

CURRICULUM VITAE

(Updated on September 13, 2026)



Shamsad Ahmad

Distinguished Professor & Former Chairman/Head of Department

Civil and Environmental Engineering Department

King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia

(QS World University Rankings: 63 in 2027; QS Subject Ranking in Civil & Structural Engineering: 51-100 in 2026)

Email: shamsad@kfupm.edu.sa; Mobile #: +966 553505704 (may be used for calling, WhatsApp, and FaceTime)

Google Scholar: 8260 citations | *h*-index 47, *i*10-index 113 till date, <https://scholar.google.com/citations?user=DjoEntQAAAAJ&hl=en&oi=ao>

Scopus: 6209 citations | *h*-index 41, *i*10-index 105 till date, <https://www.scopus.com/authid/detail.uri?authorId=7401992928>

Date of Birth: June 15, 1968; **Nationality:** Indian, **Country of Residence:** Saudi Arabia

1. EXECUTIVE ACADEMIC PROFILE

PhD in Civil Engineering, Indian Institute of Technology (IIT) Delhi, India, a world-renowned institution with QS World University Rankings of 118 in 2027 and QS Subject Ranking in Civil & Structural Engineering of 50 in 2026. Currently, Distinguished Professor and formerly Chairman/Head of the Civil and Environmental Eng Department (2021-2025) at King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia, a globally ranked University. **Over 35 years of experience** in academic leadership, research, graduate education, and institutional development. Internationally recognized for contributions to sustainable construction materials, infrastructure durability, reinforcement corrosion, ultra-high-performance concrete, and smart infrastructure systems. Scholarly achievements include **224 publications, 8,252 citations (*h*-index 47), 5 U.S. patents**, and leadership of **46 funded research projects**. Supervised and examined **113 MS and PhD theses**. Received Distinguished University Professor Award, Excellence in Research Awards (three times), and Highly Cited/High Impact Paper Awards from KFUPM. Won Eng. Tarek Al-Kasabi Award-2022 in recognition of outstanding research in the area of Structural Eng. Received Highly Commended Paper Award from Anti-Corrosion Methods and Materials, an ISI Journal of Emerald Group Publishing Limited, UK. Judged the work of others by reviewing **213 research papers from 42 ISI Journals**, 16 conference papers, 20 research proposals, 6 final reports, 6 academic program proposals, and 4 accreditation reports. Serving as Associate Editor of 3 ISI-Indexed Journals. Received Editorial Contributions Award 2026 and Author Service Award 2026 from Springer Nature. Received Elsevier Certificate for Serving Sustainability Goals in 2023 and Recognized Reviewer Status Award in 2015 from Elsevier.

As a Chairman/Head of the Civil and Environmental Engineering Department, successfully led strategic planning, faculty recruitment, accreditation, curriculum modernization, and graduate program expansion, resulting in significant improvements in research productivity and departmental QS rankings. Established extensive international collaborations across academia and industry.

Recognized for building high-performing academic teams and advancing research, education, and innovation with global impact with following **key international recognitions**:

- **On the top of the global list of most highly cited single-authored review articles** in the area of reinforcement corrosion. Published in a Q1-Journal (IF:14.4) with **1536/1038 citations (GS/Scopus)** and **25.29 FWCI** till date.
- **Among the Top 2% Scientists Worldwide (Elsevier-Stanford, continuously since 2021)** in *Building & Construction*.
- **Worldwide Research Interest Score is above 99% of researchers** with work related to Structural Engineering and Civil Engineering (Research Gate)

2. EDUCATION & TRAINING

- **PhD in Civil Engineering**, Indian Institute of Technology (IIT) Delhi, India, 1996, **QS Ranking in 2027: 118**
- **MTech in Civil & Environmental Engineering**, VNIT Nagpur (formerly affiliated to Nagpur University), India, 1989
- **GATE** (Graduate Aptitude Test in Engineering) qualified for admission to MTech, conducted by IIT Kanpur in 1988
- **BE in Civil Engineering**, Rashtrasant Tukadoji Maharaj Nagpur University (formerly Nagpur University), India, 1988
- **Training Certificate**, Surface Engineering for Corrosion Resistance Applications, CECRI, Karaikudi, India, 2000
- **Training Certificate**, Lead Forward Executive Program, Harvard Business Impact in Collaboration with KFUPM, 2025

