

ESI 中工程学领域 热点论文信息推送

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——基于 2017 年 1 月份更新数据

ESI (Essential Science Indicators) 热点论文是指近两年内发表的在近 2 个月内被引次数高居于前千分之一的 SCI/SSCI 文章, 即最近两个月内最受关注的文章。

本期入榜文章是 2014 年 8 月到 2016 年 8 月发表的文章中, 在 2016 年 9 月和 10 月两个月内被引次数排名前千分之一的文章。数据更新时间为 2017 年 1 月 20 日。

本期 ESI 发布的工程学领域的热点文章共 273 篇, 单篇最高被引 497 次, 最低被引 4 次。被引 497 次的文章由新南威尔士大学 (Australia UNIV NEW S WALES) 的 GREEN, MA 等人发表在 *PROG PHOTOVOLTAICS* 上的标题为 “**SOLAR CELL EFFICIENCY TABLES (VERSION 45)**”。被引次数 (210 次) 排名第二的文章, 题为 “**A REVIEW ON BASIC DATA-DRIVEN APPROACHES FOR INDUSTRIAL PROCESS MONITORING**”, 由哈尔滨工业大学的 (HARBIN INST TECHNOL) YIN, S 等人发表在 *IEEE TRANS IND ELECTRON* 上。被引次数 (200 次) 排名第三的文章是发表在 *Nature* 上的 “**DEEP LEARNING**”, 第一作者是 Facebook 的 LECUN, Y。

附：该领域所有热点文章的详细信息请见附表

题名	作者	出处	机构	被引次数
SOLAR CELL EFFICIENCY TABLES (VERSION 45)	GREEN, MA;EMERY, K;HISHIKAWA, Y;WARTA, W;DUNLOP, ED	PROG PHOTOVOLTAICS 23 (1): 1-9 JAN 2015	UNIV NEW S WALES, AUSTRALIAN CTR ADV PHOTOVOLTA, SYDNEY, NSW 2052, AUSTRALIA;NATL RENEWABLE ENERGY LAB, GOLDEN, CO 80401 USA;NATL INST ADV IND SCI & TECHNOL, RES CTR PHOTOVOLTA TECHNOL RCPVT, TSUKUBA, IBARAKI 3058568, JAPAN;FRAUNHOFER INST SOLAR ENERGY SYST, DEPT SOLAR CELLS MAT & TECHNOL, D-79110 FREIBURG, GERMANY;COMMISS EUROPEAN COMMUNITIES, JOINT RES CTR, RENEWABLE ENERGY UNIT, INST ENERGY, IT-21027 ISPRA, ITALY	497
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HIGH SORPTION OF U(VI) ON GRAPHENE OXIDES STUDIED BY BATCH EXPERIMENTAL AND THEORETICAL CALCULATIONS	WANG, XX;FAN, QH;YU, SJ;CHEN, ZS;AI, YJ;SUN, YB;HOBINY, A;ALSAEDI, A;WANG, XK	CHEM ENG J 287: 448-455 MAR 1 2016	NORTH CHINA ELECT POWER UNIV, SCH CHEM & ENVIRONM, BEIJING 102206, PEOPLES R CHINA;CHINESE ACAD SCI, KEY LAB PETR RESOURCES GANSU PROV, KEY LAB PETR RESOURCES RES, INST GEOL & GEOPHYS, LANZHOU 730000, PEOPLES R CHINA;CHINESE ACAD SCI, INST PLASMA PHYS, KEY LAB NEW THIN FILM SOLAR CELLS, POB 1126, HEFEI 230031, ANHUI, PEOPLES R CHINA;JIANGSU HIGHER EDUC INST, COLLABORAT INNOVAT CTR RADIAT MED, NANJING, PEOPLES R CHINA;KING ABDULAZIZ UNIV, NAAM RES GRP, FAC SCI, JEDDAH 21589, SAUDI ARABIA	12
LIGNOCELLULOSIC BIOMASS PYROLYSIS: A REVIEW OF PRODUCT PROPERTIES AND EFFECTS OF PYROLYSIS PARAMETERS	KAN, T;STREZOV, V;EVANS, TJ	RENEW SUSTAIN ENERGY REV 57: 1126-1140 MAY 2016	MACQUARIE UNIV, DEPT ENVIRONM SCI, FAC SCI & ENGN, SYDNEY, NSW 2109, AUSTRALIA	12
SUSTAINABILITY OF USING COMPOSTING AND VERMICOMPOSTING TECHNOLOGIES FOR ORGANIC SOLID WASTE BIOTRANSFORMATION: RECENT OVERVIEW, GREENHOUSE GASES EMISSIONS AND ECONOMIC ANALYSIS	LIM, SL;LEE, LH;WU, TY	J CLEAN PROD 111: 262-278 PART A JAN 16 2016	MONASH UNIV, SCH ENGN, CHEM ENGN DISCIPLINE, BANDAR SUNWAY 47500, SELANGOR DARUL, MALAYSIA	12
QUANTIFYING LOAD FLEXIBILITY OF ELECTRIC VEHICLES FOR RENEWABLE ENERGY INTEGRATION	SCHULLER, A;FLATH, CM;GOTTWALT, S	APPL ENERG 151: 335-344 AUG 1 2015	FZI RES CTR INFORMAT TECHNOL, D-76131 KARLSRUHE, GERMANY;UNIV WURZBURG, D-97070 WURZBURG, GERMANY	11
EXPERIMENTAL INVESTIGATION OF A BUILDING INTEGRATED	BUKER, MS;MEMPOU,	ENERG CONV MANAGE 101: 239-254 SEP 1 2015	UNIV NOTTINGHAM, INST SUSTAINABLE ENERGY TECHNOL, NOTTINGHAM NG7 2RD, ENGLAND	11

