

北京邮电大学 ESI 学科排名动态快报 (2022 年 5 月数据)

提要

美国基本科学指标 (Essential Science Indicator, ESI) 2022 年 5 月最新统计数据表明：我校工程、计算机、物理学、材料 4 个学科进入 ESI 排名。本期我校高被引论文共有 194 篇，热点论文 9 篇。

中国大陆高校情况

5 月 12 日，科睿唯安发布了最新一期的国内高校 ESI 统计数据，本期 (2022 年 5 月) 上榜机构总数为 7752，比 2022 年 3 月数据减少了 132 所；中国上榜机构数为 686 所 (大陆 584，台湾 85，香港 14，澳门 3)，比 2022 年 3 月数据增加了 3 所。中国上榜高校数为 438 所 (大陆 375，台湾 52，香港 8，澳门 3)，与 2022 年 3 月总数相同，但有新增高校，也有高校退出。大陆新增 7 所上榜高校：淮阴师范学院、江汉大学、成都信息工程大学、辽宁科技大学、中原工学院、西南林业大学、安徽财经大学。退出 2 所高校：中南民族大学、大连交通大学。

从国际排名来看，中国科学院大学依旧稳居中国内地高校第一宝座，目前位居全球第 41 名；清华大学位居国内高校第二名，国际排名为第 51 位。排在国内高校第三位的是北京大学，目前位居全球第 63 名，紧随其后的是上海交通大学 (国际排名 65 位)、浙江大学 (国际排名 70 位)。国际排名前 200 的高校还有复旦大学位列 109 位，中山大学位

列 113 位，华中科技大学位列 122 位，中国科学技术大学位列 130 位，南京大学位列 146 位，武汉大学位列 188 位，中南大学位列 189 位，四川大学位列 190 位，山东大学位列 197 位。

表 1 全国高校 ESI 排名情况

国内排名	国际排名	学校名称	前1%学科数	论文总数	总被引数	篇均被引	高被引论文
101	1139	宁波大学	8	14779	165467	11.2	157
102	1145	山东科技大学	7	12435	165081	13.28	436
103	1181	南京邮电大学	5	10960	158822	14.49	206
104	1210	河南大学	9	11823	152147	12.87	194
105	1216	北京林业大学	8	11364	150924	13.28	118
106	1227	太原理工大学	3	12894	148285	11.5	102
107	1243	青岛科技大学	3	10093	145555	14.42	194
108	1249	北京邮电大学	4	14611	144875	9.92	192
109	1282	山西大学	8	11652	141044	12.1	113
110	1285	广西大学	7	13220	140523	10.63	148

我校论文整体情况

2022 年 5 月 ESI 最新统计数据表明，我校 10 年 2 个月（2012 年 1 月 1 日至 2022 年 2 月 28 日）被 SCIE/SSCI 收录论文情况如下：本期（2022

年 5) 全球共有 7752 个机构进入世界 1%，我校位列第 1249 名，排名百分位 16.1%；其中中国大陆共有 584 个科研机构进入世界 1%，我校位列第 131 名，排名百分位 22.4%。

表 2 我校 ESI 整体情况分析 (ALL FIELDS 的排名数据)

学校	全球排名/入选前 1%机构数	全球排名百分位	与上期全球排名比较	WOS 论文数量	被引频次	篇均被引	高被引论文数
北京邮电大学	1249/7752	16.6%	+62	14,611	144,875	9.92	194

论文数量 14,611 篇，在入围的 7752 所机构中排名 717 名；

论文总被引次数 144,875 次，在入围的 7752 所机构中排名 1249 名；

论文篇均被引次数 9.92 次，在入围的 7752 所机构中排名 7213 名。

我校 ESI 学科排名情况

本期我校共有 4 个学科进入世界前 1%，分别为：计算机、工程、物理、材料。与 2022 年 3 月数据相比，其中计算机学科排名上升了 3 位；工程学科排名上升了 14 位；物理学科排名上升了 10 位；材料学科上升了 54 位。

表3 我校在全球研究机构中排名进入前1%的学科及排名（2022年5月）

学科	引用次数	引用次数排名	论文篇数	篇数排名	篇均被引次数	篇均被引次数排名
计算机	47,125	23/624	4,588	10/624	10.27	474/624
工程	38,118	242/1928	4,498	129/1928	8.47	1663/1928
物理	35,145	641/805	3548	243/805	9.91	794/805
材料	11,894	825/1118	554	920/1118	21.47	514/1118
ALL FIELDS	144,875	1249/7752	14,611	717/7752	9.92	7213/7752

我校热点论文 Hot Papers

热点论文（HOT PAPERS）是指近2年内发表并且在最近2个月内被引用次数进入所属学科领域前0.1%的论文。本期我校共有9篇文章入选全球热点论文行列。

表4 Hot CITED PAPERS FOR (BEIJING UNIV POSTS & TELECOMMUN)

Article Name	Authors	Source	Research Field	Times Cited	Publication Date
A SURVEY ON THE SECURITY OF BLOCKCHAIN SYSTEMS	LI, XQ;JIANG, P;CHEN, T;LUO, XP;WEN, QY	FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE 107: 841-853 JUN 2020	COMPUTER SCIENCE	250	2020
BLOCKCHAIN AND FEDERATED LEARNING FOR PRIVACY-PRESERVED DATA SHARING IN INDUSTRIAL IOT	LU, YL;HUANG, XH;DAI, YY;MAHARJAN, S;ZHANG, Y	IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 16 (6): 4177-4186 JUN 2020	ENGINEERING	139	2020
TOWARDS 6G WIRELESS COMMUNICATION NETWORKS: VISION, ENABLING TECHNOLOGIES, AND NEW PARADIGM SHIFTS	YOU, XH;WANG, CX;HUANG, J;GAO, XQ;ZHANG, ZC;WANG, M;HUANG, YM;ZHANG,	SCIENCE CHINA-INFORMATION SCIENCES 64 (1): - JAN 2021	COMPUTER SCIENCE	115	2021

	<p>C;JIANG, YX;WANG, JH;ZHU, M;SHENG, B;WANG, DM;PAN, ZW;ZHU, PC;YANG, Y;LIU, ZN;ZHANG, P;TAO, XF;LI, SQ;CHEN, Z;MA, XY;I, CL;HAN, SF;LI, K;PAN, CK;ZHENG, ZM;HANZO, L;SHEN, XM;GUO, YJ;DING, ZG;HAAS, H;TONG, W;ZHU, PY;YANG, GH;WANG, J;LARSSON, EG;NGO, HQ;HONG, W;WANG, HM;HOU, DB;CHEN, JX;CHEN, Z;HAO, ZC;LI, GY;TAFAZOLLI, R;GAO, Y;POOR, HV;FETTWEIS, GP;LIANG, YC</p>				
<p>A JOINT LEARNING AND COMMUNICATIONS FRAMEWORK FOR FEDERATED LEARNING OVER WIRELESS NETWORKS</p>	<p>CHEN, MZ;YANG, ZH;SAAD, W;YIN, CC;POOR, HV;CUI, SG</p>	<p>IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS 20 (1): 269-283 JAN 2021</p>	<p>COMPUTER SCIENCE</p>	<p>95</p>	<p>2021</p>
<p>COGNITIVE AMBC-NOMA</p>	<p>LI, XW;ZHENG,</p>	<p>IEEE TRANSACTIONS ON</p>	<p>ENGINEERIN</p>	<p>53</p>	<p>2021</p>

IOV-MTS NETWORKS WITH IQI: RELIABILITY AND SECURITY ANALYSIS	YK;ALSHEHRI, MD;HAL, LP;BALASUBRAMANIAN, V;ZENG, M;NIE, GF	INTELLIGENT TRANSPORTATION SYSTEMS : - SEP 24 2021	G		
BILINEAR AUTO-BACKLUND TRANSFORMATIONS AND SOLITON SOLUTIONS OF A (3+1)-DIMENSIONAL GENERALIZED NONLINEAR EVOLUTION EQUATION FOR THE SHALLOW WATER WAVES	SHEN, Y;TIAN, B	APPLIED MATHEMATICS LETTERS 122: - DEC 2021	MATHEMATICS	33	2021
OPTICAL WAVES/MODES IN A MULTICOMPONENT INHOMOGENEOUS OPTICAL FIBER VIA A THREE-COUPLED VARIABLE-COEFFICIENT NONLINEAR SCHRÖDINGER SYSTEM	GAO, XY;GUO, YJ;SHAN, WR	APPLIED MATHEMATICS LETTERS 120: - OCT 2021	MATHEMATICS	24	2021
ENABLING MASSIVE IOT TOWARD 6G: A COMPREHENSIVE SURVEY	GUO, FX;YU, FR;ZHANG, HL;LI, X;JI, H;LEUNG, VCM	IEEE INTERNET OF THINGS JOURNAL 8 (15): 11891-11915 AUG 1 2021	COMPUTER SCIENCE	18	2021
CERTAIN ELECTROMAGNETIC WAVES IN A FERROMAGNETIC FILM	GAO, XY;GUO, YJ;SHAN, WR;YIN, HM;DU, XX	COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION 105: - FEB 2022	PHYSICS	9	2022

我校高被引论文及其学科分布

高被引论文（highly Cited papers）是指过去11年中所发表的论文，被引用频次在该学科中相同发表年的论文中排名前1%的论文。本期ESI

数据显示，我校高被引论文共计194篇，表5具体列出了各学科高被引论文数量，其中计算机63篇位居第一，物理46篇排名第二，工程44篇排名第三位，数学18篇列第四位。除以上我校优势学科外，本期材料学科、社会科学、化学、环境与生态、地球科学、分子生物学与遗传学也各有高被引论文的贡献。194篇高被引论文的学科分布见下表：

表 5 北京邮电大学高被引论文学科分布（2022 年 5 月数据）排序

排序	学科	高被引论文数
1	计算机 COMPUTER SCIENCE	63
2	物理 PHYSICS	46
3	工程 ENGINEERING	44
4	数学 MATHEMATICS	18
5	材料 MATERIALS SCIENCE	13
6	社会科学 SOCIAL SCIENCES, GENERAL	3
7	化学 CHEMISTRY	3
8	环境与生态 ENVIRONMENT/ECOLOGY	2
9	地球科学 GEOSCIENCES	1
10	分子生物学与遗传学 MOLECULAR BIOLOGY & GENETICS	1

表 6 HIGHLY CITED PAPERS FOR (BEIJING UNIV POSTS & TELECOMMUN)

Article Name	Authors	Source	Research Field	Times Cited	Publication Date
COOPERATIVE NON-ORTHOGONAL MULTIPLE ACCESS IN 5G SYSTEMS	DING, ZG;PENG, MG;POOR, HV	IEEE COMMUNICATIONS LETTERS 19 (8): 1462-1465 AUG 2015	COMPUTER SCIENCE	598	2015
RISE OF SILICENE: A COMPETITIVE 2D MATERIAL	ZHAO, JJ;LIU, HS;YU, ZM;QUHE, RG;ZHOU, S;WANG, YY;LIU,	PROGRESS IN MATERIALS SCIENCE 83: 24-151 OCT 2016	MATERIALS SCIENCE	483	2016

