Chair of Research and Studies in Strengthening and Rehabilitation of Structures,
Department of Civil Engineering, King Saud University

CURRICULUM VITAE – Yousef A Al-Salloum

i) Personal Memoranda

Name: **Yousef Abdullah Al-Salloum**
Designation: Professor,
Department of Civil Engineering, King Saud University
P.O. Box 800, Riyadh 11421, Saudi Arabia
Email: ysalloum@ksu.edu.sa; ysalloum@gmail.com

Date of Birth: 01-07-1379H (31 December 1959G)
Nationality: Saudi (ID: 1046045272)
Fields of Interest: Structural Engineering, Rehabilitation of Structures, Engineering Materials, Structural Optimization
Indexing databases:

- ResearcherID (E-5315-2014);
- ORCID (ID: 0000-0001-8881-6239);
- Scopus (ID: 6603097614);
- Google Scholar

h-index: 47 (Scopus); 54 (Google Scholar)
i10-index: 139 (Google Scholar)

Citations (Scholar): 9066 (Total); 5779 during last 5 years (Recorded on 2 May 2025)
https://scholar.google.com/citations?user=x2LFJJIAAAAJ&hl=en

Website: https://faculty.ksu.edu.sa/en/ysalloum

ii) Academic Qualifications

Ph.D. (Oct. 1989)	Department of Civil Engineering, Univ. of Illinois at Urbana-Champaign, Illinois, U.S.A. (University rank: Top 5 in USA in Civil Engineering) GPA = 5.0/5.0
M.Sc. (Jan. 1985)	Department of Civil Engineering, University of Illinois at Urbana-Champaign, Illinois, U.S.A. (University rank: Top 5 in USA in Civil Engineering) GPA = 5.0/5.0
B.Sc. (June 1982)	Department of Civil Engineering, King Saud University, Riyadh, Saudi Arabia, *First Class Honor* (New Record- Highest GPA in the University)

iii) Academic Positions Held

12/2008 – Present	Professor, Civil Engineering Department, King Saud University, Riyadh, Saudi Arabia
3/1996 – 12/2008	Associate Professor, Civil Engineering Department, King Saud University, Riyadh, Saudi Arabia
11/1989 – 3/1996	Assistant Professor, Civil Engineering Department, King Saud University, Riyadh, Saudi Arabia
9/1983 – 10/1989	Graduate Student, University of Illinois at Urbana-Champaign, Illinois, U.S.A.
6/1982 – 8/1983	Teaching Assistant, Civil Engineering Department, King Saud University, Riyadh, Saudi Arabia

iv) Current and Recent Activities

Director	Chair of Research and Studies in Strengthening and Rehabilitation of Structures

Director	Specialty Units for Safety and Preservation of Structures, College of Engineering, King Saud University
Director	Technical committee for initial handover of some University projects, King Saud University
Director	Infrastructure Health Monitoring Unit, College of Engineering, King Saud University
Director	Structural Engineering Team – Review of the structural design of the Holy Mosque Expansion in Makkah – Ministry of Higher Education.
Director	Structural Health Monitoring Team – Supervision on design and installation of health monitoring network for the Holy Mosque Expansion.
Member	Research Chairs Program Higher Committee – King Saud University.
Member	Saudi Aramco Research Chair in Earthquake Engineering – King Saud University.
Member	Higher Education Certificates Equivalency Committee (Engineering Sciences Committee) – Ministry of Education. (From Oct. 2018 – now)
Consultant	Structural Health Monitoring (SHM) of some important Bridges in Riyadh (2018)
Member	Structural Engineering Team – Review of the structural design of the Holy Mosque Expansion in Madina.
Member	Structural Engineering Team – Review of the structural design of King Abdullah Waqf Project (ALSABQ) in Madina.
Director	Scientific Committee – Research Chair on Rehabilitation of Structures.
Member	Consulting Engineering Office for Safety and Preservation of Structures, King Abdullah Institute (KAI) for Research &Consulting Studies, King Saud University. *(Offering complete range of consulting services to architects, developers, contractors, building/structure owners of private and government agencies)*
Member	Consulting Engineering Office of Earthquake Engineering King Abdullah Institute (KAI) for Research &Consulting Studies, King Saud University.
Member	Research Chairs Consulting Team – King Saud University.
Member	Structural Board Committee for development of the Saudi Building Code (SBC).
Member	Concrete Committee for development of the Saudi Building Code (SBC).
Convener	Faculty Promotion Committee, Department of Civil Engineering, King Saud Univ.
Convener	Graduate Studies Committee, Department of Civil Engineering, King Saud University
Member	Academic Plan committee, Department of Civil Engineering, King Saud University
Member	Academic Plan Unit, College of Engineering, King Saud University
Member	Strategic Planning Committee – King Saud University.
Member	Strategic Planning Committee – College of Engineering.
Member	Research Chairs Bylaws Committee – King Saud University.
Consultant	The High Authority of the Holy Mosques Affairs.
Reviewer	Reviewer of scientific papers in several high-esteemed international journals

v) Funded Research Projects

1) "*Glass Fiber Reinforced Plastic Bars: Properties and Applications for Concrete Structures*," funded by King Abdulaziz City for Science and Technology (KACST). Completed in 1997.

2) "*Long-Term Behavior of Glass Fiber Reinforced Polymer Rebars in Stressed Concrete Elements*," Research Project No. 19/421, funded by SABIC. Completed in 2001.

3) "*Rehabilitation of the Infrastructure Using Composite Fabrics*," Project No. AR-16-52, funded by King Abdulaziz City for Science and Technology (KACST). Completed in 2002.

4) "*Creep Behavior of Concrete Beams Reinforced With GFRP Bars under Sustained Loading at Different Environmental Conditions*," Research Project No. 29/422, funded by SABIC. Completed in 2002.

5) "*Flexural Performance of RC Beams Repaired with Commercially Available Repair Materials*," Research Project No. 9/423, funded by Research center - College of Engineering, KSU. Completed in 2003.

6) "*Flexural Behavior of Pre-Cracked RC Beams Strengthened With FRP Composite Sheets*," Research Project No. 40/423, funded by SABIC. Completed in 2005.

7) *Seismic Strengthening of Infill Walls in Buildings Using Composite Sheets*," Project No. AR-59, Deanship of Scientific Research, Applied National Research Program, KSU. Completed in 2005.

8) "*Effect of Edge Sharpness on the Compressive Strength of FRP-Confined Square Concrete Columns*," Research Project 31/426, funded by SABIC. Completed in 2006.

9) "*Experimental and Analytical Investigation of Compressive Strength of FRP-Confined Concrete*", Research Project No. 11/426," funded by Research center - College of Engineering, KSU. Completed in 2007.

10) "*Seismic Upgrade of Beam-Column Connections in Existing RC Buildings Using FRP/Epoxy Composite Laminates*," Project No. AR-21-40, funded by King Abdulaziz City for Science and Technology (KACST). Completed in 2007.

11) "*Classification and Testing Performance of Concrete Repair Materials for Durable Repair Under Local Environmental Conditions*," Project No. AR-100, Deanship of Scientific Research, Applied National Research Program, KSU. Completed in 2007.

12) "*Long Term Durability of Composite Materials Used to Externally Strengthen/ Repair Infrastructure Under Different Loading and Environmental Conditions*" Funded by ARAMCO, Saudi Arabia, Completed in 2008.

13) "*Performance of glass fiber reinforced polymer (GFRP) bars under severe environmental conditions and high temperatures*," Sponsored by Center of Excellence for Research in Engineering Material (CEREM), King Saud University, Completed in 2011.

14) "*Performance of glass fiber reinforced polymer (GFRP) bars under Flexural stresses*," Sponsored by Center of Excellence for Research in Engineering Material (CEREM), King Saud University, Completed in 2011.

15) "*Development of an advanced risk and vulnerability assessment methodology and framework for buildings in Riyadh against blast generated waves,"* Sponsored under twinning program of King Saud University, Completed in 2012.

16) "*Strengthening Reinforced Concrete Using CFRP and Wire Mesh for Improved Impact Resistance"*, Funded by National Plan for Sciences and Technology, King Abdulaziz City for Science and Technology (Project No.: ADV728-02), Jan 2011 to Dec 2012. Completed.

17) "*Exploratory study for low cost construction and building systems*", Funded by KACST (Project No.: 597-32), 2011-2013. Completed.

18) Deanship of Scientific Research group project No. RGP-VPP-064, Completed in 2012.

19) Deanship of Scientific Research group project No. RGP-VPP-104, Completed in 2013.

20) "*A study of blast damage mitigation in RC framed buildings*", Supported by King Saud University, Completed in 2017.

21) Deanship of Scientific Research group project No. RGP-VPP-310.

22) Deanship of Scientific Research group project No. RGP-VPP-104N.

23) "*Development of Genetically Engineered Biocement Mortar*", Funded by National Plan for Sciences and Technology, King Abdulaziz City for Science and Technology (Project No.: 11-BIO1959-02).

24) "*Vulnerability Assessment and Mitigation Strategies against Terrorist Blast Attacks on Existing Precast Buildings in Saudi Arabia*", Funded by National Plan for Sciences and Technology, King Abdulaziz City for Science and Technology (Project No.: 12-BUI2620-02).

25) *"Performance of Prestressed Fiber-Reinforced Concrete under Projectile Impact"*, Funded by National Plan for Sciences and Technology, King Abdulaziz City for Science and Technology (Project No.: 14-ADV1056-02).

26) *"Studying FRP-schemes for the strengthening and repair of wall-like RC columns"*, Funded by National Plan for Sciences and Technology, King Abdulaziz City for Science and Technology (Project No.: 13-ADV858-02).

vi) Awards

1982	First Class Honor / New Record- Highest GPA in the University
1983 – 89	Scholarship from King Saud University for Graduate Studies abroad (M.Sc. and Ph.D.) at the University of Illinois at Urbana-Champaign, Illinois, USA.
2006	Distinguished Research Award (Silver Award) for research project (Rehabilitation of the Infrastructure Using Composite Fabrics) awarded by King Abdulaziz City for Science and Technology (KACST)
2008	Best Paper Award – Awarded by American Society of Civil Engineers (ASCE) - Journal of Composites for Construction. 2007 (International)
2008	Distinguished Paper – The 5th International Engineering and Construction Conference (IECC'5), American Society of Civil Engineers, International Committee, Los Angeles Section, August 27-29, 2008. (International)
2009	Outstanding Research Award for infill walls project, awarded by Deanship of Scientific Research, King Saud University
2010	University Rector Distinguished performance award (for the chair)
2011	Distinguished Best Chair among all engineering research chairs (Grade A)
2012	Distinguished Best Chair among all engineering research chairs (Grade A)
2012	Outstanding Researcher Award (Awarded by College of Engineering, King Saud University)
2012	Outstanding graduate student award – (Eng. Aref Abadel – Supervisor: Prof. Yousef Al-Salloum), Awarded by College of Engineering, King Saud University
2013	Honored and awarded a gold medal for a patent entitled, "System for improving fire endurance of concrete-filled steel tubular columns", by Intellectual Property and Technology Licensing, King Saud University.
2014	Honored and awarded silver medal for patent entitled, "System for improving fire endurance of concrete-filled steel tubular columns", at 42nd International exhibition of inventions, Geneva, 2-6 April 2014. (International)
2014	Outstanding Researcher Award (Awarded by College of Engineering, King Saud University)
2015	Outstanding Researcher Award (Awarded by College of Engineering, King Saud University)
2016	Engineer Al-Qasabi National award for excellence in scientific research in Civil Engineering for best research in Saudi Arabia – 2 February 2016.
2016	Research excellence award, College of Engineering, King Saud University – 19 April 2016.

2017	Engineer Al-Qasabi National Award for excellence in scientific research in Civil Engineering for best research in Saudi Arabia – 30 April 2017
2018	Research excellence award, College of Engineering, King Saud University – 1 May 2018.
2020	Engineer Al-Qasabi National Award for excellence in scientific research in Civil Engineering for best research in Saudi Arabia – 14 December 2020.
2021	Engineer Al-Qasabi National Award of Saudi Arabia for excellence in scientific research in Civil Engineering for best research in Saudi Arabia, Dec. 2021.
2022	Engineer Al-Qasabi National Award of Saudi Arabia for excellence in scientific research in Civil Engineering for best research in Saudi Arabia, Jan. 2023.
2019-2023	Listed in the database of international researchers most cited for their research, represented by the top two percent (2%) of the researchers – worldwide - included in the Scopus database in various scientific disciplines (conducted by a scientific team at Stanford University).
2022-23	Research excellence award, College of Engineering, King Saud University.

vii) Patents

US Patents (Granted)

1. "System for improving fire endurance of concrete-filled steel tubular columns", US 8,484,915 B1, 16 July 2013, Granted.
2. "Masonry building block and interlocking wall system incorporating such blocks", US 8,640,407 B2, 4 Feb. 2014, Granted.
3. "Apparatus for assessing durability of stressed fiber reinforced polymer (FRP) bars", US9341553B2, 17 May 2016, Granted.
4. "Interlocking masonry blocks for construction of load bearing and non-load bearing walls", US 9435118 B2, Sept. 6, 2016, Granted.
5. "Fiber reinforced composite system for strengthening of wall-like RC columns and Methods for preparing such system", US 9,580,908, 28 Feb. 2017, Granted.
6. "Concrete-filled steel tubular column for high load carrying capacity and fire resistance", US 9677273 B2, Jun 13, 2017, Granted.
7. "Precast reinforced concrete construction elements with pre-stressing connectors", US9765521 B1, Sep 19, 2017, Granted.
8. "Interlocking and insulated construction blocks", US 9,822,529 B1, Nov. 21, 2017, Granted.
9. "Strengthening system for beam-column connection in steel frame buildings to resist progressive collapse", US 10,415,230 B1, 17 Sept. 2019, Granted.
10. "System for constructing a retaining wall", US 10,480,149 B1, 19 Nov. 2019, Granted.
11. "Multi-leg fiber reinforced concrete", US 10,563,403 B1, Feb. 18, 2020. Granted
12. "Method of connecting a circular concrete-filled steel tubular column to a reinforced concrete footing", US 10,563,402 B1, Feb. 18, 2020. Granted
13. "Integral tile/foam building block and method for making same", US 10,738,469 B2. 2020 Aug. 11, Granted.
14. "Construction block", US D 908,926 S, 26 Jan. 2021. Granted.
15. "Reinforced joint for beam-column connection", US 10,900,215 B1, 26 Jan. 2021. Granted.
16. "Fiber elements for soil stabilization", US 10,927,548 B1, 23 Feb. 2021. Granted.