PHOTOVOLTAIC/THERMAL ROOF COLLECTOR COMBINED WITH A LIQUID DESICCANT ENHANCED INDIRECT EVAPORATIVE COOLING SYSTEM	B;RIFLAT, SB			
ROBUST SECURE TRANSMIT DESIGN IN MIMO CHANNELS WITH SIMULTANEOUS WIRELESS INFORMATION AND POWER TRANSFER	WANG, SH;WANG, BY	IEEE SIGNAL PROCESS LETT 22 (11): - NOV 2015	NANJING UNIV POSTS & TELECOMMUN, COLL COMMUN & INFORMAT ENGN, NANJING 210003, JIANGSU, PEOPLES R CHINA	11
EVALUATION OF EMISSIONS OF CO2 AND AIR POLLUTANTS FROM ELECTRIC VEHICLES IN ITALIAN CITIES	DONATEO, T;LICCI, F;DELIA, A;COLANGELO, G;LAFORGIA, D;CIANCARELLI, F	APPL ENERG 157: 675-687 NOV 1 2015	UNIV SALENTO, DEPT ENGN INNOVAT, I-73100 LECCE, ITALY;ENEL DISTRIBUZ SPA, NETWORK TECHNOL DEPT, ROME, ITALY	11
REACTION MECHANISMS AND MULTI-SCALE MODELLING OF LIGNOCELLULOSIC BIOMASS PYROLYSIS	ANCA-COUCÉ, A	PROG ENERG COMBUST SCI 53: 41-79 MAR 2016	GRAZ UNIV TECHNOL, INST PROC & PARTICLE ENGN, INFFELDGASSE 21B, A-8010 GRAZ, AUSTRIA;BIOENERGY 2020 GMBH, INFFELDGASSE 21B, A-8010 GRAZ, AUSTRIA;GRAZ UNIV TECHNOL, INST THERMAL ENGN, INFFELDGASSE 25B, A-8010 GRAZ, AUSTRIA	11
CRITICAL REVIEW OF STATE OF HEALTH ESTIMATION METHODS OF LI-ION BATTERIES FOR REAL APPLICATIONS	BERECIBAR, M;GANDIAGA, I;VILLARREAL, I;OMAR, N;VAN MIERLO, J;VAN DEN BOSSCHE, P	RENEW SUSTAIN ENERGY REV 56: 572-587 APR 2016	IK4 IKERLAN, PARCELA 10-5, EDIFICIO A3, HERNANI 20120, GIPUZKOA, SPAIN;VRIJE UNIV BRUSSEL, MOBI RES GRP, PL LAAN 2, B-1050 ELSENE, BELGIUM	11
AN EXPERIMENTAL STUDY ON RHEOLOGICAL BEHAVIOR OF NON-NEWTONIAN HYBRID	ESHGARF, H;AFRAND, M	EXP THERM FLUID SCI 76: 221-227 SEP 2016	ISLAMIC AZAD UNIV, DEPT MECH ENGN, NAJAFABAD BRANCH, NAJAFABAD, IRAN	11

