

# Ali Keyvanfar, Ph. D

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## *Curriculum Vitae*

Analytical, visionary professional with close to 10 years of high-impact experience across higher education and international construction consulting environments. Proven record of teaching, research, and community services with a focus on sustainable construction, green materials, green architecture, and sustainable urban and infrastructure development. Strong business acumen coupled with new product/service development, spin-off advisory, business model, and traction planning, as well as fundraising. Articulate communicator continually focused on building and strengthening relationships across educational groups, community stakeholders, international partners, and peers. A collaborative leader and dedicated scientist skilled in international research leadership.

## SELECT ACHIEVEMENTS

- Recipient of **United States' alien with extraordinary ability green card (EB1-A)** 2017
- Secured numerous multi-disciplinary international research funds (more than \$1.9M).
- Created award-winning research products & services that have been patented and trademarked in the construction industry.
- Recipient of the Korea 2016's World Scientist Award and received an honorary visiting Professorship appointment from Korea Invention Academy.
- In October 2013, honored with the Best Ph.D. student graduation award.

## EDUCATION

### **Ph.D. in Civil Engineering, 2013**

*Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia and Johor Bahru*

- *Construction Management and Sustainable Design*

### **MSc. in Construction Management, 2009**

*Universiti Teknologi Malaysia, Kuala Lumpur and Johor Bahru, Malaysia*

- *Construction Quality Management*

### **BEng. in Civil Engineering, 2004**

*Islamic Azad University, Sanandaj Branch, Sanandaj, Kurdistan*

## AREAS OF EXPERTISE

- R&D Project Management (6 years)
- New Product/Service Development (4 years)
- Grant Writing (6 years);
- Team Building and Teamwork (6 years)
- Patent Drafting (4 years)
- Teaching and Training (10+ years)
- Research supervising and mentoring (5 years)
- Hiring (4 years)

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- Policy Development (4 years)
- Social Assessment (5 years)
- Product pitching (4 years)
- Technical Writing and Editing (4 years)

## POSITIONS/ACADEMIC EXPERIENCE

### ***Department of Construction Management, Kennesaw State University, Marietta, Georgia, USA***

#### ***Tenure track faculty member, 2019- Present***

To establish teaching, learning, research, and industry collaboration platform; to benchmark modern trends in sustainable construction education; while targeting entrepreneur graduates.

### ***Center for Energy Research, University of California, San Diego, California, USA***

#### ***Collaborating Professor / Visiting Scholar, 2018- 2019***

Established a variety of validated partnership development service packages for international fundraising, generating significant income (\$ 400k) per program.

(Project(s) Focused: Application of solar forecasting in smart, and adoptive civil and architecture engineering built environment, Energy efficient behavioral coaching system for building users)

### ***Accreditation Board of Engineering and Technology (ABET), Baltimore, Maryland, USA***

#### ***Program Evaluator, 2017-present***

Perform yearly assessment of undergraduate and postgraduate programs in civil engineering, construction, and architecture for ABET accreditation exercises.

### ***Universidad Tecnológica Equinoccial, Quito, Ecuador***

#### ***Visiting Professor, 2017- 2019***

Formed eight research groups (4 in construction and 4 in architectural and urban studies). Planning the unveiling of UCSD/MIT-UTE construction research center. Executing 60 hours of interactive professional workshops, to perform entrepreneurship research, which resulted in 20 publications and launching three different university service packages for local industries. (Project(s) Focused: Zero Energy Cooling Wall, Construction Project Death Cycle destruction Framework, Construction Project CSR app development, UAV readiness in Ecuador, Problem of group construction decision making in Ecuador)

### ***Korea Invention Academy, Seoul, South Korea***

#### ***Visiting Professor, 2016- 2017***

Honorary position awarded to selected scientists from different disciplines and on their scientific achievements to perform juries, reviews on products and services that are ready to face the industry.

### ***Universiti Teknologi Malaysia, Johor Bahru, and Kuala Lumpur, Malaysia***

#### ***Adjunct Associate Professor, 2017-2018***

Supervise students in support of their research and publications, financial aid issues, and on-going projects. Solicit national and international research funds by conducting workshops to promote the University and faculty and initiate international collaboration through MOU, MOA.