17. "Damped reinforced joint for beam-column connection", US 10,934,734 B1, 2 March 2021. Granted.
18. "Method of connecting a circular concrete-filled steel tubular column to a RC footing", US Patent US 10,954,672 B2, 23 March 2021. Granted.
19. "System and method for connecting a square concrete-filled steel tubular column to a RC footing", US Patent US 10,954,662 B1, 23 March 2021. Granted.
20. "Hybrid post-installed anchor for concrete", US Patent US 10,982,443 B1, 20 April 2021. Granted.
21. "System and method for connecting a square concrete-filled steel tubular column to a RC footing", US Patent US 11,639,601 B2, 2 May 2023. Granted.
22. "Shear beam-column connection", US Patent US 1 1,773,593 B1, 3 Oct. 2023. Granted.
23. "Beam-column moment connection structure", US Patent US 12,091,879 B1, 17 Sept. 2024. Granted.
24. "Reinforced concrete beam with corrugated web reinforcement plate", US Patent US 12,158,002 B1, 3 Dec. 2024. Granted.
25. "Wire mesh concrete reinforcement members and methods of Use Thereof", US Patent US 12,227,454 B1, 18 Feb. 2025. Granted.

Saudi and GCC Patents (Granted)

1. "System for improving fire endurance of concrete-filled steel tubular columns", Saudi Patent SA 4343, 15 Sept 2015, Granted.
2. "Apparatus for assessing durability of stressed fiber reinforced polymer (FRP) bars", Saudi Patent SA 4983, 9 Aug 2016, Granted.
3. "Fiber reinforced composite system for strengthening of wall-like RC columns and Methods for preparing such system", Saudi Patent SA 5457, 20 July 2017, Granted.
4. "An integral tile/foam building block and method for making same", Saudi Patent SA 5577, 29 Oct. 2017, Granted.
5. "Interlocking masonry blocks for construction of load bearing and non-load bearing walls", Saudi Patent SA 5855, April 15, 2018, Granted.
6. "Concrete-filled steel tubular column for high load carrying capacity and fire resistance", Saudi Patent SA 5856, April 15, 2018, Granted.
7. "Interlocking and insulated construction blocks", Patent SA 7246, 4 Nov. 2020. Granted.
8. "Precast reinforced concrete construction elements with pre-stressing connectors", SGCC (Secretariat General for Cooperation Council) Patent GC0012451, May 31, 2023. Granted.

US Patents (Pending)

1. "Beam-Column Moment Connection", Filed for US patent.

viii) Laboratories Established

1. Laboratory for repair and rehabilitation of structures
2. Structural test facility for progressive collapse testing of structures
3. Dynamic material and structure testing laboratory (Split Hopkinson Pressure Bar Tester & Impact Penetration Tester (Gas Gun)
4. Advanced blast analysis software laboratory
5. Control and command center for infrastructure health monitoring
6. Self-healing materials research laboratory

ix) Other Research Studies Recently Completed / Ongoing

1. Assessment of Progressive Collapse Potential of R/C Buildings in Riyadh Due to Blast Attacks
2. Vulnerability Assessment for Steel Buildings in Riyadh Against Blast Attacks
3. Design and Behavior of Concrete-Filled Elliptical Steel Stub Columns at Elevated Temperatures
4. Design and Behavior of Concrete-Filled Circular Steel Stub Columns at Elevated Temperatures
5. Design of Fiber Reinforced Concrete Slabs Against Normal Impact of Projectiles
6. Design and behavior of slender FRP-confined circular RC columns
7. Design and behavior of slender FRP-confined square RC columns
8. Reliability of Double-Wall Containment against the Impact of Hard Projectiles
9. Effect of elevated temperature on axially-loaded RC columns strengthened with different techniques.
10. Effect of elevated temperature on RC one-way slabs flexurally upgraded with different techniques.
11. A study of kaolin-based Geopolymer concrete mix for producing Masonry blocks.
12. Behavior of Slender RC Columns Strengthened with CFRP Sheets Under Cyclic Compression.
13. Optimizing the techniques for the strengthening and repair of wall-like RC columns
14. Development of schemes for the strengthening of reinforced-concrete one-way ribbed slabs with rib-cutting openings
15. Strengthening of reinforced-concrete wide beams with planted columns

x) Publications

Papers Published in ISI Journals

1. Alanazi, M. A., Abbas, H., Elsanadedy, H., Almusallam, T., & **Al-Salloum, Y.** (2025). Effect of inner steel tube on compression performance of GFRP-reinforced concrete columns. Advances in Structural Engineering, 13694332251327838.

2. Alaoud, L., Abbas, H., Bakar, B. H. A., Zahid, M. M., & **Al-Salloum, Y.** (2025). Evaluation of FRP-Concrete Bond Strength: Insights from Slant Shear and Double Shear Tests. Case Studies in Construction Materials, e04552.

3. Abbas, H., Almajed, A., Kotwal, E., & **Al-Salloum, Y.** (2025). Bearing capacity enhancement of footings using confining inclined micropiles: Experimental and analytical investigation. Case Studies in Construction Materials, 22, e04184.

4. Elsanadedy, H., Al Kallas, A., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2024). Capacity reinstatement of reinforced concrete one-way ribbed slabs with rib-cutting shear zone openings: Hybrid fiber reinforced polymer/steel technique. Advances in Structural Engineering, 27(14), 2521-2543.

5. Alzoubi, H., Elsanadedy, H., Abbas, H., Almusallam, T., Abadel, A., & **Al-Salloum, Y.** (2024). Investigating the performance of basalt FRP-reinforced concrete columns: experimental and analytical insights. Archives of Civil and Mechanical Engineering, 24(4), 216.

6. Siddiqui, N. A., Abbas, H., Khateeb, B. M., Almusallam, T. H., & **Al-Salloum, Y.** (2024). Optimum Embedment Depths for CFST Column-to-Foundation Connections: Analytical and Reliability-based Approach. Journal of Building Engineering, 109628.

7. Abbas, H., Abadel, A., Alaskar, A., Almusallam, T., & **Al-Salloum, Y.** (2024). Effects of Moisture on Properties of Concrete Exposed to Elevated Temperature. Arabian Journal for Science and Engineering, 1-16.

8. Elsanadedy, H., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2024). Behavior of FRP-Retrofitted Wall-Like RC Columns after Preloading to Simulate In-Service Conditions. Buildings, 14(1), 61.

9. Abadel, A., Abbas, H., Siddiqui, N., Elsanadedy, H., Almusallam, T., & **Al-Salloum, Y.** (2023). Numerical investigation of projectile impact behavior of hybrid fiber-reinforced concrete slabs. Case Studies in Construction Materials, e02533.

10. Abbas, H., Siddiqui, N., Almusallam, T., Elsanadedy, H., Abadel, A., & **Al-Salloum, Y.** (2023). Projectile impact response of prestressed fiber-reinforced concrete slabs having perforated steel lining. Archives of Civil and Mechanical Engineering, 23(4), 250.

11. Al-Mahbashi, M., Elsanadedy, H., Abbas, H., Abadel, A., & **Al-Salloum, Y.** (2023). Experimental and numerical study of high strength reinforced concrete continuous deep beams with circular and rectangular openings. Journal of Building Engineering, 79, 107868.

12. **Al-Salloum, Y.**, Abbas, H., Elsanadedy, H., Siddiqui, N., & Almusallam, T. (2023, November). Compression behavior of RC wall-like columns strengthened using NSM/CFRP system without shape modification. In Structures (Vol. 57, p. 105158). Elsevier.

13. Al Kallas, A., Elsanadedy, H., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2023). Performance of FRP-Upgraded RC One-Way Ribbed Slabs with an Opening in Flexure Zone. Buildings, 13(9), 2260.

14. Abbas, H., Alanazi, M. A., Elsanadedy, H., Almusallam, T., Abadel, A., & **Al-Salloum, Y.** (2023). Effect of tie spacing and GFRP rebar diameter on compression behavior of concrete columns. Journal of Building Engineering, 106740.

15. Elsanadedy, H., Abbas, H., Siddiqui, N., Almusallam, T., & **Al-Salloum, Y.** (2023). Hybrid Steel/NSM/GFRP System versus GFRP Wrapping for Upgrading RC Wall-like Columns. Polymers, 15(8), 1886.

16. Abbas, H., Al-Dabaan, M., Siddiqui, N., Almusallam, T., & **Al-Salloum, Y.** (2023). Performance of Reinforced Concrete Composite Wall Systems under Projectile Impact. Journal of Materials Research and Technology, 23, 3062-3090.

17. Almusallam, T., Abbas, H., Hodali, O., Siddiqui, N., & **Al-Salloum, Y.** (2023). Behavior of prestressed fiber-reinforced steel-lined concrete slabs under projectile impact. Archives of Civil and Mechanical Engineering, 23(1), 64.

18. Abbas, H., Almusallam, T., Abadel, A., Alenzi, S., & **Al-Salloum, Y.** (2023). Shear Strength of Functionally Graded Self-Compacting Concrete Deep Beams Reinforced with Steel and GFRP Bars. Case Studies in Construction Materials, 18, e01872.

19. Abadel, A., Alenzi, S., Almusallam, T., Abbas, H., & **Al-Salloum, Y.** (2023). Shear behavior of self-consolidating concrete deep beams reinforced with hybrid of steel and GFRP bars. Ain Shams Engineering Journal, 102136.

20. Elsanadedy, H., Khawaji, M., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2023, February). Numerical modeling for assessing progressive collapse risk of RC buildings exposed to blast loads. In Structures (Vol. 48, pp. 1190-1208). Elsevier.

21. Elsanadedy, H., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2023). Performance of Concentrically Loaded RC Wall-like Columns Upgraded with Innovative Hybrid NSM/CFRP System. Polymers, 15(2), 378.

22. Abbas, H., Ibrahim, S. M., Al-Hazmi, N., Elsanadedy, H., Almusallam, T., & **Al-Salloum, Y.** (2022). Axial Compression Behavior of Wall-like Reinforced Concrete Columns Retrofitted Using Different FRP Schemes. Buildings, 13(1), 26.

23. Abbas, H., Elsanadedy, H., Alaoud, L., Almusallam, T., & **Al-Salloum, Y.** (2023). Effect of confining stirrups and bar gap in improving bond behavior of glass fiber reinforced polymer (GFRP) bar lap splices in RC beams. Construction and Building Materials, 365, 129943.

24. Elsanadedy, H., Alaoud, L., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2023). Externally bonded CFRP composites versus steel stirrups for the confinement of substandard lap spliced GFRP bars in RC beams. Composite Structures, 306, 116602.

25. Siddiqui, N., Abbas, H., Almusallam, T., Li, Q. M., & **Al-Salloum, Y.** (2022). Reliability Assessment of Steel-Lined and Prestressed FRC Slabs against Projectile Impact. Applied Sciences, 13(1), 90.

26. Alqarni, A.S., Albidah, A., Abbas, H., Almusallam, T., **Al-Salloum, Y.** (2022). Concrete Performance Produced Using Recycled Construction and By-Product Industrial Waste Coarse Aggregates. Materials 2022, 15(24), 8985.

27. Abbas, H., Siddiqui, N., Almusallam, T., Abadel, A., & **Al-Salloum, Y.** (2022). Prediction of Ballistic Limit of Strengthened Reinforced Concrete Slabs Using Quasi-Static Punching Test. Buildings, 12(11), 1815.

28. Alsaif, A., Albidah, A., Abadel, A., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2022). Behavior of ternary blended cementitious rubberized mixes reinforced with recycled tires steel fibers under different types of impact loads. In Structures (Vol. 45, pp. 2292–2305). Elsevier.

29. Albidah, A., Alghannam, M., Alghamdi, H., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2022). Influence of GGBFS and silica fume on characteristics of alkali-activated Metakaolin-based concrete. European Journal of Environmental and Civil Engineering, 1-24.

30. Elsanadedy, H., Sezen, H., Abbas, H., Almusallam, T., **Al-Salloum, Y.** (2022). Progressive collapse assessment of steel framed building considering buckling. Engineering Science and Technology, an International Journal, 101193.

31. Alsaif, A., Albidah, A., Abadel, A., Abbas, H., **Al-Salloum, Y.** (2022). Development of metakaolin-based geopolymer rubberized concrete: fresh and hardened properties. Archives of Civil and Mechanical Engineering, 22:144.

32. Abbas, H., Abadel, A., Almusallam, T., & **Al-Salloum, Y.** (2022). Experimental and Analytical Study of Flexural Performance of Concrete Beams Reinforced with Hybrid of GFRP and Steel Rebars. Engineering Failure Analysis, 106397.

33. Hadi, S., Abbas, H., Almajed, A., Binyahya, A., & **Al-Salloum, Y.** (2022). Biocementation by Sporosarcina pasteurii ATCC6453 under simulated conditions in sand columns. Journal of Materials Research and Technology, 18, 4375-4384.

34. Alqarni, A. S., Abbas, H., Al-Shwikh, K. M., & **Al-Salloum, Y. A.** (2022). Influence of Treatment Methods of Recycled Concrete Aggregate on Behavior of High Strength Concrete. Buildings, 12(4), 494.

35. Albidah, A., Alsaif, A., Abadel, A., Abbas, H., & **Al-Salloum, Y.** (2022). Role of recycled vehicle tires quantity and size on the properties of metakaolin-based geopolymer rubberized concrete. Journal of Materials Research and Technology, 18, 2593-2607.

36. Abadel, A., Abbas, H., Albidah, A., Almusallam, T., & **Al-Salloum, Y**. (2022). Effectiveness of GFRP strengthening of normal and high strength fiber reinforced concrete

after exposure to heating and cooling. Engineering Science and Technology, an International Journal, 36, 101147.

37. Almusallam, T., Abadel, A., Siddiqui, N., Abbas, H., & **Al-Salloum, Y.** (2022, May). Impact behavior of hybrid-fiber reinforced concrete beams. In Structures (Vol. 39, pp. 782-792). Elsevier.

38. Alrubaidi, M., Abbas, H., Elsanadedy, H., Almusallam, T., Iqbal, R., & **Al-Salloum, Y**. (2022). Experimental and FE study on strengthened steel beam-column joints for progressive collapse robustness under column-loss event. Engineering Structures, 258, 114103.

39. **Al-Salloum, Y.**, Alaoud, L., Elsanadedy, H., Albidah, A., Almusallam, T., & Abbas, H. (2022). Bond Performance of GFRP Bar-Splicing in Reinforced Concrete Beams. Journal of Composites for Construction, 26(2), 04022006.