NANO-COOLANT FOR APPLICATION IN COOLING AND HEATING SYSTEMS				
THERMODYNAMIC ANALYSIS AND MULTI OBJECTIVE OPTIMIZATION OF PERFORMANCE OF SOLAR DISH STIRLING ENGINE BY THE CENTRALITY OF ENTRANSY AND ENTROPY GENERATION	AHMADI, MH; AHMADI, MA; MELLIT, A; POURFAYAZ, F; FEIDT, M	INT J ELEC POWER ENERG SYST 78: 88-95 JUN 2016	UNIV TEHRAN, FAC NEW SCI & TECHNOL, DEPT RENEWABLE ENERGIES & ENVIRONM, TEHRAN, IRAN; PUT, AHWAZ FAC PETR ENGN, DEPT PETR ENGN, AHWAZ, IRAN; JIJEL UNIV, FAC SCI & TECHNOL, RENEWABLE ENERGY LAB, JIJEL 18000, ALGERIA; ENSEM, LAB ENERGET & MECAN THEOR & APPL, 2 AVE FORET DE HAYE, VANDOEUVRE LES NANCY, FRANCE	11
SPATIOTEMPORAL HERMITE-GAUSSIAN SOLITONS OF A (3+1)-DIMENSIONAL PARTIALLY NONLOCAL NONLINEAR SCHRODINGER EQUATION	DAI, CQ; WANG, Y; LIU, J	NONLINEAR DYNAMICS 84 (3): 1157-1161 MAY 2016	ZHEJIANG A&F UNIV, SCH SCI, LINAN 311300, ZHEJIANG, PEOPLES R CHINA	11
COMPETITIVE SORPTION OF AS(V) AND CR(VI) ON CARBONACEOUS NANOFIBERS	CHENG, WC; DING, CC; WANG, XX; WU, ZY; SUN, YB; YU, SH; HAYAT, T; WANG, XK	CHEM ENG J 293: 311-318 JUN 1 2016	NORTH CHINA ELECT POWER UNIV, SCH ENVIRONM & CHEM ENGN, BEIJING 102206, PEOPLES R CHINA; CHINESE ACAD SCI, KEY LAB NEW THIN FILM SOLAR CELLS, INST PLASMA PHYS, POB 1126, HEFEI 230031, PEOPLES R CHINA; UNIV SCI & TECHNOL CHINA, DEPT CHEM, HEFEI NATL LAB PHYS SCI MICROSCALE, DIV NANOMAT & CHEM, HEFEI 230026, ANHUI, PEOPLES R CHINA; SOOCHOW UNIV, COLLABORAT INNOVAT CTR RADIAT MED, JIANGSU HIGHER EDUC INST, SUZHOU 215123, PEOPLES R CHINA; SOOCHOW UNIV, SCH RADIOL & INTERDISCIPLINARY SCI, SUZHOU 215123, PEOPLES R CHINA; KING ABDULAZIZ UNIV, FAC SCI, NAAM RES GRP, JEDDAH 21589, SAUDI ARABIA; QAUID I AZAM UNIV, DEPT MATH, ISLAMABAD 44000, PAKISTAN	11
FUNDAMENTAL STUDY ON AERODYNAMIC FORCE OF FLOATING OFFSHORE WIND TURBINE WITH CYCLIC PITCH MECHANISM	LI, QA; KAMADA, Y; MAEDA, T; MURATA, J; IIDA,	ENERGY 99: 20-31 MAR 15 2016	MIE UNIV, DIV SYST ENGN, 1577 KURIMAMACHIYA CHO, TSU, MIE 5148507, JAPAN; MIE UNIV, DIV MECH ENGN, 1577 KURIMAMACHIYA CHO, TSU, MIE 5148507, JAPAN	11

