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Paper ID:	Title of Paper:	Prefix:	First Name:	Last Name:	University / Institution:	Country:
007	RESEARCH ON WORKABILITY CONTROL INDEXES OF CA MORTAR BASED ON THE RHEOLOGICAL PROPERTIES		Xiaobin	Zhu	State Key Laboratory of High Performance Civil Engineering Materials, Jiangsu Research Institute of Building Science	Nanjing
013	HOW DO ACCELERATED CARBONATION TESTS AFFECT THE NATURAL MORPHOLOGY AND TRANSPORT CHARACTERISTICS OF CONCRETE?	Dr.	Sudip	Talukdar	British Columbia Institute of Technology	Canada
019	FLEXURAL STRENGTH AND TOUGHNESS STRENGTHENING USING SFRC	Assistant Prof.	Manote	Sappakittipakorn	King Mongkut's University of Technology North Bangkok	Thailand
026	GEOPOLYMER MORTARS CONTAINING RECYCLED AGGREGATES FROM THE MINING INDUSTRY	Ms.	Fernanda	Ramos	Federal Centre for Technological Education of Minas Gerais	Brazil
027	FLEXURAL BEHAVIOR OF HYBRID-SYNTHETIC FIBER REINFORCED CELLULAR LIGHT WEIGHT MASONRY BLOCKS	Dr.	Suriya	Prakash	IIT Hyderabad	India
028	CONCRETE DETERIORATION DUE TO CRYSTAL GROWTH OF SODIUM SULFATE	Dr.	Natsuki	Yoshida	General Building Research Corporation of Japan	Japan
038	STRUCTURAL PERFORMANCE OF SIMPLIFIED SLAB SYSTEM WITH DECK PLATE AND SFRC	Prof.	Geonho	Hong	Hoseo University	Korea
039	THE EFFECT OF SULFATE CONCENTRATION AND WATER TO BINDER RATIO ON THE MICROSTRUCTURAL CHANGE OF MORTARS UNDER SULFATE ATTACK		Cheng	Yu	Jiangsu Research Institute of Building Science	China
040	INFLUENCE OF CRACKS IN CHLORIDE PENETRATION AND CORROSION OF REINFORCED STRAIN HARDENING MATERIALS UNDER SUSTAINED LOADING CONDITION	Prof.	Gideon P.A.G.	van Zijl	Stellenbosch University	South Africa
041	BEHAVIOUR OF FRP-CONFINED CRUMB RUBBER CONCRETE COLUMNS UNDER SEISMIC LOADING	Mr.	Osama	Youssf	University of South Australia	Australia
042	ON-SITE MONITORING AND ANALYSIS FOR A LARGE AREA OF SHRINKAGE-COMPENSATING CONCRETE	Miss	Ting	Yao	State Key Laboratory of High Performance Civil Engineering Materials	China
043	EFFECTS OF SUPERABSORBENT POLYMERS ON AUTOGENOUS SHRINKAGE OF HIGH PERFORMANCE CONCRETE	Mr.	Sichen	Li	State Key Laboratory of High Performance Civil Engineering Materials	China
044	THE CONCRETE CARBONATION AND CHLORIDE SALT CORROSION WITH DIFFERENT MOLECULAR STRUCTURE SILANE SURFACE TREATMENT		Wang	Hongsong	Jiangsu Sobute New Materials Co., Ltd.	China
045	BEHAVIOUR OF PRECAST PRESTRESSED HOLLOW CORE SLABS WITH AND WITHOUT FRP STRENGTHENING	Dr.	Suriya	Prakash	IIT Hyderabad	India
046	INFLUENCE OF MONOMOLECULAR FILM EVAPORATION RETARDANT ON THE EARLY AGE PLASTIC CRACKING AND LONG TERM PERFORMANCE OF CONCRETE		Wei	Wang	State Key Laboratory of High Performance Civil Engineering Materials, Jiangsu Sobute New Materials Co., Ltd	China
047	CHLORIDE PERMEABILITY OF CONCRETE SUBMERSED IN SOLUTIONS CONTAINING SULFATE IONS AND/OR MAGNESIUM IONS	Dr.	Yoshitaka	Kato	Tokyo University of Science	Japan
049	UTILIZATION OF COMPACTION TO RECYCLE WASTE CONCRETE WITH INDUSTRIAL WASTE MATERIALS		Biruktawit Taye	Tarekegne	The University of Tokyo	Japan
050	RESEARCH OF MICROSTRUCTURE EVOLUTION OF CONCRETE EXPOSED TO COMPOSITE SOLUTION ATTACK UNDER DRYING-WETTING CYCLES AND LONG-TERM IMMERSION	Dr.	Fei	Chen	Southeast University	China
051	ALTERATION OF CEMENT HYDRATION PRODUCTS DUE TO APPLICATION OF ELECTROCHEMICAL CHLORIDE EXTRACTION		Hai Yen	Nguyen Thi	Hokkaido University	Japan
052	IMPACT RESISTANCE OF CONCRETE USING TYPE 2 SYNTHETIC FIBRES	Dr.	Alan	Richardson	Northumbria University	United Kingdom
053	THE MECHANICAL PROPERTIES AND DURABILITY OF HIGH STRENGTH CONCRETE WITH FLY ASH INCORPORATING UAE LOCAL MATERIALS	Dr.	Reem	Sabouni	ALHOSN University	United Arab Emirates
054	FUZZY LOGIC APPROACH FOR SUSTAINABLE SELF CONSOLIDATING CONCRETE (SCC) IN HOT WEATHER	Dr.	Samer	Al Martini	Abu Dhabi University	United Arab Emirates
055	MULTI-SCALE AND MULTI-PHASE MODELLING OF CHLORIDE DIFFUSION IN CONCRETE	Prof.	Long-yuan	Li	University of Plymouth	UK
058	TIME DEPENDENT BOUNDARY CONDITIONS FOR MODELLING THE INGRESS OF AIRBORNE CHLORIDE COMBINED WITH RAINFALL EFFECTS		Rungrawee	Wattanapornprom	The University of Tokyo	Japan
059	COMPUTER SIMULATION BASED DESIGN OF FIBRE REINFORCED CONCRETE STRUCTURES	Mr.	Radomir	Pukl	Cervenka Consulting	Czech Republic