	CC;ZHONG, HX;HAN, NN;LU, J;YAO, YG;WU, KH				
A SURVEY ON MOBILE EDGE NETWORKS: CONVERGENCE OF COMPUTING, CACHING AND COMMUNICATIONS	WANG, S;ZHANG, X;ZHANG, Y;WANG, L;YANG, J;WANG, WB	IEEE ACCESS 5: 6757-6779 2017	ENGINEERING	349	2017
CONSORTIUM BLOCKCHAIN FOR SECURE ENERGY TRADING IN INDUSTRIAL INTERNET OF THINGS	LI, ZT;KANG, JW;YU, R;YE, DD;DENG, QY;ZHANG, Y	IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 14 (8): 3690-3700 AUG 2018	ENGINEERING	345	2018
OVERVIEW OF MILLIMETER WAVE COMMUNICATIONS FOR FIFTH-GENERATION (5G) WIRELESS NETWORKS-WITH A FOCUS ON PROPAGATION MODELS	RAPPAPORT, TS;XING, YC;MACCARTNEY, GR;MOLISCH, AF;MELLIOS, E;ZHANG, JH	IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION 65 (12): 6213-6230 PART 1 DEC 2017	ENGINEERING	342	2017
ONE-STEP SYNTHESIS OF EASY-RECYCLING TiO ₂ -RGO NANOCOMPOSITE PHOTOCATALYSTS WITH ENHANCED PHOTOCATALYTIC ACTIVITY	WANG, P;WANG, J;WANG, XF;YU, HG;YU, JG;LEI, M;WANG, YG	APPLIED CATALYSIS B-ENVIRONMENTAL 132: 452-459 MAR 27 2013	CHEMISTRY	329	2013
CACHING IN THE SKY: PROACTIVE DEPLOYMENT OF CACHE-ENABLED UNMANNED AERIAL VEHICLES FOR OPTIMIZED QUALITY-OF-EXPERIENCE	CHEN, MZ;MOZAFFARI, M;SAAD, W;YIN, CC;DEBBAH, M;HONG, CS	IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS 35 (5): 1046-1061 MAY 2017	COMPUTER SCIENCE	319	2017
DEEP VISUAL DOMAIN ADAPTATION: A SURVEY	WANG, M;DENG, WH	NEUROCOMPUTING 312: 135-153 OCT 27 2018	COMPUTER SCIENCE	303	2018
FABRICATION OF BETA-GA ₂ O ₃ THIN FILMS AND SOLAR-BLIND PHOTODETECTORS BY LASER MBE TECHNOLOGY	GUO, DY;WU, ZP;LI, PG;AN, YH;LIU, H;GUO, XC;YAN, H;WANG, GF;SUN, CL;LI, LH;TANG, WH	OPTICAL MATERIALS EXPRESS 4 (5): 1067-1076 MAY 1 2014	MATERIALS SCIENCE	299	2014
EXTENDED SRC: UNDERSAMPLED FACE RECOGNITION VIA INTRACLASS VARIANT	DENG, WH;HU, JN;GUO, J	IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE	ENGINEERING	292	2012

DICTIONARY		INTELLIGENCE 34 (9): 1864-1870 SEP 2012			
OXYGEN VACANCY TUNED OHMIC-SCHOTTKY CONVERSION FOR ENHANCED PERFORMANCE IN BETA-GA2O3 SOLAR-BLIND ULTRAVIOLET PHOTODETECTORS	GUO, DY;WU, ZP;AN, YH;GUO, XC;CHU, XL;SUN, CL;LI, LH;LI, PG;TANG, WH	APPLIED PHYSICS LETTERS 105 (2): - JUL 14 2014	PHYSICS	278	2014
FOG-COMPUTING-BASED RADIO ACCESS NETWORKS: ISSUES AND CHALLENGES	PENG, MG;YAN, S;ZHANG, KC;WANG, CG	IEEE NETWORK 30 (4): 46-53 JUL-AUG 2016	COMPUTER SCIENCE	261	2016
A SURVEY ON THE SECURITY OF BLOCKCHAIN SYSTEMS	LI, XQ;JIANG, P;CHEN, T;LUO, XP;WEN, QY	FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE 107: 841-853 JUN 2020	COMPUTER SCIENCE	250	2020
IN-BAND FULL-DUPLEX RELAYING: A SURVEY, RESEARCH ISSUES AND CHALLENGES	LIU, G;YU, FR;JI, H;LEUNG, VCM;LI, X	IEEE COMMUNICATIONS SURVEYS AND TUTORIALS 17 (2): 500-524 2015	COMPUTER SCIENCE	244	2015
A VISION OF IOT: APPLICATIONS, CHALLENGES, AND OPPORTUNITIES WITH CHINA PERSPECTIVE	CHEN, SZ;XU, H;LIU, DK;HU, B;WANG, HC	IEEE INTERNET OF THINGS JOURNAL 1 (4): 349-359 AUG 2014	COMPUTER SCIENCE	240	2014
APPLICATION OF SMART ANTENNA TECHNOLOGIES IN SIMULTANEOUS WIRELESS INFORMATION AND POWER TRANSFER	DING, ZG;ZHONG, CJ;NG, DWK;PENG, MG;SURAWEEERA, HA;SCHOBER, R;POOR, HV	IEEE COMMUNICATIONS MAGAZINE 53 (4): 86-93 APR 2015	COMPUTER SCIENCE	235	2015
HETEROGENEOUS CLOUD RADIO ACCESS NETWORKS: A NEW PERSPECTIVE FOR ENHANCING SPECTRAL AND ENERGY EFFICIENCIES	PENG, MG;LI, Y;JIANG, JM;LI, J;WANG, CG	IEEE WIRELESS COMMUNICATIONS 21 (6): 126-135 DEC 2014	COMPUTER SCIENCE	231	2014
A NEW USER SIMILARITY MODEL TO IMPROVE THE	LIU, HF;HU, Z;MIAN, A;TIAN, H;ZHU, XZ	KNOWLEDGE-BASED SYSTEMS 56: 156-166	COMPUTER SCIENCE	230	2014

ACCURACY OF COLLABORATIVE FILTERING		JAN 2014			
SIGNIFICANTLY ENHANCED ENERGY STORAGE PERFORMANCE PROMOTED BY ULTIMATE SIZED FERROELECTRIC BATIO ₃ FILLERS IN NANOCOMPOSITE FILMS	HAO, YN;WANG, XH;BI, K;ZHANG, JM;HUANG, YH;WU, LW;ZHAO, PY;XU, K;LEI, M;LI, LT	NANO ENERGY 31: 49-56 JAN 2017	MATERIALS SCIENCE	222	2017
BLOCKCHAIN-BASED DECENTRALIZED TRUST MANAGEMENT IN VEHICULAR NETWORKS	YANG, Z;YANG, K;LEI, L;ZHENG, K;LEUNG, VCM	IEEE INTERNET OF THINGS JOURNAL 6 (2): 1495-1505 APR 2019	COMPUTER SCIENCE	222	2019
HETEROGENEOUS VEHICULAR NETWORKING: A SURVEY ON ARCHITECTURE, CHALLENGES, AND SOLUTIONS	ZHENG, K;ZHENG, Q;CHATZIMISIOS, P;XIANG, W;ZHOU, YQ	IEEE COMMUNICATIONS SURVEYS AND TUTORIALS 17 (4): 2377-2396 2015	COMPUTER SCIENCE	216	2015
ROLL-TO-ROLL PRODUCTION OF TRANSPARENT SILVER-NANOFIBER-NETWORK ELECTRODES FOR FLEXIBLE ELECTROCHROMIC SMART WINDOWS	LIN, S;BAI, XP;WANG, HY;WANG, HL;SONG, JN;HUANG, K;WANG, C;WANG, N;LI, B;LEI, M;WU, H	ADVANCED MATERIALS 29 (41): - NOV 6 2017	MATERIALS SCIENCE	214	2017
RESOURCE ALLOCATION IN SPECTRUM-SHARING OFDMA FEMTOCELLS WITH HETEROGENEOUS SERVICES	ZHANG, HJ;JIANG, CX;BEAULIEU, NC;CHU, XL;WEN, XM;TAO, MX	IEEE TRANSACTIONS ON COMMUNICATIONS 62 (7): 2366-2377 JUL 2014	COMPUTER SCIENCE	207	2014
A SURVEY OF HETEROGENEOUS INFORMATION NETWORK ANALYSIS	SHI, C;LI, YT;ZHANG, JW;SUN, YZ;YU, PS	IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING 29 (1): 17-37 JAN 1 2017	ENGINEERING	205	2017
SELF-POWERED ULTRAVIOLET PHOTODETECTOR WITH SUPERHIGH PHOTORESPONSIVITY (3.05 A/W) BASED ON THE GAN/SN:GA ₂ O ₃ PN JUNCTION	GUO, DY;SU, YL;SHI, HZ;LI, PG;ZHAO, N;YE, JH;WANG, SL;LIU, AP;CHEN, ZW;LI, CR;TANG, WH	ACS NANO 12 (12): 12827-12835 DEC 2018	MATERIALS SCIENCE	204	2018
CRC-AIDED DECODING OF	NIU, K;CHEN, K	IEEE	COMPUTER	203	2012

POLAR CODES		COMMUNICATIONS LETTERS 16 (10): 1668-1671 OCT 2012	SCIENCE		
AN OVERVIEW OF INTERNET OF VEHICLES	YANG, FC;WANG, SG;LI, JL;LIU, ZH;SUN, QB	CHINA COMMUNICATIONS 11 (10): 1-15 OCT 2014	COMPUTER SCIENCE	200	2014
SYSTEM ARCHITECTURE AND KEY TECHNOLOGIES FOR 5G HETEROGENEOUS CLOUD RADIO ACCESS NETWORKS	PENG, MG;LI, Y;ZHAO, ZY;WANG, CG	IEEE NETWORK 29 (2): 6-14 MAR-APR 2015	COMPUTER SCIENCE	200	2015
ARTIFICIAL NEURAL NETWORKS-BASED MACHINE LEARNING FOR WIRELESS NETWORKS: A TUTORIAL	CHEN, MZ;CHALLITA, U;SAAD, W;YIN, CC;DEBBAH, M	IEEE COMMUNICATIONS SURVEYS AND TUTORIALS 21 (4): 3039-3071 2019	COMPUTER SCIENCE	195	2019
ULTRAFINE CORE-SHELL BATIO ₃ @SIO ₂ STRUCTURES FOR NANOCOMPOSITE CAPACITORS WITH HIGH ENERGY DENSITY	BI, K;BI, MH;HAO, YN;LUO, W;CAI, ZM;WANG, XH;HUANG, YH	NANO ENERGY 51: 513-523 SEP 2018	MATERIALS SCIENCE	195	2018
OPPORTUNITIES IN MOBILE CROWD SENSING	MA, HD;ZHAO, D;YUAN, PY	IEEE COMMUNICATIONS MAGAZINE 52 (8): 29-35 AUG 2014	COMPUTER SCIENCE	186	2014
ICED PHOTOCHEMICAL REDUCTION TO SYNTHESIZE ATOMICALLY DISPERSED METALS BY SUPPRESSING NANOCRYSTAL GROWTH	WEI, HH;HUANG, K;WANG, D;ZHANG, RY;GE, BH;MA, JY;WEN, B;ZHANG, S;LI, QY;LEI, M;ZHANG, C;IRAWAN, J;LIU, LM;WU, H	NATURE COMMUNICATIONS 8: - NOV 14 2017	CHEMISTRY	186	2017
NOVEL IMAGE COMPRESSION-ENCRYPTION HYBRID ALGORITHM BASED ON KEY-CONTROLLED MEASUREMENT MATRIX IN COMPRESSIVE SENSING	ZHOU, NR;ZHANG, AD;ZHENG, F;GONG, LH	OPTICS AND LASER TECHNOLOGY 62: 152-160 OCT 2014	ENGINEERING	182	2014
INTERFACIAL PROPERTIES OF MONOLAYER AND BILAYER MOS ₂ CONTACTS WITH METALS: BEYOND THE	ZHONG, HX;QUHE, RG;WANG, YY;NI, ZY;YE, M;SONG, ZG;PAN, YY;YANG,	SCIENTIFIC REPORTS 6: - MAR 1 2016	PHYSICS	181	2016