3. ACADEMIC APPOINTMENTS

- **Distinguished Professor**, Civil and Environmental Engineering Department, KFUPM (**April 2026-Present**)
- **Chairman/Head of Dept**, Civil and Environmental Engineering Department, KFUPM (Aug 15, 2021- Aug 9, 2025)
- **Professor**, Civil and Environmental Engineering Department, KFUPM (**Dec 23, 2014-Present**)
- **Associate Professor**, Civil and Environmental Engineering, KFUPM (Jul 1, 2008-Dec 22, 2014)
- **Assistant Professor**, Civil and Environmental Engineering, KFUPM (Mar 15, 2003-Jun 30, 2008)
- **Lecturer**, Civil and Environmental Engineering, KFUPM (Aug 15, 2001- Mar 14, 2003)
- **Reader (Associate Professor)**, Jamia Millia Islamia (JMI), New Delhi, India (Aug 3, 1998- Aug 14, 2001)
- **Lecturer**, Jamia Millia Islamia (JMI), New Delhi, India (Aug 23, 1995-Aug 2, 1998)
- **Lecturer-B (Doctoral Research Scholar)** at IIT Delhi, India, (Jul 29, 1991-Aug 22, 1995)
- **Lecturer**, Ramdeobaba College of Eng and Management (RCOEM), Nagpur, India, (Jan 4, 1990-May 23, 1990)

4. TEACHING & CURRICULUM LEADERSHIP

4.1 Teaching Philosophy

My teaching philosophy is grounded in research-led, outcome-based, and student-centered learning emphasizing the following:

- Integration of theory with real-world engineering challenges
- Sustainability, ethics, and professional responsibility
- Development of analytical, design, and problem-solving skills

4.2 Undergraduate & Graduate Courses Taught in The Following Areas

- Statics (Undergraduate Level)
- Structural Mechanics I (Strength of Materials) (Undergraduate Level)
- Statics & Strength of Materials (Undergraduate Level)
- Civil Engineering Materials (Undergraduate Level)
- Concrete Materials (Graduate Level)
- Evaluation and Testing of Concrete Structures (Graduate Level)
- Corrosion in Reinforced Concrete (Graduate Level)
- Optimization Techniques in Civil Engineering (Graduate Level)
- Supervised **70 Coop Training Reports & Senior Design Projects**

4.3 Academic Development

- Developed **new MS program** (Sustainable Concrete Structures)
- Introduced **new BS concentration** (Resilient Marine Structures)
- Led **ABET accreditation** and curriculum modernization
- Developed **two fully online courses** (e-courses)

5. RESEARCH AREAS

5.1 Sustainable Cement-Based Materials and Carbon Neutrality

- CO₂ sequestration in cementitious composites
- Utilization of industrial by-products and waste materials as SCMs and aggregates in concrete
- Utilization of low-carbon binders (LC3, alkali-activated systems) and nanomaterials in concrete

5.2 Smart Concrete Systems

- UHPC, specially for high impact, nuclear & HPM resistance, and repairing & strengthening
- Smart concretes: self-compacting, self-sensing, self-healing, radiation-shielding, energy-storage, etc.
- 3D-printable cementitious composites

5.3 Durability, Reinforcement Corrosion, and Service-Life Engineering

- Electrochemical monitoring and assessment and evaluation of reinforcement corrosion
- Service-life prediction models
- Repairing, strengthening, and preventive strategies for deteriorated reinforced concrete structures

