



Mohamed Moafak Arbili

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I am an Academic Researcher in Erbil Polytechnic University, Erbil, Iraq. I got a bachelor's degree in Civil Engineering (2000-2004) from University of Anbar, MSc. degrees in civil engineering-construction materials, from Hasan Kalyoncu University, Turkey (2013-2015). Specialized in materials technology, High strength, and high ductility materials, Geo-polymer Concrete, Eco-friendly materials. PhD. degree in Civil engineering, from Hasan Kalyoncu University, Turkey (2015-2019).

Current affiliation:

- Erbil Polytechnic University from 2011

Publication Metrics

For manuscripts published from date range January 2015 - October 2024

14

H-index

39

Total Publications

400

Sum of Times Cited

27

Web of Science Core Collection Publications

For all time

14

H-index

39

Total Publications

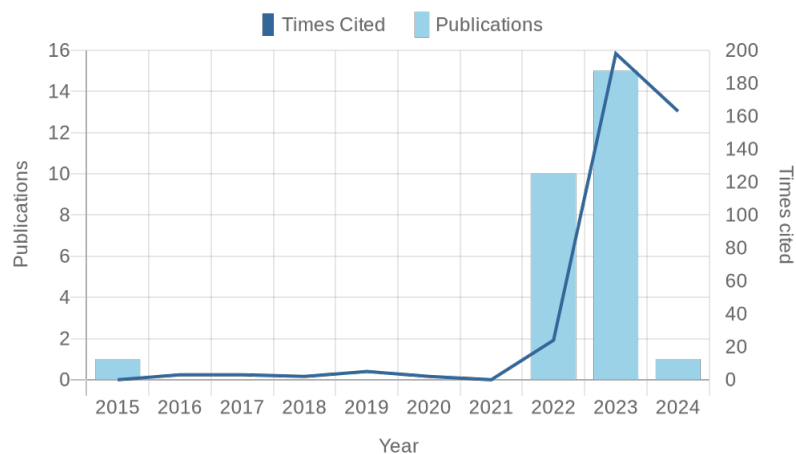
400

Sum of Times Cited

27

Web of Science Core Collection Publications

Publication Impact Over Time



Publishing Summary

For manuscripts published from date range January 2015 - October 2024

| | |
|--|---|
| (4) Polytechnic Journal | (4) Materials |
| (3) Buildings | (3) Case Studies in Construction Mat... |
| (2) ZANCO Journal of Pure and Appli... | (2) Construction and Building Materi... |
| (2) Journal of Engineered Fibers and... | (2) Sustainability |
| (2) Plos One | (1) International Journal of Advance... |
| (1) Key Engineering Materials | (1) The Journal of Duhok University |
| (1) IOP Conference Series: Earth an... | (1) Geotechnical Engineering and S... |
| (1) Ain Shams Engineering Journal | (1) Journal of the Mechanical Behavi... |
| (1) Science and Engineering of Com... | (1) Journal of Engineering Science a... |
| (1) International Journal of Concrete... | (1) Journal of Engineering |
| (1) Journal of Sustainable Cement-B... | (1) Nanotechnology Reviews |
| (1) Mathematical Biosciences and E... | (1) Heliyon |

Publications

For manuscripts published from date range January 2015 - October 2024 (39)

Times Cited
(All time)

A Study on the Properties of Geopolymer Concrete Modified with Nano Graphene Oxide