	K;OKUMURA, Y			
LOW CONCENTRATION CO2 CAPTURE USING PHYSICAL ADSORBENTS: ARE METAL-ORGANIC FRAMEWORKS BECOMING THE NEW BENCHMARK MATERIALS?	BELMABKHOUT, Y;GUILLERM, V;EDDAOUDI, M	CHEM ENG J 296: 386-397 JUL 15 2016	KAUST, DIV PHYS SCI & ENGN, ADV MEMBRANES & POROUS MAT CTR, FUNCT MAT DESIGN DISCOVERY & DEV RES GRP FMD3, THUWAL 239556900, SAUDI ARABIA	11
STUDY ON POWER PERFORMANCE FOR STRAIGHT-BLADED VERTICAL AXIS WIND TURBINE BY FIELD AND WIND TUNNEL TEST	LI, QA;MAEDA, T;KAMADA, Y;MURATA, J;YAMAMOTO, M;OGASAWARA, T;SHIMIZU, K;KOGAKI, T	RENEWABLE ENERGY 90: 291-300 MAY 2016	MIE UNIV, DIV SYST ENGN, 1577 KURIMAMACHIYA CHO, TSU, MIE 5148507, JAPAN;MIE UNIV, DIV MECH ENGN, 1577 KURIMAMACHIYA CHO, TSU, MIE 5148507, JAPAN;NATL INST ADV IND SCI & TECHNOL, 1-2-1 NAMIKI, TSUKUBA, IBARAKI 3058564, JAPAN	11
A FEATURE-ENRICHED COMPLETELY BLIND IMAGE QUALITY EVALUATOR	ZHANG, L;ZHANG, L;BOVIK, AC	IEEE TRANS IMAGE PROCESSING 24 (8): - AUG 2015	TONGJI UNIV, SCH SOFTWARE ENGN, SHANGHAI 201804, PEOPLES R CHINA;SHENZHEN INST FUTURE MEDIA TECHNOL, SHENZHEN 518055, PEOPLES R CHINA;HONG KONG POLYTECH UNIV, DEPT COMP, HONG KONG, HONG KONG, PEOPLES R CHINA;UNIV TEXAS AUSTIN, DEPT ELECT & COMP ENGN, AUSTIN, TX 78712 USA	10
CURRENT STATUS OF FUEL CELL BASED COMBINED HEAT AND POWER SYSTEMS FOR RESIDENTIAL SECTOR	ELLAMLA, HR;STAFFELL, I;BUJLO, P;POLLET, BG;PASUPATHI, S	J POWER SOURCES 293: 312-328 OCT 20 2015	UNIV WESTERN CAPE, SAIAMC, HYDROGEN SOUTH AFRICA HYSY SYST & VALIDAT CTR, ZA-7535 CAPE TOWN, SOUTH AFRICA;UNIV LONDON IMPERIAL COLL SCI TECHNOL & MED, IMPERIAL COLL BUSINESS SCH, LONDON SW7 2AZ, ENGLAND	10
OSCILLATING-WATER-COLUMN WAVE ENERGY CONVERTERS AND AIR TURBINES: A REVIEW	FALCAO, AFO;HENRIQUE S, JCC	RENEWABLE ENERGY 85: 1391-1424 JAN 2016	UNIV LISBON, INST SUPER TECN, IDMEC, LAETA, P-1049001 LISBON, PORTUGAL	10
THE ENHANCEMENT OF EFFECTIVE THERMAL CONDUCTIVITY AND EFFECTIVE DYNAMIC	AZMI, WH;SHARMA,	RENEW SUSTAIN ENERGY REV 53: 1046-1058 JAN 2016	UNIV MALAYSIA PAHANG, FAC MECH ENGN, PEKAN 26600, PAHANG, MALAYSIA;UNIV TEKNOLOGI PETRONAS, DEPT MECH ENGN, TRONOH	10

