



## **Curriculum Vitae**

**Name:** Mohamed Elsayed Ali BASIOUNY

**Title:** Dean Al Arish Faculty of Engineering, Sinai University.

**Department:** Civil Engineering

### **Qualifications:**

- Bachelor's Degree in **Civil Engineering 1981**, Ain Shams University, Cairo, Egypt.
- Masters Degree in **Civil Engineering 1987**, Ain Shams University, Cairo, Egypt=
- Ph.D in **Civil/Environmental Engineering 1992**, Moscow Civil Engineering Institute, Moscow USSR=

### **Career Hierarchy:**

- |                        |            |
|------------------------|------------|
| - Teaching Assistant,  | Date: 1982 |
| - Assistant Lecturer,  | Date: 1987 |
| - Lecturer,            | Date: 1992 |
| - Associate Professor, | Date: 2001 |
| -Professor             | Date: 2008 |



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### Scientific Activities

#### 1: Membership of Professional Organizations and Scientific Societies

- Egyptian Syndicate of Professional Engineers, No. 2457/1
- Engineering Sector Committee, Egyptian Supreme Council of Universities.
- A+ Haestad Methods Certified Modeler for Water Distribution System.

#### 2: Training Courses/workshops:

##### **2019-BTS (Training & Consultancy) Training Programs in Dubai, UAE=**

##### **Water Distribution System Operation & Maintenance, Training Course.**

Comprehensive was prepared and presented to a group (2 Participants) of engineers from DEWA, Dubai, UAE, from 27<sup>th</sup> to 31<sup>st</sup> Jan. 2019.

##### **2018-BTS (Training & Consultancy) Training Programs in Dubai, UAE=**

##### **Fundamental of Pipeline Design, Inspection, Testing & Hydraulic Modeling, Training Course.**

Comprehensive was prepared and presented to a group (3 Participants) of engineers from DEWA, Dubai, UAE, from 8<sup>th</sup> to 12<sup>th</sup> April 2018.

##### **2016-IFM (Training Consultants) Training Programs in Muscat, Oman=**

##### **PLUMBING SYSTEMS DESIGN FOR MULTI RESIDENTIAL, COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL BUILDINGS, In-House Training Course.**

Comprehensive was prepared and presented to a group (11 Participants) of engineers from Qman Airports Management Company S.A.O.C (OAMC), Muscat, Oman, from 23<sup>th</sup> to 27<sup>th</sup> November 2016=

##### **2015-APEX (Advancing Performance Excellence) Training Programs in Dubai, UAE=**



### **Management of Water Main Extension & Service Connection Projects: Planning, Scheduling & Control, In-House Training Course.**

Comprehensive was prepared and presented to a group (10 Participants) of engineers from Qatar, Kahramaa – Doha, Qatar, from 8<sup>th</sup> to 12<sup>th</sup> November 2015=

### **2015-Training Programs -MESK Management Sciences Institute, in Abu Dhabi, UAE=**

### **Best Practice in Sewage and Industrial Waste Water Treatment Technologies and Environmental Protection, Training Course, WE035-RTI-IH.**

Comprehensive was prepared and presented to a group (20 Participants) of all over world engineers, Environment Agency – Abu Dhabi, from 6<sup>th</sup> to 10<sup>th</sup> Sept. 2015=

### **3: Conferences, Seminars and Workshops:**

- 1- Al-Azhar Scientific Fifth International Engineering Conference, Cairo, Egypt, December 19 – 22, 1997.
- 2- Third Mansoura International Engineering Conference, Faculty of Engineering, Mansoura University, Egypt. April 11 - 13, 2000.
- 3- The Fourth International Military Technical Conference, Military Technical College, Cairo, Egypt.
- 4- 1st International Conference of Civil Engineering Science, ICCES1, Assuite, Egypt.
- 5- Mansoura 4th International Engineering Conference, Faculty of Engineering, Mansoura University, Egypt. April 11 - 13, 2004.
- 6- The Twelfth International Water Technology Conference IWTC 2008, 27-30th March, Alexandria, Egypt.
- 7- 6th International Engineering Conference, Faculty of Engineering – Mansoura University, Mansoura/Sharm El-Sheikh, 20 – 23 March 2008.
- 8- Sixteenth International Water Technology Conference, IWTC 16 2012, Istanbul, Turkey.

