



بيان بالأبحاث المنشورة لأعضاء هيئة التدريس والهيئة المعاونة بالقسم خلال الثلاث سنوات الأخيرة

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- 1- Mohamed Ayoub, **Hafez Afify**, Abdallah Abdelfattah “**Chemically enhanced primary treatment of sewage using the recovered alum from water treatment sludge in a model of hydraulic clari-flocculator**” Journal of water process engineering, Volume 19, Pages 133-138, October 2017.
- 2- Hassan Ramadan, Abdel Aziz Elsayed, **Hafez Afify** “**Post treatment of wastewater using recovered alum from water treatment sludge**”, 20th International Water Technology Conference Hurgada, Egypt 18:20, May 2017
- 3- Ragaa Abd El-Hakim, Nader E. Abd El-Aziz, Sherif M. El-Badawy, **Hafez Afify**, “**Validation and Improvement of Pavement ME Flexible Pavement Roughness Prediction Model Using Extended LTPP Database**”, Transportation Research Board, 96nd Annual Meeting, Washington, D.C., 2017.
- 4- Mohamed Akl, **Hafez Afify**, Sobhy Abdel-Monam Younes, “**Potential of Mapping from GeoEye Imagery**”, Al-Azhar University, Civil Engineering Research Magazine (CERM), Volume 3⁹, No. 3, July 2017.
- 5- Ragaa Abd El-Hakim, Sherif El-Badawy, **Hafez Afify**, Hossam Abd El-Raof, “**Structural Number Prediction for Flexible Pavements Based on Falling Weight Deflectometer Data**”, Transportation Research Board, 97nd Annual Meeting, Washington, D.C., 2018.
- 6- Hendawy Ebrahim, Mohamed Hafez, **Hafez Afify** “**Comparison between models used for determination of stresses in railway track elements**”, Al-Azhar University, Civil Engineering Research Magazine (CERM), Volume 38, No. 3, July 2016.

7- Abd El-Raof, H.S., R.T. Abd El-Hakim, S.M. El-Badawy, and H.A. Afify, **A Simplified Closed-Form Procedure for Network-level Determination of Pavement Layers Moduli from Falling Weight Deflectometer Data**, *Journal of Transportation Engineering: Part B, Pavements*, 2018.

8- Abd El-Raof, H.S., R.T. Abd El-Hakim, S.M. El-Badawy, and H.A. Afify, **Structural Number Prediction for Flexible Pavements Using the Long Term Pavement Performance Data**, *International Journal of Pavement Engineering*, 2018.

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1- Mohamed Ayoub, Ibrahim Gar Al-Alm Rashed, **Ahmed El-Morsy**, “**Energy Production from Sewage Sludge in a Proposed Wastewater Treatment Plant**” *Civil Engineering Journal*, Volume (2), No. 12, p.p. 637-645, 2016.

د./ عبدالعزيز السيد عبدالعزيز (مدرس بالقسم) :

1- Ragab El Shehawy, **Abd El Aziz El Sayed**, El Sayed Mady, “**Evaluation and Modeling of Trihalomethanes Concentrations on Bani Suef Water Distribution Network**” 19th International Water Technology Conference Sharm El-Sheikh, Egypt 21:23, April 2016

2- Ragab El Shehawy, **Abd El Aziz El Sayed**, El Sayed Mady, “**Effect of Trihalomethanes Concentrations on the Redesigning of Bani Suef Water Distribution System**”, *Water and Environment Journal* (Accepted and Version of Record online) DOI: 10.1111/wej.12238, 15 MAR 2017

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د. / إسلام محمد أبو النجا (مدرس بالقسم) :

1- Abou El-Naga. I.M and Zidan, M. R. “Traffic accident prediction models at rural highways in Egypt”, 8th International Engineering Conference, Mansoura-Sharm El-Shekh, Egypt (2015).

