713, 012004.	0.6	1
98	Strength and Quality Assessment of Recycled Aggregate and Crumb Rubber Concrete Using the Ultra Pulse Velocity Method. Lecture Notes in Civil Engineering, 2020, , 799-806.	0.4	1
99	Characterization of Palm Oil Fuel Ash as Cementitious Supplement: A Review. ACI Materials Journal, 2019, 116, .	0.2	1
100	Compressive and Flexural Strength of Concrete Containing Palm Oil Biomass Clinker with Hooked-End Steel Fibers. International Journal of Integrated Engineering, 2018, 10, .	0.4	1
101	Identifying the Crack Nature Using b-Value Acoustic Emission Signal Analysis. Lecture Notes in Civil Engineering, 2020, , 1065-1076.	0.4	1
102	Environmental Noise. SpringerBriefs in Applied Sciences and Technology, 2020, , 15-24.	0.4	1
103	Existing Noise Level at Railway Stations in Malaysia. MATEC Web of Conferences, 2017, 103, 09012.	0.2	0
104	Failure Behaviour of Concrete Prisms Strengthened by Various Bond Widths of Carbon Fibre Reinforced Polymer (CFRP). MATEC Web of Conferences, 2017, 103, 02015.	0.2	0
105	Vulnerability Assessment of Building Frames Subjected to Progressive Collapse Caused by Earthquake. MATEC Web of Conferences, 2017, 103, 02019.	0.2	0
106	Awareness of the Installation the Lightning Protection System (LPS) by Using Structural Bonding Method in Malaysia. MATEC Web of Conferences, 2017, 103, 03022.	0.2	0
107	Design reinforced concrete structures: Differences in procedure, formula, and results between Eurocode 2 and British Standard 8110. AIP Conference Proceedings, 2017, , .	0.4	0
108	Preliminary Study on Remediation of Contaminated Clay Soil Using Cement and Sugarcane Bagasse. MATEC Web of Conferences, 2017, 103, 07001.	0.2	0



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109	Study on effects of different patterns and cracking for wastes FRP (used banner) wrapping on compressive strength of confined concrete. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012016.	0.6	0
110	Potential of utilizing asphalt dust waste as filler material in the production of sustainable self compacting concrete (SCC). AIP Conference Proceedings, 2017, , .	0.4	0
111	Alternative design of pipe sleeve for liquid removal mechanism in mortar slab layer. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012024.	0.6	0
112	A Preliminary Modified Volumetric Mix Design for Self-Compacting Concrete (SCC) by Utilizing Asphalt Dust Waste (ADW). MATEC Web of Conferences, 2017, 103, 01008.	0.2	0
113	Strengthening and repair of RC beams with sugarcane bagasse fiber reinforced cement mortar. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012064.	0.6	0
114	Axial compression behaviour of cross laminated wood-wool panel wallettes. IOP Conference Series: Materials Science and Engineering, 2017, 271, 012072.	0.6	0
115	Asphalt dust waste material as a paste volume in developing sustainable self compacting concrete (SCC). AIP Conference Proceedings, 2017, , .	0.4	0
116	The mechanical properties of brick containing recycled concrete aggregate and polyethylene terephthalate waste as sand replacement. E3S Web of Conferences, 2018, 34, 01001.	0.5	0
117	Stress Intensity and Crack Pattern of Reinforced Concrete Beam Embedded With Lightning Protection Cable. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012195.	0.6	0
118	Relationship between Ultrasonic-Pulse Velocity and Compression Test for Different Grade of Concrete. IOP Conference Series: Materials Science and Engineering, 2020, 864, 012119.	0.6	0
119	Performance study on mounting system for displacement transducer in mechanical tests of timber samples using photogrammetry method. Wood Material Science and Engineering, 0, , 1-17.	2.3	0
120	Thermal Conductivity of Crumb Rubber as Partial Sand Replacement and Recycled Aggregates as Partial Coarse Aggregate Replacement in Concrete. Lecture Notes in Civil Engineering, 2020, , 1007-1013.	0.4	0
121	Acoustic Performance Testing of CBA Concrete. SpringerBriefs in Applied Sciences and Technology, 2020, , 25-32.	0.4	0
122	Comparative Evaluation on the MOE between EN, BS and ASTM of Concrete Containing PET. IOP Conference Series: Materials Science and Engineering, 0, 713, 012018.	0.6	0
123	Acoustic Performance of CBA Concrete. SpringerBriefs in Applied Sciences and Technology, 2020, , 33-45.	0.4	0
124	Coal Bottom Ash (CBA). SpringerBriefs in Applied Sciences and Technology, 2020, , 3-14.	0.4	0
125	Effects of Recycled Aggregate Resin (RAR) in Concrete Material. International Journal of Sustainable Construction Engineering and Technology, 2020, 11, .	0.3	0