VISCOSITY OF NANOFLUIDS – A REVIEW	KV;MAMAT, R;NAJAFI, G;MOHAMAD, MS		31750, PERAK, MALAYSIA;TARBIAT MODARES UNIV, TEHRAN, IRAN;UNIV MALAYSIA PAHANG, FAC IND SCI & TECHNOL, KUANTAN 26300, PAHANG, MALAYSIA	
NUMERICAL STUDY OF CONVECTIVE HEAT TRANSFER OF NANOFLUIDS: A REVIEW	VANAKI, SM;GANESAN, R;MOHAMMED, HA	RENEW SUSTAIN ENERGY REV 54: 1212–1239 FEB 2016	UNIV MALAYA, FAC ENGN, DEPT MECH ENGN, KUALA LUMPUR 50603, MALAYSIA;UNIV TEKNOLOGI MALAYSIA, FAC MECH ENGN, DEPT THERMOFLUIDS, UTM SKUDAI 81310, JOHOR BAHRU, MALAYSIA	10
IMPACT OF CATTANEO–CHRISTOV HEAT FLUX MODEL IN FLOW OF VARIABLE THERMAL CONDUCTIVITY FLUID OVER A VARIABLE THICKED SURFACE	HAYAT, T;KHAN, MI;FAROOQ, M;ALSAEDI, A;WAQAS, M;YASMEEN, T	INT J HEAT MASS TRANSFER 99: 702–710 AUG 2016	QUAID I AZAM UNIV 45320, DEPT MATH, ISLAMABAD 44000, PAKISTAN;KING ABDULAZIZ UNIV, FAC SCI, DEPT MATH, NAAM RES GRP, POB 80257, JEDDAH 21589, SAUDI ARABIA;RIPHAH INT UNIV, DEPT MATH, ISLAMABAD 44000, PAKISTAN;IMPERIAL COLL LONDON, DEPT MECH ENGN, LONDON SW7 A2Z, ENGLAND;UNIV ENGN & TECHNOL PESHAWAR, DEPT MECH ENGN, PESHAWAR, PAKISTAN	10
VELOCITY AND THERMAL SLIP EFFECTS ON PERISTALTIC MOTION OF WALTERS–B FLUID	JAVED, M;HAYAT, T;MUSTAFA, M;AHMAD, B	INT J HEAT MASS TRANSFER 96: 210–217 MAY 2016	INST SPACE TECHNOL 2750, DEPT APPL MATH & STAT, ISLAMABAD 44000, PAKISTAN;QUAID I AZAM UNIV, DEPT MATH, ISLAMABAD 44000, PAKISTAN;NATL UNIV SCI & TECHNOL, SNS, ISLAMABAD 44000, PAKISTAN;KING ABDULAZIZ UNIV, DEPT MATH, FAC SCI, NONLINEAR ANAL & APPL MATH NAAM RES GRP, JEDDAH 21589, SAUDI ARABIA	10
A REVIEW OF THE COMPOSITE PHASE CHANGE MATERIALS: FABRICATION, CHARACTERIZATION, MATHEMATICAL MODELING AND APPLICATION TO PERFORMANCE ENHANCEMENT	ZHANG, P;XIAO, X;MA, ZW	APPL ENERG 165: 472–510 MAR 1 2016	SHANGHAI JIAO TONG UNIV, MOE KEY LAB POWER MACHINERY & ENGN, INST REFRIGERAT & CRYOGEN, SHANGHAI 200240, PEOPLES R CHINA	10
EFFECTS OF TEMPERATURE AND SOLID VOLUME FRACTION ON VISCOSITY OF SiO₂-MWCNTS/SAE40 HYBRID NANOFLUID AS A COOLANT AND LUBRICANT IN HEAT ENGINES	AFRAND, M;NAJAFABADI , KN;AKBARI, M	APPL THERM ENG 102: 45–54 JUN 5 2016	ISLAMIC AZAD UNIV, NAJAFABAD BRANCH, DEPT MECH ENGN, NAJAFABAD, IRAN	10

A 1D NONLINEAR TWB MODEL ACCOUNTING FOR IN PLANE CROSS-SECTION DEFORMATION	GABRIELE, S; RIZZI, N; VARANO, V	INT J SOLIDS STRUCT 94-95: 170-178 SEP 2016	UNIV ROMA TRE, LAMS MODELLING & SIMULAT LAB, ROME, ITALY	10
WHY DO BATTERIES FAIL?	PALACIN, MR; DE GUIBERT, A	SCIENCE 351 (6273): 574-+ FEB 5 2016	INST CIENCIA MAT BARCELONA ICMAB CSIC, ALISTORE ERI, CAMPUS UAB, E-08193 BELLATERRA, CATALONIA, SPAIN; SAFT RES DEPT, 111 BLVD ALFRED DANAY, F-33074 BORDEAUX, FRANCE	10
A NOVEL AQUEOUS ASYMMETRIC SUPERCAPACITOR BASED ON PETAL-LIKE COBALT SELENIDE NANOSHEETS AND NITROGEN-DOPED POROUS CARBON NETWORKS ELECTRODES	PENG, H; MA, GF; SUN, KJ; ZHANG, ZG; LI, JD; ZHOU, XZ; LEI, ZQ	J POWER SOURCES 297: 351-358 NOV 30 2015	NORTHWEST NORMAL UNIV, COLL CHEM & CHEM ENGN, KEY LAB POLYMER MAT GANSU PROV, KEY LAB ECOENVIRONM RELATED POLYMER MAT, MINIST ED, LANZHOU 730070, PEOPLES R CHINA; LANZHOU CITY UNIV, COLL CHEM & ENVIRONM SCI, LANZHOU 730070, PEOPLES R CHINA	9
SOLAR CELL EFFICIENCY TABLES (VERSION 48)	GREEN, MA; EMERY, K; HISHIKAWA, Y; WARTA, W; DUNLOP, ED	PROG PHOTOVOLTAICS 24 (7): 905-913 JUL 2016	UNIV NEW S WALES, AUSTRALIAN CTR ADV PHOTOVOLTA, SYDNEY, NSW 2052, AUSTRALIA; NATL RENEWABLE ENERGY LAB, 15013 DENVER WEST PKWY, DENVER, CO 80401 USA; NATL INST ADV IND SCI & TECHNOL, RES CTR PHOTOVOLTA RCPV, CENT 2, UMEZONO 1-1-1, TSUKUBA, IBARAKI 3058568, JAPAN; FRAUNHOFER INST SOLAR ENERGY SYST, CHARACTERISAT & SIMULAT CALLAB CELLS, HEIDENHOFSTR 2, D-79110 FREIBURG, GERMANY; EUROPEAN COMMISS, JOINT RES CTR, RENEWABLE ENERGY UNIT, INST ENERGY, VIA E FERMI 2749, IT-21027 ISPRA, VA, ITALY	9
A COMPARATIVE STUDY OF ALL-VANADIUM AND IRON-CHROMIUM REDOX FLOW BATTERIES FOR LARGE-SCALE ENERGY STORAGE	ZENG, YK; ZHAO, TS; AN, L; ZHOU, XL; WEI, L	J POWER SOURCES 300: 438-443 DEC 30 2015	HONG KONG UNIV SCI & TECHNOL, DEPT MECH & AEROSP ENGN, KOWLOON, HONG KONG, PEOPLES R CHINA	9
A VANADIUM REDOX FLOW BATTERY MODEL INCORPORATING THE EFFECT OF ION CONCENTRATIONS ON ION MOBILITY	ZHOU, XL; ZHAO, TS; AN,	APPL ENERG 158: 157-166 NOV 15 2015	HONG KONG UNIV SCI & TECHNOL, DEPT MECH & AEROSP ENGN, KOWLOON, HONG KONG, PEOPLES R CHINA	9