061	RESISTANCE TO FREEZING AND THAWING OF CONCRETE WITH GRANULATE BLAST FURNACE SLAG SAND	Assoc. Prof.	Takashi	Fujii	Okayama University	Japan
064	HEALTH MONITORING OF STRUCTURES DESIGNED WITH PRE-STRESSING STEEL	Dr.	Shahid	Islam	DYWIDAG-Systems International	USA
065	EFFECT OF HIGH TEMPERATURE STEAM CURING ON THE PROPERTIES OF INTERGROUND AND BLENDED LIMESTONE FILLER USED IN CONCRETE	Prof.	Daman	Panesar	The University of Toronto	Canada
069	EFFECTS OF CHLORIDE ON THE PITTING CORROSION BEHAVIOR OF LOW-ALLOYED STEEL IN SIMULATED CONCRETE PORE SOLUTIONS		Jinjie	Shi	Southeast University	China
070	STRUCTURAL HEALTH MONITORING OF REINFORCED CONCRETE BEAMS BY USING VIBRATION GENERATOR	Mr.	Takumi	Morohashi	Tohoku University	japan
071	DAMAGE IDENTIFICATION FOR RC BEAMS REINFORCED BY STEEL PLATE OR CARBON FIBER SHEET	Assoc. Prof.	Hideki	Naito	Tohoku University	Japan
072	TENSION STIFFENING OF GFRP REINFORCED CONCRETE	Miss	Zahra	Kharal	University of Toronto	Canada
074	USING WASTE WOOD ASH (WWA) AS CEMENT REPLACEMENT: OPTIMUM TEMPERATURE AND PERCENT REPLACEMENT	Dr.	Ahmad	Rteil	UBC	Canada
075	EVALUATION OF THE USE OF COLLOIDAL SILICA AS A SILICA FUME REPLACEMENT IN WET-MIX SHOTCRETE	Mr.	Gregard	Ovstaas	GOAL Engineering Ltd.	Canada
077	EXPERIMENTAL STUDY ON THE EFFECTS OF ELECTRICAL CONTINUITY ON THE CORROSION PROGRESS OF REBAR		Nozomu	Someya	Tokyo university of Science	Japan
078	THE EFFECT OF CNT DOSAGE IN THE STRENGTH PROPERTIES OF CNT CEMENT COMPOSITES	Prof.	Su-Tae	Kang	Daegu University	South Korea
082	STUDY OF FIBRE - MAGNESIUM PHOSPHAETE CMENET COMPOSITES FOR STRENGTHENING MATEIRALS	Prof.	Zhu	Ding	Shenzhen University	China
083	IMPACT OF SYNTHETIC FIBERS ON THE PROPERTIES OF SELF-COMPACTING LIGHTWEIGHT CONCRETE	Prof.	Sherif	Yehia	American University of Sharjah	United Arab Emirates
086	BIO-CEMENT AND ITS POTENTIAL USES	Prof.	Chunxiang	Qian	Southeast University	China
087	DEVELOPMENT OF VISUAL INSPECTION SYSTEM FOR CONCRETE SUPERSTRUCTURE OF OPEN-TYPE WHARF BY REMOTELY OPERATED VEHICLES	Dr.	Ema	KATO	Port and Airport Research Institute	Japan
088	REINFORCEMENT CORROSION MONITORING AND DURABILITY INDICES OF SELF-CURING CONCRETE	Prof.	AMR	EL-DIEB	United Arab Emirates University	United Arab Emirates
089	ACCUMULATED SIBIE METHOD FOR IMAGING DEFECTS IN CONCRETE STRUCTURES	Prof.	Sanghun	Lee	Tohoku Gakuin University	Japan
090	SEISMIC PERFORMANCE OF STEEL FIBER REINFORCED CONCRETE (SFRC) COUPLING BEAMS WITH DIAGONAL REINFORCEMENTS	Prof.	Hyun-Do	yun	Chungnam National University	Korea
092	MULTI-SCALE CHARACTERISATION OF THE SHEAR-DOMINANT FRACTURE IN A STEEL FIBRE-REINFORCED CEMENT-BASED COMPOSITE	Mr.	Stephan	Zeranka	University of Stellenbosch	South Africa
095	EFFECT OF STEEL, SYNTHETIC, AND HYBRID FIBER REINFORCEMENT ON PROPERTIES OF SELF-COMPACTED CONCRETE	Mr.	Sharef	Farrag	American University of Sharjah	United Arab Emirates
096	RESIDUAL STRENGTH OF GLASS FIBER-REINFORCED POLYMER BARS IN SEAWATER-CONTAMINATED CONCRETE	Dr.	Tamer	El-Maaddawy	United Arab Emirates University	United Arab Emirates

098	INFLUENCE OF SILICA FUME ON CHLORIDE DIFFUSION AND CORROSION RESISTANCE OF CONCRETE " A REVIEW	Dr.	Ali Akbar	Ramezaniapour	Amirkabir University of Technology	Iran
101	REPEATED RECYCLED COARSE AGGREGATE CONCRETE: DURABILITY ASPECTS		Sumaiya Binte	Huda	The University of British Columbia	Canada
102	STUDY ON THE DETERIORATION OF PULTRUDED GFRP IN OUTDOOR ENVIRONMENT AND THE PROTECTIVE EFFECT OF SURFACE COATING	Dr.	Itaru	Nishizaki	Public Works Research Institute	Japan
103	EFFECT OF DISTRIBUTION MODELING IN CORROSION OF TENSILE REINFORCING BARS ON ESTIMATION OF LOADING CAPACITY OF CORRODED RC BEAM	Dr.	Takashi	Yamamoto	Kyoto University	Japan
104	CRYOGENIC FREEZE-THAW DAMAGE ON CEMENT-BASED MATERIALS		Zilong	Deng	Tongji University	China
105	BOND PROPERTIES OF FIELD-EXPOSED BEAMS WITH MEDIUM-QUALITY RECYCLED COARSE AGGREGATE AND MELT-SOLIDIFIED SLAG AGGREGATE	Prof.	Noritaka	Morohashi	Nihon University	Japan
108	DEVELOPMENT OF CONCRETE BY USING SEA WATER AND CONCRETE DEBRIS FROM EARTHQUAKE DISASTER	Mr.	Keisaburo	Katano	Obayashi Corporation	Japan
109	GUIDELINES AND TEST METHODS FOR THE REPAIR OF WATER-LEAKAGE CRACKS IN CONCRETE STRUCTURES		oh	snag keun	Seoul National University of Science and Technology	south korea