### **4: Teaching Scopes:**

- **Water Supply Engineering**
- **Sewerage**
- **Modeling of Water & Wastewater Networks**
- **Water Supply and Treatment**
- **Wastewater Collection and Treatment**
- **Water Treatment**
- **Wastewater Treatment**
- **Sewage Sludge Treatment**
- **Industrial Wastewater Treatment**
- **Pollution and Environmental**
- **Water Reuse.**



## **5: Scientific supervision:**

1. "Studying of Disinfection By-Product in Benha Water Supply System", MSc Thesis, Benha High Institute of Technology, Benha, Egypt, February, 2006.
2. "Effectiveness of Potassium Permanganate in enhancing Water Coagulation", MSc Thesis, Benha High Institute of Technology, Benha, Egypt, May, 2006.
3. "Study of Water Quality and Biofilm Formation in Water Distribution System" MSc Thesis, Benha Faculty of Engineering, Benha, Egypt, Aug., 2011.
4. "The Use of Roughing Filters in Water Purification", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, November, 2011.
5. "Environmental Impact Assessment for Multi Effect Distillation Water Plants", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, May, 2012.
6. "Treatment of Painting Industry Wastewater", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, August, 2012.
7. "Optimization of Stabilization Pond Design due to Egyptian Conditions", M. Sc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, December, 2012.
8. "Application of Agricultural Wastes for Wastewater Treatment", PhD Thesis, Faculty of Engineering, Helwan University, Cairo, Egypt, February, 2013.
9. "A Comparative Study for Sewage Treatment Methods in Gassim Area Kingdom of Saudi Arabia", PhD Thesis, Faculty of Engineering, Alexandria University, Alexandria, Egypt, April, 2013.
10. "Water Treatment for Boilers Needs, MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, June, 2013.
11. "Anaerobic Sludge Digester Performance Improvement by Adding Organic Municipal Solid Wastes", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, November, 2013.
12. "Problems Solution for Dairy Industrial Wastewater Treatment", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, February, 2014.
13. "Assessment of Water Losses Based on Hydraulic Analysis", MSc Thesis, Benha Faculty of Engineering, Benha University, Benha, Egypt, April, 2014.
14. "Performance Assessment of Different Media for a Biological Filter within Low Cost Wastewater Treatment Unit", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, May, 2014.
15. "Using Bioreactor Media in Developing Waste Stabilization Ponds", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, June, 2014.
16. "Simplified Approach for Water Hammer Analysis", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, September, 2014.
17. "Usage of Agricultural Waste in Removing Heavy Metals from Wastewater", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, Decamber, 2014.



18. "Optimization of Solid Waste Management in Rural Villages", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, June, 2015.
19. "Development the Conventional Sewage Treatment Systems by Using Soil Aquifer Treatment", MSc Thesis, Benha Faculty of Engineering, Benha University, Benha, Egypt, July, 2015.
20. "Effect of Partial Blockage of Bridge Opening on Scour Formed at Supports", MSc Thesis, Benha Faculty of Engineering, Benha University, Benha, Egypt, Feb., 2016.
21. "The Effect of Disposing Agricultural Drain to a Narrow Sea Waterway", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, April, 2016.
22. "Economical and Environmental Evaluation of Roads Construction in Egypt Based on Life Cycle Assessment", MSc Thesis, Benha Faculty of Engineering, Benha University, Benha, Egypt, Jun., 2016.
23. "Performance of Agriculture Waste as Attached Media in Bio-filters for Wastewater Treatment", MSc Thesis, Benha Faculty of Engineering, Benha University, Benha, Egypt, Jan., 2017.
24. "Usage of Fabric Filters in Wastewater Treatment", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, May, 2017.
25. "Change Detection Study in Coastal Zone of the North of Egypt Using Remote Sensing" Benha Faculty of Engineering, Benha University, Benha, Egypt, Feb., 2018.
26. "The Impact of Using Unmanned Aerial Vehicle (UAV) in Close Range Photogrammetry" Benha Faculty of Engineering, Benha University, Benha, Egypt, September, 2018.

## **6: Awards and Certificates of Appreciation:**

Egyptian Syndicate of Professional Engineers, No. 2457/1

Engineering Sector Committee, Egyptian Supreme Council of Universities.

## **7: Peer reviewing of scientific research/ Projects:**

Prof. Dr. M. Basiouny has examined more than 35 theses (MSc. and PhDs) in Egyptian universities.