40. Salah, A., Elsanadedy, H., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2022). Behavior of axially loaded L-shaped RC columns strengthened using steel jacketing. Journal of Building Engineering, 103870.

41. Albidah, A., Alqarni, A. S., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2022). Behavior of Metakaolin-Based geopolymer concrete at ambient and elevated temperatures. Construction and Building Materials, 317, 125910.

42. Alqarni, A. S., Abbas, H., Al-Shwikh, K. M., & **Al-Salloum, Y. A.** (2021). Treatment of recycled concrete aggregate to enhance concrete performance. Construction and Building Materials, 307, 124960.

43. Abbas, H., Siddiqui, N. A., Khateeb, B. M., Almusallam, T. H., **Al-Salloum, Y. A.** (2021). Performance of new CFST square column-to-foundation connections for cyclic loads. Journal of Constructional Steel Research 185, 106868.

44. Abadel, A., Elsanadedy, H., Almusallam, T., Alaskar, A., Abbas, H., **Al-Salloum, Y.** (2021) Residual compressive strength of plain and fiber reinforced concrete after exposure to different heating and cooling regimes. European Journal of Environmental and Civil Engineering.

45. Alrshoudi, F., Abbas, H., Abadel, A., Altheeb, A., Albidah, A., **Al-Salloum, Y.** (2021). Compression Behavior and Modeling of FRP-Confined High Strength Geopolymer Concrete. Construction and Building Materials, 283, 122759.

46. Alghannam, M., Albidah, A., Abbas, H., & **Al-Salloum, Y.** (2021). Influence of Critical Parameters of Mix Proportions on Properties of MK-Based Geopolymer Concrete. Arabian Journal for Science and Engineering 46 (5), 4399-4408.

47. Abadel, A.A., Albidah, A.S., Altheeb, A.H., Alrshoudi, F.A., Abbas, H., **Al-Salloum, Y.A**. (2021). Effect of molar ratios on strength, microstructure & embodied energy of metakaolin geopolymer. Advances in Concrete Construction, 11(2), 127-140.

48. Abbas, H., Siddiqui, N. A., Almusallam, T. H., Abadel, A. A., Elsanadedy, H., & **Al-Salloum, Y. A.** (2021). Effect of rebar spacing on the behavior of concrete slabs under projectile impact. Structural Engineering and Mechanics, 77(3), 329-342.

49. Elsanadedy, H., Alrubaidi, M., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2021). Progressive collapse risk of 2D and 3D steel-frame assemblies having shear connections. Journal of Constructional Steel Research, 179, 106533.

50. Albidah, A., Alghannam, M., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2021). Characteristics of Metakaolin-Based Geopolymer Concrete for Different Mix Design Parameters. Journal of Materials Research and Technology, 10, 84-98.

51. Elsanadedy, H. M., Abbas, H., Almusallam, T. H., & **Al-Salloum, Y. A.** (2021). Hybrid UHPC/NSM CFRP strips vs. traditional systems for flexural upgrading of RC beams–Experimental and FE study. Composite Structures, 113291.

52. Almajed, A., Abbas, H., Almusallam, T., & **Al-Salloum, Y**. (2021). Stabilization of sand using energy efficient materials under normal and extreme hot weathers. Journal of Cleaner Production, 285, 124914.

53. Elsanadedy, H. M., **Al-Salloum, Y. A.**, Alrubaidi, M. A., Almusallam, T. H., Siddiqui, N. A., & Abbas, H. (2021). Upgrading of precast RC beam-column joints using innovative FRP/steel hybrid technique for progressive collapse prevention. Construction and Building Materials, 121130.

54. Elsanadedy, H. M., **Al-Salloum, Y. A.**, Alrubaidi, M. A., Almusallam, T. H., & Abbas, H. (2021). Finite element analysis for progressive collapse potential of precast concrete beam-to-column connections strengthened with steel plates. Journal of Building Engineering, 34, 101875.

55. Alaoud, L., **Al-Salloum, Y.**, & Abbas, H. (2021). Experimental Investigation for GFRP rebar Couplers for Reinforced Concrete. Journal of King Saud University-Engineering Sciences. 33(2), 104-110.

56. Albidah, A., Abadel, A., Alrshoudi, F., Altheeb, A., Abbas, H., & **Al-Salloum, Y.** (2020). Bond strength between concrete substrate and metakaolin geopolymer repair mortars at ambient and elevated temperatures. Journal of Materials Research and Technology, 9(5), 10732-10745.

57. Albidah, A., Altheeb, A., Alrshoudi, F., Abadel, A., Abbas, H., & **Al-Salloum, Y.** (2020). Bond performance of GFRP and steel rebars embedded in metakaolin based geopolymer concrete. Structures, 27, 1582-1593.

58. Khateeb, B. M., Siddiqui, N. A., Almusallam, T. H., Abbas, H., & **Al-Salloum, Y. A.** (2020). Behavior of novel CFST circular column-to-foundation connections under cyclic loading. Engineering Structures, 221, 111051.

59. Abdullah Almajed, Husain Abbas, Mohamed Arab, Abdullah Alsabhan, Wagdi Hamid, **Yousef Al-Salloum** (2020) Enzyme-Induced Carbonate Precipitation (EICP)-Based Methods for Ecofriendly Stabilization of Different Types of Natural Sands, Journal of Cleaner Production, 274, 122627.

60. Alrubaidi, M., Elsanadedy, H., Abbas, H., Almusallam, T., & **Al-Salloum, Y.** (2020). Investigation of different steel intermediate moment frame connections under column-loss scenario. Thin-Walled Structures, 154, 106875.

61. Siddiqui, N., Abbas, H., Almusallam, T., Binyahya, A., & **Al-Salloum, Y.** (2020). Compression behavior of FRP-strengthened RC square columns of varying slenderness ratios under eccentric loading. Journal of Building Engineering, 101512.

62. Almusallam, T., **Al-Salloum, Y.**, Elsanadedy, H., Tuan, N., Mendis, P., & Abbas, H. (2020). Development limitations of compressive arch and catenary actions in reinforced concrete special moment resisting frames under column-loss scenarios. Structure and Infrastructure Engineering, 1-19.

63. Elsanadedy, H. M., **Al-Salloum, Y. A.**, Almusallam, T. H., Ngo, T., & Abbas, H. (2019). Assessment of progressive collapse potential of special moment resisting RC frames–Experimental and FE study. Engineering Failure Analysis, 105, 896-918.

64. Elsanadedy, H. M., Abbas, H., Almusallam, T. H., & **Al-Salloum, Y. A.** (2019). Organic versus inorganic matrix composites for bond-critical strengthening applications of RC structures–State-of-the-art review. Composites Part B: Engineering, 106947.

65. Abdulrahman Albidah, Aref Abadel, Husain Abbas, Tarek Almusallam, **Yousef Al-Salloum** (2019), Experimental and Analytical Study of Strengthening Schemes for Shear Deficient RC Deep Beams. Construction and Building Materials, 216, 673-686.

66. Husain Abbas, **Yousef A. Al-Salloum**, Hussein M. Elsanadedy, Tarek H. Almusallam (2019), ANN Models in Prediction of Residual Strength of HSC after Elevated Temperature. Fire Safety Journal, 106, 13-28.

67. Elsanadedy, H. M., **Al-Salloum, Y. A.**, Almusallam, T. H., Alshenawy, A. O., & Abbas, H. (2019). Experimental and numerical study on FRP-upgraded RC beams with large rectangular web openings in shear zones. Construction and Building Materials, 194, 322-343.

68. **Yousef Al-Salloum**, Ghaithan Al-Amri, Nadeem Siddiqui, Tarek Almusallam, Husain Abbas (2018), "Effectiveness of CFRP-Strengthening in Improving Cyclic Compression Response of Slender RC Columns", J of Composites for Construction, 22(3): 04018009.

69. **Yousef A. Al-Salloum**, Mohammed A. Alrubaidi, Hussein M. Elsanadedy, Tarek H. Almusallam and Rizwan A. Iqbal (2018), "Strengthening of precast RC beam-column connections for progressive collapse mitigation using bolted steel plates", Engineering Structures, Volume 161, 15 April 2018, Pages 146-160.

70. Nadeem Siddiqui , **Yousef Al-Salloum**, Tarek Almusallam, Aref Abadel, Husain Abbas (2018), Reliability assessment of of HFRC Slabs against Projectile Impact", International Journal of Concrete Structures and Materials, 12:58, pp. 1-11.

71. Almusallam, T. H., Elsanadedy, H. M., **Al-Salloum, Y. A.**, Siddiqui, N. A., & Iqbal, R. A. (2018). Experimental Investigation on Vulnerability of Precast RC Beam-column Joints to Progressive Collapse. KSCE Journal of Civil Engineering, 22(10), 3995-4010.

72. T.H. Amusallam, **Y.A. Al-Salloum**, H.M. Elsanadedy, A.O. Alshenawy, R.A. Iqbal (2018), "Behavior of FRP-strengthened RC beams with large rectangular web openings in flexure zones – Experimental and numerical study", International Journal of Concrete Structures and Materials, 12:47, pp. 1-28.

73. **Yousef Al-Salloum**, S. Hadi, H. Abbas, Tarek Almusallam, M.A. Moslem (2017), "Bio-induction and bioremediation of cementitious composites using microbial mineral precipitation – A review", Construction and Building Materials, 154, 857–87.

74. Hussein M. Elsanadedy, Tarek H. Almusallam, **Yousef A. Al-Salloum** and Husain Abbas (2017), "Numerical investigation of precast RC beam-column assemblies under column-loss scenario", Construction and Building Materials, 142, 552–571.

75. Hussein Elsanadedy, Tarek Almusallam, **Yousef Al-Salloum** and Rizwan Iqbal (2017), "Effect of high temperature on structural response of RC circular columns strengthened with FRP composites", Journal of Composite Materials, Vol. 51(3): 333–355, doi:10.1177/ 0021998316645171

76. Saleh Alsayed, **Yousef Al-Salloum**, Rizwan A. Iqbal and H. Abbas (2017), "Post-Heating Response of Concrete-Filled Circular Steel Columns", KSCE J of Civil Eng., 21(4):1367-1378, DOI: 10.1007/s12205-016-0852-3

77. M.S. Morsy, **Y.A. Al-Salloum**, T.H. Almusallam and H. Abbas (2017), "Mechanical properties, phase composition and microstructure of activated Metakaolin-slaked lime binder", KSCE J of Civil Eng., 21 (3), pp. 863-871. DOI: 10.1007/s12205-016-0667-2

78. Tarek Almusallam, **Yousef Al-Salloum**, Tuan Ngo, Priyan Mendis & Husain Abbas (2017), "Experimental Investigation of Progressive Collapse Potential of Ordinary and Special Moment Resisting Reinforced Concrete Frames", Materials and Structures, 50:137.

79. **Yousef Al-Salloum**, H. Abbas, Q.I. Sheikh, S. Hadi, Saleh Alsayed, Tarek Almusallam (2017), "Effect of some biotic factors on microbially-induced calcite precipitation in cement mortar", Saudi Journal of Biological Sciences, 24, 286–294, doi:10.1016/j.sjbs.2016.01.016

80. Tarek Almusallam, S.M. Ibrahim, **Yousef Al-Salloum**, Aref Abadel and Husain Abbas (2016), "Analytical and experimental investigations on the fracture behavior of hybrid fiber reinforced concrete", Cement and Concrete Composites, Vol. 74, pp. 201-217.

81. Aref Abadel, Husain Abbas, Tarek Almusallam, **Yousef Al-Salloum**, Nadeem Siddiqui, Mohammed A. Shubaili, Hossam El-Din M. Sallam (2016), "Discussion: Mechanical properties of hybrid fibre-reinforced concrete – analytical modelling and experimental behavior", Magazine of Concrete Research, Paper 1600243, Volume 68 Issue 22, November, 2016, pp. 1183-1186. http://dx.doi.org/10.1680/jmacr.16.00243.

82. Saleh H. Alsayed, H.M. Elsanadedy, Zaki M. Al-Zaheri, **Yousef A. Al-Salloum**, H. Abbas (2016), "Blast response of GFRP-strengthened infill masonry walls", Construction and Building Materials, Vol. 115, pp. 438–451.

83. **Yousef Al-Salloum**, Tarek Almusallam, Hussein Elsanadedy and Rizwan Iqbal (2016), "Effect of elevated temperature environments on the residual axial capacity of RC columns strengthened with different techniques", Construction and building materials, Vol. 115, pp. 345-361.

84. S.M. Ibrahim, Tarek Almusallam, **Yousef Al-Salloum**, Aref Abadel and H. Abbas (2016), "Strain rate dependent behavior and modeling for compression response of hybrid fiber reinforced concrete", Latin American Journal of Solids and Strcutures, Vol. 13, pp. 1695-1715.

85. H. M. Elsanadedy, **Yousef A. Al-Salloum**, Zaki M. Al-Zaheri, Saleh H. Alsayed, H. Abbas (2016), "Behavior and Design Aspects of FRP-Strengthened URM Walls under Out-of-Plane Loading", Journal of Composites for Construction, 04016048. Volume 20, Issue 6, pp. 1-16. Doi: 10.1061/(ASCE) CC.1943-5614.0000695.

86. H.M. Elsanadedy, H. Abbas, **Y.A. Al-Salloum** and T.H. Almusallam (2016), "Shear strength prediction of HSC slender beams without web reinforcement", Materials and Structures, Vol. 49, Issue 9, pp. 3749-3772, DOI 10.1617/s11527-015-0752-x

87. **Al-Salloum Y.A.**, Almusallam T.H., M.Y. Khawaji, Ngo T., Elsanadedy H.M., and Abbas H. (2016), "Progressive collapse analysis of RC Buildings against Internal Blast", Advances in Structural Engineering, Vol. 18, No. 12, pp. 2181-2192.

88. Aref Abadel, Husain Abbas, Tarek Almusallam, **Yousef Al-Salloum**, Nadeem Siddiqui (2016), "Mechanical properties of hybrid fibre-reinforced concrete – analytical modelling and experimental behaviour", Magazine of Concrete Research, 68(16), 823–843, DOI: 10.1680/jmacr.15.00276.

89. Mohammad S. Alhaddad , Khalid M. Wazira, **Yousef A. Al-Salloum**, Husain Abbas, "Ductility Damage Indices Based on Seismic Performance of RC Frames", Soil Dynamics and Earthquake Engineering 2015, Vol. 77, pp. 226-237.