ENERGY BAND CALCULATIONS	JB;YANG, L;LEI, M;SHI, JJ;LU, J				
HETEROGENEOUS INFORMATION NETWORK EMBEDDING FOR RECOMMENDATION	SHI, C;HU, BB;ZHAO, WX;YU, PS	IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING 31 (2): 357-370 FEB 1 2019	ENGINEERING	175	2019
PHASE-SELECTIVE SYNTHESIS OF 1T MOS2 MONOLAYERS AND HETEROPHASE BILAYERS	LIU, LN;WU, JX;WU, LY;YE, M;LIU, XZ;WANG, Q;HOU, SY;LU, PF;SUN, LF;ZHENG, JY;XING, L;GU, L;JIANG, XW;XIE, LM;JIAO, LY	NATURE MATERIALS 17 (12): 1108-+ DEC 2018	MATERIALS SCIENCE	175	2018
MACHINE LEARNING AND DEEP LEARNING METHODS FOR CYBERSECURITY	XIN, Y;KONG, LS;LIU, Z;CHEN, YL;LI, YM;ZHU, HL;GAO, MC;HOU, HX;WANG, CH	IEEE ACCESS 6: 35365-35381 2018	ENGINEERING	169	2018
AN EFFICIENT AND SECURITY DYNAMIC IDENTITY BASED AUTHENTICATION PROTOCOL FOR MULTI-SERVER ARCHITECTURE USING SMART CARDS	LI, X;XIONG, YP;MA, J;WANG, WD	JOURNAL OF NETWORK AND COMPUTER APPLICATIONS 35 (2): 763-769 MAR 2012	COMPUTER SCIENCE	169	2012
FRONTHAUL-CONSTRAINED CLOUD RADIO ACCESS NETWORKS: INSIGHTS AND CHALLENGES	PENG, MG;WANG, CG;LAU, V;POOR, HV	IEEE WIRELESS COMMUNICATIONS 22 (2): 152-160 APR 2015	COMPUTER SCIENCE	166	2015
ENERGY-EFFICIENT RESOURCE ASSIGNMENT AND POWER ALLOCATION IN HETEROGENEOUS CLOUD RADIO ACCESS NETWORKS	PENG, MG;ZHANG, KC;JIANG, JM;WANG, JH;WANG, WB	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY 64 (11): 5275-5287 NOV 2015	ENGINEERING	166	2015
COLLABORATIVE WEB SERVICE QOS PREDICTION VIA NEIGHBORHOOD INTEGRATED MATRIX FACTORIZATION	ZHENG, ZB;MA, H;LYU, MR;KING, I	IEEE TRANSACTIONS ON SERVICES COMPUTING 6 (3): 289-299 JUL-SEP 2013	COMPUTER SCIENCE	165	2013
PHYSARUM OPTIMIZATION:	LIU, L;SONG,	IEEE TRANSACTIONS	COMPUTER	163	2015

A BIOLOGY-INSPIRED ALGORITHM FOR THE STEINER TREE PROBLEM IN NETWORKS	YN;ZHANG, HY;MA, HD;VASILAKOS, AV	ON COMPUTERS 64 (3): 819-U14 MAR 2015	SCIENCE		
RECENT ADVANCES IN CLOUD RADIO ACCESS NETWORKS: SYSTEM ARCHITECTURES, KEY TECHNIQUES, AND OPEN ISSUES	PENG, MG;SUN, YH;LI, XL;MAO, ZD;WANG, CG	IEEE COMMUNICATIONS SURVEYS AND TUTORIALS 18 (3): 2282-2308 2016	COMPUTER SCIENCE	161	2016
TUNGSTEN DISULPHIDE FOR ULTRASHORT PULSE GENERATION IN ALL-FIBER LASERS	LIU, WJ;PANG, LH;HAN, HN;BI, K;LEI, M;WEI, ZY	NANOSCALE 9 (18): 5806-5811 MAY 14 2017	PHYSICS	158	2017
IMAGE COMPRESSION AND ENCRYPTION SCHEME BASED ON 2D COMPRESSIVE SENSING AND FRACTIONAL MELLIN TRANSFORM	ZHOU, NR;LI, HL;WANG, D;PAN, SM;ZHOU, ZH	OPTICS COMMUNICATIONS 343: 10-21 MAY 15 2015	PHYSICS	158	2015
RECENT ADVANCES IN THE FUNCTIONAL 2D PHOTONIC AND OPTOELECTRONIC DEVICES	WANG, XT;CUI, Y;LI, T;LEI, M;LI, JB;WEI, ZM	ADVANCED OPTICAL MATERIALS 7 (3): - FEB 2019	MATERIALS SCIENCE	154	2019
TUNGSTEN DISULFIDE SATURABLE ABSORBERS FOR 67 FS MODE-LOCKED ERBIUM-DOPED FIBER LASERS	LIU, WJ;PANG, LH;HAN, HN;LIU, ML;LEI, M;FANG, SB;TENG, H;WEI, ZY	OPTICS EXPRESS 25 (3): 2950-2959 FEB 6 2017	PHYSICS	153	2017
LTE-V: A TD-LTE-BASED V2X SOLUTION FOR FUTURE VEHICULAR NETWORK	CHEN, SZ;HU, JL;SHI, Y;ZHAO, L	IEEE INTERNET OF THINGS JOURNAL 3 (6): 997-1005 DEC 2016	COMPUTER SCIENCE	152	2016
ON THE OUTAGE PROBABILITY OF DEVICE-TO-DEVICE-COMMUNICATION-ENABLED MULTICHANNEL CELLULAR NETWORKS: AN RSS-THRESHOLD-BASED PERSPECTIVE	LIU, JJ;NISHIYAMA, H;KATO, N;GUO, J	IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS 34 (1): 163-175 JAN 2016	COMPUTER SCIENCE	150	2016
MULTIUSER JOINT TASK OFFLOADING AND	LYU, XC;TIAN, H;SENGUL, C;ZHANG, P	IEEE TRANSACTIONS ON VEHICULAR	ENGINEERING	150	2017

RESOURCE OPTIMIZATION IN PROXIMATE CLOUDS		TECHNOLOGY 66 (4): 3435-3447 APR 2017			
UPLINK NONORTHOGONAL MULTIPLE ACCESS IN 5G SYSTEMS	ZHANG, NB;WANG, J;KANG, GX;LIU, Y	IEEE COMMUNICATIONS LETTERS 20 (3): 458-461 MAR 2016	COMPUTER SCIENCE	148	2016
THE EFFECT OF FINANCIAL DEVELOPMENT ON ECOLOGICAL FOOTPRINT IN BRI COUNTRIES: EVIDENCE FROM PANEL DATA ESTIMATION	BALOCH, MA;ZHANG, JJ;IQBAL, K;IQBAL, Z	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH 26 (6): 6199-6208 FEB 2019	ENVIRONM ENT/ECOLOG Y	148	2019
RADIO RESOURCE ALLOCATION IN LTE-ADVANCED CELLULAR NETWORKS WITH M2M COMMUNICATIONS	ZHENG, K;HU, FL;WANG, WB;XIANG, W;DOHLER, M	IEEE COMMUNICATIONS MAGAZINE 50 (7): 184-192 JUL 2012	COMPUTER SCIENCE	147	2012
WATER-WAVE SYMBOLIC COMPUTATION FOR THE EARTH, ENCELADUS AND TITAN: THE HIGHER-ORDER BOUSSINESQ-BURGERS SYSTEM, AUTO- AND NON-AUTO-BACKLUND TRANSFORMATIONS	GAO, XY;GUO, YJ;SHAN, WR	APPLIED MATHEMATICS LETTERS 104: - JUN 2020	MATHEMAT ICS	147	2020
USER-CENTRIC ULTRA-DENSE NETWORKS FOR 5G: CHALLENGES, METHODOLOGIES, AND DIRECTIONS	CHEN, SZ;QIN, F;HU, B;LI, X;CHEN, ZL	IEEE WIRELESS COMMUNICATIONS 23 (2): 78-85 APR 2016	COMPUTER SCIENCE	145	2016
PATTERN DIVISION MULTIPLE ACCESS-A NOVEL NONORTHOGONAL MULTIPLE ACCESS FOR FIFTH-GENERATION RADIO NETWORKS	CHEN, SZ;REN, B;GAO, QB;KANG, SL;SUN, SH;NIU, K	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY 66 (4): 3185-3196 APR 2017	ENGINEERI NG	140	2017
BLOCKCHAIN AND FEDERATED LEARNING FOR PRIVACY-PRESERVED DATA SHARING IN INDUSTRIAL IOT	LU, YL;HUANG, XH;DAI, YY;MAHARJAN, S;ZHANG, Y	IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 16 (6): 4177-4186 JUN 2020	ENGINEERI NG	139	2020
SELF-ADAPTIVE LEARNING	ZUO, XQ;ZHANG,	IEEE TRANSACTIONS	ENGINEERI	139	2014