57

Authors (10): Maglad, Ahmed M.; Zaid, Osama ... De Prado-Gil, Jesus

Published: Aug 2022 in Buildings

DOI: 10.3390/BUILDINGS12081066

Accession Number: WOS:000845099200001

| | |
|--|----|
| Impact of Nano-silica on the hydration, strength, durability, and microstructural properties of concrete: A state-of-the-art review Authors (6): Althoey, Fadi; Zaid, Osama ... Arbili, Mohamed M. Published: Jul 2023 in Case Studies in Construction Materials DOI: 10.1016/J.CSCM.2023.E01997 Accession Number: WOS:000955613600001 | 44 |
| Explicit formulation of drying and autogenous shrinkage of concretes with binary and ternary blends of silica fume and fly ash Authors (2): Mermerdas, Kasim; Arbili, Mohamed Moafak Published: Sep 2015 in Construction and Building Materials DOI: 10.1016/J.CONBUILDMAT.2015.07.074 Accession Number: WOS:000359875200038 | 41 |
| Performance of concrete reinforced with jute fibers (natural fibers): A review Authors (6): Ahmad, Jawad; Arbili, Mohamed Moafak ... Rahmawati, Cut Published: Sep 2022 in Journal of Engineered Fibers and Fabrics DOI: 10.1177/15589250221121871 Accession Number: WOS:000855327100001 | 31 |
| Physical, strength, durability and microstructural analysis of self-healing concrete: A systematic review Authors (7): Althoey, Fadi; Zaid, Osama ... Yosri, Ahmed. M. Published: Jul 2023 in Case Studies in Construction Materials DOI: 10.1016/J.CSCM.2022.E01730 Accession Number: WOS:001003760300001 | 27 |
| A Review on Failure Modes and Cracking Behaviors of Polypropylene Fibers Reinforced Concrete Authors (6): Ahmad, Jawad; Burduhos-Nergis, Dumitru Doru ... Deifalla, Ahmed Farouk Published: Nov 2022 in Buildings DOI: 10.3390/BUILDINGS12111951 Accession Number: WOS:000895032400001 | 22 |
| Basalt Fiber Reinforced Concrete: A Compressive Review on Durability Aspects Authors (7): Al-Kharabsheh, Buthainah Nawaf; Arbili, Mohamed Moafak ... Deifalla, Ahmed Farouk Published: Jan 2023 in Materials DOI: 10.3390/MA16010429 Accession Number: WOS:000908875500001 | 20 |
| Effect of fly ash and waste glass powder as a fractional substitute on the performance of natural fibers reinforced concrete Authors (6): Althoey, Fadi; Zaid, Osama ... Arbili, Mohamed M. Published: Dec 2023 in Ain Shams Engineering Journal DOI: 10.1016/J.ASEJ.2023.102247 Accession Number: WOS:001132720000001 | 18 |

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|---|----|
| <p>Experimental study on the properties of ultra-high-strength geopolymer concrete with polypropylene fibers and nano-silica</p> <p>Authors (6): Althoey, Fadi; Zaid, Osama ... Arbili, Mohamed M.</p> <p>Published: Apr 2023 in Plos One</p> <p>DOI: 10.1371/JOURNAL.PONE.0282435</p> <p>Accession Number: WOS:000985308900105</p> | 18 |
| <p>Concrete Made with Iron Ore Tailings as a Fine Aggregate: A Step towards Sustainable Concrete</p> <p>Authors (5): Arbili, Mohamed Moafak; Alqurashi, Muwaffaq ... Deifalla, Ahmed Farouk</p> <p>Published: Sep 2022 in Materials</p> <p>DOI: 10.3390/MA15186236</p> <p>Accession Number: WOS:000856810100001</p> | 17 |
| <p>Concrete made with partially substitution corn cob ash: A review</p> <p>Authors (4): Ahmad, Jawad; Arbili, Mohamed Moafak ... Deifalla, Ahmed Farouk</p> <p>Published: Jul 2023 in Case Studies in Construction Materials</p> <p>DOI: 10.1016/J.CSCM.2023.E02100</p> <p>Accession Number: WOS:000989994800001</p> | 16 |
| <p>Determining engineering properties of ultra-high-performance fiber-reinforced geopolymer concrete modified with different waste materials</p> <p>Authors (6): Althoey, Fadi; Zaid, Osama ... Arbili, Mohamed M.</p> <p>Published: May 2023 in Plos One</p> <p>DOI: 10.1371/JOURNAL.PONE.0285692</p> <p>Accession Number: WOS:000993736200026</p> | 16 |
| <p>Basalt Fibers Reinforced Concrete: Strength and Failure Modes</p> <p>Authors (7): AL-Kharabsheh, Buthainah Nawaf; Arbili, Mohamed Moafak ... Deifalla, Ahmed Farouk</p> <p>Published: Oct 2022 in Materials</p> <p>DOI: 10.3390/MA15207350</p> <p>Accession Number: WOS:000873337500001</p> | 16 |
| <p>A Review on Strength and Durability Properties of Wooden Ash Based Concrete</p> <p>Authors (6): AL-Kharabsheh, Buthainah Nawaf; Arbili, Mohamed Moafak ... Hakamy, A.</p> <p>Published: Oct 2022 in Materials</p> <p>DOI: 10.3390/MA15207282</p> <p>Accession Number: WOS:000873137400001</p> | 16 |
| <p>A Review on Sustainable Concrete with the Partially Substitutions of Silica Fume as a Cementitious Material</p> <p>Authors (6): Ahmad, Jawad; Abid, Sallal R. ... Deifalla, Ahmed Farouk</p> <p>Published: Oct 2022 in Sustainability</p> <p>DOI: 10.3390/SU141912075</p> <p>Accession Number: WOS:000867242300001</p> | 12 |