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## ***Middle-East Countries Research Grant Champion, 2016- 2017***

Led several workshops regarding how to land available grants to colleagues.

## ***MIT-UTM- Sustainable Cities Program, Johor Bahru & Kuala Lumpur, Malaysia Managing Editor, 2015- 2016***

Arrangements of peer reviewing process, editorial and reviewer coordination, language proofreading arrangement, and generation of similarity reports, arrangements of copyright agreements, decision making on several manuscripts, special issue arrangements, and coordination with authors and journal.

## ***Construction Research Centre, Faculty of Civil Engineering, UTM Kuala Lumpur & Johor Bahru, Malaysia Senior Lecturer (Assistant Professor-Tenured), 2014- 2017***

Forming 20+ national and international award-winning projects teams resulted to 7 patent filing, and product licensing by coordinating cross-functional teams from Biotech, Nanotech, Aviation, Energy, Social science, IT, Material, Behavioral Science, Engineering, and Sustainability background.

(Focused product(s): UAV optimization, Zero Energy Cooling Wall, Post-disaster settlement technology package, Sustainable Hydropower Dam assessment, Energy Efficient Behavior Assessment, Green Driver Licensing, Self-healing concrete, Malaysian Green Highway Index)

## ***Postdoctoral Researcher, 2013- 2014***

Obtained two research funds (\$150K). Published one special issue and three publications. Completed a patent filing. Received a university award, Gold Medal & Jury Award. Supervised and mentored three Research Assistants. Carried out TA duties in courses related to MSc. Construction Management.

## ***Visiting Researcher, 2012- 2013***

Secured two research funds (\$10K). Authored six publications. Managed three Research Assistants day-to-day activities. Carried out TA duties in courses related to MSc. Construction Management.

## ***International Doctoral Fellowship, 2009- 2012***

Acquired five research funds (\$250K). Honored with university awarded International Doctoral Fellowship, 2010, 2011, 2012 Wrote six publications. Successfully motivated and guided three master's degree students. Carried out TA duties in courses related to MSc. Construction Management.

## ***General Justice Administration, Sanandaj, Kurdistan***

### ***Facility Project Manager, 2005-2006***

Plan, supervise, and monitoring facilities under operation as well as ongoing construction projects. Coordination of contractors, consultant, authorities, and client demands. Quantity surveying of work progress. Reporting day to day activities. Defect monitoring and corrective action planning. Budget planning.

## ***Choobineh Industrial workshop, Sanandaj, Kurdistan***

### ***Carpentry Associate Engineer, 2005- 2007***

Sale manager, Designer, Estimator, and Quality control. Coordination with customers as well as in-house carpentry crew in design, construction, and operation and maintenance purposes. Experience in theater hall carpentry setting, home, and office carpentry settings.

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## TEACHING COURSES

### KENNESAW STATE UNIVERSITY, GEORGIA, USA

- RISK AND QUALITY MANAGEMENT (CURRENT)
  - DEFINITION OF RISK/QUALITY, RISK/QUALITY MANAGEMENT WORKFLOW, CLASSIC RISK / QUALITY MANAGEMENT, MODERN RISK/ QUALITY MANAGEMENT, RISK/ QUALITY MANAGEMENT BARRIERS AND DRIVERS, TOOLS IN RISK/ QUALITY MANAGEMENT, SUCCESS/FAILURE MEASURES IN RISK/ QUALITY MANAGEMENT, SKILLS NEEDED IN RISK/ QUALITY MANAGEMENT IMPLEMENTATIONS, PMI, AND ISO IN RISK/ QUALITY.
  - HIGHLIGHTS: LINCHPIN PLAYERS AND SOFTWARE SERVICE PROVIDERS.
- EMERGING TRENDS IN RESIDENTIAL CONSTRUCTION (CURRENT)
  - TRENDS AND MODERN RISK MANAGEMENT, THE DEFINITION OF TRENDS, IMPORTANCE (AND IMPLICATION) OF TRENDS IN RESIDENTIAL CONSTRUCTION (TRENDS AND MODERN RISK MANAGEMENT), DIMENSIONS OF TRENDS IN RESIDENTIAL CONSTRUCTION, DYNAMIC MODELING OF TRENDS (OR PREDICTIVE STUDY ON THE EFFECT OF TRENDS IN RESIDENTIAL CONSTRUCTION), AND TREND NAVIGATION SKILLS
  - HIGHLIGHTS: RESOURCES FOR TREND NAVIGATION.
- RESIDENTIAL & LIGHT CONSTRUCTION METHODS(CURRENT)
  - MATERIALS OF CONSTRUCTION (WOOD/STEEL/CONCRETE), CONSTRUCTION (ELEMENTS, METHODS, SYSTEMS AND EQUIPMENT'S), MODERN STRATEGIES IN CONSTRUCTION (SUSTAINABILITY), CONSTRUCTION SEQUENCE & SCHEDULING.
  - HIGHLIGHTS: INNOVATION IN RESIDENTIAL CONSTRUCTION MATERIAL AND METHOD, SCHEDULE COMPRESSION (FAST TRACKING/ CRASHING) DRIVEN CONSTRUCTION /MATERIALS/ METHODS/ELEMENTS/SYSTEMS, MULTIFUNCTIONAL MATERIALS/ METHOD /ELEMENTS/SYSTEMS, 3D PRINTING IN CONSTRUCTION.

