

Challenge Journal of

CONCRETE RESEARCH LETTERS

Vol.8 No.4 (2017)

CFRP acidic environment acoustic
emission compressive strength
concrete corrosion cracking
ductility durability ferrocement
fly ash mechanical properties palm oil
fuel ash reinforced concrete self-
compacting concrete silica fume steel
mesh strength strengthening
superplasticizer water absorption



TULPAR
ACADEMIC PUBLISHING

ISSN 2548-0928



Challenge Journal

OF CONCRETE RESEARCH LETTERS

EDITOR IN CHIEF

Prof. Dr. Mohamed Abdelkader ISMAIL

Curtin University Sarawak, Malaysia

EDITORIAL ADVISORY BOARD

Prof. Dr. Abdullah SAAND

Quaid-e-Awam University of Engineering, Pakistan

Prof. Dr. Alexander-Dimitrios George TSONOS

Aristotle University of Thessaloniki, Greece

Prof. Dr. Ashraf Ragab MOHAMED

Alexandria University, Egypt

Prof. Dr. Ayman NASSIF

University of Portsmouth, United Kingdom

Prof. Dr. Gamal Elsayed ABDELAZIZ

Benha University, Egypt

Prof. Dr. Hamidah Mohd SAMAN

Universiti Teknologi Mara, Malaysia

Prof. Dr. Han Seung LEE

Hanyang University, Republic of Korea

Prof. Dr. Zubair AHMED

Mehran University, Pakistan

Dr. Aamer Rafique BHUTTA

Universiti Teknologi Malaysia, Malaysia

Dr. Khairunisa MUTHUSAMY

Universiti Malaysia Pahang, Malaysia

Dr. Mahmoud SAYED AHMED

Ryerson University, Canada

DR. Jitendra Kumar SINGH

Hanyang University, Republic of Korea

E-mail: cjcr@challengejournal.com

Web page: cjcr.challengejournal.com

TULPAR Academic Publishing
www.tulparpublishing.com





Challenge Journal

OF CONCRETE RESEARCH LETTERS

CONTENTS

Effect of aggregates with high gypsum content on the performance of concrete <i>Yousry B. I. Shaheen, Fatma M. Eid, Eng Eman Mahmoud</i>	96
Seismic fragility curves for mid-rise reinforced concrete framed structures with different lateral loads resisting systems <i>Ghada Mousa Hekal, Kamel Kandeel, Mostafa Morsi El-Shami, Ahmed Dawod</i>	109
Comparative study of strengthening strategies for reinforced concrete frame with soft ground story <i>Md. Shafiqul Islam, Aojoy Shuvo</i>	122