## **8: Other Activities:**

**2005\_2010-Engineering & Technical Services Office (ETS) Consulting Engineers, Dammam, Saudi Arabia=**

**2008\_2010-Water Supply and Sewerage System of Eight Governorates (Contract #2), Riyadh, KSA=**

Feasibility Study and Preliminary & Detailed design of the water supply and sewerage facilities for six Governorates (El\_Dawadmy, El\_Magmaa, El\_Zilfi, El\_Ghat, Afif, and Shaqraa) in the north of Riyadh Region.



**2007\_2008-Water Supply and Sewerage System of Eight Governorates (Contract #3), Riyadh, KSA=**

Feasibility Study and Preliminary & Detailed design of the water supply and sewerage facilities for seven Governorates (El\_Quwiaia, El\_Mzahmia, Horaymelaa, Thadeq, Durmaa, Rumah) a in the north west of Riyadh Region=

**2005\_2007-Buraydah Water Supply Project, Buraydah, Al-Qassim, KSA.**

Design and upgrading of water distribution networks of Buraydah city, Detailed design and tender documents of water supply works to upgrade the existing transmission, storage and distribution facilities to serve Buraydah up to the boundaries of urban planning Stage II .The design included hydraulic simulation of Buraydah water networks using the WaterCAD Software.

**2000\_2012-Faculty of Engineering Consultation Unit, Benha University, Benha, Egypt**

**2012-Faculty of Computers and Informatics Building at Benha University, Egypt.**

Preliminary and Detailed design of Plumbing Sanitation for the building.

**2003-New Misr Pharmaceutical Plant, Abu Zaabal, Egypt=**

Design Water Fire Fighting and Industrial Wastewater Treatment Plant ( $625 \text{ m}^3/\text{day}$ ) for New Misr Pharmaceutical Plant. Abu Zaabal, Egypt=

**2003-Alshrouq Industrial Region in Elkhanka, Kalubia, Egypt=**

Preliminary design and Detailed design of Sewer System and Industrial Wastewater Treatment Plant,  $1400 \text{ m}^3/\text{day}$  ( for New Industrial Region) Alshrouq. Elkhanka, Kalubia, Egypt.

**2003-Alssfa Industrial Region in Werash Abu Zaabal, Kalubia, Egypt=**

Preliminary design and Detailed design of Sewer System and Industrial Wastewater Treatment Plant ( $1330 \text{ m}^3/\text{day}$ ) for New Industrial Region Alssfa .Werash Abu Zaabal, Kalubia, Egypt

**2002-Sewerage Systems of 3 Villages, Kalubia Egypt**

Design of sewerage networks, pump stations and sewage treatment plants of three villages all over Kalubia namely= Namol Senhera, and Kom-ashfeen. The villages vary in population from 50,000 to 100,000 capita.



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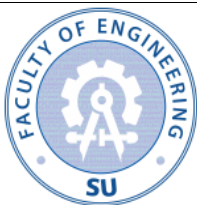
**Department:** Civil Engineering

### Skills

- **Language Skills:** English & Russian.
- **Computer Skills:** Very good Computer literacy, Auto CAD, WaterCAD, SewerCAD, StormCAD, etc.
- **Presentation skills:** Time management and self-planning and leadership.
- **Other skills:** Reading & Sports.

### Scientific Publications:

- 1- **M. Basiouny**  
“Treatment of Industrial Wastewater (Poultry Automatic Slaughter House Wastes)”  
M. Sc. Dissertation, Dept. of Civil Engineering, Faculty of Engineering, Ain Shams University, Cairo, Egypt, January 1987.
- 2- **M. Basiouny**  
“Treatment of Low-Turbidity High Content of Algae Waters”  
PhD. Dissertation, Dept. of Civil Engineering, Moscow Civil Engineering Institute, Moscow USSR, July 1992.
- 3- **M. Basiouny**  
“Reasons of Water Pollution in Branches Canals in Kalubia Governorate”  
Al-Azhar Scientific Fifth International Engineering Conference, Cairo, Egypt, December 19 – 22, 1997, Vol. 5, pp. 291 - 302.
- 4- **M. Basiouny**, and H. El-Atrby  
“Modeling Residual Free Chlorine in Water Distribution Systems”  
Mansoura Engineering Journal, Faculty of Engineering, Mansoura University, Egypt, Vol. 25 No. 1, March 2000, pp. 1 –13.
- 5- **M. Basiouny**  
“APT for Upgrading Benha Wastewater Treatment Plants”



Scientific Bulletin, Faculty of Engineering, Ain Shams University, Cairo, Egypt, Vol. 35, No. 1, March 2000, pp. 59 – 67.