### UC SAN DIEGO, CALIFORNIA, USA (AND UNIVERSIDAD TECNOLÓGICA EQUINOCCIAL, ECUADOR)

- ENTREPRENEURSHIP RESEARCH IN CONSTRUCTION (Learn from Museum: *Create or perish*) (3 YEARS)
  - STEPS TO TRANSFER AN IDEA TO AN AWARD-WINNING PRODUCT: DESIGNING A POSTGRADUATE RESEARCH
  - HIGHLIGHTS: HIGH IMPACT PUBLICATION, H-INDEX, DEPARTMENT RANKING, PATENT FILLING, RESEARCH COMMERCIALIZATION

### UNIVERSITI TEKNOLOGI MALAYSIA, MALAYSIA

- CONSTRUCTION PROJECT MANAGEMENT (5 YEARS)
  - HISTORY OF PM DRIVERS AND SKILLS, MONITORING AND CONTROL, AND PROBLEM-SOLVING.
  - HIGHLIGHTS: PMBOK, PMI CERTIFICATES, CONSTRUCTION PROJECT SELECTION (AHP, ANP, GGDM, DELPHI, AND BRAINSTORMING), PROJECT COMPLEXITY, INNOVATION MANAGEMENT, AND DYNAMIC MODELING.
- RESEARCH METHODOLOGY (2 YEARS)
  - DEVELOPMENT OF NEW PRODUCT & SERVICES IN CONSTRUCTION, RESEARCH DESIGN, CONSTRUCT DEVELOPMENT, DATA COLLECTION & ANALYSIS, AND REPORT WRITING.
  - HIGHLIGHTS: SCOPUS CITATION ANALYSIS
- CONSTRUCTION SCHEDULING (2 YEARS)
  - WBS, CPM AND MSP/P6,
  - HIGHLIGHTS: DYNAMIC SCHEDULING, N-D SCHEDULING, UAV
- STRUCTURE LAB (1 YEAR)
  - INFLUENCE LINE

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## PROFESSIONAL EXPERIENCE

LEADING THE INVESTIGATION OF "DELAY FACTORS OF UNDERGROUND METRO CONSTRUCTION IN QUITO", DUE FOR UTE (ECUADORIAN PRIVET INSTITUTE) AS THE CLIENT, USD (NOT LIMITED AND IN-KIND) (2017-2018)

LEADING THE INVESTIGATION ON "READINESS LEVEL OF ECUADOR CONSTRUCTION INDUSTRY FOR UAV APPLICATIONS", DUE FOR UTE AS THE CLIENT, USD (NOT LIMITED AND IN-KIND) (2017-2018)

LEADING THE INVESTIGATION ON "RISK, AND FAILURE OF GROUP DECISION MAKING IN THE ECUADORIAN CONSTRUCTION INDUSTRY", DUE FOR UTE AS THE CLIENT, USD (NOT LIMITED AND IN-KIND) (2017-2018)

LEADING DELAY ASSESSMENT CONSULTANCY FOR A TRANSIT DEVELOPMENT PROJECT (QESHM AIRPORT, TRANSIT NETWORK AND ACCESS HIGHWAYS) IN THE MIDDLE EAST (\$ 2 BILLION CONSTRUCTION PROJECT), DUE FOR WANZA GROUP [MALAYSIAN CLIENT]