6. RESEARCH IMPACT & METRICS

6.1 Publications (Total 224) Complete List at End

- 165 refereed journal papers (including 67 Q1, 58 Q2)
- 5 US patents
- 2 Book chapters (one each in Elsevier & Springer Nature)
- 52 papers in international conference proceedings

6.2 Citations

- Google Scholar: 8260 citations | *h*-index 47, *i*10-index 113; Scopus: 6209 (*h*-index 41, *i*10-index 105) till date

6.3 International Recognitions

- **On the top of the global list of most highly cited single-authored review articles** in the area of reinforcement corrosion. Published in a **Q1-Journal (IF: 14.4)** with **1523/1038 citations (GS/Scopus)** and **25.29 FWCI** till date.
- Top 2% Scientists Worldwide (Elsevier–Stanford, **continuously since 2021**)
- **Worldwide Research Interest Score is above 99% of researchers** with work related to Structural Engineering and Civil Engineering (**Research Gate**)

7. RESEARCH FUNDING & PROJECT LEADERSHIP

- **Total Funded Projects: 46**
- **Principal Investigator:** 15 major projects
- **Funding Agencies:**
 - KFUPM Internal Funding by Deanship of Research & Interdisciplinary Research Centers
 - King Abdulaziz City for Science and Technology (KACST), National Science & Technology Plan, Saudi Arabia
 - Saudi Aramco
 - Sabic, Saudi Arabia
 - Royal Commission, Saudi Arabia
 - Neom & Private Sectors, Saudi Arabia

8. POSTGRADUATE SUPERVISION & MENTORSHIP (TOTAL THESES: 113)

- **44 PhD Theses**, involved as **Advisor/Co-Advisor/Member/External Examiner**
External Examiner for PhD theses from KSA, Australia, Canada, India, Bahrain, Malaysia
- **69 MS Theses**, involved as **Advisor/Co-Advisor/Member**
- Strong record of mentoring students into **academic, research, and industry leadership roles**

9. LEADERSHIP & ADMINISTRATIVE SERVICES

9.1 Chairman/Head of Department, CEE Department, KFUPM (2021–2025): Key Achievements

- **Procedural Streamlining:** Implemented strategic improvements to streamline academic, research, and administrative procedures, thereby enhancing operational efficiency, reducing procedural bottlenecks, and fostering a more transparent, collaborative, interdisciplinary, and productive work environment for faculty, staff, and students.
- **Departmental Strategic Plan:** developed and successfully implemented a five-year strategic plan for teaching and research with tangible outcomes.
- **Departmental Budgetary Responsibility:** prepared and implemented the Annual Budget of the Department that included expenses on manpower (faculty & staff), equipment and materials, services, and external funded programs
- **New Academic Programs:** Introduced the following innovative programs:
 - BS in *Environmental Science and Engineering*
 - BS *Concentration in Climate Change Adaptation*
 - BS *Concentration in Resilient Marine Structures*
 - MS in *Environmental Science and Engineering*
 - MS in *Sustainable Concrete Structures*
- **Undergraduate Program Transformation:** Developed proposal to transform the BS (Civil Engineering) program.

- **Curriculum Enrichments and Revisions:** Led significant curriculum enrichment and revision efforts, including the introduction of several specialized, state-of-the-art graduate courses aligned with emerging research and industry trends. Restructured credit hours for graduate courses with laboratory components to better reflect workload and learning outcomes, and revised prerequisites for both undergraduate and graduate courses to ensure logical academic progression and improved student preparedness.
- **ABET Accreditation:** Secured ABET accreditation for the BS program during my Chairmanship.
- **Graduate Enrollment Growth:** Increased MS and PhD student enrollment, reaching **239 active graduate students** in AY 2025–2026, contributing significantly to our research productivity.
- **Faculty Recruitment:** Recruited **14** distinguished faculty members (**having nine different nationalities maintaining diversity**), including **2 Star Faculty** and **1 Chair Professor**; 10 have already joined, and 4 more are expected in the beginning of the AY 2025-2026.
- **Research Excellence:**
 - **Scopus Publication Rate:** The department achieved a **Scopus publication rate of 9.4 per faculty**, compared to the KFUPM average of 3.6, the **highest among all Academic Departments of KFUPM**, in the Academic Year 2024-2025.
 - **Patents:** Averaged **8.6 patents per year**, totaling **43 patents from 2019-2023**.
- **QS Subject Ranking:** Improved the department's **QS worldwide subject ranking from 98 (2021-2022) to 46 (2024-2025)**.