	L; ZENG, YK; YAN, XH			
ASSESSING THE BENEFITS OF RESIDENTIAL DEMAND RESPONSE IN A REAL TIME DISTRIBUTION ENERGY MARKET	SIANO, P; SARNO, D	APPL ENERG 161: 533-551 JAN 1 2016	UNIV SALERNO, DEPT IND ENGN, FISCIANO, ITALY	9
METHANOL SYNTHESIS USING CAPTURED CO2 AS RAW MATERIAL: TECHNO-ECONOMIC AND ENVIRONMENTAL ASSESSMENT	PEREZ-FORTES , M; SCHONEBERG ER, JC; BOULAMANT I, A; TZIMAS, E	APPL ENERG 161: 718-732 JAN 1 2016	EUROPEAN COMMISS, JOINT RES CTR, INST ENERGY & TRANSPORT, NL-1755 ZG PETTEN, NETHERLANDS; CHEMSTN EUROPE GMBH, D-10117 BERLIN, GERMANY	9
DISTURBANCE-OBSERVER-BASED CONTROL AND RELATED METHODS-AN OVERVIEW	CHEN, WH; YANG, J; GUO, L; LI, SH	IEEE TRANS IND ELECTRON 63 (2): 1083-1095 FEB 2016	UNIV LOUGHBOROUGH, DEPT AERONAUT & AUTOMOT ENGN, LOUGHBOROUGH LE11 3TU, LEICS, ENGLAND; SOUTHEAST UNIV, SCH AUTOMAT, NANJING 210096, JIANGSU, PEOPLES R CHINA; BEIHANG UNIV, SCH ELECT ENGN & AUTOMAT, BEIJING 100083, PEOPLES R CHINA	9
HIGHER ALCOHOL-BIODIESEL-DIESEL BLENDS: AN APPROACH FOR IMPROVING THE PERFORMANCE, EMISSION, AND COMBUSTION OF A LIGHT-DUTY DIESEL ENGINE	IMDADUL, HK; MASJUKI, HH; KALAM, MA; ZULKIFLI, NWM; ALABDULK AREM, A; RASHED, MM; TEOH, YH; HOW, HG	ENERG CONV MANAGE 111: 174-185 MAR 1 2016	UNIV MALAYA, FAC ENGN, DEPT MECH ENGN, CTR ENERGY SCI, KUALA LUMPUR 50603, MALAYSIA; UNIV SAINS MALAYSIA, SCH MECH ENGN, ENGN CAMPUS, NIBONG TEBAL 14300, PENANG, MALAYSIA; KING SAUD UNIV, COLLAGE ENGN, DEPT MECH ENGN, RIYADH 11421, SAUDI ARABIA	9
DEVELOPING A WHOLE BUILDING COOLING ENERGY FORECASTING MODEL FOR ON-LINE OPERATION OPTIMIZATION USING PROACTIVE	LI, XW; WEN, J; BAI, EW	APPL ENERG 164: 69-88 FEB 15 2016	DREXEL UNIV, DEPT CIVIL ARCHITECTURAL & ENVIRONM ENGN, PHILADELPHIA, PA 19104 USA; UNIV IOWA, DEPT ELECT & COMP ENGN, IOWA CITY, IA 52242 USA	9