112	THE COMPRESSIVE STRENGTH, ELASTIC MODULUS AND DAMPING PROPERTIES OF STEAM-CURED CONCRETE INCORPORATED WITH LIGHTWEIGHT AGGREGATE		Jinge	Yang	Central South University	China
113	SITE INVESTIGATION AND EXPOSURE TEST ON LONG-TERM PERFORMANCE AND CORROSION PREVENTION CAPACITY OF CONCRETE USING SEA WATER AND UNWASHED SEA SAND		Takashi	Habuchi	Toa Corporation	Japan
114	ESTABLISHMENT OF A CORROSION EXPANSION MODEL OF STEEL IN CONCRETE	Ms.	Mika	SUZUKI	Taisei Corporation	Japan
116	INFLUENCE OF SEVERE ENVIRONMENT ON THE PERFORMANCE OF CONCRETE CONTAINING CONSTRUCTION AND INDUSTRIAL WASTE	Dr.	Atef	Badr	MTC	Sultanate of Oman
117	DETERMINATION OF DEGREE OF CARBONATION AND INGRESS OF CHLORIDE IONS IN HYDRATED CEMENT PASTE WITH BSE AND EDXA TECHNIQUES	Dr.	Yaocheng	Wang	Shenzhen University	P.R. China
118	FRESH PROPERTIES, COMPRESSIVE STRENGTH AND CHLORIDE ION PENETRATION RESISTANCE OF SELF-CONSOLIDATING CONCRETE CONTAINING NATURAL POZZOLANLAN	Prof.	Ali Akbar	Ramezaniapour	Amirkabir University of Technology	Iran
120	PERFORMANCES OF GYPSUM - CEMENT FOAMS		Gabriel	Samson	INSA	France
121	EFFECT OF BINDER COMPOSITION ON PHYSICAL PROPERTIES OF HEMP CONCRETE		Florence	Collet	University Rennes1	France
122	CHLORIDE ION INGRESS THROUGH UNCOATED SIDES IN SURFACE COATED MORTAR BEAMS	Dr.	Hiroki	Sakuraba	Public Works Research Institute	Japan
130	ULTRA FINE FLY ASH AS SILICA FUME REPLACEMENT IN HIGH PERFORMANCE CONCRETES	Dr.	Tony	Song	Boral Construction Materials	Australia
132	ESTIMATION METHOD FOR DURABILITY PERFORMANCES IN COVER CONCRETE BY IN-SITU AIR PERMEABILITY TESTS	Dr.	Keiyu	Kawaai	Ehime University	Japan
134	A STUDY ON MECHANICAL AND THERMAL PROPERTIES OF SELF-COMPACTING CONCRETE USING SEA WATER AND SEA SAND	Dr.	Hiroshi	Takenaka	Toyo Construction Co., Ltd.	Japan
135	LIME ACTIVATION OF SILICEOUS FLY ASH AT VERY HIGH LEVELS OF CEMENT REPLACEMENT	G.V.P	BHAGATH	SINGH	Indian Institute of Technology Hyderabad	INDIA
138	OPTIMIZATION OF NEW MODIFIED SULFUR CONCRETE FOR SEWER APPLICATIONS	Prof.	Khaled	El-Sawy	United Arab Emirates University	United Arab Emirates
141	CARBON DIOXIDE SEQUESTRATION IN FOAM CONCRETE	Prof.	Zhuguo	Li	Yamaguchi University	Japan
142	SUPER SULFATED CEMENT: FORMULATION AND USES		Annabelle	Phelipot	University Rennes1	France
144	BOND CHARACTERISTICS AND FAILURE MECHANISM OF CARBON FABRIC IN MORTAR AND EPOXY ADHESIVES IN DOUBLE SHEAR TESTS		Olufunmilayo	Awani	UAE University	United Arab Emirates
148	UNEXPECTED CONCRETE PERFORMANCE BENEFITS OF SUSTAINABLE BINDER COMBINATIONS USING PORTLAND-LIMESTONE CEMENT		Tim	Cost	Holcim (US) Inc.	United States
150	TENSION-ONLY SMA BRACING FOR SEISMIC RETROFITTING	Mr.	Leonardo	Cort�s-Puentes	University of Ottawa	Canada
153	CHARACTERIZATION OF THE HYDRATION PRODUCTS OF AN ANTIFREEZE TREATED CEMENT PASTE		Ouafi	Saha	University of Saskatchewan	Canada
156	PERFORMANCE OF ULTRA-HIGH PERFORMANCE CONCRETE AS A JOINT-FILL MATERIAL FOR PRECAST BRIDGE DECK PANELS SUBJECTED TO NEGATIVE BENDING	Mr.	David	Amorim	University of Manitoba	Canada
157	EVALUATION OF X-RAY SHIELDING PERFORMANCE FOR CONCRETE BOX CULVERT BY USING X-RAY DIGITAL IMAGE AND DOUBLE LAYER VALUE ANALYSIS METHOD	Prof.	Yoshinori	Kitsutaka	Tokyo Metropolitan University	Japan
160	OVERALL DAMAGE ASSESSMENT OF CONCRETE DISTRESSED DUE TO ALKALI-SILICA REACTION AND FREEZING AND THAWING CYCLES USING MICROSCOPIC AND MECHANICAL TOOLS	Dr.	Leandro	Sanchez	McGill University	Canada
163	IMPACT ELASTIC-WAVE METHOD FOR DETECTION OF GROUTING CONDITION OF POST TENSIONED TENDON DUCTS IN PC MEMBERS USING ACOUSTIC TRANSFER FUNCTION	Mr.	Shinichi	Hattori	Osaka University	Japan
165	BASIC STUDY ON ELECTRICAL RESISTANCE OF MORTAR SPECIMENS OBTAINED BY TWO-ELECTRODE METHOD	Mr.	Daiki	Fukugami	Graduate School of Engineering, Osaka University	Japan
166	NUMERICAL ANALYSIS OF BEAM-COLUMN JOINTS SUBJECTED TO BLAST LOADS ACCORDING TO REINFORCEMENT DETAILS		Kwang Mo	Lim	The University of Suwon	Republic of Korea
167	DEVELOPMENT OF NEW WET CURING METHODS FOR VERTICAL CONCRETE PLANE		Ryoichi	Tanaka	Toa Corporation	Japan
170	DEVELOPMENT OF POROUS CONCRETE FOR VEGETATION GROWTH		Sonoko	Ichimaru	University of California Davis	USA
171	RHEOLOGICAL AND TRIBOLOGICAL PROPERTIES OF HIGH STRENGTH CONCRETE WITH DIFFERENT TYPES OF MINERAL ADMIXTURE	Mr.	Jae-Hong	Jeong	Samsung C&T Corporation	Republic of Korea