LEADING ROI RISK ASSESSMENT CONSULTANCY FOR SUBWAY DEVELOPMENT CONTRACT (\$ 4 BILLION DESIGN / BUILD / OPERATE / TRANSFER OF TEHRAN MONORAIL AND KARAJ METRO), DUE FOR CLIENT BA GROUP (2015-16)

CARRIED OUT THE ROI ANALYSIS AND RISK ASSESSMENTS FOR DESIGN/BUILD/OPERATE/TRANSFER (\$ 7 BILLION PROJECT) OF MALAYSIA-INDONESIA CONNECTING BRIDGE (IMMERSED TUNNEL, OVER THE SEA BRIDGE, TRANSIT NETWORK OF JOHOR-KARIMUN-RIAU LINK DEVELOPMENT), DUE FOR CLIENT BA GROUP AS THE CLIENT (2015-17).

## PROFESSIONAL DEVELOPMENT

ABET PEV, ABET ENGINEERING COMMISSION, MAY 2018

ONLINE COURSE DEVELOPMENT, UTM LEAD UNDER OPENLEARNING.COM, FEB.2017

SUPERVISORY SELF-ASSESSMENT COURSE UTM, OCT.2016

SMART CITIES, ETH, ZÜRICH., SEP.2016

PTC PATENT DRAFTING AND FILING IFIA-INTERNATIONAL; FEDERATION OF INVENTORS' ASSOCIATION, MARCH 2016

SUPERVISORY ORIENTATION COURSE, UTM, SEPTEMBER 2015

PATENT DRAFTING, MYIPO (MALAYSIA INTELLECTUAL PROPERTY ORGANIZATION), AUGUST 2015

CONSTRUCTION INDUSTRY & ENVIRONMENTAL ISSUES: ALTERNATIVES & SOLUTIONS, HYDRO, QUEBEC, JAN. 2015

HEALTH & SOCIETY, HARVARD SCHOOL OF PUBLIC HEALTH, FEB. 2014

VALUATION OF INTELLECTUAL PROPERTY, UTM, MALAYSIA, OCT. 2013

CONSENSUS BUILDING FOR ENVIRONMENTAL SUSTAINABILITY, MIT, MAY 2012

JOURNAL PUBLICATION, LOUGHBOROUGH UNIVERSITY, NOV. 2009

SUSTAINABLE PRODUCTION: IMPROVING ECO-EFFICIENCY TECHNICAL UNIVERSITY OF DENMARK (DTU) & UTM, 2009

## PROFESSIONAL AFFILIATIONS

ACCREDITATION BOARD FOR ENGINEERING AND TECHNOLOGY (ABET)/PROGRAM EVALUATOR/USA/ 2017-CURRENT

CONSTRUCTION MANAGEMENT ASSOCIATION OF AMERICA (CMAA)/FACULTY MEMBER/USA/2017-18

AMERICAN SOCIETY OF CIVIL ENGINEERING-CONSTRUCTION INSTITUTE (ASCE-CI)/ASSOCIATE MEMBER/ USA/ 2014-18

ASSOCIATION OF RESEARCHERS IN CONSTRUCTION MANAGEMENT (ARCOM)/ASSOCIATE MEMBER/ UK / 2013-18

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## EDITORSHIP & PUBLICATIONS

### EDITORIAL SERVICES:

#### *i. Committee member, Chairman, Managing Editor, and/or Reviewer (Academic conferences):*

1. Associated Schools of Construction (ASC) 2014, 2015, 2016, and 2017 USA
2. ICONBUILD 2015 and 2017 Indonesia
3. Flood Disaster Conference 2016 & SEPKA-ISEED 2016, Malaysia
4. Mechanics, Civil Engineering and Building Material [MCEBM] 2017, China
5. Asian Advanced Material Congress 2017, Singapore
6. 2018 5th International Conference on Civil and Urban Engineering (ICCUE 2018), Spain

#### *ii. Professional jury:*

1. Korea Invention Academy (KiA)/Visiting professor as an International Jury of KiA innovation exhibitions/2016-17.
2. Massachusetts Institute of Technology (MIT) - Universiti Teknologi Malaysia (UTM) Sustainable cities program /Managing Editor/ 2015(Aug.)-2016(Aug.).