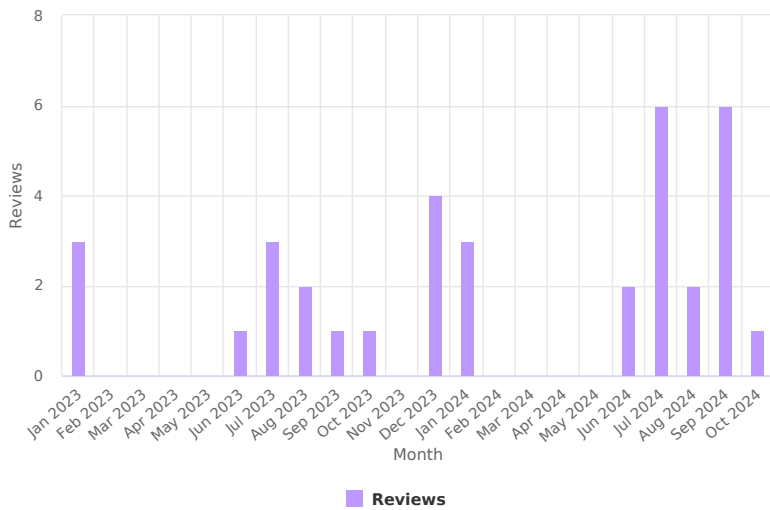
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|---|---|
| <p>Systematic review on geopolymers modified with nanomaterials and thin films: Enhancing performance and sustainability in construction</p> <p>Authors (6): Alaskar, Abdulaziz; Mahmood, Muhammad Sarmad ... Arbili, Mohamed M.</p> <p>Published: Dec 2023 in Construction and Building Materials</p> <p>DOI: 10.1016/J.CONBUILDMAT.2023.133888</p> <p>Accession Number: WOS:001106425900001</p> | 6 |
| <p>Feasibility Study on Concrete Made with Substitution of Quarry Dust: A Review</p> <p>Authors (7): AL-Kharabsheh, Buthainah Nawaf; Arbili, Mohamed Moafak ... Alqawasmeh, Hasan Majed</p> <p>Published: Nov 2022 in Sustainability</p> <p>DOI: 10.3390/SU142215304</p> <p>Accession Number: WOS:000887700500001</p> | 4 |
| <p>Mechanical, Durability and Microstructure Analysis Overview of Concrete Made with Metakaolin (MTK)</p> <p>Authors (5): Ahmad, Jawad; Majdi, Ali ... Naqash, Muhammad Tayyab</p> <p>Published: Sep 2022 in Buildings</p> <p>DOI: 10.3390/BUILDINGS12091401</p> <p>Accession Number: WOS:000856332600001</p> | 4 |
| <p>A state-of-the-art review of the physical and durability characteristics and microstructure behavior of ultra-high-performance geopolymer concrete</p> <p>Authors (6): Hakeem, Ibrahim Y.; Zaid, Osama ... Alharthai, Mohammad</p> <p>Published: Jan 2024 in Heliyon</p> <p>DOI: 10.1016/J.HELIYON.2024.E24263</p> <p>Accession Number: WOS:001165541200001</p> | 3 |
| <p>Evaluation of Factors Affecting the Competitive Advantage of Organizations in Establishing Sustainable Project Management Post Covid-19</p> <p>Authors (12): Bageis, Abdulrahman S.; Waqar, Ahsan ... Benjddou, Omrane</p> <p>Published: Nov 2023 in Journal of Engineering</p> <p>DOI: 10.1155/2023/3529313</p> <p>Accession Number: WOS:001112440700001</p> | 3 |
| <p>Thermal properties, microstructure analysis, and environmental benefits of basalt fiber reinforced concrete</p> <p>Authors (7): Qsymah, Ansam; Arbili, Mohamed Moafak ... oezkilic, Yasin Onuralp</p> <p>Published: Jan 2023 in Journal of Engineered Fibers and Fabrics</p> <p>DOI: 10.1177/15589250221146547</p> <p>Accession Number: WOS:000998826900001</p> | 2 |
| <p>Development of novel ultra-high-performance lightweight concrete modified with dehydrated cement powder and aerogel</p> <p>Authors (5): Shohan, Ahmed Ali A.; Zaid, Osama ... Ibrahim, Wafeek Mohamed</p> <p>Published: 2023 in Journal of Sustainable Cement-Based Materials</p> <p>DOI: 10.1080/21650373.2023.2278134</p> <p>Accession Number: WOS:001095904000001</p> | 2 |