PSO-BASED DEADLINE CONSTRAINED TASK SCHEDULING FOR HYBRID IAAS CLOUD	GX;TAN, W	ON AUTOMATION SCIENCE AND ENGINEERING 11 (2): 564-573 APR 2014	NG		
PAIRWISE ROTATION INVARIANT CO-OCCURRENCE LOCAL BINARY PATTERN	QI, XB;XIAO, R;LI, CG;QIAO, Y;GUO, J;TANG, XO	IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE 36 (11): 2199-2213 NOV 2014	ENGINEERI NG	138	2014
EDGE COMPUTING TECHNOLOGIES FOR INTERNET OF THINGS: A PRIMER	AI, Y;PENG, MG;ZHANG, KC	DIGITAL COMMUNICATIONS AND NETWORKS 4 (2): 77-86 APR 2018	COMPUTER SCIENCE	138	2018
MATHEMATICAL VIEW WITH OBSERVATIONAL/EXPERIME NTAL CONSIDERATION ON CERTAIN (2+1)-DIMENSIONAL WAVES IN THE COSMIC/LABORATORY DUSTY PLASMAS	GAO, XY	APPLIED MATHEMATICS LETTERS 91: 165-172 MAY 2019	MATHEMAT ICS	135	2019
SODIUM METAL ANODES FOR ROOM-TEMPERATURE SODIUM-ION BATTERIES: APPLICATIONS, CHALLENGES AND SOLUTIONS	ZHENG, XY;BOMMIER, C;LUO, W;JIANG, LH;HAO, YN;HUANG, YH	ENERGY STORAGE MATERIALS 16: 6-23 JAN 2019	MATERIALS SCIENCE	132	2019
A SURVEY OF BLOCKCHAIN TECHNOLOGY APPLIED TO SMART CITIES: RESEARCH ISSUES AND CHALLENGES	XIE, JF;TANG, HE;HUANG, T;YU, FR;XIE, RC;LIU, J;LIU, YJ	IEEE COMMUNICATIONS SURVEYS AND TUTORIALS 21 (3): 2794-2830 2019	COMPUTER SCIENCE	130	2019
DARK SOLITONS IN WS ₂ ERBIUM-DOPED FIBER LASERS	LIU, WJ;PANG, LH;HAN, HN;SHEN, ZW;LEI, M;TENG, H;WEI, ZY	PHOTONICS RESEARCH 4 (3): 111-114 JUN 1 2016	PHYSICS	129	2016
BIG DATA-DRIVEN OPTIMIZATION FOR MOBILE NETWORKS TOWARD 5G	ZHENG, K;YANG, Z;ZHANG, K;CHATZIMISIOS, P;YANG, K;XIANG, W	IEEE NETWORK 30 (1): 44-51 JAN-FEB 2016	COMPUTER SCIENCE	124	2016
BLIND IMAGE QUALITY	XU, JT;YE, P;LI, QH;DU,	IEEE TRANSACTIONS	ENGINEERI	123	2016

ASSESSMENT BASED ON HIGH ORDER STATISTICS AGGREGATION	HQ;LIU, Y;DOERMANN, D	ON IMAGE PROCESSING 25 (9): 4444-4457 SEP 2016	NG		
DURABLE AND EFFICIENT HOLLOW POROUS OXIDE SPINEL MICROSPHERES FOR OXYGEN REDUCTION	WANG, H;LIU, RP;LI, YT;LU, XJ;WANG, Q;ZHAO, SQ;YUAN, KJ;CUI, ZM;LI, X;XIN, S;ZHANG, R;LEI, M;LIN, ZQ	JOULE 2 (2): 337-348 FEB 21 2018	ENGINEERING	122	2018
ON THE SPECTRAL EFFICIENCY AND SECURITY ENHANCEMENTS OF NOMA ASSISTED MULTICAST-UNICAST STREAMING	DING, ZG;ZHAO, ZY;PENG, MG;POOR, HV	IEEE TRANSACTIONS ON COMMUNICATIONS 65 (7): 3151-3163 JUL 2017	COMPUTER SCIENCE	121	2017
A SURVEY OF MACHINE LEARNING TECHNIQUES APPLIED TO SOFTWARE DEFINED NETWORKING (SDN): RESEARCH ISSUES AND CHALLENGES	XIE, JF;YU, FR;HUANG, T;XIE, RC;LIU, J;WANG, CM;LIU, YJ	IEEE COMMUNICATIONS SURVEYS AND TUTORIALS 21 (1): 393-430 2019	COMPUTER SCIENCE	121	2019
USER SCHEDULING AND RESOURCE ALLOCATION IN HETNETS WITH HYBRID ENERGY SUPPLY: AN ACTOR-CRITIC REINFORCEMENT LEARNING APPROACH	WEI, YF;YU, FR;SONG, M;HAN, Z	IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS 17 (1): 680-692 JAN 2018	COMPUTER SCIENCE	118	2018
DIRECT SPRAY-COATING OF HIGHLY ROBUST AND TRANSPARENT AG NANOWIRES FOR ENERGY SAVING WINDOWS	LIN, S;WANG, HY;ZHANG, XN;WANG, D;ZU, D;SONG, JA;LIU, ZL;HUANG, Y;HUANG, K;TAO, NA;LI, ZW;BAI, XP;LI, B;LEI, M;YU, ZF;WU, H	NANO ENERGY 62: 111-116 AUG 2019	MATERIALS SCIENCE	117	2019
DESIGN OF OPTICALLY TRANSPARENT ANTENNA WITH DIRECTIONAL RADIATION PATTERNS	YAO, Y;CHEN, WZ;CHEN, XD;YU, JS	INTERNATIONAL JOURNAL OF ANTENNAS AND PROPAGATION 2017: - 2017	ENGINEERING	116	2017
TOWARDS 6G WIRELESS	YOU, XH;WANG,	SCIENCE	COMPUTER	115	2021

COMMUNICATION NETWORKS: VISION, ENABLING TECHNOLOGIES, AND NEW PARADIGM SHIFTS	CX;HUANG, J;GAO, XQ;ZHANG, ZC;WANG, M;HUANG, YM;ZHANG, C;JIANG, YX;WANG, JH;ZHU, M;SHENG, B;WANG, DM;PAN, ZW;ZHU, PC;YANG, Y;LIU, ZN;ZHANG, P;TAO, XF;LI, SQ;CHEN, Z;MA, XY;I, CL;HAN, SF;LI, K;PAN, CK;ZHENG, ZM;HANZO, L;SHEN, XM;GUO, YJ;DING, ZG;HAAS, H;TONG, W;ZHU, PY;YANG, GH;WANG, J;LARSSON, EG;NGO, HQ;HONG, W;WANG, HM;HOU, DB;CHEN, JX;CHEN, Z;HAO, ZC;LI, GY;TAFAZOLLI, R;GAO, Y;POOR, HV;FETTWEIS, GP;LIANG, YC	CHINA-INFORMATION SCIENCES 64 (1): - JAN 2021	SCIENCE		
HIGH-PERFORMANCE SUB-10 NM MONOLAYER BI2O2SE TRANSISTORS	QUHE, RG;LIU, JC;WU, JX;YANG, J;WANG, YY;LI, QH;LI, TR;GUO, Y;YANG, JB;PENG, HL;LEI, M;LU, J	NANOSCALE 11 (2): 532-540 JAN 14 2019	PHYSICS	114	2019
INTELLIGENT CONSTELLATION DIAGRAM ANALYZER USING CONVOLUTIONAL NEURAL NETWORK-BASED DEEP LEARNING	WANG, DS;ZHANG, M;LI, J;LI, Z;LI, JQ;SONG, C;CHEN, X	OPTICS EXPRESS 25 (15): 17150-17166 JUL 24 2017	PHYSICS	113	2017
DOES GLOBALIZATION INCREASE THE ECOLOGICAL FOOTPRINT? EMPIRICAL EVIDENCE FROM MALAYSIA	AHMED, Z;WANG, ZH;MAHMOOD, F;HAFEEZ, M;ALI, N	ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH 26 (18): 18565-18582 JUN 2019	ENVIRONM ENT/ECOLOG Y	112	2019
OPTICAL PROPERTIES AND APPLICATIONS FOR	LIU, WJ;ZHU, YN;LIU, ML;WEN, B;FANG,	PHOTONICS RESEARCH 6 (3):	PHYSICS	110	2018

MOS2-SB2TE3-MOS2 HETEROSTRUCTURE MATERIALS	SB;TENG, H;LEI, M;LIU, LM;WEI, ZY	220-227 MAR 1 2018			
TOWARD EFFICIENT CONTENT DELIVERY FOR AUTOMATED DRIVING SERVICES: AN EDGE COMPUTING SOLUTION	YUAN, Q;ZHOU, HB;LI, JL;LIU, ZH;YANG, FC;SHEN, XM	IEEE NETWORK 32 (1): 80-86 JAN-FEB 2018	COMPUTER SCIENCE	108	2018
MINING CUSTOMER REQUIREMENTS FROM ONLINE REVIEWS: A PRODUCT IMPROVEMENT PERSPECTIVE	QI, JY;ZHANG, ZP;JEON, SM;ZHOU, YQ	INFORMATION & MANAGEMENT 53 (8): 951-963 SP. ISS. SI DEC 2016	SOCIAL SCIENCES, GENERAL	108	2016
SURVEY ON BLOCKCHAIN FOR INTERNET OF THINGS	WANG, X;ZHA, X;NI, W;LIU, RP;GUO, YJ;NIU, XX;ZHENG, KF	COMPUTER COMMUNICATIONS 136: 10-29 FEB 2019	COMPUTER SCIENCE	107	2019
APPLICATION OF MACHINE LEARNING IN WIRELESS NETWORKS: KEY TECHNIQUES AND OPEN ISSUES	SUN, YH;PENG, MG;ZHOU, YC;HUANG, YZ;MAO, SW	IEEE COMMUNICATIONS SURVEYS AND TUTORIALS 21 (4): 3072-3108 2019	COMPUTER SCIENCE	104	2019
EDGE SERVER PLACEMENT IN MOBILE EDGE COMPUTING	WANG, SG;ZHAO, YL;XU, JL;YUAN, J;HSU, CH	JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING 127: 160-168 MAY 2019	COMPUTER SCIENCE	104	2019
SHALLOW WATER IN AN OPEN SEA OR A WIDE CHANNEL: AUTO- AND NON-AUTO-BACKLUND TRANSFORMATIONS WITH SOLITONS FOR A GENERALIZED (2+1)-DIMENSIONAL DISPERSIVE LONG-WAVE SYSTEM	GAO, XY;GUO, YJ;SHAN, WR	CHAOS SOLITONS & FRACTALS 138: - SEP 2020	PHYSICS	103	2020
LUMP, MIXED LUMP-STRIPE AND ROGUE WAVE-STRIPE SOLUTIONS OF A (3+1)-DIMENSIONAL NONLINEAR WAVE	WANG, M;TIAN, B;SUN, Y;ZHANG, Z	COMPUTERS & MATHEMATICS WITH APPLICATIONS 79 (3): 576-587 FEB 1 2020	MATHEMAT ICS	102	2020