90. Tarek H. Almusallam, Aref A. Abadel, **Yousef A. Al-Salloum**, Nadeem A. Siddiqui, and Husain Abbas, "Effectiveness of hybrid-fibers in improving the impact resistance of RC slabs", International Journal of Impact Engineering 2015, Vol. 81, pp. 61-73.

91. Ayman Mosallam, Hussein M Elsanadedy, Tarek H Almusallam, **Yousef A Al-Salloum**, Saleh H Alsayed (2015), "Structural evaluation of reinforced concrete beams strengthened

with innovative bolted/bonded advanced FRP composites sandwich panels", Composite Structures 2015, Vol. 124, pp. 421–440.

92. H.M. Elsanadedy, H. Abbas, **Y.A. Al-Salloum** and T.H. Almusallam. Closure to "Prediction of Intermediate Crack Debonding Strain of Externally Bonded FRP Laminates in RC Beams and One-Way Slabs" Journal of Composites for Construction, ASCE 2015, 19(2), 07014004.

93. Husain Abbas, Aref A. Abadel, Tarek H. Almusallam and **Yousef A. Al-Salloum**, "Effect of CFRP and TRM Strengthening of RC Slabs on Punching Shear Strength", Latin American Journal of Solids and Structures 2015, Vol. 12, pp. 1616-1640.

94. **Yousef Al-Salloum**, Tarek Almusallam, S.M. Ibrahim, H. Abbas and Saleh Alsayed, "Rate dependent stress-strain model of concrete in compression using SHPB", Cement & concrete composites 2015, Vol. 55, pp. 34-44.

95. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, Rizwan A. Iqbal, H. Abbas, "Effect of CFRP strengthening on the response of RC slabs to hard projectile impact", Nuclear Engineering and Design 2015, Vol. 286, pp. 211–226.

96. Elsanadedy H.M, Almusallam T.H., Alsayed S.H., **Al-Salloum Y.A.**, "Experimental and FE study on RC one-way slabs upgraded with FRP composites", KSCE Journal of Civil Engineering 2015, 19(4), pp. 1024-1040.

97. Almusallam T.H., Elsanadedy H.M, **Y.A. Al-Salloum**, "Effect of Longitudinal Steel Ratio on the Flexural Performance of RC Beams Strengthened with FRP Composites – Experimental and FE Study", Journal of Composites for Construction, ASCE 2015, Volume 19, Issue 1, 04014028.

98. H.M. Elsanadedy, T.H. Almusallam, Y.R. Alharbi, **Y.A. Al-Salloum** and H. Abbas, "Progressive collapse potential of a typical steel building due to blast attacks", J of constructional steel research 2014, Vol. 101, Pages 143–157.

99. Nadeem A. Siddiqui, Saleh H. Alsayed, **Yousef A. Al-Salloum**, Rizwan A. Iqbal and Husain Abbas, "Experimental investigation of slender circular RC columns strengthened with FRP composites", Construction and Building Materials 2014, Vol. 69, pp. 323–334.

100 **Y.A. Al-Salloum**, S.H. Alsayed, T.H. Almusallam, S.M. Ibrahim, H. Abbas, "Investigations on the influence of radial confinement in the impact response of concrete", Computers and Concrete 2014, Vol. 14, No. 6, 675-694.

101 S.H. Alsayed, T.H. Almusallam, S.M. Ibrahim, N.M. Al-Hazmi, **Y.A. Al-Salloum** and H. Abbas, "Experimental and Numerical investigation for compression response of CFRP strengthened shape modified wall-like RC column", Construction and Building Materials 2014, Vol. 63, pp. 72-80.

102 Nadeem A. Siddiqui, Baha M. A. Khateeb, Tarek H. Almusallam, **Yousef A. Al-Salloum**, Rizwan A. Iqbal, and H. Abbas, "Reliability of RC Shielded Steel Plates against the Impact of Sharp Nose Projectiles", Int J of Impact Engineering 2014, Vol. 69, pp. 122-135.

103 H.M. Elsanadedy, H. Abbas, **Y.A. Al-Salloum** and T.H. Almusallam "Prediction of intermediate crack debonding strain of externally bonded FRP laminates in RC beams and one-way slabs", ASCE J of Composites for Construction 2014, Vol. 18(5), 04014008.

104 M.S. Morsy, S.H. Alsayed, **Y. Al-Salloum** and T. Almusallam, "Effect of sodium silicate to sodium hydroxide ratio on strength and microstructure of fly ash geopolymer binder", Arabian Journal for Science and Engineering 2014, Vol. 39(6), pp. 4333-4339.

105 M.S. Morsy, **Y. Al-Salloum**, T. Almusallam and H. Abbas "Effect of Nano-Metakaolin Addition on Hydration Characteristics of Fly Ash Blended Cement Mortar", J of Thermal Analysis and calorimetry 2014, Vol. 116, pp. 845-852.

106 S.M. Ibrahim, S.H. Alsayed, H. Abbas, E. Carrera, **Y.A. Al-Salloum** and T.H. Almusallam, "Free vibration of tapered beams and plates based on unified beam Theory", Journal of Vibration and Control 2014, Vol. 20(16), pp. 2450–2463.

107 **Y.A. Al-Salloum**., El-Gamal S., Almusallam T.H., Alsayed S.H., and Aqel M., "Effect of Harsh Environmental Conditions on the Tensile Properties of GFRP Bars", Composites Part B: Engineering 2013, Vol.45, No: 1, pp. 835 - 844.

108 Almusallam T.H., **Y.A. Al-Salloum**, Alsayed S.H, El-Gamal S., and Aqel M. "Tensile properties degradation of glass fiber-reinforced polymer bars embedded in concrete under severe laboratory and field environmental conditions", Journal of Composite Materials 2013, Vol. 47, Issue 4, pp. 393-407.

109 Almusallam T.H., Elsanadedy H.M, **Y.A. Al-Salloum**, Alsayed S.H, "Experimental and numerical investigation for the flexural strengthening of RC beams using near-surface mounted steel or GFRP bars" Construction and Building Materials 2013, Vol. 40, pp. 145 - 161.

110 Elsanadedy H.M, Almusallam T.H., Alsayed S.H., **Y.A. Al-Salloum**, "Flexural strengthening of RC beams using textile reinforced mortar - Experimental and numerical study" Composite Structures 2013, Vol. 97, p.p. 40-55.

111 Elsanadedy H.M., **Y.A. Al-Salloum**., Alsayed S.H., "Prediction of punching shear strength of HSC interior slab-column connections", KSCE Journal of Civil Engineering 2013, 17(2):473-485.

112 Elsanadedy H.M., **Y.A. Al-Salloum**., Abbas H., Alsayed S.H. "Prediction of strength parameters of FRP confined concrete", Composites Part B: Engineering 2012, Vol. 43, Issue 2, pp. 228–239.

113 Shah A.A., Alsayed S.H., Abbas H., **Y.A. Al-Salloum**. "Predicting residual strength of non-linear ultrasonically evaluated damaged concrete using artificial neural network", Construction and Building Materials 2012, Vol. 29, pp. 42–50.

114 Elsanadedy H.M., **Y.A. Al-Salloum**., Alsayed S.H., Iqbal R.A. "Experimental and numerical investigation of size effects in FRP wrapped concrete columns", Construction and Building Materials 2012, Vol. 29, pp. 56-72.

115 **Y.A. Al-Salloum**., Elsanadedy H.M., Alsayed S.H., Iqbal R.A. "Experimental and numerical study for the shear strengthening of RC beams using textile reinforced mortar", Journal of Composites for Construction 2012, Vol. 16, Issue 1, pp. 74-90.

116 Alhaddad M.S., Siddiqui N.A., Abadel A.A., Alsayed S.H., **Y.A. Al-Salloum**. "Numerical Investigations on the Seismic Behavior of FRP and TRM Upgraded RC Exterior Beam-Column Joints", Journal of Composites for Construction, 2012, Vol. 16, Issue 3, pp. 308-321.

117 Alsayed S.H, **Y.A. Al-Salloum**, Almusallam T.H., El-Gamal S., and Aqel M. "Performance of glass fiber reinforced polymer bars under elevated temperatures", Composites Part B: Engineering, 2012, Vol. 43, Issue 5, pp. 2265-2271.

118 **Y.A. Al-Salloum**., Shah A.A., Abbas H., Alsayed S.H., Almusallam T.H. and Alhaddad M.S. "Prediction of compressive strength of concrete using neural networks", Computers and Concrete 2012, Vol. 10, Issue 2, pp. 197-217.

119 El-Gamal S., **Y.A. Al-Salloum**., Alsayed S.H., Aqel M. "Performance of Near Surface Mounted GFRP Bars in Concrete", Journal of Reinforced Plastics and Composites 2012, Vol.31, Issue 22, pp. 1501 - 1515.

120 Morsy M.S., Alsayed S.H., **Y.A. Al-Salloum**. "Development of Eco-Friendly Binder Using Metakaolin-Fly Ash-Lime-Anhydrous Gypsum", Construction and Building Materials 2012, Vol. 35, pp. 772–777.

121 Morsy M.S., **Y.A. Al-Salloum**., Abbas H. , Alsayed S.H. "Behavior of Blended Cement Mortars Containing Nano-Metakaolin at Elevated Temperatures", Construction and Building Materials 2012, Vol. 35, pp. 900-905.

122 Elsanadedy H.M., Almusallam T.H., Abbas H., **Y.A. Al-Salloum**., Alsayed S.H. "Effect of blast loading on CFRP-Retrofitted RC columns – a numerical study", Latin American Journal of Solids and Structures 2011, Vol. 8, pp. 55-81.

123 **Y.A. Al-Salloum**., Almusallam T.H., Alsayed S.H. and Siddiqui N.A. "Seismic behavior of as-Built, ACI-complying, and CFRP-repaired exterior RC beam-column Joints", Journal of Composites for Construction 2011, Vol. 15, No. 4, pp. 522-534.

124 **Y.A. Al-Salloum**., Elsanadedy H.M., Abadel A.A. "Behavior of FRP-confined concrete after high temperature exposure", Construction and Building Materials 2011, Vol. 25, Issue 2, pp. 838–850.

125 Abbas H., Alsayed S.H., Almusallam T.H. and **Y.A. Al-Salloum**. "Characterization of hole-diameter in thin metallic plates perforated by spherical projectiles using genetic algorithms", Archive of Applied Mechanics 2011, Vol. 81, Issue 7, pp. 907-924.

126 **Y.A. Al-Salloum**., Siddiqui N.A., Elsanadedy H.M., Abadel A.A., and Aqel M.A. "Textile-Reinforced Mortar (TRM) versus FRP as strengthening material of seismically deficient RC beam-column joints", Journal of Composites for Construction 2011, Vol. 15 (6): 920-933.

127 Alsayed S.H., **Y.A. Al-Salloum**., Almusallam T.H. and Siddiqui N.A. (2010). "Seismic Response of FRP-upgraded exterior RC beam-column joints." Journal of Composites for Construction, ASCE, Vol. 14, Issue 2, pp. 195-208.

128 Alsayed S.H., Almusallam T.H., **Y.A. Al-Salloum**., and Siddiqui N.A. (2010), "Seismic rehabilitation of corner RC beam-column joints using CFRP composites." Journal of Composites for Construction, ASCE, Vol. 14, Issue 6, pp. 681-692.

129 Almusallam T.H., Elsanadedy H.M., Abbas H., Alsayed S.H. and **Y.A. Al-Salloum.,** (2010), "Progressive collapse analysis of a RC building subjected to blast loads", Structural Engineering & Mechanics, Vol. 36, Issue 3, pp. 301-319.

130 **Y.A. Al-Salloum**., "Compressive strength of FRP-confined concrete at elevated temperatures", Polymers and Polymer Composites, Vol. 16, No. 9, pp. 611-620, 2008.

131 **Y.A. Al-Salloum** and T.H. Almusallam.,"Seismic Response of Interior RC Beam-Column Joints Upgraded with FRP Sheets - Part I: Experimental Study", ASCE Journal of Composites for Construction, Volume 11, Issue 6, pp. 575-589, (Nov/Dec) 2007.

132 T.H. Almusallam, **Y.A. Al-Salloum**.,"Seismic Response of Interior RC Beam-Column Joints Upgraded with FRP Sheets - Part II: Analysis and Parametric Study," ASCE Journal of Composites for Construction, Volume 11, Issue 6, pp. 590-600, (Nov/Dec) 2007.

133 **Y.A. Al-Salloum**, "Influence of edge sharpness on the strength of square concrete columns confined with FRP composite laminates," Journal of Composites Part B: Engineering, Volume 38, Issues 5-6, Pages 640-650, (July-Sept) 2007.

134 **Y.A. Al-Salloum** and T.H. Almusallam, "Creep Effect on the Behavior of Concrete Beams Reinforced with GFRP Bars Subjected to Different Environments," Construction and Building Materials, Volume 21, Issue 7, July 2007, Pages 1510-1519.

135 T.H. Almusallam, **Y.A. Al-Salloum**, "Behavior of FRP Strengthened Infill Walls Under In-Plane Seismic Loading", ASCE Journal of Composites for Construction, Volume 11, Issue 3, pp. 308-318 (May/June) 2007. (Awarded Paper by ASCE)

136 T.H. Almusallam and **Y.A. Al-Salloum**, "Durability of GFRP Rebars in Concrete Beams under Sustained Loads at Severe Environments," Journal of Composite Materials, 40, 2006, pp. 623-637.

137 T.H. Almusallam, **Y.A. Al-Salloum,** "Flexure Strengthening of RC Beams Using Glass FRP Sheets", Pertanika Journal of Science and Technology, Universiti Putra Malaysia (UPM), Vol. 13, No. 1, January 2005.

138 **Y.A. Al-Salloum** and T.H. Almusallam, "Load Capacity of Concrete Masonry Block Walls Strengthened with Epoxy-bonded GFRP Sheets." Journal of Composite Materials, 39, 2005, pp. 1719 - 1745.

139 T.H. Almusallam, **Y.A. Al-Salloum**, "Ultimate Strength Prediction for RC Beams Externally Strengthened by Composite Materials," *Journal of Composites: Part B Engineering*, 32, 2001, pp. 609-619.

140 S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "Performance of Glass Fiber Reinforced Plastic Bars As A Reinforcing Material for Concrete Structures," *Journal of Composites: Part B Engineering*, Vol 31, No. 6/7, 2000, pp. 555-567.

141 S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "Fibre-Reinforced Polymer Repair Materials – Some Facts," Journal of the Institution of Civil Engineering, Vol. 138, Issue Three, August 2000, London, , pp. 131-134.