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| <p>The effect of materials and curing system on the behavior of self-compacting geopolymer concrete</p> <p>Authors (4): Al-Bayati, Maan A.; Abdulrahman, Mazin B. ... Arbili, Mohamed M.</p> <p>Published: Sep 2022 in Journal of the Mechanical Behavior of Materials</p> <p>DOI: 10.1515/JMBM-2022-0206</p> <p>Accession Number: WOS:000850293300001</p> | 2 |
| <p>Properties of ultra-high-performance self-compacting fiber-reinforced concrete modified with nanomaterials</p> <p>Authors (8): Althoey, Fadi; Zaid, Osama ... Yosri, Ahmed M.</p> <p>Published: Nov 2023 in Nanotechnology Reviews</p> <p>DOI: 10.1515/NTREV-2023-0118</p> <p>Accession Number: WOS:001106114500001</p> | 1 |
| <p>Sustainable concrete with partial substitution of paper pulp ash: A review</p> <p>Authors (6): Ahmad, Jawad; Arbili, Mohamed Moafak ... Althoey, Fadi</p> <p>Published: Apr 2023 in Science and Engineering of Composite Materials</p> <p>DOI: 10.1515/SECM-2022-0193</p> <p>Accession Number: WOS:000980376500001</p> | 1 |
| <p>Stability risk assessment of slopes using logistic model tree based on updated case histories</p> <p>Authors (6): Ahmad, Feezan; Tang, Xiao-Wei ... Arbili, Mohamed Moafak</p> <p>Published: 2023 in Mathematical Biosciences and Engineering</p> <p>DOI: 10.3934/MBE.2023939</p> <p>Accession Number: WOS:001122870200002</p> | 1 |
| <p>Concrete Made with Partial Substitutions of Wheat Straw Ash: A Review</p> <p>Authors (5): Ahmad, Jawad; Arbili, Mohamed Moafak ... Deifalla, Ahmed Farouk</p> <p>Published: Oct 2023 in International Journal of Concrete Structures and Materials</p> <p>DOI: 10.1186/S40069-023-00616-1</p> <p>Accession Number: WOS:001074015700001</p> | 0 |
| <p>Plants as bioindicators of heavy metal pollution</p> <p>Authors (1): Mohamed Moafak ARBILI</p> <p>Published: Apr 2023 in ZANCO Journal of Pure and Applied Sciences</p> <p>DOI: 10.21271/ZJPAS</p> | <div style="background-color: #444; color: white; padding: 5px; text-align: center;">Not indexed in the Web of Science</div> |
| <p>Triaxial Compression Behavior of Sandy Soil Polluted with Crude Oil</p> <p>Authors (4): Farman K. Ghaffoori; Mohamed M. Arbili ... Talib K. Ibrahim</p> <p>Published: Mar 2022 in Geotechnical Engineering and Sustainable Construction</p> <p>DOI: 10.1007/978-981-16-6277-5_3</p> | <div style="background-color: #444; color: white; padding: 5px; text-align: center;">Not indexed in the Web of Science</div> |
| <p>EXPERIMENTAL MEASUREMENT OF UNDRAINED SHEAR STRENGTH OF FINE GRAINED SOIL-CRUDE OIL MIXTURES USING DIFFERENT TECHNIQUES</p> <p>Authors (3): Awad, M.A.; Khalaf, M.M.; Arbili, M.M.</p> <p>Published: 2022 in Journal of Engineering Science and Technology</p> | <div style="background-color: #444; color: white; padding: 5px; text-align: center;">Not indexed in the Web of Science</div> |