EQUATION FOR A LIQUID WITH GAS BUBBLES					
JOINT OPTIMIZATION OF CACHING, COMPUTING, AND RADIO RESOURCES FOR FOG-ENABLED IOT USING NATURAL ACTOR-CRITIC DEEP REINFORCEMENT LEARNING	WEI, YF;YU, FR;SONG, M;HAN, Z	IEEE INTERNET OF THINGS JOURNAL 6 (2): 2061-2073 APR 2019	COMPUTER SCIENCE	101	2019
SELECTIVE OFFLOADING IN MOBILE EDGE COMPUTING FOR THE GREEN INTERNET OF THINGS	LYU, XC;TIAN, H;JIANG, L;VINEL, A;MAHARJAN, S;GJESSING, S;ZHANG, Y	IEEE NETWORK 32 (1): 54-60 JAN-FEB 2018	COMPUTER SCIENCE	100	2018
A GENERIC CONSTRUCTION OF QUANTUM-OBLIVIOUS-KEY-TRANSFER-BASED PRIVATE QUERY WITH IDEAL DATABASE SECURITY AND ZERO FAILURE	WEI, CY;CAI, XQ;LIU, B;WANG, TY;GAO, F	IEEE TRANSACTIONS ON COMPUTERS 67 (1): 2-8 JAN 2018	COMPUTER SCIENCE	97	2018
PERFORMANCE OPTIMIZATION FOR BLOCKCHAIN-ENABLED INDUSTRIAL INTERNET OF THINGS (IIOT) SYSTEMS: A DEEP REINFORCEMENT LEARNING APPROACH	LIU, MT;YU, FR;TENG, YL;LEUNG, VCM;SONG, M	IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 15 (6): 3559-3570 JUN 2019	ENGINEERING	97	2019
A JOINT LEARNING AND COMMUNICATIONS FRAMEWORK FOR FEDERATED LEARNING OVER WIRELESS NETWORKS	CHEN, MZ;YANG, ZH;SAAD, W;YIN, CC;POOR, HV;CUI, SG	IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS 20 (1): 269-283 JAN 2021	COMPUTER SCIENCE	95	2021
COMPUTATION OFFLOADING AND CONTENT CACHING IN WIRELESS BLOCKCHAIN NETWORKS WITH MOBILE EDGE COMPUTING	LIU, MT;YU, FR;TENG, YL;LEUNG, VCM;SONG, M	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY 67 (11): 11008-11021 NOV 2018	ENGINEERING	94	2018
RELIABLE CROWDSOURCING AND DEEP LOCALITY-PRESERVING	LI, S;DENG, WH	IEEE TRANSACTIONS ON IMAGE PROCESSING 28 (1):	ENGINEERING	93	2019

LEARNING FOR UNCONSTRAINED FACIAL EXPRESSION RECOGNITION		356-370 JAN 2019			
VECTOR BRIGHT SOLITONS AND THEIR INTERACTIONS OF THE COUPLE FOKAS-LENELLS SYSTEM IN A BIREFRINGENT OPTICAL FIBER	ZHANG, CR;TIAN, B;QU, QX;LIU, L;TIAN, HY	ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND PHYSIK 71 (1): - JAN 2 2020	MATHEMATICS	93	2020
HYBRID PRECODING-BASED MILLIMETER-WAVE MASSIVE MIMO-NOMA WITH SIMULTANEOUS WIRELESS INFORMATION AND POWER TRANSFER	DAI, LL;WANG, BC;PENG, MG;CHEN, SZ	IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS 37 (1): 131-141 JAN 2019	COMPUTER SCIENCE	92	2019
PHASE SHIFT, AMPLIFICATION, OSCILLATION AND ATTENUATION OF SOLITONS IN NONLINEAR OPTICS	YU, WT;ZHOU, Q;MIRZAZADEH, M;LIU, WJ;BISWAS, A	JOURNAL OF ADVANCED RESEARCH 15: 69-76 JAN 2019	PHYSICS	89	2019
LIE GROUP ANALYSIS, SOLITONS, SELF-ADJOINTNESS AND CONSERVATION LAWS OF THE MODIFIED ZAKHAROV-KUZNETSOV EQUATION IN AN ELECTRON-POSITRON-ION MAGNETOPLASMA	DU, XX;TIAN, B;QU, QX;YUAN, YQ;ZHAO, XH	CHAOS SOLITONS & FRACTALS 134: - MAY 2020	PHYSICS	87	2020
INTERACTION PROPERTIES OF SOLITONICS IN INHOMOGENEOUS OPTICAL FIBERS	LIU, WJ;ZHANG, YJ;TRIKI, H;MIRZAZADEH, M;EKICI, M;ZHOU, Q;BISWAS, A;BELIC, M	NONLINEAR DYNAMICS 95 (1): 557-563 JAN 2019	ENGINEERING	85	2019
THE DYNAMICS OF ICT, FOREIGN DIRECT INVESTMENT, GLOBALIZATION AND ECONOMIC GROWTH: PANEL ESTIMATION ROBUST TO HETEROGENEITY AND	LATIF, Z;YANG, MK;DANISH;LATIF, S;LIU, XM;PATHAN, ZH;SALAM, S;ZENG, JQ	TELEMATICS AND INFORMATICS 35 (2): 318-328 MAY 2018	SOCIAL SCIENCES, GENERAL	84	2018

CROSS-SECTIONAL DEPENDENCE					
LOW-LIGHT IMAGE ENHANCEMENT VIA A DEEP HYBRID NETWORK	REN, WQ;LIU, SF;MA, L;XU, QQ;XU, XY;CAO, XC;DU, JP;YANG, MH	IEEE TRANSACTIONS ON IMAGE PROCESSING 28 (9): 4364-4375 SEP 2019	ENGINEERING	84	2019
GENERATION AND CONTROL OF MULTIPLE SOLITONS UNDER THE INFLUENCE OF PARAMETERS	LIU, XY;TRIKI, H;ZHOU, Q;MIRZAZADEH, M;LIU, WJ;BISWAS, A;BELIC, M	NONLINEAR DYNAMICS 95 (1): 143-150 JAN 2019	ENGINEERING	83	2019
AN INTEGRATED SILICON PHOTONIC CHIP PLATFORM FOR CONTINUOUS-VARIABLE QUANTUM KEY DISTRIBUTION	ZHANG, G;HAW, JY;CAI, H;XU, F;ASSAD, SM;FITZSIMONS, JF;ZHOU, X;ZHANG, Y;YU, S;WU, J;SER, W;KWEK, LC;LIU, AQ	NATURE PHOTONICS 13 (12): 839-+ DEC 2019	PHYSICS	82	2019
PHASE-SHIFT CONTROLLING OF THREE SOLITONS IN DISPERSION-DECREASING FIBERS	LIU, SZ;ZHOU, Q;BISWAS, AJ;LIU, WJ	NONLINEAR DYNAMICS 98 (1): 395-401 OCT 2019	ENGINEERING	81	2019
DEEP REINFORCEMENT LEARNING-BASED MODE SELECTION AND RESOURCE MANAGEMENT FOR GREEN FOG RADIO ACCESS NETWORKS	SUN, YH;PENG, MG;MAO, SW	IEEE INTERNET OF THINGS JOURNAL 6 (2): 1960-1971 APR 2019	COMPUTER SCIENCE	78	2019
DEEP LEARNING FOR PHYSICAL-LAYER 5G WIRELESS TECHNIQUES: OPPORTUNITIES, CHALLENGES AND SOLUTIONS	HUANG, HJ;GUO, S;GUI, G;YANG, Z;ZHANG, JH;SARI, H;ADACHI, F	IEEE WIRELESS COMMUNICATIONS 27 (1): 214-222 FEB 2020	COMPUTER SCIENCE	78	2020
RESOURCE TRADING IN BLOCKCHAIN-BASED INDUSTRIAL INTERNET OF THINGS	YAO, HP;MAI, TL;WANG, JJ;JI, Z;JIANG, CX;QIAN, Y	IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 15 (6): 3602-3609 JUN 2019	ENGINEERING	78	2019
PROPAGATION CHANNELS OF 5G MILLIMETER-WAVE VEHICLE-TO-VEHICLE COMMUNICATIONS	HE, RS;AI, B;WANG, GP;ZHONG, ZD;SCHNEIDER, C;DUPEICH, DA;THOMA, RS;BOBAN,	IEEE VEHICULAR TECHNOLOGY MAGAZINE 15 (1): 16-26 MAR 2020	ENGINEERING	77	2020

	M;LUO, J;ZHANG, YY				
QUANTUM PRIVATE QUERY: A NEW KIND OF PRACTICAL QUANTUM CRYPTOGRAPHIC PROTOCOL	GAO, F;QIN, SJ;HUANG, W;WEN, QY	SCIENCE CHINA-PHYSICS MECHANICS & ASTRONOMY 62 (7): - JUL 2019	PHYSICS	77	2019
VISION, REQUIREMENTS, AND TECHNOLOGY TREND OF 6G: HOW TO TACKLE THE CHALLENGES OF SYSTEM COVERAGE, CAPACITY, USER DATA-RATE AND MOVEMENT SPEED	CHEN, SZ;LIANG, YC;SUN, SH;KANG, SL;CHEN, WC;PENG, MG	IEEE WIRELESS COMMUNICATIONS 27 (2): 218-228 APR 2020	COMPUTER SCIENCE	74	2020
RATIONAL SOLUTIONS AND LUMP SOLUTIONS TO A NON-ISOSPECTRAL AND GENERALIZED VARIABLE-COEFFICIENT KADOMTSEV-PETVIASHVILI EQUATION	LIU, JG;ESLAMI, M;REZAZADEH, H;MIRZAZADEH, M	NONLINEAR DYNAMICS 95 (2): 1027-1033 JAN 2019	ENGINEERI NG	74	2019
NONLINEAR OPTICAL PROPERTIES OF MOS2-WS2 HETEROSTRUCTURE IN FIBER LASERS	LIU, WJ;LIU, ML;LIU, B;QUHE, RG;LEI, M;FANG, SB;TENG, H;WEI, ZY	OPTICS EXPRESS 27 (5): 6689-6699 MAR 4 2019	PHYSICS	72	2019
DYNAMICAL CLUSTERING IN ELECTRONIC COMMERCE SYSTEMS VIA OPTIMIZATION AND LEADERSHIP EXPANSION	LI, HJ;BU, Z;WANG, Z;CAO, J	IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 16 (8): 5327-5334 AUG 2020	ENGINEERI NG	71	2020
COST-SENSITIVE FEATURE SELECTION USING TWO-ARCHIVE MULTI-OBJECTIVE ARTIFICIAL BEE COLONY ALGORITHM	ZHANG, Y;CHENG, S;SHI, YH;GONG, DW;ZHAO, XC	EXPERT SYSTEMS WITH APPLICATIONS 137: 46-58 DEC 15 2019	ENGINEERI NG	70	2019
SOLITONS FOR THE (2+1)-DIMENSIONAL KONOPELCHENKO-DUBROVS KY EQUATIONS	YUAN, YQ;TIAN, B;LIU, L;WU, XY;SUN, Y	JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS 460 (1): 476-486 APR 1 2018	MATHEMAT ICS	68	2018
CONTINUOUS-VARIABLE	ZHANG, YC;LI,	QUANTUM SCIENCE	PHYSICS	68	2019