142 S.H. Alsayed and **Y.A. Al-Salloum**, "Optimization of Flexure Environment of Concrete Beams Reinforced with Fibre Reinforced Plastic Rebars", *Magazine of Concrete Research*, Volume 48, No. 174, March 1996, pp. 27-36.

143 **Y.A. Al-Salloum**, "Optimum Proportions of Built-Up Wide Flange Sections", *Journal of Constructional Steel Research*, Volume 36, No. 3, pp. 151-180, 1996.

144 **Y.A. Al-Salloum**, "A Pseudo Fully-Stressed Design Approach for Optimum Design of Steel Frames", *International Journal for Numerical Methods in Engineering*, Volume 38, 1995, pp. 3513-3527.

145 **Y.A. Al-Salloum** and T.H. Almusallam, "Optimality and Safety of Rigidly and Flexibly Jointed Steel Frames", *Journal of Constructional Steel Research*, Volume 35, No. 2, 1995, pp. 189-215.

146 **Y.A. Al-Salloum** and G. H. Siddiqi, "Cost-Optimum Design of Reinforced Concrete Beams", *ACI Structural Journal*, American Concrete Institute, Volume 91, No. 6, Nov-Dec. 1994, pp. 647-655.

147 **Y.A. Al-Salloum**, and G.H. Siddiqi, "A Basis for Local Minima of A Symmetric Frame Topography," *Computers and Structures*, Volume 51, No. 6, June 1994, pp. 705-712.

148 **Y.A. Al-Salloum** and G. H Siddiqi, "Optimum Design of Frames Under Alternate Loading Condition", *Canadian Journal of Civil Engineering*, 20(5), Oct. 1993, pp. 778-786, Canada.

149 **Y.A. Al-Salloum** and G. H. Siddiqi, "Is a Frame Built-Up of Individual Load Optimums Really Optimum and Safe?", *Computers and Structures*, Volume 48, No. 1, pp. 15-21, July 1993, USA.

150 G. H Siddiqi and **Y.A. Al-Salloum**, "Optimal Retrofitting of Rigid Frames",*Computers and Structures,* Volume 48, No. 1, pp. 7-13, July 1993, USA.

Papers Published in Non-ISI Journals

151 Alaoud L., **Y. Al-Salloum**, H. Abbas (2021). Experimental Investigation for GFRP rebar Couplers for Reinforced Concrete. Journal of King Saud University-Engineering Sciences, 33(2), 104-110.

152 **Y.A. Al-Salloum**, H. Abbas, T.H. Almusallam, T. Ngo, P. Mendis (2017), "Progressive Collapse Analysis of a Typical RC High-Rise Tower", Journal of King Saud University - Engineering Sciences, Volume 29, Issue 4, Pages 313-320.

153 Husain Abbas, Tarek Almusallam, **Yousef Al-Salloum**, Nadeem Siddiqui (2017). "Prediction of ejected mass from hybrid-fiber reinforced concrete slabs subjected to impact loads", Procedia Engineering 173: 77–84.

154 Aref Abadel, Husain Abbas, Tarek Almusallam, **Yousef Al-Salloum**, Nadeem Siddiqui (2017). "Local impact damage response of CFRP-strengthened RC slabs", Procedia Engineering 173: 85–92.

155 S.M. Ibrahim, **Y.A. Al-Salloum** and H. Abbas, "Dynamic analysis of tapered plates based on higher order beam theory", Advanced Materials Research, Vols. 919-921 (2014), pp. 79-82.

156 Husain Abbas, Tarek Almusallam and **Yousef Al-Salloum**, "Improving the Impact Resistance of Reinforced Concrete", Advanced Materials Research, Vols. 919-921 (2014), pp. 1924-1929.

157 Alsayed S.H., Almusallam T.H., **Y.A. Al-Salloum**., El-Gamal S. "Tensile properties of GFRP bars after exposure to harsh laboratory and field environmental conditions", Advanced Materials Research, May 2011, Vols. 250-253, pp. 3738-3742.

158 Khan M.I., Almusallam T.H., Almosa A.A., Alsayed S.H., **Y.A. Al-Salloum**., "Evaluation and performance of repair materials for rehabilitation of concrete structures", Advanced Materials Research, January 2011, Vols. 163-167, pp. 3820-3825.

159 Abbas H., **Y.A. Al-Salloum**., Alsayed S.H., Elsanadedy H.M., Rizwan I. Iqbal "Numerical study for retrofitting of RC columns for blast loading", New Building Materials and Construction World, June 2011, Article No. 23886.

160 S.H. Alsayed, H. Abbas and **Y.A. Al-Salloum** (2011), "Numerical Study for CFRP Strengthening of RC Columns for Blast Resistance", World Journal of Engineering, Vol 7, Supplement 3, pp. 55-56.

161 Shah A.A., **Y.A. Al-Salloum.,** and Alsayed S.H. (2010), "Evaluating Damage of Concrete with Non-Linear Ultrasonic and Acoustic Emission Techniques", Key Engineering Materials, (Advances in Fracture and Damage Mechanics IX), Vols. 452-453, pp. 553-556.

162 Shah A.A., **Y.A. Al-Salloum.,** (2010), "Correlating Tests of Progressively Damaged Concrete with NLU and AE Techniques", International Journal of Civil and Environmental Engineering, Vol. 10, No. 1, pp. 15-22.

163 Shah A.A., **Y.A. Al-Salloum**., (2010), "Application of Ultrasonic Testing Technique to Evaluation of Strength Development in Early Age Mortars", International Journal of Civil and Environmental Engineering, Vol. 10, No. 1, pp. 28-33.

164 **Y.A. Al-Salloum**, "Flexural Performance of RC Beams Repaired with Commercial Repair Materials", Engineering Science, Journal of King Saud University, Volume 19, No. 2, 2007.

165 **Y.A. Al-Salloum**., "Contribution of GFRP Compression Reinforcement to the Flexural Capacity of RC Beams", Scientific Bulletin, Journal of Ain Shams University, Faculty of Engineering, Volume 42, No. 3, Sept 2007.

166 **Y.A. Al-Salloum**, T.H. Almusallam, "Rehabilitation of the Infrastructure Using Composite Materials: Overview and Applications", *Journal of King Saud University*, Vol. 16, Eng. Sci. (1), 2003, pp. 1-21.

167 S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "Concrete Columns Reinforced by Glass Fiber Reinforced Polymer Rods" ACI SP-188, 2000, pp.103-112.

168 **Y.A. Al-Salloum** and S.H. Alsayed, "Replacing Reinforcing Steel in RC Beams by GFRP: A Comparative Cost Study", Journal of king Abdulaziz University, Engineering Sciences, Special issue, Jeddah, 1999, pp. 45-52.

Papers Published in Refereed Conferences / Symposia

1. Mohammed Alsagabi, Hussam Alghamdi, Husain Abbas, **Yousef Al-Salloum** (2024), "Influence of Red Mud on workability, Setting Time, and Strength in Cementitious Mixes for 3D Printing Applications", Proceedings of the 5th International Conference on Civil Engineering Fundamentals and Applications (ICCEFA 2024), Lisbon, Portugal, November 18 – 20, Paper No. 150. DOI: 10.11159/iccefa24.150
2. Husain Abbas, N. Siddiqui, T. Almusallam, H. Elsanadedy, A. Abadel, **Y. Al-Salloum**, 2024, "Impact Response of Perforated Steel-lined Fiber-Reinforced Concrete Slabs", International Conference on Mechanical Engineering- Ideas, Innovations and Initiatives (ICMEI3-2024), 24-25 Feb. 2024, Aligarh, India
3. Tarek Almusallam, **Yousef Al-Salloum**, Aref Abadel, Nadeem Siddiqui, Husain Abbas (2019). Improving impact response of RC slabs using CFRP and TRM strengthening. 25th Advanced Materials Congress (AMC), International Association of Advanced Materials (IAAM), 24-27 March, Stockholm, Sweden.
4. Husain Abbas, Tarek Almusallam, **Yousef Al-Salloum**, Nadeem Siddiqui (2016). "Prediction of ejected mass from hybrid-fiber reinforced concrete slabs subjected to impact loads", 11th International Symposium on Impact and Plasticity (IMPLAST 2016), Dec. 11-14, 2016, Indian Institute of Technology Delhi, New Delhi, India.
5. Aref Abadel, Husain Abbas, Tarek Almusallam, **Yousef Al-Salloum**, Nadeem Siddiqui (2016). "Local impact damage response of CFRP-strengthened RC slabs", 11th International Symposium on Impact and Plasticity (IMPLAST 2016), Dec. 11-14, 2016, Indian Institute of Technology Delhi, New Delhi, India.
6. T. Almusallam, **Y. Al-Salloum**, H. Elsanadedy, R. Iqbal, H. Abbas, N. Siddiqui, "Risk assessment of precast reinforced concrete buildings against blast loads: A case study", Sixth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016), Cape Town, South Africa, 5-7 September 2016. In Insights and Innovations in Structural Engineering, Mechanics and Computation. Edited by Alphose Zingoni, Taylor & Francis Group, 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, FL 33487-2742 CRC Press 2016. Pp. 972–975. Print ISBN: 978-1-138-02927-9; eBook ISBN: 978-1-317-28063-7; DOI: 10.1201/9781315641645-160
7. Husain Abbas, Tarek Almusallam, **Yousef Al-Salloum**, Nadeem Siddiqui, Aref Abadel (2016), "TRM versus FRP as strengthening material for improving impact resistance of RC slabs", 35th International Conference on Ocean, Offshore and Arctic Engineering, ASME 2016 OMAE, June 19-24, 2016, Busan, South Korea (ASME Honor).
8. **Yousef Al-Salloum**, Tarek Almusallam, Tuan Ngo, Hussein Elsanadedy, Husain Abbas, Priyan Mendis (2016), "Progressive collapse analysis of a medium-rise circular rc building against blast loads", 35th International Conference on Ocean, Offshore and Arctic Engineering, ASME 2016 OMAE, June 19-24, 2016, Busan, South Korea.

9. Abadel Aref, Almusallam Tarek, Abbas Husain, **Al-Salloum Yousef**, Siddiqui Nadeem, (2015), "Local damage response of HFRC", 8th Int Conference – Fiber Concrete 2015, Prague, Prague, Czech Republic, September 10-11, 2015.
10. Ibrahim S.M., Abadel Aref, Almusallam Tarek, **Al-Salloum Yousef**, Siddiqui Nadeem, Abbas Husain (2015), "Strain rate effect on steel fiber reinforced concrete under compression", 8th Int Conference – Fiber Concrete 2015, Prague, Prague, Czech Republic, September 10-11, 2015.
11. Ibrahim S.M., Abadel Aref, Almusallam Tarek, **Al-Salloum Yousef**, Siddiqui Nadeem, Abbas Husain (2015), "Modelling of steel fibre reinforced concrete (SFRC) under dynamic compression", 8th Int Conference – Fiber Concrete 2015, Prague, Prague, Czech Republic, September 10-11, 2015.
12. Al-Amri, G.S. **Al-Salloum, Y.A.**, Siddiqui, N.A. and Abbas, H. (2015), "Response of FRP-Strengthened Slender RC Columns under Cyclic Compression," 20th International Conference on Composite Materials (ICCM20), Copenhagen, Denmark, 19-24 July 2015, Paper ID 4419-3, Track 5-07.
13. Aref A. Abadel, Tarek H. Almusallam, Husain Abbas, **Yousef A. Al-Salloum**, Nadeem A. Siddiqui and Rizwan A. Iqbal (2014), "Impact Behavior of Hybrid-fiber RC Slabs", The 7th International Conference on FRP Composites in Civil Engineering (CICE 2014), International Institute for FRP in Construction, 20-22 August 2014, Vancouver, Canada.
14. Aref Abadel, Tarek Almusallam, **Yousef Al-Salloum**, Husain Abbas (2014), "Punching Shear Strength of Steel Fiber Reinforced High Strength Concrete", 2nd International Conference on Advances in Civil, Structural and Environmental Engineering (ACSEE-2014), 25-28 Oct. 2014, Zurich, Switzerland.
15. G.S. Al-Amri, **Y.A. Al-Salloum**, N.A. Siddiqui and H. Abbas (2014), "Effect of longitudinal FRP wraps on strength of slender square RC columns", 22nd Annual International Conference on Composites/Nano Engineering (ICCE-22), July 13-19, 2014 Saint Julien, Malta.
16. Husain Abbas, Tarek Almusallam and **Yousef Al-Salloum** (2014), "Improving the impact resistance of reinforced concrete", ICSBM 2014: 4th International Structures and Building Materials Conference, 15-16, March, 2014, Guangzhou, P.R. China.
17. S.M. Ibrahim, **Y.A. Al-Salloum** and H. Abbas (2014), "Dynamic analysis of tapered plates based on higher order beam theory", ICSBM 2014: 4th International Structures and Building Materials Conference, 15-16, March, 2014, Guangzhou, P.R. China.
18. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, H. Abbas (2013), "Thermal aspects of Mass Concreting in Hot Weather" Symposium on Quality Control Laboratories in Structural Projects, Ministry of Municipal and Rural Affairs, Saudi Arabia, 22-23 April 2013.
19. A.A. Abadel, H. Abbas, T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, N.A. Siddiqui, R. Iqbal, (2012), "Local impact Damage Behavior of Fiber Reinforced High Strength Concrete Slabs" 8th RILEM International symposium on fibre reinforced concrete: Challenges and Opportunities (BEFIB 2012), Guimarães, Portugal, 19-21 Sept. 2012.
20. **Y.A. Al-Salloum**, N. A. Siddiqui, A. A. Abadel, S. H. Alsayed, T. H. Almusallam (2012), "Effectiveness of Textile Reinforced Mortars (TRM) on Shear Strengthening of Seismically Deficient RC Beam-Column Joints", 7th Asian Symposium on Polymers in concrete, (ASPIC 2012), Istanbul, Turkey.
21. S.H. Alsayed, **Y.A. Al-Salloum**, H. Abbas et al. (2012), "Exploratory Study for Low Cost Housing and Building Systems" Advanced Materials Technology Conference, KACST, Riyadh, Dec. 2012.
22. M.S. Morsy, S.H. Alsayed and **Y.A. Al-Salloum** (2011), "Development of a cementless Mortar using Fly Ash-Lime-Nano Clay", Third International Conference on Nano-Technology in Construction (NTC 2011), "Nano Technology for Eco-Friendly and Durable Construction", Cairo, Egypt, 14-17 March, 2011.
23. M.S. Morsy, **Y.A. Al-Salloum** and H. Abbas (2011), "Synthesis and Characterization of Fly Ash-Activated Nano clay Geopolymer", Third International Conference on Nano-Technology in Construction (NTC 2011), "Nano Technology for Eco-Friendly and Durable Construction", Cairo, Egypt, 14-17 March, 2011.