172	A STUDY ON APPLICATION OF THE UNDERWATER CONCRETE AND FRESH PROPERTIES OF SELF-COMPACTING CONCRETE USING SEA WATER AND SEA SAND	Mr.	Takahiro	Sakai	Penta-Ocean Construction Co., Ltd., Institute of Technology	Japan
173	NON-DESTRUCTIVE EVALUATION FOR SOUNDNESS OF ADHESIVE PORTION AROUND POST-INSTALLED ANCHOR BOLTS IN CONCRETE BASED ON ANALYSIS-AIDED ELASTIC WAVE METHODS		Shinya	Uchida	Ritsumeikan University	JAPAN
174	MECHANICAL BEHAVIOUR OF CEMENT MORTAR WITH VARYING REPLACEMENT LEVEL OF CRUMB RUBBER	Mr.	Md Salamah	Meherier	The University of British Columbia, Okanagan	Canada
178	STUDY ON EFFECT OF PORE STRUCTURE ON PENETRATION PROPERTY OF CHLORIDE ION IN CONCRETE	Mr.	Kentaro	Koike	Kagoshima University	Japan
179	ANALYTICAL INVESTIGATION OF NONDESTRUCTIVE EVALUATION METHOD FOR IMR	Mr.	Takuya	Ishida	Osaka University	Japan
182	EFFECT OF INTERNAL CRACKS ON MASS TRANSFER RESISTANCE IN REINFORCED CONCRETE	Dr.	Shinichiro	Okazaki	Port and Airport Research Institute	Japan
185	STUDY ON DIFFERENCES OF SHRINKAGE CRACKING PROPERTIES BETWEEN MORTAR AND CONCRETE	Mr.	Tsuyoshi	Mishima	Oita University	Japan
186	STUDY ON THE CARBONATION RESISTANCE OF CONCRETE USING CARBON-FREE FLY ASH	Dr.	Toshihiro	Otani	Oita University	Japan
190	APPLICABILITY OF HEAVY WEIGHT CONCRETE USING BARITE AGGREGATE TO STRUCTURAL RC BEAMS	Dr.	Yuichiro	Kawabata	Port and Airport Research Institute	Japan
193	EFFECT OF RECYCLED CONCRETE AGGREGATES ON THE BOND BEHAVIOR OF STEEL REINFORCED CONCRETE	Mrs.	Sadaf	Moallemi Pour	University of British Columbia	Canada

201	PROPOSED CONSTRUCTION SUPPORT SYSTEM FOR ESTIMATION SETTING TIME AND CURING USING THE ELECTRICAL RESISTANCE ON CONSTRUCTION SITE	Dr.	Takeshi	Iyoda	Shibaura Institute of Technology	Japan
203	THE EFFECT OF CHEMICAL COMPOSITION OF COATING AGENTS ON MOISTURE TRANSPORT IN MORTAR	Prof.	Chengnig	Wu	Aichi Institute of Technology	Japan
206	Experimental study on shear capacity of joint of veneer lumber structure	Ms.	Mayuko	Iwatsuki	Tokyo University of Science	Japan
207	DEVELOPMENT OF ANTI-WASHOUT UNDERWATER HEAVY WEIGHT CONCRETE USING HIGH DENSITY SLAG AGGREGATES	Dr.	Eiji	Sueoka	Toyo Construction Co.,Ltd	Japan
208	IMPROVEMENT IN QUALITY OF LOW-QUALITY RECYCLED COARSE AGGREGATE WITH SURFACE MODIFICATION	Dr.	Choi	Heesup	Kitami Institute of Technology	Japan
210	BEHAVIOR OF CESIUM AND STRONTIUM IN CEMENT HARDENED MATRIX WITH BLAST FURNACE SLAG		Katsufumi	Hashimoto	Hokkaido University	Japan
212	CHARACTERISTICS OF CONCRETE USING NITRITE ACCELERATOR AND VARIOUS CHEMICAL ADMIXTURES IN LOW-TEMPERATURE ENVIRONMENTS	Dr.	Masumi	Inoue	Kitami Institute of Technology	Japan
213	STUDY ON THE FRACTURE TOUGHNESS OF CONCRETE BY ML PAINT		Seong Kyum	KIM	Kumoh National Institute of Technology	KOREA
215	THE FUNDAMENTAL PROPERTIES AND RESISTANCE TO ABRASION IN SEMI-SELF COMPACTING CONCRETE FOR A SEAWALL		Hiroaki	Tsuruta	Kansai University	JAPAN
216	EVALUATION ON RESIDUAL INTERNAL FORCE OF ULTRA-HIGH-STRENGTH CONCRETE COLUMN SUBJECTED TO ELEVATED TEMPERATURE	Prof.	Gyuyong	Kim	Chungnam National University	South Korea
217	RAPID PRECONDITIONING METHOD FOR SURFACE ABSORPTION TEST OF HARDENED CONCRETE	Dr.	Hirohisa	Koga	Public Works Research Institute	Japan
218	SULFURIC ACID DETERIORATION OF CONCRETE CONSIDERING THE EFFECT OF COARSE AGGREGATE CONTENT	Prof.	Kenji	Kawai	Hiroshima University	Japan
220	CHLORIDE ION PENETRATION INTO CONCRETE APPLIED SURFACE PENETRANT UNDER FREEZING - THAWING CONDITION	Mr.	Yuki	SAKAI	Hachinohe Institute of Technology	JAPAN
221	PERFORMANCE OF DETERIORATED RC BUILDING AT GUNKAN ISLAND	Mr.	Shinnosuke	Seki	Tokyo university of science	Japan
222	EXPERIMENTAL AND NUMERICAL STUDY ON REINFORCING STRUCTURES WITH HIGH STRENGTH CONCRETE OVERLAYS		Norbert	Randl	Carinthia University of Applied Sciences	Austria
227	EVALUATION OF LONG-TERM HYDRATION OF CONCRETE WITH SCMS BY ELECTRICAL RESISTIVITY METHOD	Dr.	Yanbo	Liu	Harbin Engineering University	China
228	DYNAMIC TENSILE BEHAVIORS OF CFRP AND BFRP UNDER INTERMEDIATE STRAIN RATES		Deju	Zhu	Hunan University	China
235	TECHNICAL DEVELOPMENT THROUGH RECYCLING OF THE DEBRIS DUE TO THE GREAT EAST JAPAN EARTHQUAKE	Prof.	Makoto	HISADA	Tohoku University	JAPAN