QKD OVER 50 KM COMMERCIAL FIBER	ZY;CHEN, ZY;WEEDBROOK, C;ZHAO, YJ;WANG, XY;HUANG, YD;XU, CC;ZHANG, XX;WANG, ZY;LI, M;ZHANG, XY;ZHENG, ZY;CHU, BJ;GAO, XY;MENG, N;CAI, WW;WANG, Z;WANG, G;YU, S;GUO, H	AND TECHNOLOGY 4 (3): - JUL 2019			
ONE-SOLITON SHAPING AND TWO-SOLITON INTERACTION IN THE FIFTH-ORDER VARIABLE-COEFFICIENT NONLINEAR SCHRÖDINGER EQUATION	YANG, CY;LIU, WJ;ZHOU, Q;MIHALACHE, D;MALOMED, BA	NONLINEAR DYNAMICS 95 (1): 369-380 JAN 2019	ENGINEERI NG	68	2019
EXPERIMENTAL DEMONSTRATION OF ULTRA-LARGE-SCALE TERAHERTZ ALL-DIELECTRIC METAMATERIALS	BI, K;YANG, DQ;CHEN, J;WANG, QM;WU, HY;LAN, CW;YANG, YP	PHOTONICS RESEARCH 7 (4): 457-463 APR 1 2019	PHYSICS	67	2019
SOME LUMP SOLUTIONS FOR A GENERALIZED (3+1)-DIMENSIONAL KADOMTSEV-PETVIASHVILI EQUATION	GUAN, X;LIU, WJ;ZHOU, Q;BISWAS, A	APPLIED MATHEMATICS AND COMPUTATION 366: - FEB 1 2020	MATHEMAT ICS	65	2020
DROMION-LIKE STRUCTURES AND PERIODIC WAVE SOLUTIONS FOR VARIABLE-COEFFICIENTS COMPLEX CUBIC-QUINTIC GINZBURG-LANDAU EQUATION INFLUENCED BY HIGHER-ORDER EFFECTS AND NONLINEAR GAIN	YAN, YY;LIU, WJ;ZHOU, Q;BISWAS, A	NONLINEAR DYNAMICS 99 (2): 1313-1319 JAN 2020	ENGINEERI NG	65	2020
RECENT ADVANCES OF 2D MATERIALS IN NONLINEAR PHOTONICS AND FIBER LASERS	LIU, WJ;LIU, ML;LIU, XM;WANG, XT;DENG, HX;LEI, M;WEI, ZM;WEI, ZY	ADVANCED OPTICAL MATERIALS 8 (8): - APR 2020	MATERIALS SCIENCE	65	2020

HETERO-BACKLUND TRANSFORMATION AND SIMILARITY REDUCTION OF AN EXTENDED (2+1)-DIMENSIONAL COUPLED BURGERS SYSTEM IN FLUID MECHANICS	GAO, XY;GUO, YJ;SHAN, WR	PHYSICS LETTERS A 384 (31): - NOV 5 2020	PHYSICS	63	2020
DARK BREATHER WAVES, DARK LUMP WAVES AND LUMP WAVE-SOLITON INTERACTIONS FOR A (3+1)-DIMENSIONAL GENERALIZED KADOMTSEV-PETVIASHVILI EQUATION IN A FLUID	HU, CC;TIAN, B;YIN, HM;ZHANG, CR;ZHANG, Z	COMPUTERS & MATHEMATICS WITH APPLICATIONS 78 (1): 166-177 JUL 1 2019	MATHEMATICS	63	2019
JOINT COMPUTATION AND COMMUNICATION DESIGN FOR UAV-ASSISTED MOBILE EDGE COMPUTING IN IOT	ZHANG, TK;XU, Y;LOO, J;YANG, DC;XIAO, L	IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 16 (8): 5505-5516 AUG 2020	ENGINEERING	62	2020
BLOCKCHAIN EMPOWERED ASYNCHRONOUS FEDERATED LEARNING FOR SECURE DATA SHARING IN INTERNET OF VEHICLES	LU, YL;HUANG, XH;ZHANG, K;MAHARJAN, S;ZHANG, Y	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY 69 (4): 4298-4311 APR 2020	ENGINEERING	62	2020
SECRECACY ANALYSIS OF AMBIENT BACKSCATTER NOMA SYSTEMS UNDER I/Q IMBALANCE	LI, XW;ZHAO, ML;LIU, YW;LI, LH;DING, ZG;NALLANATHAN, A	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY 69 (10): 12286-12290 OCT 2020	ENGINEERING	61	2020
ULTRAFAST PHOTONICS OF TWO DIMENSIONAL AUTE2SE4/3 IN FIBER LASERS	LIU, WJ;LIU, ML;CHEN, X;SHEN, T;LEI, M;GUO, JG;DENG, HX;ZHANG, W;DAI, CQ;ZHANG, XF;WEI, ZY	COMMUNICATIONS PHYSICS 3 (1): - JAN 21 2020	PHYSICS	59	2020
DIFFERENTIALLY PRIVATE ASYNCHRONOUS FEDERATED LEARNING FOR MOBILE EDGE COMPUTING IN URBAN INFORMATICS	LU, YL;HUANG, XH;DAI, YY;MAHARJAN, S;ZHANG, Y	IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 16 (3): 2134-2143 MAR 2020	ENGINEERING	56	2020
OMNIDIRECTIONAL MOTION CLASSIFICATION WITH MONOSTATIC RADAR	YANG, Y;HOU, CP;LANG, Y;SAKAMOTO, T;HE,	IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING 58	GEOSCIENCES	54	2020

SYSTEM USING MICRO-DOPPLER SIGNATURES	Y;XIANG, W	(5): 3574-3587 MAY 2020			
COGNITIVE AMBC-NOMA IOV-MTS NETWORKS WITH IQI: RELIABILITY AND SECURITY ANALYSIS	LI, XW;ZHENG, YK;ALSHEHRI, MD;HAI, LP;BALASUBRAMANIAN, V;ZENG, M;NIE, GF	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS : - SEP 24 2021	ENGINEERING	53	2021
ANALYTIC STUDY ON TRIPLE-S, TRIPLE-TRIANGLE STRUCTURE INTERACTIONS FOR SOLITONS IN INHOMOGENEOUS MULTI-MODE FIBER	LIU, WJ;ZHANG, YJ;WAZWAZ, AM;ZHOU, Q	APPLIED MATHEMATICS AND COMPUTATION 361: 325-331 NOV 15 2019	MATHEMATICS	51	2019
LAX PAIR, BINARY DARBOUX TRANSFORMATIONS AND DARK-SOLITON INTERACTION OF A FIFTH-ORDER DEFOCUSING NONLINEAR SCHRODINGER EQUATION FOR THE ATTOSECOND PULSES IN THE OPTICAL FIBER COMMUNICATION	CHEN, SS;TIAN, B;CHAI, J;WU, XY;DU, Z	WAVES IN RANDOM AND COMPLEX MEDIA 30 (3): 389-402 JUL 2 2020	PHYSICS	51	2020
OPTIMIZATION OF IDENTIFIABILITY FOR EFFICIENT COMMUNITY DETECTION	LI, HJ;WANG, L;ZHANG, Y;PERC, M	NEW JOURNAL OF PHYSICS 22 (6): - JUN 2020	PHYSICS	51	2020
THE DEVIL IS IN THE CHANNELS: MUTUAL-CHANNEL LOSS FOR FINE-GRAINED IMAGE CLASSIFICATION	CHANG, DL;DING, YF;XIE, JY;BHUNIA, AK;LI, XX;MA, Z;WU, M;GUO, J;SONG, YZ	IEEE TRANSACTIONS ON IMAGE PROCESSING 29: 4683-4695 2020	ENGINEERING	51	2020
LONG-DISTANCE CONTINUOUS-VARIABLE QUANTUM KEY DISTRIBUTION OVER 202.81 KM OF FIBER	ZHANG, YC;CHEN, ZY;PIRANDOLA, S;WANG, XY;ZHOU, C;CHU, BJ;ZHAO, YJ;XU, BJ;YU, S;GUO, H	PHYSICAL REVIEW LETTERS 125 (1): - JUN 30 2020	PHYSICS	49	2020
STABLE TRANSMISSION OF SOLITONS IN THE COMPLEX	YAN, YY;LIU, WJ	APPLIED MATHEMATICS	MATHEMATICS	48	2019

CUBIC-QUINTIC GINZBURG-LANDAU EQUATION WITH NONLINEAR GAIN AND HIGHER-ORDER EFFECTS		LETTERS 98: 171-176 DEC 2019			
SELF-POWERED SOLAR-BLIND PHOTODETECTORS BASED ON ALPHA/BETA PHASE JUNCTION OF GA2O3	GUO, DY;CHEN, K;WANG, SL;WU, FM;LIU, AP;LI, CR;LI, PG;TAN, CK;TANG, WH	PHYSICAL REVIEW APPLIED 13 (2): - FEB 20 2020	PHYSICS	47	2020
NIOBIUM DISULFIDE AS A NEW SATURABLE ABSORBER FOR AN ULTRAFAST FIBER LASER	LI, L;PANG, LH;ZHAO, QY;WANG, YG;LIU, WJ	NANOSCALE 12 (7): 4537-4543 FEB 21 2020	PHYSICS	47	2020
EXPLORING THE TRUST MANAGEMENT MECHANISM IN SELF-ORGANIZING COMPLEX NETWORK BASED ON GAME THEORY	LI, HJ;WANG, Q;LIU, SF;HU, J	PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS 542: - MAR 15 2020	PHYSICS	47	2020
TOWARD ACHIEVING ENVIRONMENTAL SUSTAINABILITY TARGET IN ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENT COUNTRIES: THE ROLE OF REAL INCOME, RESEARCH AND DEVELOPMENT, AND TRANSPORT INFRASTRUCTURE	DANISH;ZHANG, JW;HASSAN, ST;IQBAL, K	SUSTAINABLE DEVELOPMENT 28 (1): 83-90 JAN-FEB 2020	SOCIAL SCIENCES, GENERAL	44	2020
DARK-BRIGHT SEMI-RATIONAL SOLITONS AND BREATHERS FOR A HIGHER-ORDER COUPLED NONLINEAR SCHRODINGER SYSTEM IN AN OPTICAL FIBER	DU, Z;TIAN, B;CHAI, HP;ZHAO, XH	APPLIED MATHEMATICS LETTERS 102: - APR 2020	MATHEMAT ICS	43	2020
SNSSE AS A SATURABLE ABSORBER FOR AN ULTRAFAST LASER WITH SUPERIOR STABILITY	LIU, WJ;LIU, ML;LIU, XM;LEI, M;WEI, ZY	OPTICS LETTERS 45 (2): 419-422 JAN 15 2020	PHYSICS	43	2020