24. S.H. Alsayed, N.A. Siddiqui, **Y.A. Al-Salloum**, T.H. Almusallam (2011) "Strengthening of Seismically-deficient RC Beam-column Exterior and Interior Joints Using CFRP Composites" ISISS2011 - The International Symposium on Innovation & Sustainability in Civil Engineering, 28-30 Oct 2011, Xiamen, China.

25. M.I. Khan, T.H. Almusallam, S.H. Alsayed, **Y.A. Al-Salloum**, A.A. Almosa, "Benchmarking Laboratory Investigated Locally available Cementitious Repair Materials against their Manufacturer's Data Sheets," *Concrete Solutions 2011, 4th International Conference on Concrete Repair*, 26-28 Sep 2011, Dresden, Germany.

26. T.H. Almusallam, **Y.A. Al-Salloum**, S. Alsayed, S.E. El-Gamal, M. Aqel (2011) "Effects of Harsh Laboratory and Field Environmental Conditions on the Durability of Concrete Wrapped GFRP Bars," CDCC 2011 Fourth International Conference on Durability & Sustainability of FRP Composites for Construction and Rehabilitation, 20–22 July 2011, Loews Le Concorde Hotel, Quebec City, Canada.

27. S.H. Alsayed, T.H. Almusallam, **Y.A. Al-Salloum**, S.E. El-Gamal (2011) "Tensile Properties of GFRP Bars after Exposure to Harsh Laboratory and Field Environmental Conditions" CEABM2011 Advanced Building Materials conference, 18-20 June 2011, Haikou, Hainan, China.

28. A.A. Shah, H. Abbas, S.H. Alsayed, **Y.A. Al-Salloum** (2011) "Residual Strength Calculation of Damaged Concrete with ANN", Conference on Green Building, Materials and Civil Engineering (GBMCE 2011), 22-23 August 2011, Shangri-La, China.

29. S.H. Alsayed, H. Abbas, **Y.A. Al-Salloum** (2011) "Numerical Study for CFRP Strengthening of RC Columns for Blast Resistance", 19th International conference on composites or nano engineering (ICCE-19), 24-30 July 2011, Shanghai, China.

30. H. Abbas, **Y.A. Al-Salloum**, S.H. Alsayed, H.M. Elsanadedy and R.I. Iqbal (2011) "Numerical Study for Retrofitting of RC columns for blast loading", National conference on Repair and Rehabilitation of Structures, 6-7 May 2011, Noida, India.

31. **Y.A. Al-Salloum**, T.H. Almusallam, H.M. Elsanadedy and A.A. Abadel (2010), "Effect of specimen size on the strength of FRP- confined concrete", ICPIC 2010 – 13th International Congress on Polymers in Concrete, 10-12 February 2010, Madeira Islands, Portugal.

32. T.H. Almusallam, **Y.A. Al-Salloum**, S. H. Alsayed and H. M. Elsanadedy (2010), "Textile reinforced mortar for shear strengthening of RC beams", CONSEC'10 - Sixth International Conference on Concrete under Severe Conditions, 7-9 June 2010, Mérida, Yucatán, México.

33. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Amusallam and H. Abbas (2010), "Environmental Sustainability and Cost Control in Building Construction", 6th International Engineering and Construction Conference, 28-30 June 2010, Cairo, Egypt.

34. Shah, A.A. and **Y.A. Al-Salloum** (2010), "Ductility investigation of flat-plate slab-column connections", Proceedings of ASCE 6h International Engineering and Construction Conference (IECC'6), June 28-30, 2010, Cairo, Egypt, pp: 114-120.

35. T.H. Almusallam, P. Mendis, T. Ngo, H.M. Elsanadedy, H. Abbas, S.H. Alsayed, **Y.A. Al-Salloum** and M.S. Alhaddad (2010), "Progressive collapse analysis of a Typical RC building of Riyadh", IMPLAST 2010 - SEM Fall Conference, University of Rhode Island, USA, Oct. 12-14, 2010.

36. H.M. Elsanadedy, T.H. Almusallam, H. Abbas, **Y.A. Al-Salloum**, S.H. Alsayed and M.S. Alhaddad (2010), "Effect of blast loading on CFRP-retrofitted RC columns", IMPLAST 2010 - SEM Fall Conference, University of Rhode Island, USA, Oct. 12-14, 2010.

37. T.H. Almusallam, H.M. Elsanadedy, H. Abbas, P. Mendis, T. Ngo, S.H. Alsayed and **Y.A. Al-Salloum** (2010), "Blast Analysis of a Typical Reinforced Concrete Building of Riyadh", 2010 International Symposium on Safety Science and Technology, Hangzhou, Zhejiang Province, China, October 26-29, 2010.

38. M.I. Khan, S.H. Alsayed, T.H. Almusallam, **Y.A. Al-Salloum** and A. Almosa, "Performance of Repair Materials for Durable Concrete Structures", *Proceedings of the 4th International Conference on Construction Materials: Performance, Innovations and Structural Implications*, Japan, pp. 1353-1358, August 2009.

39. M.I. Khan, S.H. Alsayed, T.H. Almusallam, **Y.A. Al-Salloum** and A. Almosa, "Slant Shear Bond and Modulus of Rupture of Repair Materials", *Proceedings of the 4th International Conference on Construction Materials: Performance, Innovations and Structural Implications*, Japan, pp. 1359-1366, August 2009.

40. M.I. Khan, S.H. Alsayed, T.H. Almusallam, **Y.A. Al-Salloum** and A. Almosa, "Bond Strength of Cementitious and Polymer Modified Repair Materials", *Concrete Solutions 2009, 3rd International Conference on Concrete Repair*, Italy, 29 June- 2 July 2009, pp. 147-151.

41. Alsayed, S.H., **Al-Salloum, Y.A**., Almusallam, T.H. and Siddiqui, N.A. (2009). "Performance of corner beam-column joints upgraded with CFRP composites under seismic loading." 9th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-9), July 13-15, 2009, Sydney, Australia.

42. Alsayed, S.H., **Al-Salloum, Y.A**., and Almusallam, T.H. (2009). "Out-of-plane cyclic response of masonry walls retrofitted with FRP composites." 9th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-9), July 13-15, 2009, Sydney, Australia.

43. Almusallam, T.H., Alsayed, S.H., **Al-Salloum, Y.A**., and Siddiqui, N.A. (2009). "Performance of exterior RC beam-column joints upgraded with CFRP composites under seismic loading." 9th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-9), July 13-15, 2009, Sydney, Australia.

44. Almusallam, T.H., **Al-Salloum, Y.A**., Alsayed, S.H. and Siddiqui, N.A. (2009). "Characteristics of retrofitting techniques of RC beam-column joints. 9th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-9), July 13-15, 2009, Sydney, Australia.

45. **Al-Salloum, Y.A**., Almusallam, T.H., Alsayed, S.H. and Siddiqui, N.A. (2009). "Behavior of shear deficient RC beam-column joint strengthened with CFRP composites compared to ideally designed joint. 9th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-9), July 13-15, 2009, Sydney, Australia.

46. **Al-Salloum, Y.A**. and Siddiqui, N.A. (2009). "Compressive strength prediction model for FRP-confined concrete." 9th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-9), July 13-15, 2009, Sydney, Australia.

47. **Al-Salloum, Y.A.**, "A General Model for Compressive Strength of FRP-Confined Concrete," *Proceedings of the 4th International Conference on FRP Composites in Civil Engineering (CICE2008)*, 22-24 July 2008, Zürich, Switzerland.

48. **Al-Salloum, Y.A**., Almusallam, T.H., Alsayed, S.H., and Siddiqui, N.A., "Behavior of full-scale shear deficient corner RC beam-column connections retrofitted with CFRP sheets," *Proceedings of the 13th European Conference on Composite Materials* (ECCM13) June 2 – 5, 2008, Stockholm, Sweden.

49. Alsayed, S.H., **Al-Salloum, Y.A.**, Almusallam, T.H. and Siddiqui, N.A., "Seismic strengthening of exterior beam-column joints using CFRP sheets," *Proceedings of the Structural Faults+Repair*-2008, June 10-12, 2008, Edinburgh, Scotland, UK.

50. **Al-Salloum, Y.A.**, Alsayed, S.H., Almusallam, T.H. and Siddiqui, N.A., "Seismic rehabilitation techniques for RC beam-column joints," *Proceedings of the Structural Faults+Repair*-2008, June 10-12, 2008, Edinburgh, Scotland, UK.

51. Alsayed, S.H., **Al-Salloum, Y.A.,** Almusallam, T.H., "Comparison Between Shear Deficient RC Beam-Column Joint Strengthened with CFRP Laminates and Ideally Designed Joint," *Proceedings of the* 5th International Engineering and Construction Conference (IECC'5), American Society of Civil Engineers, International Committee, Los Angeles Section, August 27-29, 2008.

52. **Al-Salloum, Y.A**., Almusallam, T.H., Alsayed, S.H., and Mosallam, A.S., "Traditional and Modern Techniques for Retrofitting of RC Beam-Column Joints," *Proceedings of the* 5th International Engineering and Construction Conference (IECC'5), American Society of Civil Engineers, International Committee, Los Angeles Section, August 27-29, 2008.

53. Almusallam, T.H., **Al-Salloum, Y.A**., Alsayed, S.H. and Mosallam, A.S., "Upgrading Infill Walls Against In-Plane Seismic Loads Using GFRP Laminates," *Proceedings of the* 5th International

Engineering and Construction Conference (IECC'5), American Society of Civil Engineers, International Committee, Los Angeles Section, August 27-29, 2008. (Distinguished Paper)

54. Alsayed, S.H., **Al-Salloum, Y.A**., Almusallam, T.H. and Siddiqui, N.A., "Analytical modeling of FRP-strengthened corner beam-column joints," *Proceedings of the 6th International Conference on Analytical Models and New Concepts in Concrete and Masonry Structures* (AMCM 2008), Paper No. 063, June 9-11, 2008, Lodz, Poland.

55. Almusallam, T.H., **Al-Salloum, Y.A**., Alsayed, S.H., and Siddiqui, N.A., "Analytical modeling of FRP-strengthened RC exterior beam-column joints," *Proceedings of the International Conference: Excellence in Concrete Construction - through Innovation*, September 9-10, 2008, Kingston University, London, pp. 397-402.

56. Alsayed, S.H., **Al-Salloum, Y.A**., Almusallam, T.H. and Siddiqui, N.A., "Seismic rehabilitation of RC beam-column corner joints using CFRP sheets," *Proceedings of the 5th International Conference on Advanced Composite Materials in Bridges and Structures* (ACMBS-V), Paper No. 015, September 22 – 24, 2008, Winnipeg, Manitoba, Canada.

57. **Al-Salloum, Y.A**., Almusallam, T.H., Alsayed, S.H., and Siddiqui, N.A., "Performance of FRP-repaired seismically deficient exterior RC beam-column joint versus ACI-based designed joint," *Proceedings of the 5th International Conference on Advanced Composite Materials in Bridges and Structures* (ACMBS-V), Paper No. 122, September 22 – 24, 2008, Winnipeg, Manitoba, Canada.

58. **Y.A. Al-Salloum**, S.H. Alsayed, T.H. Almusallam and N.A. Siddiqui, "Seismic behavior of FRP-upgraded exterior RC beam-column joints," *Proceedings of the* 2nd *International Conference on Concrete Repair, Rehabilitation and Retrofitting* (ICCRRR2008), November 24 – 26, 2008, Cape Town, South Africa, Vol. II, pp. 405-406.

59. T.H. Almusallam, S.H. Alsayed, **Y.A. Al-Salloum** and N.A. Siddiqui, "Seismic response of FRP-strengthened corner RC beam-column joints," *Proceedings of the* 2nd *International Conference on Concrete Repair, Rehabilitation and Retrofitting* (ICCRRR2008), November 24 – 26, 2008, Cape Town, South Africa, Vol. II, pp. 411-412.

60. **Y.A. Al-Salloum**, T.H. Almusallam, S.H. Alsayed, "Behaviour of FRP strengthened masonry walls under out-of-plane seismic loading," Proceedings of the Asia-Pacific Conference on FRP in Structures (APFIS 2007), 12-14 December 2007, Hong Kong.

61. **Y.A. Al-Salloum**, "Compressive Strength Models of FRP-Confined Concrete," Proceedings of the Asia-Pacific Conference on FRP in Structures (APFIS 2007), 12-14 December 2007, Hong Kong.

62. **Y.A. Al-Salloum**, S. H. Alsayed, T. H. Almusallam and N. A. Siddiqui, "Seismic Rehabilitation of Shear Deficient Exterior Beam-Column Joints Using FRP Composite Sheets," Proceedings of the 7th Saudi Engineering Conference (SEC7), 26-28 November 2007, Riyadh, Saudi Arabia.

63. S.H. Alsayed, **Y.A. Al-Salloum**, A.B. Shuraim & A.I. Al-Negheimish, "Evolution of the Saudi Building Code For Concrete Structures (SBC 304)," Proceedings of the 7th Saudi Engineering Conference (SEC7), 26-28 November 2007, Riyadh, Saudi Arabia.

64. **Y.A. Al-Salloum**, "Effect of High Temperatures on FRP-confined Concrete," Proceedings of the First International Workshop on Performance, Protection, Strengthenuing of Structures under Extreme Loading (PROTECT2007), 20-22 August 2007, Whistler, Canada.

65. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "Shear strengthening of Exterior Beam-Column Joints Using FRP sheets," Proceedings of the First International Workshop on Performance, Protection, Strengthening of Structures under Extreme Loading (PROTECT2007), 20-22 August 2007, Whistler, Canada.

66. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, N.H. Siddiqui, "Seismic response of infill walls strengthened with FRP sheets," Proceedings of The 8th International Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures (FRPRCS-8), 16-18 July 2007, Patras, Greece.

67. **Y.A. Al-Salloum**, "Future Development and Research Needs For FRP-Strengthening Systems," Proceedings of the 14th International Conference on Composite/ Nano Engineering (ICCE-14), July 2-8, 2006, Boulder, Colorado, USA.

68. S.H. Alsayed, **Y.A. Al-Salloum**, "Influence of Mechanical Properties and Other Characteristics on The Durability Study of FRP Materials," Proceedings of the 14th International Conference on Composite Engineering (ICCE-14), July 2-8, 2006, Boulder, Colorado, USA.