#### *iii. Reviewer:*

1. SUSTAINABLE CITIES AND SOCIETY (Q2, Index in ISI & Scopus, IF: 4.624).
2. JOURNAL OF ARCHITECTURAL ENGINEERING (Q1, Index in ISI & Scopus)
3. ENERGY POLICY (Q1, Index in ISI & Scopus, IF: 4.880)
4. CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY (Q2, Index in ISI & Scopus, IF: 2.277)
5. JOURNAL OF SOLAR ENERGY ENGINEERING-TRANSACTIONS OF THE ASME (Q2, Index in ISI & Scopus, IF:1.19)
6. JOURNAL OF CLEANER PRODUCTION (Q1, Index in ISI & Scopus, IF: 6.395)
7. ADVANCED MATERIALS (Q1, Index in ISI & Scopus, IF: 25.809)
8. MATERIAL AND DESIGN (Q1, Index in Thomson Reuters & Scopus, IF: 5.770)
9. ADVANCED MATERIALS INTERFACES (Q1, Index in ISI & Scopus, IF: 4.713)
10. DESALINATION AND WATER TREATMENT (Q2, Index in ISI & Scopus, IF: 1.234)

### REFEREED PUBLICATIONS (Updated by July 2019):

#### ***A. CONSTRUCTION MANAGEMENT (OUTPUT OF MY RESEARCH SUPERVISION IN FACULTY POSITION)***

1. 1ST & CORRESPONDING AUTHOR, INVESTIGATION ON FLYING VARIABLE OF UAV: APPLICABLE FOR CONSTRUCTION MANAGEMENT. WORKING PAPER
2. 1ST & CORRESPONDING AUTHOR, RETHINKING CONSTRUCTION CORPORATE SOCIAL RESPONSIBILITY PRACTICES: CONSTRUCTION NEIGHBORHOOD, IIOAB JOURNAL 2018:10(3) 9-13 (Q3, INDEX IN SCOPUS & ISI)
3. 1ST & CORRESPONDING AUTHOR, DEVELOPMENT OF LOOP DESTRUCTIVE NETWORK ANALYSIS, IIOAB JOURNAL 2018:10(3) 14-17 (Q3, INDEX IN SCOPUS & ISI)
4. CORRESPONDING AUTHOR, DEMATEL-ANP RISK ASSESSMENT IN OIL AND GAS CONSTRUCTION PROJECT, SUSTAINABILITY, 2017:9(8): 1420 (Q2, INDEXING SCOPUS & ISI, IF: 2.592).
5. 1ST & CORRESPONDING AUTHOR, FACTORS AFFECTING CONSTRUCTION-NEIGHBORHOOD SOCIAL SUSTAINABILITY, CONGRESO IBEROAMERICANO ENGINEERING CIVIL 2017, (EXPECTED FOR PUBLICATION IN JOURNAL OF SUSTAINABILITY (Q2, INDEX IN SCOPUS & ISI, IF: 2.592)
6. 1ST & CORRESPONDING AUTHOR, CONSTRUCTION-NEIGHBORHOOD SOCIAL CARRYING CAPACITY, CONGRESO IBEROAMERICANO ENGINEERING CIVIL 2017, (EXPECTED FOR PUBLICATION IN JOURNAL OF SUSTAINABILITY (Q2, INDEX IN SCOPUS & ISI, IF: 2.592)