9.2 College Coordinator/Dean in Summer 2022 and Summer 2023, College of Design and Built Environment, KFUPM

Took care of all affairs of the College in Summer Semester during one out of two months.

9.3 University Service

- **Member, University Research Committee:** During one complete academic year contributed in all affairs of the University Research Committee, including study of the reviewers' comments on research proposals, book-writing proposals, final reports of the research projects, etc., for preparing recommendations and notifications. Additionally, chaired the Research Award Committee.
- **Member, University Faculty Affairs Committee three times continuously:** Actively participated in the University Faculty Affairs Committee as a Member during three consecutive academic years and evaluated the annual performance of more than 800 faculty members in terms of their teaching, research, committee works, and personal characteristics.

9.4 Department Key Services

- **Graduate Coordinator (2009 to 2025) and Graduate Committee Chairman (2013 to 2021):** Handled all issues concerning to the graduate students from admissions to thesis submissions. For example, assessment of applications for admission to MS and PhD programs (on an average of 300 cases every semester), review of degree plans, thesis proposals, independent research and directed research proposals and their final reports and presentations, different types of petitions filed by the students, and organizing the Orientation Seminars for newly joined Graduate Students, etc. Coordinated the Department and the Deanship of the Graduate Studies on a daily basis. Took care of the revision of all CEE Graduate Programs for incorporating the new developments in Civil and Environmental Engineering.
- **Chairman, Departmental Laboratories Committee:** Updated the laboratory facilities to cater the needs of the undergraduate students for their laboratory classes and for graduate students to conduct research works related to their thesis work. Involved in procurement and installation of several state-of the art laboratory major and minor equipment. Also, helped the Department in procuring, installation and training of the different software being in use by the students and faculty.
- **Convener, Structures and Materials Option Area:** Contributed in the preparation of the course offering schedules for undergraduate and graduate courses of the Department, continuously for more than 15 years. Participated in writing the Departmental Report for submissions to ABET and responded to all comments received from the ABET.

9.5 External Community Service

- Involved in the Academic, Administrative and Financial affairs for about 7 years as **Honorary Member of the Managing Committee (Governing Body) of International Indian School, Dammam (IISD), Saudi Arabia**, which had above 15,000 students and 700 teaching and administrative staff. Participated in the interviews conducted for the recruitments of hundreds of teachers and admin staff.

10. EDITORIAL & PROFESSIONAL SERVICE

10.1 Associate Editor

- *Journal of Sustainable Cement-Based Materials* (Q2)
- *Arabian Journal for Science and Engineering* (Q2)
- *Innovative Infrastructure Solutions* (Q2)

10.2 Judging the Work of Others

- Reviewer for **213 manuscripts** from 42 leading international journals
- Reviewer for **16 manuscripts** from 8 conferences
- Reviewer for **17 proposal and 5 final reports of the research projects** from 5 organizations
- Reviewer for **1 book, 3 proposals & 1 final reports** pertaining to online courses
- Reviewer for **6 academic program proposals** from 3 universities
- Reviewer for **4 academic program accreditation reports** from 3 universities

10.3 Conference organization

- **Member, Steering Committee of the International Conference** on New Challenges for Civil Engineers of Developing Countries in the 21st Century, 29 February, 1, 2 March, 1996, Civil Engineering Department, Jamia Millia Islamia, New Delhi, India.
- **Actively contributed in organizing the 11th Arab Structural Engineering Conference** organized by Civil Engineering Department, KFUPM, Dhahran, Saudi Arabia, 25-27 October, 2009. Worked as a member in one of the organizing committees and chaired a session.