236	APPARENT CHLORIDE DIFFUSION COEFFICIENT OF CONCRETE SPECIMENS EXPOSED TO ATMOSPHERIC MARINE ENVIRONMENT		Francisco	Presuel-Moreno	Florida Atlantic University	USA
238	EXPERIMENTAL STUDY AND FINITE ELEMENT ANALYSIS ON ELECTRICAL HEATING TECHNOLOGY UTILIZING CARBON FIBER TAPE		Deju	Zhu	Hunan University	China
239	FORMWORK PRESSURE EXERTED BY SCC WITH DIFFERENT MINERAL ADMIXTURES	Dr.	Naeem	Saleem	King Fahd University of Petroleum & Minerals	Saudi Arabia
242	INFLUENCE OF POLARIZATION SHIFT ON EFFECTS OF CORROSION PROTECTION IN CATHODIC PROTECTION SYSTEM	Mr.	Makoto	Yamamoto	Sumitomo Osaka Cement Co.,LTD.	Japan
243	EXPERIMENTAL AND NUMERICAL SIMULATION OF CFRP STRENGTHENED SANDSTONE WALLS UNDER CYCLIC LOADS	Mr.	Amr	Barahim	KFUPM	Saudi Arabia
246	IMPACT OF EXTREME SUMMER TEMPERATURES ON BRIDGE STRUCTURES		Ryan	Hagedorn	University of Arkansas	United States
247	RECYCLING OF AUTOCLAVED AERATED CONCRETE IN SCREED AND STABILIZED SAND		Jef	Bergmans	VITO	Belgium
248	ENVIRONMENTAL IMPACT OF RESIDENTIAL BUILDING ENVELOPE: A COMPARISON BETWEEN THERMAL PERFORMANCE AND OCCUPANT ENERGY USAGE	Ms.	Arina	Van Noordwyk	Stellenbosch University	South Africa
251	INFLUENCE OF ADMIXTURES ON PLASTIC SHRINKAGE CRACKING OF CONCRETE	Mr.	Burgert	Le Roux	Stellenbosch University	South Africa
256	EVALUATION OF BOND STRENGTH BETWEEN ULTRA-HIGH PERFORMANCE CONCRETE AND PRECAST CONCRETE IN BRIDGE DECK CONNECTIONS	Mr.	Zhengqi	Li	Clemson University	USA
259	SHEAR BEHAVIOUR OF PRESTRESSED DOUBLE TEES REINFORCED BY POLYPROPYLENE FIBRES	Dr.	Antonio	Conforti	University of Brescia	Italy
260	HIGH STRENGTH SELF CONSOLIDATING CONCRETE PRESTRESS LOSSES OF BRIDGE A7957, MO, USA COMPARED TO CODE MODELS	Dr.	John	Myers	Missouri University of Science and Technology	United States of America
261	CRACK WIDENING RESPONSE OF CRACKED MACRO SYNTHETIC FRC UNDER SUSTAINED TENSILE LOADING	Mr.	Adewumi John	Babafemi	Stellenbosch University	South Africa
262	CARBSTONE: A NOVEL PROCESS FOR THE PRODUCTION OF CONSTRUCTION MATERIALS FROM SLAGS AND CO2	Dr.	Mieke	Quaghebeur	VITO	Belgium
263	HIGH PERFORMANCE CEMENTITIOUS COMPOSITES: NANOSTRUCTURAL AND MICROSTRUCTURE INVESTIGATION	Prof.	M. Iqbal	Khan	King Saud University	Saudi Arabia
265	STRAIN CAPACITY OF SHCC USING DIFFERENT STRAIN LOADING RATES	Prof.	M. Iqbal	Khan	King Saud University	Saudi Arabia
266	CORROSION-INDUCED COVER SPALLING IN RC STRUCTURES		Kamyab	Zandi	Chalmers University of Technology	Sweden
268	STRENGTHENING MASONRY USING AN ECO-FRIENDLY DUCTILE CEMENTITIOUS COMPOSITE (EDCC)	Mr.	Matthew	Lynch	University of Manitoba	Canada
270	EFFECT OF SELF-HEALING ON THE CHLORIDE DIFFUSIVITY AT EARLY AGE		Aveline	Darquennes	ENS Cachan	France
271	TENSION SOFTENING BEHAVIOR OF ASR DAMAGED CONCRETE DETECTED BY IMAGE ANALYSIS	Dr.	Tomohiro	Miki	Kobe University	Japan
273	INFLUENCE OF CURING CONDITIONS ON THE COMPRESSIVE STRENGTH OF CLASS F FLY ASH GEOPOLYMER CONCRETE		Yifei	Cui	University of New South Wales, Canberra	Australia
275	EXPERIMENTAL RESEARCH INTO THE MECHANICAL PROPERTIES OF ASR-DEGRADED RC MEMBERS REPAIRED BY LITHIUM NITRITE PRESSURIZED INJECTION	Mr.	Yusuke	TAKAGI	Gifu University	Japan
276	DEVELOPMENT OF GFRP AND ULTRA-HIGH STRENGTH CONCRETE COMPOSITE BEAMS FOR SHORT SPAN BRIDGES	Mr.	Isuru	Wijayawardane	Saitama University	Japan
278	LOW-VELOCITY FLEXURAL IMPACT RESPONSES OF FRC AND HPRFC		Ki-Yeon	Kwon	Korea Institute of Nuclear Safety	South Korea
279	PHYSICO-MECHANICAL AND DURABILITY CHARACTERISTICS OF BASALT-FIBRE-REINFORCED CONCRETE	Prof.	Brahim	Benmokrane	University of Sherbrooke	Canada
282	AGGREGATE SIZE EFFECT ON THE COMPRESSIVE BEHAVIOR OF HIGH-STRENGTH STEEL FIBER REINFORCED CONCRETE (SFRC)	Ms.	Kyung-Lim	Ahn	Chung-nam national university	South Korea
284	THE EFFECT W/C RATIO OF AND FIBER TYPE ON THE REINFORCEMENT CORROSION PREVENTION PERFORMANCE OF SHCC	Mr.	Masato	SUZUKI	Gifu University	Japan
292	INFLUENCE OF STEEL FIBER ON FLEXURAL PERFORMANCE OF HIGH-STRENGTH STEEL FIBER REINFORCED CONCRETE (SFRC)	Mr.	Dae-Hyun	Kang	Chungnam national university	South of Korea
294	EVALUATION OF BLAST DAMAGES AND RESIDUAL STRENGTH OF RC BEAMS STRENGTHENED WITH STEEL FIBER AND FRP SHEET	Prof.	Young-Soo	Yoon	Korea Univ.	South Korea
296	FLEXURAL BEHAVIOR OF UHPFRC PANELS UNDER BIAxIAL STRESS STATE		Doo-Yeol	Yoo	Korea University	Republic of Korea