- 6- **M. Basiouny**  
“Reliability Analysis of Water Distribution System”  
Third Mansoura International Engineering Conference, Faculty of Engineering, Mansoura University, Egypt. April 11 - 13, 2000, Vol. 1 pp. 297 - 309.
- 7- **M. Basiouny**, M. Negm, and M. Abdel-Razik  
“Modeling and Reliability of Water Distribution Network”  
Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, Egypt, Vol. 47, No. 3, June 2000, pp. 503-517.
- 8- **M. Basiouny**, and M. Abdel Razik  
“Studying the Effect of Storage on Water Quality by Using Computer Models”  
Journal of Engineering Researches, Faculty of Engineering, Helwan University, Vol. 71, October 2000 pp. 88 - 101.
- 9- **M. Basiouny**, and H. El-Atrby  
“Analysis of Water Distribution Network Performance by Penalty Curve”  
Journal of Engineering, Faculty of Engineering, Alexandria University, Vol. 40, No. 2 March 2001 pp. 265 - 276.
- 10- A. Easa, and **M. Basiouny**  
“Effect of Wastewater Seepage on Engineering Properties of Clayey Soil”  
The Fourth International Military Technical Conference, Military Technical College, Cairo, Egypt, Vol. 2, October 2002 pp.188 - 197.
- 11- **M. Basiouny**  
“Enhanced Aluminum Coagulation for NOM Removal from Low Turbidity Waters”  
1<sup>st</sup> International Conference of Civil Engineering Science, ICCES1, Assuite, Egypt, Vol.1, No. 2.
- 12- **M. Basiouny**, and A. Easa  
“Analysis of Reasons for Sewer Manholes Collapse by Extended Period Simulation”  
Mansoura 4th International Engineering Conference, Faculty of Engineering, Mansoura University, Egypt. April 11 - 13, 2004, Vol. 1, pp. 297 - 309.
- 13- **M. Basiouny**  
“Assessing the Effect of Storage Tanks on Drinking Water Quality, A Case Study”  
Scientific Bulletin, Faculty of Engineering, Ain Shams University, Cairo, Egypt, Vol. 41, No. 4, December 2006 pp. 181 –194.
- 14- Abdel-Razik, M. H., **Basiouny M.** and Nassar, A.  
“Impact of Treated Wastewater Reuse on Ground Water”  
Scientific Bulletin, Faculty of Engineering, Ain Shams University, Cairo, Egypt, Vol. 42, No. 2, June 2007.
- 15- **M. Basiouny**, T. Elmitwalli and M. R. Ghazy  
“Modeling of Trihalomethanes in Benha Water Supply Network”  
Scientific Journal, Faculty of Engineering, Mansoura University, Egypt, December 2007, Vol. 4 pp. 1-13.





- 16- **M. Basiouny**, T. Elmitwalli and M. R. Ghazy  
“Formulation and Modeling of Trihalomethanes in New Benha Water Treatment Plant” The Twelfth International Water Technology Conference IWTC 2008, 27-30th March, Alexandria, Egypt, Vol. I pp. 121-140.
- 17- **M. Basiouny**, T. Elmitwalli and M. R. Ghazy  
“Modeling of Trihalomethanes in Benha Water Supply Network, Egypt”  
The Twelfth International Water Technology Conference IWTC 2008, 27-30<sup>th</sup> March, Alexandria, Egypt, Vol. II pp. 991-1004.
- 18- **M. Basiouny**, E. A. Fouad, T. Elmitwalli and N. Y. Abu-Elkhair  
“Enhancing Purification of Surface Water by Potassium Permanganate Addition”  
The Twelfth International Water Technology Conference IWTC 2008, 27-30<sup>th</sup> March, Alexandria, Egypt, Vol. II pp. 979-991.
- 19- **M. Basiouny**, and M. A. Elsheikh.  
“Deposition and Formation of THMs in Benha Water Distribution System”  
6th International Engineering Conference, Faculty of Engineering – Mansoura University, Mansoura/Sharm El-Sheikh, 20 – 23 March 2008.
- 20- **M. Basiouny**, and M. A. Elsheikh.  
“Deposition and Formation of THMs in Water Supply System”  
Sustainable Environment Research, Journal of Environ. Eng. Manage. Vol. 21, No.2, pp. 89-94 (2011).
- 21- **M. Basiouny**, M. A. Elsheikh, and Osama A Abu Siadah.  
“Effect of Different Pipe Materials on Microbiological Water Quality Due to Biofilm Formation: a Case Study” Sixteenth International Water Technology Conference, IWTC 16 2012, Istanbul, Turkey.
- 22- **M. Basiouny**, M. A. Elsheikh, M. R. Ghazy and Rania M Ibrahim.  
“Soil Aquifer Treatment for Additional Upgrading of Wastewater Effluent”  
  