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7. 1ST & CORRESPONDING AUTHOR, CONSTRUCTION GROUP DECISION MAKING: IMPORTANCE, PROBLEMS, AND SOLUTIONS, CONGRESO IBEROAMERICANO ENGINEERING CIVIL 2017, (EXPECTED FOR PUBLICATION IN JOURNAL OF SUSTAINABILITY (Q2, INDEX IN SCOPUS & ISI, IF: 2.592).
8. CORRESPONDING AUTHOR, LEAN SAFETY PLANNING IN DESIGN PHASE OF CONSTRUCTION: REVIEW AND PROPOSAL, ADVANCED SCIENCE LETTERS, 24 (6):4166-71 (Q4, SCOPUS INDEX).
9. 1ST & CORRESPONDING AUTHOR, MULTIFUNCTIONAL CONCRETE MATERIAL: CONSTRUCTION MANAGEMENT POINT OF VIEW, J. OF ENVIRONMENTAL TREATMENT TECHNIQUES 4(4): 153-5. (SCOPUS INDEX)
10. CORRESPONDING AUTHOR, ASSESSMENT OF COST ESCALATION FACTORS FOR BUILDING AND CIVIL ENGINEERING PROJECTS IN NIGERIAN CONSTRUCTION INDUSTRY: A MULTIPLE REGRESSION APPROACH, JURNAL TEKNOLOGI 74, NO. 4 (2015): 85-91 (Q2, INDEX IN ISI & SCOPUS).
11. 2ND AUTHOR, CAUSES OF VARIATION ORDER IN BUILDING AND CIVIL ENGINEERING PROJECTS IN NIGERIA. JURNAL TEKNOLOGI 77, NO. 16 (2015):91-97 (Q2, INDEX IN ISI & SCOPUS).
12. CO-AUTHOR, EXECUTIVE INFORMATION SITE MANAGEMENT SYSTEM FOR MONITORING PROJECT PERFORMANCE: SYSTEM REQUIREMENT STUDY, OIDA INT. J. OF SUSTAINABLE DEVELOPMENT, (2013),3 (3) PP:11-24 (INDEX).
13. CO-AUTHOR, EFFECT OF ENVIRONMENTAL FACTORS ON KNOWLEDGE SHARING IN CONSTRUCTION ORGANIZATION, JURNAL TEKNOLOGI 74, NO. 4 (2015):99-104 (Q2, INDEX IN ISI & SCOPUS).
14. CO-AUTHOR, RISK CLASSIFICATION AND BARRIER OF IMPLEMENTING RISK MANAGEMENT IN OIL AND GAS CONSTRUCTION COMPANIES, JURNAL TEKNOLOGI 77:16(2015):161-9 (Q2, INDEX IN ISI & SCOPUS).
15. CO-AUTHOR, GROUNDED GROUP DECISION MAKING (GGDM) MODEL, ADVANCED SCIENCE LETTERS, (2013)19(10):3077-3080 (Q4, SCOPUS INDEX).
16. CO-AUTHOR, CONSTRUCTION INFORMATION SYSTEMS FOR EXECUTIVE MANAGEMENT IN MONITORING WORK PROGRESS, ADVANCED SCIENCE LETTERS 15(2012):169-71 (Q4, SCOPUS INDEX).
17. CO-AUTHOR, INFLUENCE OF MATERIAL INSULATION ON CARBON NEUTRALITY POTENTIAL BASED ON AUTODESK GREEN BUILDING STUDIO ANALYSIS, PROCEEDING OF INTERNATIONAL CONFERENCE OF CHINESE RESEARCH INSTITUTE OF CONSTRUCTION MANAGEMENT 2010, PP: 160-162 (SCOPUS INDEX).