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| <p>Utilization of Styrene-Butadiene Rubber (SBR) Polymer Replacement of Fine Aggregate in Concrete Authors (5): Mohamed M. Arbili; Farman K. Ghaffoori ... Talib K. Ibrahim Published: Sep 2021 in IOP Conference Series: Earth and Environmental Science DOI: 10.1088/1755-1315/856/1/012032</p> | <p>Not indexed in the Web of Science</p> |
| <p>Effect of Slag on Engineering Properties of Contamination Soil Authors (3): Mohamed Moafak Arbili; Mohamed Karpuzcu; Farman Khalil Published: Aug 2020 in Key Engineering Materials DOI: 10.4028/WWW.SCIENTIFIC.NET/KEM.857.253</p> | <p>Not indexed in the Web of Science</p> |
| <p>Impact of Silica Fume on the Strength Characterizes of Contaminated Soil Authors (3): Mohamed M. Arbili; Mehmed Karpuzcu; Mohammed M. Ali Published: Jun 2020 in Polytechnic Journal DOI: 10.25156/PTJ.V10N1Y2020.PP6-11</p> | <p>Not indexed in the Web of Science</p> |
| <p>Effects of Fly Ash and Granulated Ground Blast Furnace Slag on Stabilization of Crude Oil Contamination Sandy Soil Authors (2): Farman K. Ghaffoori; Mohamed M. Arbili Published: Dec 2019 in Polytechnic Journal DOI: 10.25156/PTJ.V9N2Y2019.PP80-85</p> | <p>Not indexed in the Web of Science</p> |
| <p>AN ASSESSMENT OF THE EFFECTS OF LIGHT CRUDE OIL ON THE GEOTECHNICAL PROPERTIES OF A SOIL Authors (1): Mohamed Moafak ARBILI Published: Dec 2018 in International Journal of Advances in Mechanical and Civil Engineering (IJAMCE)</p> | <p>Not indexed in the Web of Science</p> |
| <p>EFFECT THE SHAPE OF GRAVEL ON IMPROVING CBR AND COMPACTION BEHAVIOUR OF CLAYEY SOIL Authors (1): WALEED SULAIMAN MUSTAFA Published: Nov 2018 in The Journal of Duhok University DOI: 10.26682/SJUOD.2018.21.2.12</p> | <p>Not indexed in the Web of Science</p> |
| <p>VALIDATION OF FERET REGRESSION MODEL FOR FLY ASH BASED GEOPOLYMER CONCRETE Authors (1): Peshkawt Saleh Published: Aug 2018 in Polytechnic Journal DOI: 10.25156/PTJ.2018.8.3.310</p> | <p>Not indexed in the Web of Science</p> |
| <p>Effect of Crude Oil Contamination on physical and Chemical Properties of Soil of Tarjan Refineries Erbil Province - North of Iraq Authors (1): Mohamed ARBILI Published: Jun 2018 in Polytechnic Journal DOI: 10.25156/PTJ.2018.8.2.216</p> | <p>Not indexed in the Web of Science</p> |
| <p>Statistical analysis of the performance of the soft computing based prediction model for shrinkage of concrete including mineral admixtures Authors (1): Mohamed Moafak ARBILI Published: Jul 2016 in ZANCO Journal of Pure and Applied Sciences</p> | <p>Not indexed in the Web of Science</p> |