Engineering Research Journal (ERJ), Minoufiya University, Vol. 11, No.2, pp. 81-92 (2015).
- 23- M. R. Ghazy, A. M. Abdallah, **M. A. Basiouny**, and M. AS. Saad  
“Life Cycle Assessment of Flexible Pavement Construction”  
British Journal of Applied Science & Technology. 2015/BJAST/20620.
- 24- G. M. Abdel-Aal, **M. E. Basiouny**, M. A. Nassar, T. H. Nassralla, and A. S. M. Mohammed  
“Effect of Abstraction Patterns on Flow Field by Using Sobek and Isis”  
Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, Egypt, Vol. 61, No. 6, Dec. 2015, pp. 521-543.
- 25- M. R. Ghazy, **M. A. Basiouny** and M. H. Badawy  
“Performance of Agricultural Wastes as a Biofilter Media for Low-Cost Wastewater Treatment Technology” Advances in Research 7(6): 1-13, 2016, Article no. AIR. 27926 ISSN: 2348-0394, NLM ID: 101666096.

- 26- Mohamed S. Eisa, **M. Basiouny**, and A. H. Boraie "Enhancing of Asphalt mix properties using waste polyethylene and Fly Ash" International Journal of Transport, Highways & Railways Engineering – IJTHRE Volume 3 : Issue 1 [ISSN : 2475-2746] 06 April, 2017 pp. 26-35.
- 27- Elsayed A. Elsayed, Mohamed S. Eisa, and **M. Basiouny**, "Evaluation of Porous Asphalt Mixtures Stabilized by Cellulose Fibers" New York Science Journal. Vol. 10, No.6, June 25, 2017, ISSN: 1554-0200, pp. 1-10 (2017).
- 28- Osama A. AboSiada, M. S. Negm, **M. E. Basiouny**, M. A. Fouad and S. Elagroudy.  
"Nutrient Enrichment of Agro-Industrial Waste Using Solid State Fermentation" Microbiology Research Journal International 22(1): 1-11, 2017; Article no. MRJI. 36125. ISSN: 2456-7043 (Past name: British Microbiology Research Journal, Past ISSN: 2231-0886, NLM ID: 101608140).
- 29- **M. A. Basiouny** and S. B. El Kafrawy, E. A. Ghanem and A. S. Taha  
"Shoreline Change Rate Detection and Future Prediction Using Remote Sensing and GIS Techniques: A Case Study of Ras EL-Hekma, North Western Coast, Egypt" Journal of Geography, Environment and Earth Science International 9(3): 1-14, 2017; Article no. JGEESI.32086 ISSN: 2454-7352.
- 30- S. B. El Kafrawy, **M. A. Basiouny**, E. A. Ghanem and A. S. Taha  
"Performance Evaluation of Shoreline Extraction Methods Based on Remote Sensing" Journal of Geography, Environment and Earth Science International 11(4): 1-18, 2017; Article no. JGEESI. 36233 ISSN: 2454-7352.
- 31- M. Rabah, **M. Basiouny**, E. Ghanem, A. Elhadary.  
"Using RTK and VRS in direct geo-referencing of the UAV imagery" NRIAG Journal of Astronomy and Geophysics, Vol 7, Issue No. 2, PP: 220-226, 2018.
- 32- Mostafa Rabah, **Mohamed Basiouny**, Esam Ghanem, Ahmed Elhadary.  
"Using Unmanned Aerial Vehicle (UAV) in Close Range Photogrammetry" Civil Eng. Research Magazine, Al-Azhar Uni., Vol 40, Issue No. 4, PP: 230-237, 2018.
- 33- Mostafa Rabah, **Mohamed Basiouny**, Esam Ghanem, Ahmed Ismail (2019): "Compute a Simple Kinematic Transformation Parameters for Egypt using Rigid Plate Deformation Models", Paper under publishing in **Arabian Journal of Geoscience, Springer Verlage**.
- 34- M.S. Eisa, **M. E. Basiouny** and A. H. Boraie, "Enhancing of Asphalt mix properties using waste polyethylene and Fly Ash", International Journal of Transport, Highways & Railways Engineering – IJTHRE, Volume 3, Issue 1, pp. 26-35, ISSN 2475-2746, April 2017.
- 35- **Mohamed Basiouny**, M.S. Eisa and Elsayed AdelElsayed, "Evaluation of Porous Asphalt Mixtures Stabilized by Cellulose Fibers", New York Science Journal, 10(4), ISSN 1554-0200, pp. 19-26, July 2017.
- 36- M.S. Eisa, **M. E. Basiouny**, A. M. Youssef, "Effect of using various waste materials as mineral filler on the properties of asphalt mix", Innovative Infrastructure Solutions Journal, Springer, 3:27, ISSN 2364-4176, February 2018.
- 37- M.S. Eisa, Ahmed Ibrahim **M. E. Basiouny** and Olaniyi ArowoJolu, "Investigation of High Strength Concrete Behavior Made with Very High Percentages of Metakaolin and Steel Fibers", ACI Materials Journal, Sp -334, PP. 37-59, ISSN 0889325x, September 2019.
- 38- M.S. Eisa, **M. E. Basiouny**, O. A. Elbasomy, "Evaluating hot asphalt mixtures of poor-quality aggregate with sulphur extended asphalt", Innovative Infrastructure Solutions Journal, Springer, 4:56, ISSN 2364-4176, October 2019.