SYSTEM IDENTIFICATION				
HYDROGEN PRODUCTION VIA CHEMICAL LOOPING STEAM METHANE REFORMING PROCESS: EFFECT OF CERIUM AND CALCIUM PROMOTERS ON THE PERFORMANCE OF FE2O3/AL2O3 OXYGEN CARRIER	HAFIZI, A;RAHIMPOUR, MR;HASSANAJILI, S	APPL ENERG 165: 685-694 MAR 1 2016	SHIRAZ UNIV, SCH CHEM & PETR ENGN, DEPT CHEM ENGN, SHIRAZ 71345, IRAN;UNIV CALIF DAVIS, DEPT CHEM ENGN & MAT SCI, 1 SHIELDS AVE, DAVIS, CA 95616 USA	9
A DOUBLE-LAYER SMART CHARGING STRATEGY OF ELECTRIC VEHICLES TAKING ROUTING AND CHARGE SCHEDULING INTO ACCOUNT	YAGCITEKIN, B;UZUNOGLU, M	APPL ENERG 167: 407-419 APR 1 2016	YILDIZ TEKN UNIV, DEPT ELECT ENGN, TR-34220 ISTANBUL, TURKEY;INT BURCH UNIV, SARAJEVO 71000, BOSNIA & HERCEG	9
A NONLOCAL HIGHER-ORDER SHEAR DEFORMATION BEAM THEORY FOR VIBRATION ANALYSIS OF SIZE-DEPENDENT FUNCTIONALLY GRADED NANOBEAMS	EBRAHIMI, F;BARATI, MR	ARAB J SCI ENG 41 (5): 1679-1690 MAY 2016	IMAM KHOMEINI INT UNIV, FAC ENGN, DEPT MECH ENGN, QAZVIN, IRAN	9
FREE VIBRATION ANALYSIS OF NONLOCAL STRAIN GRADIENT BEAMS MADE OF FUNCTIONALLY GRADED MATERIAL	LI, L;LI, XB;HU, YJ	INT J ENG SCI 102: 77-92 MAY 2016	HUAZHONG UNIV SCI & TECHNOL, SCH MECH SCI & ENGN, STATE KEY LAB DIGITAL MFG EQUIPMENT & TECHNOL, WUHAN 430074, PEOPLES R CHINA	9
A MULTI-TASK LEARNING FRAMEWORK FOR HEAD POSE ESTIMATION UNDER TARGET MOTION	YAN, Y;RICCI, E;SUBRAMANIAN, R;LIU, GW;LANZ, O;SEBE, N	IEEE TRANS PATT ANAL MACH INT 38 (6): 1070-1083 JUN 2016	UNIV TRENTO, DEPT INFORMAT ENGN & COMP SCI, TRENTO, ITALY;FDN BRUNO KESSLER, TECHNOL VIS, I-06100 TRENTO, ITALY;UNIV PERUGIA, DEPT ENGN, I-06100 PERUGIA, ITALY;ADSC, SINGAPORE, SINGAPORE	9
EFFECTS OF TEMPERATURE AND CONCENTRATION ON THE VISCOSITY OF NANOFLUIDS MADE OF SINGLE-WALL CARBON NANOTUBES IN ETHYLENE GLYCOL	BARATPOUR, M;KARIMIPOUR, A;AFRAND, M;WONGWISES, S	INT COMMUN HEAT MASS TRANS 74: 108-113 MAY 2016	ISLAMIC AZAD UNIV, KHOMEINISHAHR BRANCH, DEPT MECH ENGN, ESFAHAN, IRAN;ISLAMIC AZAD UNIV, NAJAFABAD BRANCH, DEPT MECH ENGN, NAJAFABAD, IRAN;KING MONGKUTS UNIV TECHNOL THONBURI, FAC ENGN, DEPT MECH ENGN, FLUID MECH THERMAL ENGN & MULTIPHASE FLOW RES LAB, BANGKOK 10140, THAILAND	9
EFFECTS OF TEMPERATURE AND NANOPARTICLES CONCENTRATION ON	AFRAND, M;TOGHRAIE,	EXP THERM FLUID SCI 77: 38-44 OCT 2016	ISLAMIC AZAD UNIV, NAJAFABAD BRANCH, DEPT MECH ENGN, NAJAFABAD, IRAN;ISLAMIC AZAD UNIV, KHOMEINISHAHR	9