## ***B. GREEN BUILDING ARCHITECTURE (OUTPUT OF MY PH.D. AND LATER FACULTY RESEARCH SUPERVISION)***

18. 1ST & CORRESPONDING AUTHOR, USER SATISFACTION ADAPTIVE BEHAVIOR CRITERIA FOR ASSESSING ENERGY EFFICIENT BUILDING INDOOR COOLING AND LIGHTING QUALITIES, JOURNAL OF RENEWABLE & SUSTAINABLE ENERGY REVIEWS, 2014, 39:277-293 (Q1- INDEX IN SCOPUS & ISI, IF: 10.556).
19. CORRESPONDING AUTHOR, METHODS FOR ADAPTIVE BEHAVIORS SATISFACTION ASSESSMENT WITH ENERGY EFFICIENT BUILDING DESIGN, RENEWABLE & SUSTAINABLE ENERGY REVIEWS. 2016, 31;57:250-9 (Q1- SCOPUS & ISI, IF: 10.556).
20. CORRESPONDING AUTHOR, ENHANCING STAFF'S SATISFACTION WITH COMFORT TOWARD PRODUCTIVITY BY SUSTAINABLE OPEN PLAN OFFICE DESIGN, SUSTAINABLE CITIES AND SOCIETY 19 (2015): 151-164 (Q1- SCOPUS & ISI, IF: 4.624).
21. 1ST & CORRESPONDING AUTHOR, CORRELATION STUDY ON USER SATISFACTION FROM ADAPTIVE BEHAVIOR AND ENERGY CONSUMPTION IN OFFICE BUILDINGS, JURNAL TEKNOLOGI 70:7(2014):89-97 (Q2-INDEX IN SCOPUS & ISI).
22. 1ST & CORRESPONDING AUTHOR, ENVIRONMENT ADAPTIVE BEHAVIORS AS USER SATISFACTION ASSESSMENT CRITERIA FOR ENERGY EFFICIENT COOLING SYSTEM DESIGN, PROCEEDING OF INTERNATIONAL INITIATIVE FOR SUSTAINABLE BUILT ENVIRONMENT –NET ZERO BUILT ENVIRONMENT 2014 SYMPOSIUM UNIVERSITY FLORIDA.
23. CORRESPONDING AUTHOR, FUTURE BUILDING PERFORMANCE FACTORS TOWARDS ENERGY EFFICIENT TRAVEL PLAN IN REGIONAL DEVELOPMENT, PROCEEDING OF SUSTAINABLE BUILDING CONFERENCE 25–28 SEPTEMBER 2013 GRAZ, AUSTRIA (SB13 GRAZ), PP. 1506-1514 (NON- INDEX).
24. 2ND AUTHOR, INVESTIGATION OF FUTURE BUILDING PERFORMANCE FACTORS TOWARDS ENERGY EFFICIENT TRAVEL PLAN IN REGIONAL DEVELOPMENT. JURNAL TEKNOLOGI 70:7(2014):77-81 (Q2, INDEX IN ISI & SCOPUS).

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25. 2ND AUTHOR, OPEN PLAN OFFICE DESIGN FEATURES AFFECTING STAFF'S HEALTH AND WELL-BEING STATUS, JURNAL TEKNOLOGI 70, NO. 7 (2014):83-88 (Q2, INDEX IN ISI & SCOPUS).
26. 2NDAUTHOR, PRIORITIZING OCCUPANTS UNDERSTANDING LEVEL ON RESIDENTIAL BUILDING ENERGY CONSUMPTION. JURNAL TEKNOLOGI 77, NO. 16 (2015):43-47 (Q2, INDEX IN ISI & SCOPUS).
27. CO-AUTHOR, DESIGNING FOR LESS MAINTENANCE: LESSONS LEARNED FROM FLOOD DAMAGED BUILDINGS, ADVANCED SCIENCE LETTERS (2013), 19 (10): 2988-2991 (Q4, SCOPUS INDEX).