69. **Y.A. Al-Salloum**, "Flexural Behavior of RC Beams Strengthened with FRP Composite Sheets Subjected to Different Load Cases," *Proceedings of the Structural Faults & Repair-2006 Conference*, Structural Faults + Repair-2006: Edinburgh, UK, 13-15 June 2006.

70. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, "Rehabilitation of Infrastructure Using Externally Bonded FRP Composites," *Proceedings of the International Workshop on Civil Engineering Infrastructure Systems: High Performance Materials, Monitoring and Management, National Science Foundation and American University in Dubai, April 29 – May 01, 2006, Dubai, UAE.*

71. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "Seismic Response of FRP Repaired Interior Beam Column Joints," Proceedings of the International Symposium on Innovations & Sustainability of Structures in Civil Engineering-Including Seismic Engineering, 20-22, Nov. 2005, Nanjing, China.

72. **Y.A. Al-Salloum**, T.H. Almusallam, S.H. Alsayed, "Creep Behavior of Concrete Beams Reinforced with GFRP Bars Under Sustained Loading at Different Environmental Conditions," *Proceedings of the Fourth International Conference on Concrete Under Severe Conditions: Environment & Loading* (CONSEC'04), Seoul, Korea, June 27 - July 01, 2004.

73. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, "Behavior of Concrete Beams Reinforced with GFRP Bars Under Sustained Loads and Severe Conditions," *Proceedings of the Fourth International Conference on Concrete Under Severe Conditions: Environment & Loading* (CONSEC'04), Seoul, Korea, June 27 - July 01, 2004.

74. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, "Effect of Loading and Environmental Conditions on Behavior of Concrete Beams Reinforced with GFRP Bars," *Proceedings of the Fifth International Conference on Structural and Geotechnical Engineering: Innovations and Advances* (AICSGE-5), Alexandria, 20-22 December 2003, pp. RC 485-496.

75. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, A.M. Alhozaimy, "Durability of GFRP Rebars in Concrete Beams Under Sustained Loads at Severe Environments," *Proceedings of the Sixth International Symposium on FRP Reinforcement for Concrete Structures* (FRPRCS-6), Edited by Kiang Hwee Tan, Singapore, 8-10 July 2003, pp. 823-832.

76. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "Efficiency of CFRP Sheets in Upgrading and/or Strengthening Square Reinforced Concrete Columns," *Proceedings of the Structural Faults & Repair-2003 Conference*, Commonwealth Institute, London, 1-3 July 2003.

77. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "Upgrading and/or Strengthening of Rectangular Columns Using FRP Fabrics," *Proceedings of the International Symposium on Latest Achievement of Technology and Research on Retrofitting Concrete Structures*, Japan Concrete Institute, July 2003.

78. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, A.M. Alhozaimy, "Durability of GFRP Rebars in Stressed Concrete Beams at Different Environments," *Proceedings of The Sixth Saudi Engineering Conference:* Engineering and Engineering Education: Facing Current Challenges, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, Vol. 3, 21-23 October 2002, pp. 263-276.

79. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "FRP Composites As An Alternative Material To Strengthen, Upgrade And Repair Infrastructure," *Proceedings of The Sixth Saudi Engineering Conference:* Engineering and Engineering Education: Facing Current Challenges, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, Vol. 3, 21-23 October 2002, pp. 291-306.

80. S.H. Alsayed, A.M. Alhozaimy, **Y.A. Al-Salloum**, T.H. Almusallam, "Long-Term Performance of GFRP Rebars Under Severe Environments," *Proceedings of The Sixth Saudi Engineering Conference:* Engineering and Engineering Education: Facing Current Challenges, King Fahd

University of Petroleum and Minerals, Dhahran, Saudi Arabia, Vol. 3, 21-23 October 2002, pp. 277-290.

81. **Y.A. Al-Salloum**, S.H. Alsayed, T.H. Almusallam, "Utilization of FRP Composites to Rehabilitate Infrastructure", *Proceedings of The ACUN-4 Conference on Composite Systems – Macrocomposites, Microcomposites, Nanocomposite*, University of South Wales UNSW, Sydney, Australia, 21-25 July 2002.

82. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, "Flexural Behavior of RC Beams with Epoxy Bonded GFRP Sheets", *Proceedings of the 2nd World Engineering Congress, Sarawak, Malaysia*, 22-25 July 2002, pp. 77-81.

83. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, A.M. Alhozaimy, "Tensile Strength of GFRP Bars in Concrete Beams Under Sustained Loads at Different Environments," *Proceedings of The Second International Conference on Durability of Fiber Reinforced Polymer (FRP) Composites for Construction (CDCC 2002)*, Montreal, Quebec, Canada, 29-31 May 2002, pp. 523-534.

84. Alsayed S.H., Alhozaimy, A.M., **Al-Salloum, Y.A**., Almusallam, T.H., "Durability of The New Generation of GFRP Rebars Under Severe Environments," *Proceedings of The Second International Conference on Durability of Fiber Reinforced Polymer (FRP) Composites for Construction (CDCC 2002)*, Montreal, Quebec, Canada, 29-31 May 2002, pp. 651-663.

85. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, A. Mosallam, "Durability & Long-Term Behaivor of Reinforced Concrete Beams Strengthened With FRP Composites", *Proceedings of the International Conference on FRP Composites in Civil Engineering (CICE 2001)*, 12-15 December 2001, Hong Kong, Vol. II, pp. 1579-1588.

86. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "FRP Sheets for Repair and Strengthening of Structural Elements", *Proceedings of the Eighth International Conference on Composites Engineering (ICCE/8)*, Tenerife, Spain, 5-11 August 2001.

87. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "Glass FRP Bars As A Reinforcing Material For Concrete Beams," *Proceedings of Structural Faults + Repair-2001*, London, 4-6 July 2001.

88. **Y.A. Al-Salloum**, T.H. Almusallam, S.H. Alsayed, "Contribution of Externally-Bonded FRP Sheets to the Shear Capacity of RC Beams", *Proceedings of Tenth International Congress on Polymers in Concrete (ICPIC)*, 21-24 May 2001, Honolulu, Hawaii.

89. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, "Performance of RC Beams Externally Strengthened for Flexure with FRP Sheets", *Proceedings of Tenth International Congress on Polymers in Concrete (ICPIC)*, 21-24 May 2001, Honolulu, Hawaii.

90. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, A.S. Mosallam, "Behavior of Unreinforced Masonry Walls Strengthened with FRP Composite Materials", *Proceedings of the SAMPE 2001 Symposium*, Society for the Advancement of Material and Process Engineering, 6-10 May 2001, Long Beach, California, pp. 473-484.

91. **Y.A. Al-Salloum**, S.H. Alsayed, T.H. Almusallam, "Effect of Aggressive Environments on Strength of RC Beams Strengthened with Composite Laminates", *Proceedings of the SAMPE 2001 Symposium*, Society for the Advancement of Material and Process Engineering, 6-10 May 2001, Long Beach, California, pp. 485-496.

92. **Y.A. Al-Salloum**, T.H. Almusallam, S.H. Alsayed, "Effect of Hot-Dry Weather on Performance of RC Beams Externally Strengthened with GFRP Sheets," *Proceedings of the Third International Conference on Concrete Under Severe Conditions: Environment & Loading* (CONSEC'01), Vancouver, Canada, June 18-20, 2001, Vol. 2, pp. 1723-1729.

93. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, "Behavior of Concrete Cylinders Confined with GFRP Sheets in Severe Environmental Conditions," *Proceedings of the Third International Conference on Concrete Under Severe Conditions: Environment & Loading* (CONSEC'01), Vancouver, Canada, June 18-20, 2001, Vol. 2, pp. 1715-1722.

94. **Y.A. Al-Salloum**, S.H. Alsayed, T.H. Almusallam, "Replacement of Steel Bars by GFRP Bars in Concrete Beams: Design and Properties*", Proceedings of the Sixth International Conference on Deterioration & Repair of Reinforced Concrete in the Arabian Gulf*, Bahrain, 20-22 November 2000, pp. 127-141.

95. A.S. Mosallam, T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, "An Overview of State-of-the-art Techniques for Seismic Repair of Buildings and Bridges", *Proceedings of the First Saudi Symposium on Earthquake Engineering*, King Saud University, Riyadh, Saudi Arabia, 17-20 September 2000.

96. S.H. Alsayed, T.H. Almusallam, **Y.A. Al-Salloum** and M.Z. Ahmed, "Durability of Concrete Beams Strengthened with GFRP Sheets under Hot-Dry And Wet-Dry Environmental Conditions," *Proceedings of the Third International Conference on Advanced Composite Materials in Bridges and Structures (ACMIII)*, 18-20 August 2000, Ottawa, Canada, pp. 687-694.

97. **Y.A. Al-Salloum**, T.H. Almusallam, S.H. Alsayed, "Shear Performance of RC Beams Externally Strengthened with Glass FRP Sheets", *Proceedings of the Seventh International Conference on Composites Engineering (ICCE/7)*, Denver, Colorado, USA, 2-8 July 2000.

98. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, "Durability of Concrete Cylinders Wrapped with GFRP Sheets at Different Environmental Conditions", *Proceedings of the Seventh International Conference on Composites Engineering (ICCE/7)*, Denver, Colorado, USA, 2-8 July 2000.

99. **Y.A. Al-Salloum**, S.H. Alsayed, T.H. Almusallam, "Deflection Model for Concrete Beams Reinforced with GFRP Bars", *Proceedings of the International Composites Meeting: Composites in the Transportation Industry, ACUN-2*, University of South Wales, Sydney, Australia, 14-18 February 2000.

100. **Al-Salloum, Y.A**., Alsayed, S.H., and Almusallam, T.H. (2000). "Deflection Model for Concrete Beams Reinforced By GFRP Bar." *Composites in the Transportation Industry*, Edited by Bandyopadhyay, S., Gowripalan, N., Drayton, N., and Heslehurst, R., Proceedings of the ACUN-2, 14-18 February, Univ. of New South Wales, Sydney, Australia, pp. 78-83.

101. **Y.A. Al-Salloum**, S.H. Alsayed, T.H. Almusallam, "Enhancing the Integrity of Concrete Elements Externally Reinforced by Composite Materials", Proceedings *of the Sixth International Conference on Composites Engineering (ICCE/6)*, Orlando, Florida, USA, June 27 – July 3, 1999.

102. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, "Performance of Concrete Cylinders Confined with Glass FRP Sheets at Different Environments", Proceedings *of the Sixth International Conference on Composites Engineering (ICCE/6)*, Orlando, Florida, USA, June 27 – July 3, 1999.

103. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "Strengthening of Unreinforced Masonry Walls Using Advanced Composites", Proceedings *of the Sixth International Conference on Composites Engineering (ICCE/6)*, Orlando, Florida, USA, June 27 – July 3, 1999.

104. **Y.A. Al-Salloum**, "Minimum Weight Design of Built-Up Wide-Flange Steel Sections", *Proceedings of the Sixth International Conference on Computer Aided Optimum Design of Structures* (OPTI 99), University of Central Florida, Orlando, Florida, USA, 16-18 March 1999.

105. **Y.A. Al-Salloum**, "Use of Glass FRP Sheets as External Shear Reinforcement in RC Beams," *Proceedings of The Fifth Saudi Engineering Conference:* Engineering and its Role in the Preservation of National Assets, Umm Al-Qura University, Mekkah, Saudi Arabia, 1-4 March 1999.

106. S.H. Alsayed**, Y.A. Al-Salloum**, T.H. Almusallam, " Rehabilitation of RC Structures Using Externally Bonded FRP sheets," *Proceedings of The Fifth Saudi Engineering Conference:* Engineering and its Role in the Preservation of National Assets, Umm Al-Qura University, Mekkah, Saudi Arabia, 1-4 March 1999.

107. F.A. Al-Mashary, A.M. Arafah, **Y.A. Al-Salloum,** "Reliability of Linear Beam-to-Column Models for Designing Steel Frames", *Structural Stability Research Council, SSRC 1998 Annual Technical Session & Meeting*, Atlanta, Georgia,, USA, 21-23 September 1998.

108. **Y.A. Al-Salloum**, S.H. Alsayed, T.H. Almusallam, "Shear Capacity of RC Beams Externally Reinforced by Glass FRP Sheets", Proceedings *of Fifth International Conference on Composites Engineering (ICCE/5)*, Las Vegas, USA, 5-11 July 1998.

109. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, "Experimental Study of RC Beams Strengthened with GFRP Sheets", Proceedings *of Fifth International Conference on Composites Engineering (ICCE/5)*, Las Vegas, USA, 5-11 July 1998.

110. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam, "Shear Design for Beams Reinforced by GFRP Bars", Proceedings *of Third International Symposium on Non-Metallic Reinforcement for Concrete Structures*, Sapporo, Japan, 14-16 October 1997, Vol. 2, pp. 285-292.

111. T.H. Almusallam, **Y.A. Al-Salloum**, S.H. Alsayed, "Behavior of Concrete Beams Doubly Reinforced by GFRP Bars", Proceedings *of Third International Symposium on Non-Metallic Reinforcement for Concrete Structures*, Sapporo, Japan, 14-16 October 1997, Vol. 2, pp. 471-478.

112. T.H. Almusallam, **Y.A. Al-Salloum**, "Effect of Compression Reinforcement on the Flexural Behavior of Beams Reinforced by GFRP Bars", Proceedings *of Fourth International Conference on Composites Engineering Engineering (ICCE/4)*, Big Island, Hawaii, 6-12 July 1997.

113. **Y.A. Al-Salloum**, S.H. Alsayed, "A Model for Predicting Deflections in Concrete Beams Reinforced by FRP Bars", Proceedings *of Fourth International Conference on Composites Engineering (ICCE/4)*, Big Island, Hawaii, 6-12 July 1997.

114. **Y.A. Al-Salloum**, S.H. Alsayed, T.H. Almusallam and M.A. Amjad, "Evaluation of Service Load Deflection for Beams Reinforced by GFRP Bars," *Proceedings of the Second International Conference on the Use of Advanced Composite Materials in Bridges and Structures,* Montreal, Canada, 11-14 August 1996, pp. 165-172.

115. S.H. Alsayed, **Y.A. Al-Salloum**, T.H. Almusallam and M.A. Amjad, "Evaluation of Shear Stresses in Beams Reinforced by GFRP Bars," *Proceedings of the Second International Conference on the Use of Advanced Composite Materials in Bridges and Structures,* Montreal, Canada, 11-14 August 1996, pp. 173-179.