RHEOLOGICAL BEHAVIOR OF FE3O4-AG/EG HYBRID NANOFLUID: AN EXPERIMENTAL STUDY	D;RUHANI, B		BRANCH, DEPT MECH ENGN, ESFAHAN, IRAN	
NUMERICAL MODELLING OF DIESEL SPRAY USING THE EULERIAN MULTIPHASE APPROACH	VUJANOVIC, M;PETRANOVIC, Z;EDELBAUER, W;BALETA, J;DUIC, N	ENERG CONV MANAGE 104: 160-169 SP. ISS. SI NOV 1 2015	UNIV ZAGREB, FAC MECH ENGN & NAVAL ARCHITECTURE, ZAGREB 41000, CROATIA;AVL LIST GMBH, GRAZ, AUSTRIA	9
HIERARCHICAL THREE-DIMENSIONAL MICRO/NANO-ARCHITECTURE OF POLYANILINE NANOWIRES WRAPPED-ON POLYIMIDE NANOFIBERS FOR HIGH PERFORMANCE LITHIUM-ION BATTERY SEPARATORS	YE, W;ZHU, J;LIAO, XJ;JIANG, SH;LI, YH;FANG, H;HOU, HQ	J POWER SOURCES 299: 417-424 DEC 20 2015	JIANGXI NORMAL UNIV, DEPT CHEM & CHEM ENGN, NANCHANG 330022, PEOPLES R CHINA	8
CATALYTIC AEROBIC OXIDATION OF 5-HYDROXYMETHYLFURFURAL OVER VO2+ AND CU2+ IMMOBILIZED ON AMINO FUNCTIONALIZED SBA-15	LIU, XX;XIAO, JF;DING, H;ZHONG, WZ;XU, Q;SU, SP;YIN, DL	CHEM ENG J 283: 1315-1321 JAN 1 2016	HUNAN NORMAL UNIV, COLL CHEM & CHEM ENGN, NATL & LOCAL JOINT ENGN LAB NEW PETROCHEM MAT & F, KEY LAB CHEM BIOL & TRADIT CHINESE MED RES, MINIST, CHANGSHA 410081, HUNAN, PEOPLES R CHINA	8
TRANSIENT SIMULATION AND PARAMETRIC STUDY OF SOLAR-ASSISTED HEATING AND COOLING ABSORPTION SYSTEMS: AN ENERGETIC, ECONOMIC AND ENVIRONMENTAL (3E) ASSESSMENT	SHIRAZI, A;TAYLOR, RA;WHITE, SD;MORRISON, GL	RENEWABLE ENERGY 86: 955-971 FEB 2016	UNIV NEW S WALES, SCH MECH & MFG ENGN, KENSINGTON, NSW 2052, AUSTRALIA;CSIRO, ENERGY CTR, NEWCASTLE, NSW 2304, AUSTRALIA	8
EFFECTS OF ISO-BUTANOL/DIESEL AND N-PENTANOL/DIESEL BLENDS ON PERFORMANCE AND EMISSIONS OF A DI	KUMAR, BR;SARAVANAN, S	FUEL 170: 49-59 APR 15 2016	JEPPIAAR INST TECHNOL, DEPT MECH ENGN, IC ENGINES DIV, MADRAS, TAMIL NADU, INDIA;SRI VENKATESWARA COLL ENGN, DEPT MECH ENGN, ENGINE RES LAB, MADRAS, TAMIL NADU, INDIA	8

DIESEL ENGINE UNDER PREMIXED LTC (LOW TEMPERATURE COMBUSTION) MODE				
ADVANCED EXERGY ANALYSIS OF THE KALINA CYCLE APPLIED FOR LOW TEMPERATURE ENHANCED GEOTHERMAL SYSTEM	FALLAH, M; MOHAMMAD, S; MAHMOUDI, S; YARI, M; GHIASI, RA	ENERG CONV MANAGE 108: 190-201 JAN 15 2016	UNIV TABRIZ, DEPT MECH ENGN, 29 BAHMAN AVE, POB 51666-14766, TABRIZ, IRAN	8
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