297	ENHANCING SHRINKAGE CHARACTERISTIC OF PSC GROUT BY SILICA FUME AND FLY ASH	PhD candidate	Tianfeng	Yuan	Korea University	Korea
298	APPLICATION OF STEEL SLAG AS QUICK-SETTING AGENT FOR SHOTCRETE	Prof.	Jin-Man	Kim	Kongju National University	South Korea
299	THE INFLUENCE OF CELLULOSE NANOCRYSTALS ON THE FRESH PROPERTIES OF OIL WELL CEMENT PASTE	Dr.	VIVEK	BINDIGANAVILE	UNIVERSITY OF ALBERTA	Canada
300	DEVELOPMENT OF DURABILITY ENHANCEMENT TECHNIQUE OF CONCRETE BY CONTINUOUS DRAIN-MOIST CURING	Mr.	Tastuya	USUI	Taisei Corporation	Japan
304	COHESIVE ZONE MODEL PROPERTIES FOR EVALUATING DELAMINATION OF SPRAY-APPLIED FIRE-RESISTIVE MATERIALS FROM STEEL STRUCTURES	Prof.	Venkatesh	Kodur	Michigan State University	USA



305	EXPERIMENTS ON THE FLEXURAL BEHAVIOR OF FRP STRENGTHENED CONCRETE BEAMS	Dr.	Abulgasem	Elarbi	University of Tripoli	LIBYA
306	BASIC STUDY ON AN APPLICATION OF MAGNETIC FLUX LEAKAGE INSPECTION OF REINFORCEMENT IN POST-TENSIONED CONCRETE STRUCTURES	Mr.	Artur	Sagradyan	Kyoto University	Japan
307	STUDY ON INFLUENCE OF TEMPERATURE ON BOND INTEGRITY BETWEEN POLYMER CEMENT MORTAR AND CONCRETE		Khuram	Rashid	Hokkaido University	Japan
309	MECHANICAL PROPERTIES OF HIGH-VOLUME FLY ASH CONCRETE WITH RECYCLED AGGREGATE		Hiroki	Hirata	The University of Tokushima	JAPAN
310	EFFECTS OF COMBINED ENVIRONMENTAL EXPOSURES AND AXIAL LOAD ON CFFT COLUMNS		Song	Wang	Missouri University of Science and Technology	United States
314	FACTORS INFLUENCING CHLORIDE PENETRATION RESISTANCE OF CONCRETE IN LABORATORY-ACCELERATED AND OUTDOOR EXPOSURE TESTS		Eisuke	Nakamura	Public Works Research Institute	Japan
315	THE EFFECT OF MECHANICAL DAMAGE AND CRACKING ON WATER ABSORPTION OF CEMENT-BASED COMPOSITES		Wenting	LI	Tongji University	China
321	INFLUENCE OF FLY ASH ON THE MICRO-STRUCTURES AND THE ELASTIC PROPERTIES OF MORTAR	Dr.	Yueyi	Gao	Southeast University	China
322	STATIC CYCLIC PERFORMANCE OF HOLLOW-CORE FRP-CONCRETE-STEEL COLUMNS		Omar	Abdelkarim	Missouri University of Science and Technology	USA
323	ANALYSIS OF VEHICLE COLLISION WITH HOLLOW-CORE FRP-CONCRETE-STEEL BRIDGE COLUMNS		Omar	Abdelkarim	Missouri University of Science and Technology	USA
324	MODELLING THE STRUCTURAL BEHAVIOR OF SHEAR-CRITICAL PRESTRESSED AND REINFORCED CONCRETE MEMBERS	Dr.	Kristof	De Wilder	KU Leuven	Belgium
325	COMBINED EFFECTS OF MICROCRACKING AND FROST DETERIORATION ON THE DURABILITY PERFORMANCE OF CEMENTITIOUS COMPOSITES	Mr.	Mustafa	Sahmaran	Gazi University	Turkey
326	CONFINEMENT OF ULTRA-HIGH-STRENGTH CONCRETE (200 MPA) COLUMNS	Dr.	Hyun-Oh	Shin	McGill University	Canada
327	EFFECTS OF MAJOR CONSTITUENTS ON AUTOGENOUS SHRINKAGE OF UHPC	Prof.	Caijun	Shi	Hunan University	China
328	SALT SCALING RESISTANCE OF HIGH CONTENT GGBS CONCRETE		WEI	SHE	Southeast University	China
331	NEW TEST METHOD FOR ELECTRICAL INDICATION OF CONCRETE'S ABILITY TO RESIST CHLORIDE ION PENETRATION		Amirreza	Pilvar	Amirkabir University of Technology	Iran
332	THERMAL PROPERTIES OF GEOPOLYMER CONCRETE WITH LIGHTWEIGHT AGGREGATES IMPREGNATED WITH PHASE CHANGE MATERIAL	Prof.	Piti	Sukontasukkul	King Mongkut's University of Technology North Bangkok	Thailand
334	THERMAL CRACKING RESISTANCE INVESTIGATION FOR A NEW HIGH-VOLUME BLAST-FURNACE SLAG CEMENT CONCRETE	Dr.	Tetsushi	Kanda	Kajima Technical Research Institute	Japan
335	VERIFICATION OF PREDICTION METHOD FOR CATHODIC PROTECTION CURRENT DISTRIBUTION BY MOCK-UP RC SPECIMEN		Hiroshi	Minagawa	Tohoku Univ.	Japan
339	MATERIAL AND STRUCTURAL PERFORMANCE EVALUATIONS OF HWANGTOH ADMIXTURE AND RECYCLED PET FIBER ADDED ECO-FRIENDLY CONCRETE FOR CO2 EMISSION REDUCTION	Mr.	Jang-Ho Jay	Kim	Yonsei University	South Korea
343	PERFORMANCE BASED EVALUATION OF CONCRETE SPECIMEN FROM CLIMATE CHANGE EFFECT ON VARIOUS CURING CONDITION	Mr.	Ji-Hun	Choi	Yonsei University	Republic of Korea
344	BLAST ANALYSIS FOR CONCRETE STRUCTURE RETROFITTED WITH FRP		Hojin	Kim	ATMACS	South Korea
346	EXPERIMENTAL INVESTIGATIONS ON MECHANICAL AND NEUTRON SHIELDING PROPERTIES OF SYNTHETIC RESIN-BASED MORTAR	Dr.	Jong Suk	LEE	Korea Institute of Civil Engineering and Building Technology	South Korea
347	FLEXURAL BEHAVIOR OF REINFORCED CONCRETE NEAMS STRENGTHENED WITH A FRP-FRCM SYSTEM	PhD candidate	Kyusan	Jung	Chungbuk national university	Republic of Korea