116. **Y.A. Al-Salloum**, S.H. Alsayed, T.H. Almusallam and M.A. Amjad, "Load-Deflection Relationship for Concrete Beams Reinforced by FRP Materials," *Proceedings of the Third Canadian Conference on Computing in Civil and Building Engineering*, Montreal, Canada, 26-28 August 1996.

117. T.H. Almusallam, S.H. Alsayed, **Y.A. Al-Salloum** and M.A. Amjad, "Enhancement of Energy Absorbing Capability in Beams Reinforced by GFRP Bars," *Proceedings of the 21st Conference on our World in Concrete & Structures*, Singapore, 26-28 August 1996, pp.55-59.

118. **Y.A. Al-Salloum,** S.H. Alsayed, T.H. Almusallam and M.A. Amjad, "Some Design Considerations for Concrete Beams Reinforced by FRP bars," *Proceedings of The First International Conference on Composites in Infrastructure (ICCI '96),* Tucson, Arizona, 15-17 January 1996, pp. 318-331.

119. **Y.A. Al-Salloum**, "Sensitivity Analysis of Optimum Design in Reinforced Concrete Beams", *Proceedings of the Fourth International Conference on Computer Aided Optimum Design of Structures*.(OPTI 95), Florida International University, Miami, Florida, USA, 19-21 September 1995, pp. 251-263.

120. S.H. Alsayed, T.H. Almusallam, **Y.A. Al-Salloum** and M.A. Amjad, "Flexural Behavior of Concrete Elements Reinforced by GFRP Bars," *Proceedings of the Second International Symposium on Non-Metallic (FRP) Reinforcement for Concrete Structures* (FRPRCS-2), Ghent, Belgium, 23-25 August 1995, pp. 219-226.

121. **Y.A. Al-Salloum** and S.H. Alsayed, "Sensitivity Study of Optimum Design of GFRP-Reinforced Concrete Beams", *Proceedings of The Fifth East Asia-Pacific Conference on Structural Engineering & Construction* (EASEC-5), Building for the 21st Century, Gold Coast, Queensland, Australia, 25-27 July 1995, pp. 711-716.

122. F.A. Al-Mashary, A. Arafa, G.H Siddiqi and **Y.A. Al-Salloum**, "Failure Investigation of Transmission Towers - A Case Study", *Proceedings of the Fourth International Conference on Structural Failure, Durability and Retrofitting*, pp. 17-23, Singapore, 14-15 July 1993.

123. **Y.A. Al-Salloum** and G.H Siddiqi, "Optimization in Rigid Frame Retrofitting", *Fourth International Conference on Structural Failure, Durability and Retrofitting*, Singapore, 14-15 July, 1993.

124. **Y.A. Al-Salloum**, "Minimum-Weight Frame Design Versus Fully-Stressed Design". Proceedings of the *Third Saudi Engineering Conference*, College of Engineering, King Saud University, Riyadh, Saudi Arabia, Nov. 24-27, 1991.

Google Scholar Record (Weblink)
Total number of papers = 277
2 May 2025

Yousef A. Al-Salloum

FOLLOW

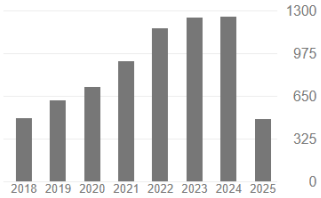
Professor of Civil Engineering, King Saud University
Verified email at ksu.edu.sa - Homepage

Rehabilitation of Structures FRP Composites Optimization of Structures Progressive Collapse Geopolymer Concrete

TITLE	CITED BY	YEAR
Flexural strengthening of RC beams using textile reinforced mortar–Experimental and numerical study HM Elsanadedy, TH Almusallam, SH Alsayed, YA Al-Salloum Composite Structures 97, 40-55	350	2013
Influence of edge sharpness on the strength of square concrete columns confined with FRP composite laminates YA Al-Salloum Composites Part B: Engineering 38 (5-6), 640-650	331	2007
Behavior of blended cement mortars containing nano-metakaolin at elevated temperatures MS Morsy, YA Al-Salloum, H Abbas, SH Alsayed Construction and Building materials 35, 900-905	268	2012
Performance of glass fiber reinforced plastic bars as a reinforcing material for concrete structures SH Alsayed, YA Al-Salloum, TH Almusallam Composites Part B: Engineering 31 (6-7), 555-567	266	2000
Effect of sodium silicate to sodium hydroxide ratios on strength and microstructure of fly ash geopolymer binder MS Morsy, SH Alsayed, Y Al-Salloum, T Almusallam Arabian journal for science and engineering 39, 4333-4339	258	2014

Cited by VIEW ALL

	All	Since 2020
Citations	9066	5779
h-index	54	43
i10-index	139	119



Co-authors


Tarek Almusallam
Professor of Civil Engineering, Ki...


Husain Abbas
Professor of Civil Engineering, Ki...


Hussein Elsanadedy
Professor, King Saud University


Nadeem A. Siddiqui
Professor of Civil Engineering, Ki...

ملخص مختصر للسيرة الذاتية

الإسم	**يوسف بن عبدالله بن عبدالرحمن السلوم**
المرتبة العلمية	**أستاذ دكتور**
العنوان	**قسم الهندسة المدنية – كلية الهندسة – جامعة الملك سعود**
	ص . ب. ٨٠٠ – الرياض ١١٤٢١
بريد الكتروني	ysalloum@ksu.edu.sa
	ysalloum@gmail.com

الدرجات العلمية

١٩٨٩ دكتوراه – هندسة مدنية / إنشاءات– كلية الهندسة
جامعة إلينوي – أربانا–شامبين – الولايات المتحدة الأمريكية – تقدير ممتاز

١٩٨٥ ماجستير – هندسة مدنية / إنشاءات –كلية الهندسة
جامعة إلينوي – أربانا–شامبين – الولايات المتحدة الأمريكية – تقدير ممتاز

١٩٨٢ بكالوريوس – هندسة مدنية –كلية الهندسة
جامعة الملك سعود – الرياض – مرتبة الشرف الأولى.

التخصص الدقيق: **هندسة مدنية / إنشاءات**

المنشآت الخرسانية والفولاذية / التصاميم المثلى للعناصر الانشائية / تقوية وإعادة تأهيل المنشآت باستخدام المواد البوليمرية المركبة FRP Composite Materials / تصميم ودراسة سلوك ومتانة العناصر الخرسانية المقواة خارجياً باستخدام المواد المركبة / تطبيق استخدامات المواد المركبة في الهندسة المدنية / مراقبة صحة المنشآت / الإنهيار التصاعدي للمنشآت نتيجة الزلازل أو التفجيرات.

بعض الأنشطة الفنية والأكاديمية (الحالية والسابقة) – التفاصيل متوفرة باللغة الإنجليزية

- مشرف على (كرسي الابحاث والدراسات في تقوية وإعادة تأهيل المنشآت)
- عضو اللجنة العليا لبرنامج كراسي البحث بالجامعة
- عضو اللجنة العلمية للكراسي العلمية الهندسية بوكالة عمادة البحث العلمي للكراسي البحثية
- عضو لجنة معادلة الشهادات الجامعية الصادرة من خارج المملكة بوزارة التعليم (لجنة العلوم الهندسية) منذ ١٤٤٠/٢/١هـ
- المشرف العام على الوحدات التخصصية لسلامة وحفظ المنشآت في كلية الهندسة.
- مستشار متعاون – تصميم شبكة نظام المراقبة الانشائية لبعض الجسور المهمة في الرياض
- رئيس لجنة الاستلام الابتدائي لبعض المشاريع الجديدة بالجامعة
- عضو في بيت الخبرة (المكتب الاستشاري الهندسي لسلامة وحفظ المنشآت) تحت مظلة معهد الملك عبدالله للبحوث والدراسات الاستشارية

- عضو في بيت الخبرة (المكتب التخصصي لدراسات واستشارات هندسة ومخاطر الزلازل) تحت مظلة معهد الملك عبدالله للبحوث والدراسات الاستشارية
- عضو الفريق البحثي في مشروع برنامج التوأمة مع جامعة ملبورن باستراليا (تطوير طرق متقدمة لتقييم المخاطر وأوجه الضعف المتوقعة لبعض المباني في مدينة الرياض عند تعرضها للموجات الناتجة عن الإنفجارات)
- رئيس الفريق الانشائي والجيوتقني لمراجعة تصاميم مشروع خادم الحرمين الشريفين الملك عبدالله بن عبدالعزيز لتوسعة الحرم المكي الشريف – فريق وزارة التعليم العالي
- عضو الفريق الإنشائي لمراجعة تصاميم مشروع توسعة المطاف في الحرم المكي الشريف (معهد الملك عبدالله – المكتب التخصصي لدراسات واستشارات هندسة ومخاطر الزلازل)
- عضو الفريق الإنشائي لمراجعة تصاميم مشروع التوسعة الكبرى للمسجد النبوي الشريف (معهد الملك عبدالله – المكتب التخصصي لدراسات واستشارات هندسة ومخاطر الزلازل)
- عضو الفريق الإنشائي لمراجعة تصاميم مشروع وقف خادم الحرمين الشريفين الملك عبد الله بن عبد العزيز لوالديه رحمهما الله بالمدينة المنورة (معهد الملك عبدالله – المكتب التخصصي لدراسات واستشارات هندسة ومخاطر الزلازل)
- عضو اللجنة العلمية في (كرسي أرامكو لهندسة الزلازل)
- عضو الفريق الإنشائي لمراجعة تصاميم الجامعات السعودية الجديدة.
- عضو الفريق الإنشائي لمراجعة المخططات الإنشائية لمباني جامعة الملك خالد بأبها.
- عضو فريق العمل لإصدار الكود السعودي للخرسانة.
- عضو لجنة اللوائح الانشائية لكود البناء السعودي.
- عضو لجنة الخطة الإستراتيجية بالجامعة
- عضو لجنة الخطة الإستراتيجية بالكلية
- مقرر لجنة التقرير السنوي بقسم الهندسة المدنية
- مقرر لجنة الدراسات العليا بقسم الهندسة المدنية
- المشرف الأكاديمي لطلاب الدراسات العليا– تخصص الانشاءات.
- مقرر لجنة ترقيات أعضاء هيئة التدريس بقسم الهندسة المدنية
- عضو لجنة شؤون أعضاء هيئة الندريس الجدد بالقسم
- عضو مجلس الكلية
- عضو لجنة احلال المواطنين بدلا من المتعاقدين بالجامعة (لبعض الوظائف)
- عضو لجنة الاشراف على الدورات والندوات بكلية الهندسة
- مراجعة بعض الكتب المترجمة
- عضو لجنة اللوائح لبرنامج كراسي البحث بالجامعة.
- مستشار غير متفرغ – الرئاسة العامة لشؤون المسجد الحرام والمسجد النبوي .
- مستشار غير متفرغ – وزارة الأشغال العامة والأسكان لمدة ثلاث سنوات.
- باحث رئيسي ومشارك في العديد من الأبحاث الممولة من الجامعة ، مدينة الملك عبدالعزيز للعلوم والتقنية ، أرامكو ، سابك .
- مشارك في عدد من الدراسات والإستشارات العلمية في المملكة .
- عضو اللجنة المنظمة للمؤتمر الهندسي السعودي السابع
- عضو اللجنة الدائمة للمسابقات الوظيفية والترقيات النظامية (جامعة الجوف)
- الاشراف على مقررات تخصص الانشاءات– الجامعية والدراسات العليا.

- ممثل قسم الهندسة المدنية بوحدة الخطط الدراسية بالكلية
- ممثل مجموعة الانشاءات بوحدة الخطط الدراسية بقسم الهندسة المدنية
- محكم للعديد من الأبحاث والأوراق العلمية لمجلات عالمية في التخصص.
- الاشراف على مشاريع التخرج لطلاب البكالوريوس وأبحاث طلاب الدراسات العليا.
- انشاء وتطوير بعض المعامل والمختبرات في كلية الهندسة وبعضها الأول في الشرق الأوسط (معمل أبحاث تأثير الصدمات على المنشآت)، (معمل التحليل الانشائي للمنشآت ضد التفجيرات) ، (إنشاء مختبر المعالجة الذاتية الذكية لتشققات الخرسانة) ، (تطوير أجهزة اختبارات الانهيار التدريجي للمنشآت) ...
- نشر أكثر من (٢٩٠) بحث محكم في مجلات ودوريات ومؤتمرات علمية محلية وعالمية.
- ٢٥ براءة اختراع ممنوحة من المكتب الأمريكي للبراءات ، و٧ براءات اختراع ممنوحة من المكتب السعودي للبراءات وبراءة واحدة (١) من مكتب براءات الاختراع لمجلس التعاون لدول الخليج العربية.
- الحصول على عدة جوائز على مستوى الكلية والجامعة وعلى مستوى المملكة وكذلك عالمياً.
- احراز ترتيب متقدم في قاعدة بيانات الباحثين العالميين الأكثر استشهاداً بابحاثهم ضمن أفضل «٢٪» من علماء العالم في قاعدة بيانات سكوبس (Scopus) في مختلف التخصصات العلمية والتي صدرت عن جامعة ستانفورد عام ٢٠٢٠-٢٠٢٤.

المقررات التي تم تدريسها

م	اسم المقرر	رقم المقرر	رمز المقرر
١	استاتيكا	٢٠١	هعم
٢	نظرية الانشاءات للعمارة	٢٦٩	همد
٣	معمل ميكانيكا المواد	٣٠٥	همد
٤	التحليل الانشائي (١)	٣٦٠	همد
٥	تصميم الخرسانة المسلحة (١)	٣٧٠	همد
٦	التحليل الانشائي (٢)	٤٦١	همد
٧	التحليل الانشائي المتقدم	٥٦٣	همد
٨	مواضيع خاصة في هندسة الانشاءات	٥٧٩	همد
٩	إصلاح واعادة تأهيل المنشآت الخرسانية	٦٧٥	همد
١٠	مواضيع مختارة في هندسة الانشاءات	٦٧٩	همد
١١	مشروع تخرج (١)	٤٩٦	همد
١٢	مشروع تخرج (٢)	٤٩٧	همد
١٣	إعداد خطة البحث (ماجستير)	٥٩٦	همد
١٤	إعداد خطة البحث (دكتوراه)	٦٩٤	همد
١٥	رسالة ماجستير	٦٠٠	همد
١٦	رسالة دكتوراه	٧٠٠	همد

المشاريع البحثية المنجزة والجوائز وبراءات الاختراع والابحاث المنشورة في المجلات العلمية والمؤتمرات

فضلا انظر النسخة الانجليزية