

Publications

Architectural Engineering Department

Year 2019

Journals

1. A Hassan, AHI Mourad, Y Rashid, N Ismail, MS Laghari. Thermal and structural performance of geopolymer concrete containing phase change material encapsulated in expanded clay. *Energy and Buildings* 191, 72-81, 2019.
2. Ahmed Hassan, Yasir Rashid , Abdul Hamid Mourad. Najif Ismail, Thermal and Structural Characterization of Geopolymer-Coated Polyurethane Foam—Phase Change Material Capsules/Geopolymer Concrete Composites. *materials* 12 (5), 796, 2019.
3. Amira R. AbouElhamd, Khaled A. Al-Sallal, Ahmed Hassan. Review of Core/Shell Quantum Dots Technology Integrated into Building's Glazing. *Energies* 12 (6), 1058, 2019
4. Qamar Navid, Ahmed Hassan. An Accurate and Precise Grey Box Model of a Low-Power Lithium-Ion Battery and Capacitor/Supercapacitor for Accurate Estimation of State-of-Charge. *Batteries* 5 (3), 50, 2019.
5. M. Khoukhi; A. Hassan; S., Al Saadi; S. Abdelbaqi "A dynamic thermal response on thermal conductivity at different temperature and moisture levels of EPS insulation", 2019, *Case Studies in Thermal Engineering*, 14,100481.
6. M. Khoukhi; S. Abdelbaqi; A. Hassan "Yearly Energy Performance Assessment of Employing Expanded Polystyrene with Variable Temperature & Moisture-Thermal Conductivity Relationship". Accepted in *materials*.
7. M Haggag, A Hassan, S Abdelbaq. Phase Change Material to Reduce Cooling Load of Buildings in Hot Climate. *Key Engineering Materials* 801, 416-423, 2019.
8. Khalid Sabri, Arwa and Galal Ahmed, Khaled (Corresponding author) (2019) "Replacing Land-Use Planning with Localized Form-Based Codes in the United Arab Emirates: A Proposed Method" *Land*, Vol. 8, No. 3, 47; doi:10.3390/land8030047
9. Galal Ahmed, Khaled and S. M. Hossein Alipour (2019) "Urban Form Compaction and Energy Use Intensity in New Social Housing Neighborhoods in the UAE" *Sustainability*, Vol. 11, No. 14, 3815; <https://doi.org/10.3390/su11143815>, <https://www.mdpi.com/2071-1050/11/14/3815/pdf>
10. Galal Ahmed, Khaled and Alipour, S. M. Hossein (2019) Investigating the Effect of Urban Compactness on Energy Efficiency in Recent Urban Communities in UAE, *IOP Conference Series: Materials Science and Engineering*, Vol. 603, Section 1, <https://iopscience.iop.org/article/10.1088/1757-899X/603/2/022092>
11. Haddad, M. Shrive, N. Investigating the inelastic cyclic behaviour of large-size steel wide-flange section braces. *Construction and Building Materials*. Volume 199, 2019, pp. 92-105.
12. Albattah, M., Goodrum, P., Littlejohn, R., and Taylor, T. R. (2019). "A Comparative Analysis of the Utilization of Multiskilling among U.S. Hispanic and Non-Hispanic Construction Craft Workers." *International Journal of Construction Management*. 1-11.

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13. Albattah, M., Goodrum, P., and Taylor, T. (2019). "A New Metric of Workforce Availability among Construction Occupations and Regions" *Practice Periodical on Structural Design and Construction*. 24 (2), 04019003.
14. Dhariwal J., Manandhar P., Bande L., Marpu P., Armstrong P., F.Reinhart C. ; 2019; Evaluating the effectiveness of outdoor evaporative cooling in a hot, arid climate; Elsevier; V150: 281-288
15. Bande L., Afshari A., Al Masri D., Jha M., Norford L., Tsoupos A., Marpu P., Pasha Y., and Armstrong 3; August 2019; Validation of UWG and ENVI-Met Models in an Abu Dhabi District, Based on Site Measurements; Sustainability;
16. Khoukhi, M. (2019), Simultaneous changes of temperature and moisture of thermal conductivity of EPS insulation material and its impact on building energy performance. *International Journal of Smart Grid and Clean Energy*, 8(2).
17. Hasim Altan, Zahraa Alshikh, Vittorino Belpoliti, Young Ki Kim, Zafar Said, Monadhil Al-chaderchi (2019), "An experimental study of the impact of cool roof on solar PV electricity generations on building rooftops in Sharjah, UAE", *International Journal of Low-Carbon Technologies*, Volume 14, Issue 2, June 2019, Page 267-276.
18. Sahera, B., & Perez, M. V. (2019). Palestinian refugee women and the jenin refugee camp: reflections on urbicide and the dilemmas of home in exile. *Urban Studies*, 56(14), 2897–2916. <https://doi.org/10.1177/0042098018811789>