11. PATENTS

US Patents: 5 (carbon-based coatings, anticorrosive composites, alkali-activated cement composition)

12. PROFESSIONAL MEMBERSHIP

An active member of the American Concrete Institute (ACI), with regular participation in ACI Conventions and ACI-supported international conferences worldwide. Frequently attends keynote lectures on emerging developments in concrete science and technology organized by the ACI Saudi Arabia Chapter. Has contributed to ACI's scholarly literature through four high-quality research papers published in the ACI Materials Journal and ACI Structural Journal.

13. AWARDS, PRIZES, CERTIFICATES, AND SCHOLARSHIPS

- **"Distinguished University Professor Award"** of King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia, 2025-2026.
- **"Excellence in Research Award 2020-21"** of King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia.
- **"Excellence in Research Award 2015-16"** of King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia.
- **"Excellence in Research Award 2010-11"** of King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia.
- **"Eng. Tarek Al-Kasabi Award-2022"** in recognition of outstanding research in the area of Structural Eng.
- Received **"Prize in Recognition of a Paper"** selected as one of the top 5 research papers in a Symposium organized by the Ministry of Municipality and Rural Affair (MOMRA), Riyadh, KSA, 2013.
- **"Highly Cited Paper Award-2024"** to the paper titled ***"Reinforcement corrosion in concrete structures, its monitoring and service life prediction-A review"***, published in ***Cement and Concrete Composites*** for receiving **750 citations**, King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia.
- **"Highly Cited Paper Award-2022"** to the paper titled ***"Reinforcement corrosion in concrete structures, its monitoring and service life prediction-A review"***, published in ***Cement and Concrete Composites*** for receiving **500 citations**, King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia.
- **"High Impact Paper Award 2022"** of King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia.

- **“Highly Commended Paper Award”** for my paper titled “An experimental study on correlation between concrete resistivity and reinforcement corrosion rate” published in *Anti-Corrosion Methods and Materials*, an ISI Journal of Emerald Group Publishing Limited, UK, 2015.
- **“Editorial Contributions Award 2026”**, received from Arabian Journal for Science and Engineering, Springer Nature.
- **“Author Service Award 2026”**, received from Arabian Journal for Science and Engineering, Springer Nature.
- **“Elsevier Certificate for Serving Sustainability Goals”** received from Elsevier, 2023.
- **“Recognized Reviewer Status Award”** by Elsevier, 2015.
- **“College of Engineering Sciences Teaching Award”**, King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia, 2005.
- **“Excellence in Service Award”** of College of Engineering Sciences, King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia, 2010.
- **“Excellence for Fifteen Years of Service Award”**, King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia, 2017.
- **“Doctoral Research Scholarship”**, awarded by Indian Institute of Technology (I.I.T.), New Delhi, for pursuing PhD Studies during 1991-1995.
- All India **“Graduate Aptitude Test in Engineering (GATE) Scholarship”**, awarded by the Ministry of Human Resources Development, Government of India, New Delhi, for pursuing Master Studies during 1988-1989.

14. INTERNATIONAL COLLABORATION & VISIBILITY

- Research collaborations across **Asia, Europe, North America, and Australia**
- A total of **29** invited lectures in short courses and keynote talks at international conferences
- Active contributor to **global sustainability and smart infrastructure initiatives**
- Attended a total of **69** national and international Technical Conferences, Workshops, and Symposiums (33 with presentation and 36 only participation) in several countries including USA, France, Germany, Australia, Netherlands, Hungary, Singapore, Malaysia, India, Saudi Arabia, UAE, Oman, Bahrain

16. SELECTED HIGH-IMPACT PUBLICATIONS (Representative)

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Cement and Concrete Composites
Volume 25, Issues 4–5, May–July 2003, Pages 459–471



Reinforcement corrosion in concrete structures, its monitoring and service life prediction—a review