348	EXPERIMENTAL STUDY ON THE DEBONDING PHENOMENA OF PBO-FRCM STRENGTHENING SYSTEM IN FLEXURALLY STRENGTHENED REINFORCED CONCRETE BEAM	Dr.	Boonchai	STITMANNAITHUM	Chulalongkorn University	Thailand
349	EVALUATION OF WORKABILITY FOR FRESH CONCRETE BY THE BOX SHAPED FILLING ABILITY TEST AND THE COUPLED ANALYSIS IN GRANULAR AND FLUID MODEL		Yuji	Yamada	The University of Tokushima	JAPAN
351	EXPERIMENTAL STUDY OF THE CREEP BEHAVIOUR OF STRUCTURAL MACRO-SYNTHETIC FIBERS		Rutger	Vrijdaghs	KU Leuven	Belgium
352	EFFECT OF SUPPLEMENTARY CEMENTITIOUS MATERIALS ON THE PROPERTIES OF SELF-COMPACTING HIGH STRENGTH LIGHTWEIGHT CONCRETE	Mr.	Kareem	Helal	American University of Sharjah	United Arab Emirates
353	DEVELOPMENT OF A TESTING PROTOCOL FOR THE EVALUATION OF THE OXIDATION POTENTIAL OF SULFIDE-BEARING AGGREGATES FOR USE IN CONCRETE		JosÃ©	Duchesne	UniversitÃ© Laval	Canada
354	INVESTIGATION ON SHRINKAGE CRACKING BEHAVIOR OF ULTRA-LIGHTWEIGHT CEMENT COMPOSITE (ULCC)	Dr.	Jun-Yan	Wang	Tongji University	P.R.China
357	ANALYTICAL STUDY OF SELF-HEALING OF CEMENT-BASED MATERIALS INCORPORATING MINERAL ADDITIVES ON DIFFERENT PARTS OF STRUCTURES IN GROUNDWATER CONDITIONS		Zhengwu	Jiang	Tongji University	Shanghai, China
358	STUDY ON RESISTIVITY AGAINST CHLORIDE ATTACK, NEUTRALIZATION AND THEIR COMPLEX DETERIORATION OF CONCRETE USING CALCIUM ALUMINATE AS ADMIXTURE	Dr.	Dhruva Narayana	Katpady	Kagoshima University	Japan
359	IMPROVED SETTING AND HARDENING OF FLY ASH GEOPOLYMER CONCRETE CURED AT ROOM TEMPERATURE	Mr.	Pradip	Nath	Curtin University, Perth, Western Australia.	Australia
360	STUDY ON PROPERTIES OF LOW ENVIRONMENTAL LOAD CONCRETE CONTAINING LARGE AMOUNT OF INDUSTRIAL BY-PRODUCTS AND ACCELERATING ADMIXTURE	Dr.	Kaname	SAITOH	Technology Center Sika Ltd.	JAPAN
362	EVALUATION OF COVERCONCRETE QUALITY OF TUNNEL LINING CONCRETE WITH SURFACE WATER ABSORPTION TEST	Dr.	Satoshi	Komatsu	Yokohama National University	Japan
366	UNIVERSAL TRANSPORT MODEL IN CONCRETE UNDER NATURAL ENVIRONMENT		Takumi	Shimomura		
367	FATIGUE PERFORMANCE OF EMBEDDED-FOS IN FRP-RC BEAMS UNDER DIFFERENT WEATHERING CONDITIONS	Dr.	Ashutosh	Bagchi	Concordia University	Canada
373	EFFECT OF CACTUS MUCILAGE AND BROWN SEAWEED EXTRACT ON HYDRATION OF ORDINARY PORTLAND CEMENT PASTES	MSc.	Eddisson Francisco	HernÃ¡ndez	CIIDIR-Unidad OAXACA, Instituto PolitÃ©cnico Nacional (IPN)	MÃ©xico
374	PROBABILISTIC SHEAR CAPACITY MODELS FOR CONCRETE MEMBERS WITH INTERNAL COMPOSITE REINFORCEMENTS	Dr.	Young Hoon	Kim	University of Louisville	USA
377	BUCKLING-BEHAVIOR OF UV-CURED FRP REPAIR-SHEET DUE TO NARROWING CONCRETE CRACK WIDTH	Mr.	Masaki	Kakizawa	Gifu University	Japan
379	EMBEDDED NMR SENSORS TO MONITOR PROPERTIES OF FRESH AND HARDENED PORTLAND CEMENT PASTES	Miss	Yossune D.	Castellanos-Hernandez	Instituto tecnolÃ³gico de Oaxaca	Mexico
382	SENSITIVITY ANALYSIS OF FLEXURAL CHARACTERISTICS FOR STEEL AND SYNTHETIC FIBER REINFORCED CONCRETE	Dr.	Yeonho	Park	University of Texas at Arlington	United States
388	DEVELOPMENT OF THE NEW APPLICATION METHOD OF A THERMAL STRESS DEVICE	Prof.	Jin-Keun	Fu	KAIST(Korea Advanced Institute of Science and Technology)	South Korea
389	FINITE ELEMENT MODELING OF HYBRID GFRP SANDWICH BRIDGE DECK PANELS FILLED WITH POLYURETHANE FOAM		Hesham	Tuwair	Missouri University of Science and Technology	United States
390	DAMPING PROPERTIES OF HIGH STRENGTH CONCRETE WITH SCRAP TIRE RUBBER		Ayman	Moustafa	Missouri University of Science and Technology	USA

392	AN EXPERIMENTAL INVESTIGATION OF SELF-CENTERING MASONRY SHEAR WALLS		Reza	Hassanli	South Australia	Australia
393	INFLUENCE OF CHLORIDE BINDING ON POROSITY AND PORE SIZE DISTRIBUTION OF CONCRETE TREATED AT DIFFERENT EXPOSURE CONDITIONS		Alkailani	Omer	Dalhousie	Canada
394	CHLORIDE INDUCED PITTING CORROSION FATIGUE IN REINFORCED CONCRETE S' Dr.		Ming	Zhu	University of Saskatchewan	Canada
395	EFFECT OF ARTIFICIAL AND NATURAL CRACKS ON WATER FLOW IN CONCRETE		Gang	Li	University of Saskatchewan	Canada
398	ANALYSIS OF CHLORIDE CONTENT IN CONCRETE	Dr.	Saleh	Alsaleh	Al Imam Mohammad Ibn Saud Islamic University	Saudi Arabia
399	ABRASION-EROSION RESISTANCE OF HYDRAULIC CONCRETE UNDER HIGH-VELOCITY SANDBLASTING	Dr.	Xinhua	Cai	Wuhan University	China