د. / رجاء طلعت عبد الحكيم (مدرس بالقسم) :

1. Ragaa Abd El-Hakim , Sherif M. El-Badawy , Alaa R. Gabr , and Abdelhalim M. Azam, “Influence of Unbound Material Type and Input Level on Pavement Performance Using Mechanistic–Empirical Pavement Design Guide” *Transportation Research Record: Journal of the Transportation Research Board*, No. 2578, Transportation Research Board, Washington, D.C., pp. 21–28. DOI: 10.3141/2578-03, 2016.
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د. / محمد عبدالسلام أيوب (مدرس بالقسم) :

1- **Mohamed Ayoub** “Optimal configuration of sludge hopper in swirl flow hydraulic clari-flocculators”, The 19th International Water Technology Conference, 5–7, Sharm El- Sheikh, Egypt, November 2016.

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د. / أحمد محمد الكافوري (مدرس بالقسم) :

1- **A. M. ELKAFOURY** and A. M. NEGM, “**Eco-Routing Guidance System Using Four Travel Costs Fuzzy Trade-Off Optimization**”, Proceeding of the International Conference of Engineering Sciences and Applications, Aswan, Egypt, January, 29 – 31, 2016.

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1- Mohamed Soltan, **Mohamed Elsamadony**, AhmedTawfik, M. Suzuki “**Biological hydrogen promotion via integrated fermentation of complex agro-industrial wastes**”, Applied Energy, 185: 929–938, Elsevier publisher, 2017.

2- **Mohamed Elsamadony**, AhmedTawfik, Manabu Fujii, Sherif Ismail “**Evaluation and optimization of anammox baffled reactor (AnBR) by artificial neural network modeling and economic analysis**” Bioresource Technology, 2018

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1- **Hendawy Ebrahim, Mohamed Hafez, Hafez Afify “Comparison between models used for determination of stresses in railway track elements”, Al-Azhar University, Civil Engineering Research Magazine (CERM), Volume 38, No. 3, July 2016.**

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1- Ragab El Shehawy, Abd El Aziz El Sayed, **El Sayed Mady, “Evaluation and Modeling of Trihalomethanes Concentrations on Bani Suef Water Distribution Network”** 19th International Water Technology Conference Sharm El-Sheikh, Egypt 21:23, April 2016

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1- Mohamed Ayoub, **Abdallah Abdelfattah “A parametric study of alum recovery from water treatment sludge”**, Water Science and Technology Journal, 2016.

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1- **Mohamed Akl, Hafez Afify, Sobhy Abdel-Monam Younes, "Potential of Mapping from GeoEye Imagery"**, Al-Azhar University, Civil Engineering Research Magazine (CERM), Volume 3⁹, No. 3, July 201⁷.

د. / حسام صابر عبد الرؤوف أبو حمر (معيد بالقسم) :

1- Ragaa Abd El-Hakim, Sherif El-Badawy, Hafez Afify, **Hossam Abd El-Raof, “Structural Number Prediction for Flexible Pavements Based on Falling Weight Deflectometer Data”**, Transportation Research Board, 97nd Annual Meeting, Washington, D.C., 2018.

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د. / عصام حلمي محفوظ (مدرس بالقسم) :

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6. **Sharaf El Din, E., & Zhang, Y. (2017).** Using remote sensing and artificial intelligence to improve the accuracy of surface water quality level extraction: a case study in the Saint John River, Canada. *ISPRS International Joint Conference 2017. Commission IV, ISPRS WG IV/3. October (07-10), Tehran, Iran.*
7. **Sharaf El Din, E., & Zhang, Y. (2018).** Application of multivariate statistical techniques in the assessment of surface water quality in the Saint John River, Canada . *UNB Annual Graduate Research Conference (GRC). March 23, Fredericton,*

تم عمل جميع الأبحاث المذكورة سابقا دون الإشتراك مع أقسام أخرى باستثناء بحث السيد الدكتور/ محمد محمود السمدوني (مدرس بالقسم) المذكور اعلاه بالمشاركة مع قسم البيولوجى بالجامعة المصرية اليابانية للعلوم والتكنولوجيا واربعة ابحاث للدكتورة رجاء طلعت محمد عبد الحكيم (مدرس بالقسم) بحثين بالمشاركة مع قسم الهندسة المدنية جامعة تكساس تايلر بالولايات المتحدة الامريكية وبحثين اخرين بالمشاركة مع قسم هندسة الاشغال العامة بكلية الهندسة جامعة المنصورة .