Shamsad Ahmad 

Journal’s Impact Factor: 14.4-Q1
Scopus (till date):
Citations: 1038
FWCI: 25.29
Google Scholar (till date):
Citation: 1536
- ACI MATERIALS JOURNAL TECHNICAL PAPER
 Title no. 104-M05

Residual Strength of Corrosion-Damaged Reinforced Concrete Beams

by Abul K. Azad, Shamsad Ahmad, and Syed A. Azher

Journal’s Impact Factor: 1.5-Q3
Scopus (till date):
Citations: 255
FWCI: 4.13
Google Scholar (till date):
Citation: 348
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Construction and Building Materials
Volume 136, 1 April 2017, Pages 565–573



Effects of carbonation pressure and duration on strength evolution of concrete subjected to accelerated carbonation curing

Shamsad Ahmad , Rida Alwi Assagaf, Mohammed Maslehuddin, Omar S. Baghabra Al-Amoudi, Saheed Kolawole Adekunle, Syed Imran Ali

Journal’s Impact Factor: 8.9-Q1
Scopus (till date):
Citations: 196
FWCI: 1.66
Google Scholar (till date):
Citation: 241

4.



Composites Part B: Engineering
Volume 168, 1 July 2019, Pages 291-301



Mechanical properties of steel fiber-reinforced UHPC mixtures exposed to elevated temperature: Effects of exposure duration and fiber content

Shamsad Ahmad , Mehboob Rasul, Saheed Kolawole Adekunle, Salah U. Al-Dulaijan, Mohammed Maslehuddin, Syed Imran Ali

Journal's Impact Factor: 14.0-Q1

Scopus (till date):

Citations: 160

FWCI: 4.40

Google Scholar (till date):

Citation: 178

5.

International Journal of
Corrosion

Review Article

Chloride-Induced Corrosion of Steel in Concrete: An Overview on Chloride Diffusion and Prediction of Corrosion Initiation Time

Muhammad Umar Khan , Shamsad Ahmad , Husain Jubran Al-Gahtani



Journal's Impact Factor: 1.5-Q3

Scopus (till date):

Citations: 163

FWCI: 0.76

Google Scholar (till date):

Citation: 240

6.



Composite Structures
Volume 200, 15 September 2018, Pages 103-119



Seismic behavior of beam-column joints strengthened with ultra-high performance fiber reinforced concrete

Muhammad Irfan Khan ^a, Mohammed Ali Al-Osta ^a , Shamsad Ahmad ^a, Muhammad Kalimur Rahman ^b

Bahraq et al. Int J Concr Struct Mater (2019) 13:6
<https://doi.org/10.1186/s40069-018-0330-z>

International Journal of Concrete
Structures and Materials

ORIGINAL ARTICLE

Open Access



Experimental and Numerical Investigation of Shear Behavior of RC Beams Strengthened by Ultra-High Performance Concrete

Ashraf Awadh Bahraq¹, Mohammed Ali Al-Osta^{1*}, Shamsad Ahmad¹, Mesfer Mohammad Al-Zahrani¹, Salah Othman Al-Dulaijan¹ and Muhammad Kalimur Rahman²

Journal's Impact Factor: 7.8-Q1

Scopus (till date):

Citations: 146

FWCI: 3.36

Google Scholar (till date):

Citation: 161

7.

Volume 62, Issue 6
June 2010



RESEARCH ARTICLE | JUNE 01 2010

Flexural strength of corroded reinforced concrete beams

A.K. Azad; S. Ahmad; B.H.A. Al-Gohi

Author & Article Information

Magazine of Concrete Research (2010) 62 (6): 405-414.

<https://doi.org/10.1680/macr.2010.62.6.405> Article history

Journal's Impact Factor: 4.6-Q1

Scopus (till date):

Citations: 130

FWCI: 3.57

Google Scholar (till date):

Citation: 173

8.