CHAOTIC BREATHERS AND BREATHER FISSION/FUSION FOR A VECTOR NONLINEAR SCHRODINGER EQUATION IN A BIREFRINGENT OPTICAL FIBER OR WAVELENGTH DIVISION MULTIPLEXED SYSTEM	YIN, HM;TIAN, B;ZHAO, XC	APPLIED MATHEMATICS AND COMPUTATION 368: - MAR 1 2020	MATHEMATICS	42	2020
ADAPTIVE SYNCHRONIZATION OF MEMRISTOR-BASED BAM NEURAL NETWORKS WITH MIXED DELAYS	CHEN, C;LI, LX;PENG, HP;YANG, YX	APPLIED MATHEMATICS AND COMPUTATION 322: 100-110 APR 1 2018	MATHEMATICS	41	2018
A REVIEW OF RESEARCH ON CO-TRAINING	NING, X;WANG, XR;XU, SH;CAI, WW;ZHANG, LP;YU, LA;LI, WF	CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE : - MAR 20 2021	COMPUTER SCIENCE	41	2021
COVID-19 IN EARLY 2021: CURRENT STATUS AND LOOKING FORWARD	WANG, CD;WANG, ZF;WANG, GY;LAU, JYN;ZHANG, K;LI, WM	SIGNAL TRANSDUCTION AND TARGETED THERAPY 6 (1): - MAR 8 2021	MOLECULAR BIOLOGY & GENETICS	41	2021
COSMIC DUSTY PLASMAS VIA A (3+1)-DIMENSIONAL GENERALIZED VARIABLE-COEFFICIENT KADOMTSEV-PETVIASHVILI-BURGERS-TYPE EQUATION: AUTO-BACKLUND TRANSFORMATIONS, SOLITONS AND SIMILARITY REDUCTIONS PLUS OBSERVATIONAL/EXPERIMENTAL SUPPORTS	GAO, XY;GUO, YJ;SHAN, WR	WAVES IN RANDOM AND COMPLEX MEDIA : - JUL 13 2021	PHYSICS	40	2021
DELAY-AWARE MICROSERVICE COORDINATION IN MOBILE EDGE COMPUTING: A REINFORCEMENT LEARNING APPROACH	WANG, SG;GUO, Y;ZHANG, N;YANG, P;ZHOU, A;SHEN, XM	IEEE TRANSACTIONS ON MOBILE COMPUTING 20 (3): 939-951 MAR 1 2021	COMPUTER SCIENCE	40	2021
GENERALIZED DARBOUX TRANSFORMATION,	WANG, M;TIAN, B;HU, CC;LIU, SH	APPLIED MATHEMATICS	MATHEMATICS	39	2021

SOLITONIC INTERACTIONS AND BOUND STATES FOR A COUPLED FOURTH-ORDER NONLINEAR SCHRODINGER SYSTEM IN A BIREFRINGENT OPTICAL FIBER		LETTERS 119: - SEP 2021			
MAGNETO-OPTICAL/FERROMAGNETIC-MATERIAL COMPUTATION: BACKLUND TRANSFORMATIONS, BILINEAR FORMS AND N SOLITONS FOR A GENERALIZED (3+1)-DIMENSIONAL VARIABLE-COEFFICIENT MODIFIED KADOMTSEV-PETVIASHVILI SYSTEM	GAO, XY;GUO, YJ;SHAN, WR;YUAN, YQ;ZHANG, CR;CHEN, SS	APPLIED MATHEMATICS LETTERS 111: - JAN 2021	MATHEMATICS	38	2021
COOPERATIVE WIRELESS-POWERED NOMA RELAYING FOR B5G IOT NETWORKS WITH HARDWARE IMPAIRMENTS AND CHANNEL ESTIMATION ERRORS	LI, XW;WANG, QS;LIU, M;LI, JJ;PENG, HX;PIRAN, MJ;LI, LH	IEEE INTERNET OF THINGS JOURNAL 8 (7): 5453-5467 APR 1 2021	COMPUTER SCIENCE	38	2021
NOVEL EVOLUTIONARY BEHAVIORS OF THE MIXED SOLUTIONS TO A GENERALIZED BURGERS EQUATION WITH VARIABLE COEFFICIENTS	CHEN, SJ;LU, X;TANG, XF	COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION 95: - APR 2021	PHYSICS	38	2021
INTEGRABILITY CHARACTERISTICS OF A NOVEL (2+1)-DIMENSIONAL NONLINEAR MODEL: PAINLEVE ANALYSIS, SOLITON SOLUTIONS, BACKLUND TRANSFORMATION, LAX PAIR AND INFINITELY MANY CONSERVATION LAWS	LU, X;HUA, YF;CHEN, SJ;TANG, XF	COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION 95: - APR 2021	PHYSICS	37	2021

ON ALMOST CONTROLLABILITY OF DYNAMICAL COMPLEX NETWORKS WITH NOISES	CAI, N;HE, M;WU, QX;KHAN, MJ	JOURNAL OF SYSTEMS SCIENCE & COMPLEXITY 32 (4): 1125-1139 AUG 2019	MATHEMATICS	34	2019
BILINEAR AUTO-BACKLUND TRANSFORMATIONS AND SOLITON SOLUTIONS OF A (3+1)-DIMENSIONAL GENERALIZED NONLINEAR EVOLUTION EQUATION FOR THE SHALLOW WATER WAVES	SHEN, Y;TIAN, B	APPLIED MATHEMATICS LETTERS 122: - DEC 2021	MATHEMATICS	33	2021
HIGH SENSITIVE AND STABLE SELF-POWERED SOLAR-BLIND PHOTODETECTOR BASED ON SOLUTION-PROCESSED ALL INORGANIC CUMO ₂ /GA ₂ O ₃ PN HETEROJUNCTION	WU, C;QIU, LL;LI, S;GUO, DY;LI, PG;WANG, SL;DU, PF;CHEN, ZW;LIU, AP;WANG, XH;WU, HP;WU, FM;TANG, WH	MATERIALS TODAY PHYSICS 17: - MAR 2021	MATERIALS SCIENCE	33	2021
LAX PAIR, CONSERVATION LAWS, DARBOUX TRANSFORMATION AND LOCALIZED WAVES OF A VARIABLE-COEFFICIENT COUPLED HIROTA SYSTEM IN AN INHOMOGENEOUS OPTICAL FIBER	YANG, DY;TIAN, B;QU, QX;ZHANG, CR;CHEN, SS;WEI, CC	CHAOS SOLITONS & FRACTALS 150: - SEP 2021	PHYSICS	31	2021
SOLITONIC FUSION AND FISSION FOR A (3+1)-DIMENSIONAL GENERALIZED NONLINEAR EVOLUTION EQUATION ARISING IN THE SHALLOW WATER WAVES	SHEN, Y;TIAN, B;LIU, SH	PHYSICS LETTERS A 405: - JUL 30 2021	PHYSICS	26	2021
COST-EFFICIENT RESOURCE PROVISIONING FOR DYNAMIC REQUESTS IN CLOUD ASSISTED MOBILE EDGE COMPUTING	MA, X;WANG, SG;ZHANG, S;YANG, P;LIN, C;SHEN, XM	IEEE TRANSACTIONS ON CLOUD COMPUTING 9 (3): 968-980 JUL-SEP 2021	COMPUTER SCIENCE	26	2021
DEEP CASCADING NETWORK ARCHITECTURE FOR ROBUST	WENG, LTR;HE, Y;PENG, JH;ZHENG,	NEUROCOMPUTING 455: 308-324 SEP 30	COMPUTER SCIENCE	26	2021

AUTOMATIC MODULATION CLASSIFICATION	JC;LI, XY	2021			
BILINEAR BACKLUND TRANSFORMATION, SOLITON AND BREATHER SOLUTIONS FOR A (3+1)-DIMENSIONAL GENERALIZED KADOMTSEV-PETVIASHVILI EQUATION IN FLUID DYNAMICS AND PLASMA PHYSICS	SHEN, Y;TIAN, B;LIU, SH;YANG, DY	PHYSICA SCRIPTA 96 (7): - JUL 2021	PHYSICS	25	2021
LYAPUNOV OPTIMIZATION-BASED TRADE-OFF POLICY FOR MOBILE CLOUD OFFLOADING IN HETEROGENEOUS WIRELESS NETWORKS	LI, Y;XIA, SC;ZHENG, MY;CAO, B;LIU, QL	IEEE TRANSACTIONS ON CLOUD COMPUTING 10 (1): 491-505 JAN 1 2022	COMPUTER SCIENCE	25	2022
UNDERSTANDING NODE CAPTURE ATTACKS IN USER AUTHENTICATION SCHEMES FOR WIRELESS SENSOR NETWORKS	WANG, CY;WANG, D;TU, Y;XU, GA;WANG, HX	IEEE TRANSACTIONS ON DEPENDABLE AND SECURE COMPUTING 19 (1): 507-523 JAN 1 2022	COMPUTER SCIENCE	25	2022
OPTICAL WAVES/MODES IN A MULTICOMPONENT INHOMOGENEOUS OPTICAL FIBER VIA A THREE-COUPLED VARIABLE-COEFFICIENT NONLINEAR SCHRÖDINGER SYSTEM	GAO, XY;GUO, YJ;SHAN, WR	APPLIED MATHEMATICS LETTERS 120: - OCT 2021	MATHEMATICS	24	2021
BREATHER-WAVE, PERIODIC-WAVE AND TRAVELING-WAVE SOLUTIONS FOR A (2+1)-DIMENSIONAL EXTENDED BOITI-LEON-MANNA-PEMPINELLI EQUATION FOR AN INCOMPRESSIBLE FLUID	SHEN, Y;TIAN, B;ZHANG, CR;TIAN, HY;LIU, SH	MODERN PHYSICS LETTERS B 35 (15): - MAY 30 2021	PHYSICS	24	2021
SOFTWARE-DEFINED	LUO, GY;ZHOU,	IEEE TRANSACTIONS	COMPUTER	23	2021

COOPERATIVE DATA SHARING IN EDGE COMPUTING ASSISTED 5G-VANET	HB;CHENG, N;YUAN, Q;LI, JL;YANG, FC;SHEN, XM	ON MOBILE COMPUTING 20 (3): 1212-1229 MAR 1 2021	SCIENCE		
DEEP FACE RECOGNITION: A SURVEY	WANG, M;DENG, WH	NEUROCOMPUTING 429: 215-244 MAR 14 2021	COMPUTER SCIENCE	23	2021
A SURVEY ON DEEP LEARNING AND ITS APPLICATIONS	DONG, S;WANG, P;ABBAS, K	COMPUTER SCIENCE REVIEW 40: - MAY 2021	COMPUTER SCIENCE	22	2021
DARBOUX-DRESSING TRANSFORMATION, SEMI-RATIONAL SOLUTIONS, BREATHERS AND MODULATION INSTABILITY FOR THE CUBIC-QUINTIC NONLINEAR SCHRÖDINGER SYSTEM WITH VARIABLE COEFFICIENTS IN A NON-KERR MEDIUM, TWIN-CORE NONLINEAR OPTICAL FIBER OR WAVEGUIDE	YANG, DY;TIAN, B;QU, QX;LI, H;ZHAO, XH;CHEN, SS;WEI, CC	PHYSICA SCRIPTA 96 (4): - APR 2021	PHYSICS	22	2021
BROADBAND ULTRAVIOLET SELF-POWERED PHOTODETECTOR CONSTRUCTED ON EXFOLIATED BETA-GA ₂ O ₃ /CUI CORE-SHELL MICROWIRE HETEROJUNCTION WITH SUPERIOR RELIABILITY	LI, S;ZHI, YS;LU, C;WU, C;YAN, ZY;LIU, Z;YANG, J;CHU, XL;GUO, DY;LI, PG;WU, ZP;TANG, WH	JOURNAL OF PHYSICAL CHEMISTRY LETTERS 12 (1): 447-453 JAN 14 2021	CHEMISTRY	21	2021
FAST-CHARGING AND ULTRAHIGH-CAPACITY ZINC METAL ANODE FOR HIGH-PERFORMANCE AQUEOUS ZINC-ION BATTERIES	CAO, PH;ZHOU, XY;WEI, AR;MENG, Q;YE, H;LIU, WP;TANG, JJ;YANG, J	ADVANCED FUNCTIONAL MATERIALS 31 (20): - MAY 2021	MATERIALS SCIENCE	21	2021
STATISTICAL PHYSICS APPROACHES TO THE COMPLEX EARTH SYSTEM	FAN, JF;MENG, J;LUDESCHER, J;CHEN, XS;ASHKENAZY,	PHYSICS REPORTS-REVIEW SECTION OF PHYSICS	PHYSICS	20	2021