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2. Hagi, R., Tabet Aoul, K. Abdelghani, R., Akhozheya, B. Abdou, Y., Suleiman, N. (2019) "Thermal performance gap investigation using infrared thermal imagery in the UAE residential buildings", 11th International Conference on Sustainability in Energy and Buildings SEB-19, 4-5 July, 2019, Budapest, Hungary.
3. Attoye, D., Tabet Aoul, K.A.; Hassan, A., (2019) "The case of Building Integrated Photovoltaics: A qualitative assessment of potential users' perception", 2nd Conference ..., May 2019, Arizona State University (USA)
4. Attoye, D. Tabet Aoul, K. Basem, O. (2019) "Innovative Technologies and the Human Factor: The Case of Building Integrated Photovoltaics" 4th International Conference on Smart and Sustainable Technologies 2019: SpliTech2019, June 2019, Croatia - NO
5. Al-Saffar, M., Tabet Aoul, K, (2019) "Visitors voice in historic sites interpretation centers in Bahrain", 4th World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium WMCAUS 2019, 17-21 June, 2019 – Prague (Czech Republic)
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8. Attoye, D., Tabet Aoul, K.A.; Hassan, A., (2019) "Innovation in Construction: the case of BIPV customization in extreme climates", Proceedings of the 1st International Conference on: Comfort at the Extremes: Energy, Economy and Climate 10th – 11th April 2019, Heriot Watt University, Dubai, (UAE) pp: 682-693
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10. Alhams, Y and Haggag, M.; Stainable Walkway Design in Hot Climate; Case Study of Abu Dhabi Corniche, UAE, Proceedings of the 7th Annual International Conference on Architecture and Civil Engineering (ACE 2019), 27-28 May 2019, Singapore.
11. M. Khoukhi, A. Hassan, S. Abdelbaqi "The Impact of Employing Insulation with Variant Thermal Conductivity on the Thermal Performance of Buildings in the Extremely Hot Climate of UAE", Fourth International Conference on Civil, Structural and Transportation Engineering (ICCSTE'19) Ottawa, Canada – June 11-12, 2019.
12. Galal Ahmed, Khaled; Al Naaimi, Hamda; Omar, Menatullah; Megahed, Mona and Alazeezi, Shaikha (2019) Assessment of Social Housing Design in Dubai: Conventional Vs. Virtual Reality Participatory Tools. In the Proceedings of the 7th Annual International Conference on Architecture and Civil Engineering (ACE 2019), Singapore, May 27-28, 2019, pp 630-636 [DOI: 10.5176/2301-394X_ACE19.545].
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14. Galal Ahmed, Khaled; Al Naaimi, Hamda; Omar, Menatullah; Megahed, Mona and Alazeezi, Shaikha (2019) Utilizing Virtual Reality in Assessing Socio-Culturally Sustainability in Emirati Public Housing, the Undergraduate Student Research Conference (USRC), UAEU, 23rd April 2019, Al Ain, UAE.
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17. Sahera Bleibleh, Marwan Sunakh Zabanoot,. "Walkability between dubai's developments:a portryal assestment of walkability indicies in dubai , Valencia' Spain,1- 3 October 2019'

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18. Albattah, M, Saheed, A., and Shafiq, M.T. (2019). "Employment of Unskilled Craft Workers in the UAE Construction Projects: Explicating the Reasons." 4th International Conference on Management, Engineering, Science, Social Science and Humanities (iCon-MESSSH'19), 26-27 July, 2019
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22. Khoukhi, M., Hassan, A. Abdelbaqi, S. (2019) "The Impact of Variable Thermal Conductivity of Insulation Materials on the Building Energy Performance in Hot Climate". Fourth International Conference on Advances on Clean Energy Research, University of Coimbra, Portugal, April 5-7, 2019.
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25. Young Ki Kim, Lindita Bande, Kheira Anissa Tabet Aoul, Hasim Altan (2019), "Using Energy Audit with POE Study to Reduce Energy Performnace Gap in an Office Building in UAE", ZEMCH 2019 – Zero Energy Mass Custom Home, 26th – 28th November 2019, Seoul, South Korea.
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