Techniques for inducing accelerated corrosion of steel in concr

Arabian Journal for Science and Engineering • Article • 2009

Ahmad, Shamsad

Journal's Impact Factor: 2.3-Q3

Scopus (till date):

Citations: 120

FWCI: 1.12

Google Scholar (till date):

Citation: 155

9.

Journal's Impact Factor: 3.1-Q2

Scopus (till date):

Citations: 113

FWCI: 0.14

Google Scholar (till date):

Citation: 195

10.



Case Studies in Construction Materials
Volume 17, December 2022, e01255



Case study

Effect of silica fume inclusion on the strength, shrinkage and durability characteristics of natural pozzolan-based cement concrete

Shamsad Ahmad ^{a, b, 1}, , Omar S. Baghabra Al-Amoudi ^{a, b}, Saad M.S. Khan ^a, Mohammed Maslehuddin ^b

Journal's Impact Factor: **6.9-Q1**

Scopus (till date):

Citations: **127**

FWCI: **8.97**

Google Scholar (till date):

Citation: **141**

11.



Construction and Building Materials
Volume 99, 30 November 2015, Pages 672-681



Effect of key mixture parameters on flow and mechanical properties of reactive powder concrete

Shamsad Ahmad , Ahmed Zubair, Mohammed Maslehuddin

Journal's Impact Factor: **8.9-Q1**

Scopus (till date):

Citations: **105**

FWCI: **1.31**

Google Scholar (till date):

Citation: **135**

12.



Cement and Concrete Composites
Volume 31, Issue 9, October 2009, Pages 672-676



Correlation between compressive strength and certain durability indices of plain and blended cement concretes

Omar S. Baghabra Al-Amoudi ^a, Walid A. Al-Kutti ^a, Shamsad Ahmad ^a, , Mohammed Maslehuddin ^b

Journal's Impact Factor: **14.4-Q1**

Scopus (till date):

Citations: **98**

FWCI: **1.35**

Google Scholar (till date):

Citation: **147**

COMPLETE LIST OF RESEARCH PUBLICATIONS [TOTAL: 224]

Refereed Journals [165]

- [J165] Zehra Funda Akbulut; Soner Guler; Yassir M. Abbas; Ashraf Ashour; Demet Yavuz; **Shamsad Ahmad**, "Toward Low-Carbon and Sustainable Concrete: A Critical Review of Traditional and Emerging Supplementary Cementitious Materials", **Arabian Journal for Science and Engineering (Saudi Arabia)**, Accepted for publication.
- [J164] Henry Ssenyonjo; Muhammad Talha Shafique; Salman Siddique; Shaban Shahzad; Sana Amir; **Shamsad Ahmad**; Asad Hanif, "Ultra-High-Performance Concrete (UHPC) Containing Non-Metallic Fibers", **Arabian Journal for Science and Engineering (Saudi Arabia)**, Accepted for publication.
- [J163] Ismail Mudhaffar; Ashraf A. Bahraq; Mohammed Al-Osta; Ime Obot; Mohammed Ibrahim; Nestor Ankah; **Shamsad Ahmad**; Tawfik Saleh, "Mechanistic and Molecular Origins of Low-Dosage Sodium Metasilicate Protection Against Chloride-Induced Steel Corrosion in Simulated Concrete Pore Solution", **Results in Engineering (Netherlands)**, 32, 112499, 2026.
- [J162] Syed A. Rizwan; Muhammad N. A. Metla; Muhammad N. Amin; Mohamed Inayathulla; Amin Al-Fakih; **Shamsad Ahmad**, Asad Hanif, "Sustainable Production of Self-Compacting Concrete Through Valorization of Industrial By-Products: Mix Design Optimization, Performance Enhancement, and Cost Efficiency", **Results in Engineering (Netherlands)**, 32, 112230, 2026.
- [J161] **Shamsad Ahmad**, Khaled M. Kharmah, Rida Alwi Assaggaf, Mohammed A. Al-Osta, Ali H Algozeeb, Wala A. Algozeeb, Mohammed A. Al-Huri, and Md. Abdul Aziz, "Dry Ice-Driven CO₂ Sequestration in Cementitious Materials: Effects on Hydration, Microstructure, and Mechanical Performance", **European Journal of Environmental and Civil Engineering (France)**, 30(1), 2709089.
- [J160] Ashraf A. Bahraq, I.B. Obot, Mohammed A. Al-Osta, Mohammed Ibrahim, **Shamsad Ahmad**, Yohanes Chekol Malede, "Electrochemical, Surface, and Molecular-Level Investigation of 2-Mercaptopurine as a Green Corrosion Inhibitor for Steel in Chloride-Contaminated Concrete Pore Solution", **Case Studies in Construction Materials (UK)**, 24, e06185, 2026.
- [J159] Subhan Ahmad, Mazhar Syed, Mohammed A. Al-Osta, **Shamsad Ahmad**, "Production of green and sustainable ultra-high-performance concrete using treated recycled fine aggregates", **Journal of Sustainable Cement-Based Materials (China)**, 15(8), 2739–2753, 2026.
- [J158] Khaled M. Kharmah, **Shamsad Ahmad**, Bashir Ahmed Johan, Rida Assaggaf, Karnan Manickavasakam, Mohammed A. Al-Huri, Mohammed A. Al-Osta, Ali H. Algozeeb, Wala A. Algozeeb, and Md. Abdul Aziz, "Synergistic effects of Albizia Procera