	Y;KURTHS, J;HAVLIN, S;SCHELLNHUBER, HJ	LETTERS 896: 1-84 SP. ISS. SI FEB 18 2021			
BACKLUND TRANSFORMATIONS, KINK SOLITON, BREATHER- AND TRAVELLING-WAVE SOLUTIONS FOR A (3+1)-DIMENSIONAL B-TYPE KADOMTSEV-PETVIASHVILI EQUATION IN FLUID DYNAMICS	MA, YX;TIAN, B;QU, QX;WEI, CC;ZHAO, X	CHINESE JOURNAL OF PHYSICS 73: 600-612 OCT 2021	PHYSICS	20	2021
A METHOD OF INFORMATION PROTECTION FOR COLLABORATIVE DEEP LEARNING UNDER GAN MODEL ATTACK	YAN, XD;CUI, BJ;XU, Y;SHI, PL;WANG, ZQ	IEEE-ACM TRANSACTIONS ON COMPUTATIONAL BIOLOGY AND BIOINFORMATICS 18 (3): 871-881 MAY-JUN 2021	COMPUTER SCIENCE	20	2021
BILINEAR BACKLUND TRANSFORMATION, LAX PAIR AND INTERACTIONS OF NONLINEAR WAVES FOR A GENERALIZED (2+1)-DIMENSIONAL NONLINEAR WAVE EQUATION IN NONLINEAR OPTICS/FLUID MECHANICS/PLASMA PHYSICS	ZHAO, X;TIAN, B;TIAN, HY;YANG, DY	NONLINEAR DYNAMICS 103 (2): 1785-1794 JAN 2021	ENGINEERING	20	2021
DEVICE-FREE WIRELESS SENSING FOR HUMAN DETECTION: THE DEEP LEARNING PERSPECTIVE	ZHANG, RH;JING, XJ;WU, S;JIANG, CX;MU, JS;YU, FR	IEEE INTERNET OF THINGS JOURNAL 8 (4): 2517-2539 FEB 15 2021	COMPUTER SCIENCE	19	2021
OCEANIC STUDIES VIA A VARIABLE-COEFFICIENT NONLINEAR DISPERSIVE-WAVE SYSTEM IN THE SOLAR SYSTEM	GAO, XY;GUO, YJ;SHAN, WR	CHAOS SOLITONS & FRACTALS 142: - JAN 2021	PHYSICS	19	2021
RECONFIGURABLE INTELLIGENT SURFACES: PRINCIPLES AND	LIU, YW;LIU, X;MU, XD;HOU, TW;XU, JQ;DI RENZO, M;AL-DHAHIR,	IEEE COMMUNICATIONS SURVEYS AND	COMPUTER SCIENCE	19	2021

OPPORTUNITIES	N	TUTORIALS 23 (3): 1546-1577 2021			
PAINLEVE ANALYSIS, BACKLUND TRANSFORMATIONS AND TRAVELING-WAVE SOLUTIONS FOR A (3+1)-DIMENSIONAL GENERALIZED KADOMTSEV-PETVIASHVILI EQUATION IN A FLUID	MA, YX;TIAN, B;QU, QX;YANG, DY;CHEN, YQ	INTERNATIONAL JOURNAL OF MODERN PHYSICS B 35 (07): - MAR 20 2021	PHYSICS	19	2021
BEHOLDING THE SHALLOW WATER WAVES NEAR AN OCEAN BEACH OR IN A LAKE VIA A BOUSSINESQ-BURGERS SYSTEM	GAO, XY;GUO, YJ;SHAN, WR	CHAOS SOLITONS & FRACTALS 147: - JUN 2021	PHYSICS	19	2021
LOW-LATENCY FEDERATED LEARNING AND BLOCKCHAIN FOR EDGE ASSOCIATION IN DIGITAL TWIN EMPOWERED 6G NETWORKS	LU, YL;HUANG, XH;ZHANG, K;MAHARJAN, S;ZHANG, Y	IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 17 (7): 5098-5107 JUL 2021	ENGINEERI NG	19	2021
SUPERREGULAR SOLUTIONS FOR A COUPLED NONLINEAR SCHRODINGER SYSTEM IN A TWO-MODE NONLINEAR FIBER	TIAN, HY;TIAN, B;YUAN, YQ;ZHANG, CR	PHYSICA SCRIPTA 96 (4): - APR 2021	PHYSICS	18	2021
ENABLING MASSIVE IOT TOWARD 6G: A COMPREHENSIVE SURVEY	GUO, FX;YU, FR;ZHANG, HL;LI, X;JI, H;LEUNG, VCM	IEEE INTERNET OF THINGS JOURNAL 8 (15): 11891-11915 AUG 1 2021	COMPUTER SCIENCE	18	2021
IN NONLINEAR OPTICS, FLUID DYNAMICS AND PLASMA PHYSICS: SYMBOLIC COMPUTATION ON A (2+1)-DIMENSIONAL EXTENDED CALOGERO-BOGOYAVLENSK II-SCHIFF SYSTEM	SHEN, Y;TIAN, B;ZHOU, TY	EUROPEAN PHYSICAL JOURNAL PLUS 136 (5): - MAY 24 2021	PHYSICS	18	2021
WXNB(1-X)SE2 NANOSHEETS	LI, L;PANG, LH;WANG,	NANOSCALE 13 (4):	PHYSICS	14	2021

FOR ULTRAFAST PHOTONICS	Y;LIU, WJ	2511-2518 JAN 28 2021			
SOLITON RECTANGULAR PULSES AND BOUND STATES IN A DISSIPATIVE SYSTEM MODELED BY THE VARIABLE-COEFFICIENTS COMPLEX CUBIC-QUINTIC GINZBURG-LANDAU EQUATION	YAN, YY;LIU, WJ	CHINESE PHYSICS LETTERS 38 (9): - OCT 2021	PHYSICS	14	2021
SOLITON, MULTIPLE-LUMP AND HYBRID SOLUTIONS OF A (2+1)-DIMENSIONAL GENERALIZED HIROTA-SATSUMA-ITO EQUATION FOR THE WATER WAVES	WANG, M;TIAN, B;LIU, SH;SHAN, WR;JIANG, Y	EUROPEAN PHYSICAL JOURNAL PLUS 136 (6): - JUN 4 2021	PHYSICS	14	2021
IN OCEANOGRAPHY, ACOUSTICS AND HYDRODYNAMICS: AN EXTENDED COUPLED (2+1)-DIMENSIONAL BURGERS SYSTEM	GAO, XY;GUO, YJ;SHAN, WR	CHINESE JOURNAL OF PHYSICS 70: 264-270 APR 2021	PHYSICS	14	2021
HETERO-BACKLUND TRANSFORMATION, BILINEAR FORMS AND N SOLITONS FOR A GENERALIZED THREE-COUPLED KORTEWEG-DE VRIES SYSTEM	GAO, XY;GUO, YJ;SHAN, WR	QUALITATIVE THEORY OF DYNAMICAL SYSTEMS 20 (3): - NOV 2021	MATHEMATICS	10	2021
CERTAIN ELECTROMAGNETIC WAVES IN A FERROMAGNETIC FILM	GAO, XY;GUO, YJ;SHAN, WR;YIN, HM;DU, XX	COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION 105: - FEB 2022	PHYSICS	9	2022
IDENTIFICATION OF ENCRYPTED TRAFFIC THROUGH ATTENTION MECHANISM BASED LONG SHORT TERM MEMORY	YAO, HP;LIU, C;ZHANG, PY;WU, S;JIANG, CX;YU, S	IEEE TRANSACTIONS ON BIG DATA 8 (1): 241-252 FEB 1 2022	COMPUTER SCIENCE	8	2022
EFFICIENT	WANG, CY;WANG,	SCIENCE	COMPUTER	7	2022

PRIVACY-PRESERVING USER AUTHENTICATION SCHEME WITH FORWARD SECRECY FOR INDUSTRY 4.0	D;XU, GA;HE, DB	CHINA-INFORMATION SCIENCES 65 (1): - JAN 2022	SCIENCE		
TRUSTWORTHY TARGET TRACKING WITH COLLABORATIVE DEEP REINFORCEMENT LEARNING IN EDGEAI-AIDED IOT	ZHANG, JW;BHUIYAN, MZA;YANG, X;SINGH, AK;HSU, DF;LUO, ET	IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS 18 (2): 1301-1309 FEB 2022	ENGINEERING	4	2022
LAX PAIR, DARBOUX TRANSFORMATION, BREATHERS AND ROGUE WAVES OF AN N-COUPLED NONAUTONOMOUS NONLINEAR SCHRODINGER SYSTEM FOR AN OPTICAL FIBER OR A PLASMA	YANG, DY;TIAN, B;WANG, M;ZHAO, X;SHAN, WR;JIANG, Y	NONLINEAR DYNAMICS 107 (3): 2657-2666 FEB 2022	ENGINEERING	4	2022
RHINE: RELATION STRUCTURE-AWARE HETEROGENEOUS INFORMATION NETWORK EMBEDDING	SHI, CA;LU, YF;HU, LM;LIU, ZY;MA, HD	IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING 34 (1): 433-447 JAN 1 2022	ENGINEERING	4	2022
GLOBAL-LOCAL TEMPORAL CONVOLUTIONAL NETWORK FOR TRAFFIC FLOW PREDICTION	REN, YJ;ZHAO, D;LUO, D;MA, HD;DUAN, PR	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS 23 (2): 1578-1584 FEB 2022	ENGINEERING	3	2022
MAGMONITOR: VEHICLE SPEED ESTIMATION AND VEHICLE CLASSIFICATION THROUGH A MAGNETIC SENSOR	FENG, YM;MAO, GQ;CHEN, B;LI, CL;HUI, YL;XU, ZG;CHEN, JL	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS 23 (2): 1311-1322 FEB 2022	ENGINEERING	3	2022