401	OPTIMIZING PERVIOUS CONCRETE PAVEMENT MIX DESIGN USING THE TAGUCHI METHOD	Mf.	Alireza	Joshaghani	Amirkabir University of Technology	Iran
406	SELF-COMPACTING LIGHTWEIGHT CONCRETE AND FIBERS CONTRA PERFORMANCE IN FRESH AND HARDENED STATE?	Prof.	Faiz	Mirza	Umm Al-Qura University	Saudi Arabia
407	EXPERIMENTAL STUDY OF THE INTERNAL PH ESTIMATION OF CEMENT PASTE USING THE DRILLED POWDER	Dr.	Kohei	Eguchi	Tokyo university of science	Japan
410	ANALYSIS ON THE STATIC BEHAVIOR OF PSC GIRDER USING UNBONDED COMPRESSIVE PRESTRESSING	Mr.	Dong Woo	Shin	Yonsei university	South Korea
411	ANALYTICAL EVALUATION OF BI-DIRECTIONALLY PRESTRESSED CONCRETE PANEL BEHAVIOR UNDER IMPACT-FIRE COMBINED LOADING USING PARAMETRIC STUDY	Mr.	Seung-Jai	Choi	Yonsei University	South Korea
418	DURABILITY AND APPLICATIONS OF ENVIRONMENTAL-FRIENDLY CONCRETE WITH SLAG AND CALCIUM ACTIVATOR	Mr.	Shigeyoshi	MIYAHARA	Taisei Corporation	Japan
419	DESIGN PERFORMANCE AND ANALYTICAL EVALUATION OF COPING LOCATION FOR STEEL COMPOSITE GIRDER BY TURN OVER PROCESS	Mr.	Jae-Ho	Shin	Yonsei University	South Korea
421	CONCRETE-ICE ABRASION SURFACE ROUGHNESS AND MEASUREMENT METHOD		Guzel	Shamsutdinova	NTNU	Norway
423	CEMENTITIOUS CAPILLARY CRYSTALLINE COATINGS FOR CORROSION MITIGATION OF CONCRETE STRUCTURES	Dr.	Martin	Noel	Queen's University	Canada
424	BOND OF STEEL REINFORCING BARS WITH CEMENTITIOUS WATERPROOFING COATINGS	Dr.	Martin	Noel	Queen's University	Canada
425	QUANTITATIVE CHARACTERIZATION AND ELASTIC PROPERTIES OF INTERFACIAL TRANSITION ZONE AROUND COARSE AGGREGATE IN CONCRETE		Zijian	Jia	Southeast University	China
426	DEVELOPMENT OF MORTAR WITH REDUCTION EFFECT FOR INNER EXPANSION PRESSURE	Mr.	Yuki	HASEGAWA	Ehime University	Japan
429	MICROSTRUCTURE ANALYSIS OF SURFACE-MODIFIED RECYCLED AGGREGATE FO Dr.		Lapyote	Prasittisopin	Siam Research and Innovation Company	Thailand
430	DEICER-SCALING RESISTANCE OF CONCRETE INCORPORATING WATER-COOLED SLAG AND AIR-COOLED SLAG		Seungtae	Lee	Kunsan National University	South Korea
431	FLY ASH AS FIBRE-MATRIX BOND MODIFIER IN CEMENTITIOUS COMPOSITES WITH STRAIN-HARDENING BEHAVIOUR		Chang	Lin	Hainan University	China
432	AN EXPERIMENTAL STUDY ON THE CONTROL CRITERIA OF CATHODIC PROTECTION FOR REINFORCED CONCRETE STRUCTURE IN TIDAL ZONE	Dr.	Toshikazu	Minematsu	Sumitomo Osaka Cement Co.Ltd.	Japan
435	TRANSPORT PROPERTIES OF SELF-CONSOLIDATING CONCRETE CONTAINING LIMESTONE POWDER		Nader	Ghafoori	University of Nevada Las Vegas	United States
436	PROPERTIES OF ALKALI-ACTIVATED NATURAL POZZOLAN MORTARS		Nader	Ghafoori	University of Nevada Las Vegas	United States
438	DEVELOPMENT OF CAST-IN-PLACE METHOD OF ULTRA HIGH STRENGTH FIBER REINFORCED CONCRETE	Mr.	Yuji	Watanabe	KAJIMA Co., Ltd.	Japan
440	EARLY-AGE STRAIN AND CRACKING BEHAVIOUR OF CONTINUOUSLY REINFORCEI Prof.		Brahim	Benmokrane	University of Sherbrooke	Canada
441	LABORATORY TESTING OF EDGE-RESTRAINED CONCRETE BRIDGE-DECK SLABS RE Prof.		Brahim	Benmokrane	University of Sherbrooke	Canada
442	UHPFRC JOINT BETWEEN GFRP RC PRECAST BRIDGE DECK PANELS	Prof.	Brahim	Benmokrane	University of Sherbrooke	Canada
443	INNOVATIVE BOND TESTING OF FRP BARS IN CONCRETE UNDER REVERSED CYCLIC LOADING	Prof.	Brahim	Benmokrane	University of Sherbrooke	Canada
450	INVESTIGATION OF CRACK PROPAGATION IN MACRO-SYNTHETIC FIBER	Dr.	Kolluru	Subramaniam	Indian Institute of Technology Hyderabad	India
451	STATE OF THE ART OF ADVANCED SUPERPLASTICIZER	Mr.	Tomomi	Sugiyama	BASF Japan Ltd.	Japan
452	THE EFFECT OF NANO-SILICA ON THE ENHANCEMENT OF ECO-UHPFRCC	Prof.	Liping	Guo	Southeast University	P.R. China
453	QUANTIFYING EFFECT OF INTEGRAL CRYSTALLINE WATERPROOFING ADMIXTURE ON SELF-SEALING PROPERTY OF CONCRETE	Mr.	Alireza	Biparva	Kryton International Inc.	Canada
455	NEW SHEAR CONNECTOR FOR OPEN-WEB STEEL JOIST IN COMPOSITE DECK FLOOR SYSTEMS	Prof.	Amr	El Ragaby	University of Windsor	Canada
456	NEW TECHNIQUE FOR STRENGTHENING THE HOLLOW-CORE SLAB WEB-SHEAR CAPACITY USING FRP COMPOSITE SHEETS	Prof.	Amr	El Ragaby	University of Windsor	Canada
460	NUMERICAL MODELING OF CRACKING EFFECT ON CHLORIDE TRANSPORT DURINDr.		Qing-feng	Liu	Shanghai Jiao Tong University	P.R. China
461	TENSILE LOAD PROPERTIES AND POLYMER DETERIORATION OF FRP CABLES DURING LONG-TERM EXPOSURE	Dr.	Iwao	SASAKI	Public Works Research Institute	Japan