Verified Reviews

Review Summary



Reviewer Summary

For manuscripts reviewed from date range January 2015 - October 2024

| | |
|---|--|
| (5) Buildings | (4) Computers, Materials and Contin... |
| (4) International Research Conferen... | (3) Advances in Civil Engineering |
| (3) Journal of Asian Architecture and... | (3) International Engineering Confer... |
| (2) International Conference on The... | (1) Case Studies in Construction Mat... |
| (1) Al-Qadisiyah Journal for Enginee... | (1) Diyala Journal of Engineering Sci... |
| (1) Proceedings of the Institution of ... | (1) International Journal of Concrete... |
| (1) Cogent Engineering | (1) Iraqi Journal of Civil Engineering ... |
| (1) Qeios | (1) Sustainable Environmental Insight |
| (1) Computers and Concrete | (1) International Conference on Envi... |

35 REVIEWS OF 29 MANUSCRIPTS

For manuscripts published from date range January 2015 - October 2024

Machine learning-based strength prediction of round-ended concrete-filled steel tube
2 rounds from Sep 2024 to Oct 2024 for Buildings

The Effect of Coarse Aggregate Shape on Pipe Wear of Concrete Pumping based on CFD-DEM
Reviewed: Sep 2024 for Buildings

Mechanical Properties of Hybrid Fibers and Nano Silica Reinforced Concrete During Exposure to Elevated Temperatures
Reviewed: Sep 2024 for Case Studies in Construction Materials

Experimental investigation into flexural performance of the corrosion-affected high-speed rail box beam using a scale-down model
Reviewed: Sep 2024 for Buildings

Recovery of Palm Tree Waste Into Plant Fibers for Reinforcing Construction Concrete

Reviewed: Sep 2024 for Al-Qadisiyah Journal for Engineering Sciences

Feasibility of Using Metakaolin and Lime as Concrete Binders Using Balengu Clay in West Kameroun and Figil Lime in North Cameroon as Examples

Reviewed: Sep 2024 for Diyala Journal of Engineering Sciences

A systematic review on the effect of synthetic fibres, including Macro fibres, on the thermal behaviour of fibre-reinforced concrete

Reviewed: Aug 2024 for Buildings

Activated Bentonite for Physical, Mechanical, and Durability Properties of Concrete - A Critical Review

Reviewed: Aug 2024 for Advances in Civil Engineering

Effect of Basalt and Steel Fibers in Concrete Mixtures on the Strength and Water Absorption of Eco-Friendly Concrete at Late Curing Ages

3 rounds from Jun 2024 to Jul 2024 for Journal of Asian Architecture and Building Engineering

The Impact of Chinese Tunnel Engineering on Groundwater in the Past 40 Years: A Review

Reviewed: Jul 2024 for Proceedings of the Institution of Civil Engineers: Engineering Sustainability

Experimental Study on Strength Behavior of Concrete Reinforced with Cornhusk Fiber

Reviewed: Jul 2024 for International Journal of Concrete Structures and Materials

Elastic Properties of Concrete Incorporating Ogugu Lateritic Sand as Fine Aggregate