## ***C. GREEN BUILDING MATERIAL (OUTPUT OF MY POSTDOC AND LATER FACULTY RESEARCH MENTORSHIP)***

28. CORRESPONDING AUTHOR, TESTS, AND METHODS OF EVALUATING SELF-HEALING EFFICIENCY OF CONCRETE, CONSTRUCTION & BUILDING MATERIALS, 2016(112C):1123-32 (Q1, SCOPUS & ISI, IF: 4.046). MOST DOWNLOADED ARTICLE SINCE 1. JUNE.2016.
29. CORRESPONDING AUTHOR, WATERPROOF PERFORMANCE OF CONCRETE: A CRITICAL REVIEW ON IMPLEMENTED APPROACHES. CONSTRUCTION & BUILDING MATERIALS 101(2015):80-90 (Q1, INDEX IN SCOPUS & ISI, IF: 4.046).
30. 1ST & CORRESPONDING AUTHOR, APPLICATION OF GROUNDED GROUP DECISION MAKING (GGDM) METHOD IN BIOPROCESS DESIGN, JOURNAL OF DESALINATION AND WATER TREATMENT, 52, NO. 19-21 (2014): 3594-3599 (Q2, SCOPUS&ISI, IF:1.234).
31. CORRESPONDING AUTHOR, IN SITU SYNTHESIS OF HYDROXYAPATITE-GRAFTED TITANIUM NANOTUBE. THE JOURNAL OF EXPERIMENTAL NANOSCIENCE, 11, NO. 10 (2016): 816-822 (Q2, SCOPUS & ISI, IF: 2.482).
32. 2ND AUTHOR, APPLICATION OF PROTEUS MIRABILIS AND PROTEUS VULGARIS MIXTURE TO DESIGN SELF-HEALING CONCRETE, JOURNAL OF DESALINATION AND WATER TREATMENT, 52, NO. 19-21 (2014): 3623-30 (Q2, SCOPUS&ISI, IF:1.234).
33. CO-AUTHOR, OPTIMUM CONCENTRATION OF BACILLUS MEGATERIUM FOR STRENGTHENING STRUCTURAL CONCRETE. CONSTRUCTION & BUILDING MATERIALS 118(2016):180-193 (Q1, SCOPUS & ISI, IF: 4.046).
34. CO-AUTHOR, DURABILITY IMPROVEMENT ASSESSMENT IN DIFFERENT HIGH STRENGTH BACTERIAL STRUCTURAL CONCRETE GRADES AGAINST DIVERSE TYPES OF ACIDS. SADHANA 39:6 (2014)(Q2, SCOPUS & ISI, IF:0.769).
35. CO-AUTHOR, EVALUATING HYDROTHERMAL SYNTHESIS OF FLUORAPATITE NANORODS: PH AND TEMPERATURE. THE JOURNAL OF EXPERIMENTAL NANOSCIENCE, (2016): 1-11 (Q2, SCOPUS & ISI, IF:2.482).
36. 2ND AUTHOR, A REVIEW OF SELF-HEALING CONCRETE RESEARCH DEVELOPMENT. JOURNAL OF ENVIRONMENTAL TREATMENT TECHNIQUES 2, NO. 1 (2014): 1-11 (SCOPUS INDEX).
37. CORRESPONDING AUTHOR, EFFECT OF RECYCLED HOMOGENEOUS CERAMIC WASTE AGGREGATES ON WATER ABSORPTION OF MORTAR, JOURNAL OF ENVIRONMENTAL TREATMENT TECHNIQUES, 5, NO. 1 (2017): 34-37(SCOPUS INDEX).
38. CORRESPONDING AUTHOR, EFFECT OF HOMOGENOUS CERAMIC WASTE ON DRYING SHRINKAGE OF MORTAR, JOURNAL OF ENVIRONMENTAL TREATMENT TECHNIQUES 4, NO. 4 (2016): 149-152(SCOPUS INDEX).
39. CO-AUTHOR, EFFICIENCY OF MICROALGAE CHLAMYDOMONAS ON THE REMOVAL OF POLLUTANTS FROM PALM OIL MILL EFFLUENT (POME). ENERGY PROCEDIA. 2015, 31;75:2400-8 (SCOPUS INDEX).
40. CO-AUTHOR, NANO SILICON AS SMART WATERPROOFING ADMIXTURE IN CEMENT BASED MATERIAL, 2ND INTERNATIONAL CONFERENCE OF SMART MATERIAL AND STRUCTURE, PENNSYLVANIA USA 2016.
41. CO-AUTHOR, BIOCONCRETE STRENGTH, DURABILITY, PERMEABILITY, RECYCLING, AND EFFECTS ON HUMAN HEALTH: A REVIEW. THIRD INT. CONF. ADVANCES IN CIVIL, STRUCTURAL AND MECHANICAL ENGINEERING- CSM 2015, USA.
42. CO-AUTHOR, IDENTIFICATION OF GAPS TO CONDUCT A STUDY ON BIOLOGICAL SELF-HEALING CONCRETE, JOURNAL OF ENVIRONMENTAL TREATMENT TECHNIQUES 1, NO. 2 (2013): 62-68 (SCOPUS INDEX).

## ***D. SUSTAINABLE URBAN AND INFRASTRUCTURE DEVELOPMENT (OUTPUT OF MY FACULTY RESEARCH MENTORSHIP):***

43. 1ST AUTHOR, DRIVING BEHAVIOUR AND SUSTAINABLE MOBILITY—POLICIES AND APPROACHES REVISITED, SUSTAINABILITY, 2018:10(4):1152 (Q2, INDEX IN SCOPUS & ISI, IF: 2.592).



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44. 1ST AUTHOR, A PATH WALKABILITY ASSESSMENT INDEX MODEL FOR EVALUATING AND FACILITATING RETAIL WALKING USING DECISION-TREE-MAKING (DTM) METHOD, SUSTAINABILITY 2018:10(4):1035 (Q2, INDEX IN SCOPUS & ISI, IF: 2.592).
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