- 39- M. E. Basiouny**, M.S. Eisa, A. M. Abdallah and A. A. Abd Algahny, "*The Effect of Diffraction in the Degree of Bitumen Penetration on Asphalt Mixture Used for Surface Layer*", Journal of Scientific Research & Reports, 25(4), Article no.JSRR.52371, ISSN 2320-0227, November 2019.
- 40- Fahmy Salah Abdelhaleem**, Ahmed Mostafa Amin, **Mohamed Elsayed Basiouny**, Heba Fathy Ibraheem, "*Adaption of a formula for simulating bedload transport in the Nile River, Egypt*", Journal of Soils and Sediments, 14 November 2019.
- 41- M.S. Eisa**, **M. E. Basiouny**, A. M. Youssef, "*Effect of metakaolin-based geopolymer concrete on the length of rigid pavement slabs*", Innovative Infrastructure Solutions Journal, No. 91, ISSN 2364-4176, June 2021.
- 42- M.S. Eisa**, **M. E. Basiouny**, A. M. Youssef, "*Improvement of Load Carrying Capacity of Concrete Pavement Slabs Using Macro Synthetic Fibers*", Coatings Journal 2021,11,833 , 10 July 2021.
- 43- M.S. Eisa**, **M. E. Basiouny**, A. M. Youssef, "*Effect of macro-synthetic fibers on the drying shrinkage performance of rigid pavement*", Innovative Infrastructure Solutions Journal, No. 212, 1:9, 19 July 2021.
- 44- M.S. Eisa**, **M. E. Basiouny**, A. M. Youssef, "*Using metakaolin-based geopolymer concrete in concrete pavement slabs*", Innovative Infrastructure Solutions Journal, No. 601, Springer, 25 July 2021.
- 45- Fahmy Salah Abdelhaleem**, **M. E. Basiouny**, Eid Ashour, Ali Mahmoud, "*Application of remote sensing and geographic information systems in irrigation water management*", NBCBN Journal, 3 September 2021.
- 46- Fahmy Salah Abdelhaleem**, **M. E. Basiouny**, Eid Ashour, Ali Mahmoud, "*Integrating geographic information system, remote sensing, and Modeling to enhance reliability of irrigation network*", Water and Energy International Journal, 3 September 2021.
- 47- Fahmy Salah Abdelhaleem**, **M. E. Basiouny**, Eid Ashour, Ali Mahmoud, "*Application of remote sensing and geographic information systems in irrigation water management under water scarcity conditions in Fayoum, Egypt*", Journal of Environmental Management (ELSEVIER) 299 (2021) 113683, 3 September 2021.