Reviewed: Jul 2024 for Cogent Engineering

Factors Influencing the Efficiency of Geomaterials Treatment with the MICP Technique

Reviewed: Jul 2024 for Iraqi Journal of Civil Engineering (IJCE)

The Effects of Polypropylene Wastes on the Compressive Strength of Grade 25 Concrete

Reviewed: Jun 2024 for Qeios

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Reviewed: Jan 2024 for International Conference on The Future Sustainable Energy (ICFSE)

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Reviewed: Jan 2024 for International Conference on The Future Sustainable Energy (ICFSE)

Strategies for Organochlorine/organobromine Removal from Aqueous Environment Using Nanotechnology: A Review

Reviewed: Jan 2024 for Sustainable Environmental Insight

Early Diagnosis of Cardiac Disorders Using ML-based Decision Support System

2 rounds from Dec 2023 to Dec 2023 for Computers, Materials and Continua

Enhancing PDF Malware Detection through Logistic Model Trees

2 rounds from Dec 2023 to Dec 2023 for Computers, Materials and Continua

Effectiveness of Coagulation and Flocculation as a Chemical Wastewater Treatment Process

Reviewed: Oct 2023 for International Conference on Environment and Sustainability

Influence of Curing Time and Initial Moisture Content on Metakaolin-Based Geopolymer-Stabilized Soft Soil

2 rounds from Aug 2023 to Sep 2023 for Advances in Civil Engineering

The Influence of Filler Loading on the Mechanical Characteristics of Synthetic Rubber Composites Filled with Waste Fiber

Reviewed: Aug 2023 for International Research Conference on Engineering and Applied Sciences

Effect of Al₂O₃ Nanoparticles as Reinforcement on Microstructure and Hardness
Reviewed: Jul 2023 for International Research Conference on Engineering and Applied Sciences

Structural and Mechanical Properties of Chitosan/PVA Composite Reinforced By Ag/Au
Reviewed: Jul 2023 for International Research Conference on Engineering and Applied Sciences

A Study of Some Properties of Geopolymer SIFCON Concrete Formed from Fly Ash as a Binder
Reviewed: Jul 2023 for International Research Conference on Engineering and Applied Sciences

A Hybrid Technique Adopted for Study on the Properties of Alkali-activated binder Concrete by using Recycled Concrete Aggregates
Reviewed: Jun 2023 for Computers and Concrete

Determination of the Labor Productivity Rates for New Materials
Reviewed: Jan 2023 for International Engineering Conference

Workers' Perception of Safety Climate in the Philippine Construction Industry To
Reviewed: Jan 2023 for International Engineering Conference

Effect of Partial Replacement of GGBS with Pumice Powder and Silica Fume on The
Reviewed: Jan 2023 for International Engineering Conference

Editor records

Editor Summary

For manuscripts handled from date range January 2015 - October 2024

(4) Advances in Civil Engineering (1) Journal of Engineering

For manuscripts published from date range January 2015 - October 2024 (5)

Mitigation of Desiccation Cracks in Bentonite Clay Using Polypropylene Fiber and Enzyme
Decision date: 2024-09-14 for Advances in Civil Engineering

Assessment of Low-Cost Sensors in Concrete Specimens: Laboratory Testing and Industrial Applications
Decision date: 2024-09-05 for Advances in Civil Engineering

Analysis of Jacking Force Components and Development in Vertical Pipe Jacking Construction
Decision date: 2024-08-15 for Advances in Civil Engineering

Experimental Investigation of Failure Mode and Energy Evolution Under Uniaxial Recompression of Granite Pre-damaged By Cyclic Loading with High Confining Pressure
Decision date: 2024-04-13 for Advances in Civil Engineering

Prediction of Crop Yield by Support Vector Machine Coupled with Deep Learning Algorithm Procedures in Lower Kulfo Watershed of Ethiopia
Decision date: 2023-10-27 for Journal of Engineering