leaf-derived activated carbon and curing regimes on CO₂ sequestration and hardened properties of cementitious systems", **Results in Engineering (Netherlands)**, 30, 110197, 2026.

- [J157] Hussein A. Dhabaan, Saheed Kolawole Adekunle, Mohammed A. Al-Osta, Muhammad Kalimur Rahman, Mohammed Fasil, Mesfer M. Al-Zahrani, and **Shamsad Ahmad**, "Experimental Investigation of the Shear Performance of Concrete Beams Reinforced with BFRP Bars", **Arabian Journal for Science and Engineering (Saudi Arabia)**, Published online on 09 March 2026.
- [J156] Karnan Manickavasakam, Mohammed A. Al-Huri, Khaled M. Kharm, Mohammed A. Al-Osta, **Shamsad Ahmad**, Muhammad Kalimur Rahman, Syed Shaheen Shah, and Md. Abdul Aziz, "Carbon Fiber–Garnet Sand Reinforced Multifunctional Electrically Conductive Concrete for Supercapacitive Energy Storage", **Chemistry-An Asian Journal (Germany)**, 21(4), e70640, 2026.
- [J155] Omer Ahmed; Saheed Kolawole Adekunle; **Shamsad Ahmad**; Mohammed Ali Alosta; Ahmed Abd El Fattah; Mesfer Mohammad Al-Zahrani, "Innovative Use of Carbonated Calcium-Rich Materials in Concrete: Blended Paste Development", **Journal of Materials in Civil Engineering (American Society of Civil Engineers, USA)**, 38(6), 04026154, 2026.
- [J154] Lubna K. Najjar, Mohamed Elsamadony, **Shamsad Ahmad**, Haitham Elnakar, "Integrating Uncertainty and Explainable Machine Learning in Performance-Adjusted Life Cycle Assessment of Polyamide Fiber-Reinforced Concrete", **Results in Engineering (Netherlands)**, 29, 109486, 2026.
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Book Chapters [02]

- [B2] A Chapter titled "Utilization of Limestone Powder and Metakaolin as Mineral Fillers in High-Performance Self-Compacting Concrete" of a Book titled "Calcined Clays for Sustainable Concrete", **published as a part of RILEM Bookseries by Springer Nature (indexed in Scopus).**
- [B1] A Chapter titled "Accelerated Carbon Dioxide Sequestration" of a Book titled "Carbon Dioxide Sequestration based Cementitious Construction Materials", **published by Elsevier (indexed in Scopus).**

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