

北京邮电大学 ESI 学科排名动态快报（2016 年 3 月数据）

提要:

美国基本科学指标（Essential Science Indicator, ESI）2016 年 3 月最新统计数据表明:我校物理、工程、计算机 3 个学科进入 ESI 排名。本期我校高被引论文有 48 篇，热点论文 2 篇。

我校论文整体情况:

2016 年 3 月 10 日 ESI 最新统计数据表明，我校 11 年内（2005 年 12 月 31 日至 2016 年 3 月 10 日）被 SCIE/SSCI 收录论文情况如下：

- 论文数量 6062 篇，在入围的 5134 所机构中排名 1001；
- 论文总被引次数 26211 次，在入围的 5134 所机构中排名 1988；
- 论文篇均被引次数 4.32 次，在入围的 5134 所机构中排名 5098；

我校 ESI 学科排名情况

根据 2016 年 3 月 ESI 数据库更新结果显示，我校的物理、工程、计算机 3 个学科进入了全球机构学科排名的前 1%。详情见表 1。

表 1 我校在全球研究机构中排名进入前 1%的学科及排名（2016 年 3 月）

学科	篇数	篇数 排名	引用 次数	引用次数排名	篇均被 引次数	篇均被引次数 排名
物理	2103	375/727	13878	678/727	6.60	719/727
工程	1377	323/1258	4707	626/1258	3.42	1240/1258
计算机	1926	34/391	4602	197/391	2.39	389/391
All fields	6062	1001/5134	26211	1988/5134	4.32	5098/5134

我校热点论文 Hot Papers（共 2 篇）

ESI-HOT PAPERS(热点论文)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 ESI 数据显示，我校有 2 篇文章入选全球热点论文行列。这两篇论文详细情况如下：

HOT PAPERS FOR (BEIJING UNIV POSTS & TELECOMMUN)热点论文 2 篇

1 Citations: 19 

HOT PAPER 

RESEARCH FRONT

WEB OF SCIENCE


Title: NOVEL IMAGE COMPRESSION-ENCRYPTION HYBRID ALGORITHM BASED ON KEY-CONTROLLED MEASUREMENT MATRIX IN COMPRESSIVE SENSING

Authors: ZHOU NR; ZHANG AD; [ZHENG F](#); GONG LH

Source: [OPT LASER TECHNOL](#) 62: 152-160 OCT 2014

Addresses: [Nanchang Univ](#), Dept Elect Informat Engn, Nanchang 330031, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Informat Secur Ctr, Beijing 100876, Peoples R China.
Nanchang Hangkong Univ, Jiangxi Prov Key Lab Image Proc & Pattern Recogni, Nanchang 330063, Peoples R China.

Field: [ENGINEERING](#)

2 Citations: 6 

HOT PAPER 

RESEARCH FRONT

WEB OF SCIENCE

Title: RECENT ADVANCES IN UNDERLAY HETEROGENEOUS NETWORKS: INTERFERENCE CONTROL, RESOURCE ALLOCATION, AND SELF-ORGANIZATION

Authors: [PENG MG](#); [WANG CG](#); [LI J](#); XIANG HY; LAU V

Source: [IEEE COMMUN SURV TUTOR](#) 17 (2): 700-729 2015

Addresses: [Beijing Univ Posts & Telecommun](#), Key Lab Universal Wireless Commun, Minist Educ, Beijing 100876, Peoples R China.
InterDigital Commun Corp, King Of Prussia, PA 19406 USA.
[Hong Kong Univ Sci & Technol](#), Dept Elect & Comp Engn, Hong Kong, Hong Kong, Peoples R China.

Field: [COMPUTER SCIENCE](#)

高被引论文及其学科分布

高被引论文 (highly Cited papers): 是指过去 10 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 48 篇，表 2 具体列出了各学科高被引论文数量，其中计算机 21 篇位居第一，物理 10 篇位居第二，数学 10 篇位居第三，工程 6 篇，位居第四，除以上我校优势学科外，化学、材料、临床医学这三个学科也有贡献。48 篇高被引论文的学科分布见下表：

表 2 北京邮电大学高被引论文学科分布（2016 年 3 月数据）

排序	学科	高被引论文数
1	计算机 COMPUTER SCIENCE	21
2	物理 PHYSICS	10
3	数学 MATHEMATICS	7
4	工程 ENGINEERING	6
5	化学 CHEMISTRY	2
6	材料 MATERIALS SCIENCE	1
7	临床医学 CLINICAL MEDICINE	1

这 48 篇论文详细情况如下：

HIGHLY CITED PAPERS FOR (BEIJING UNIV POSTS & TELECOMMUN) 高被引论文：（48 篇）

1 Citations: 181 

WEB OF SCIENCE


Title: SYMBOLIC-COMPUTATION STUDY OF THE PERTURBED NONLINEAR SCHRÖDINGER MODEL IN INHOMOGENEOUS OPTICAL FIBERS

Authors: [TIAN B;](#) [GAO YT](#)

Source: [PHYS LETT A](#) 342 (3): 228-236 JUL 11 2005

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.
Beijing Univ Aeronaut & Astronaut, State Key Lab Software Dev Environm, Beijing 100083, Peoples R China.
[CCAST](#), World Lab, Beijing 100080, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Minist Educ, Key Lab Fluid Mech, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Natl Lab Computat Fluid Dynam, Beijing 100083, Peoples R China.

Field: [PHYSICS](#)

2 **Citations:** 166 

WEB OF SCIENCE

Title: VARIABLE-COEFFICIENT HIGHER-ORDER NONLINEAR SCHRÖDINGER MODEL IN OPTICAL FIBERS: NEW TRANSFORMATION WITH BURSTONS, BRIGHTONS AND SYMBOLIC COMPUTATION

Authors: [TIAN B](#); [GAO YT](#)

Source: [PHYS LETT A](#) 359 (3): 241-248 NOV 20 2006

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.
Beijing Univ Aeronaut & Astronaut, State Key Lab Software Dev Environm, Beijing 100083, Peoples R China.
[CCAST](#), World Lab, Beijing 100080, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Minist Educ, Key Lab Fluid Mech, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Natl Lab Computat Fluid Dynam, Beijing 100083, Peoples R China.

Field: [PHYSICS](#)

3 **Citations:** 165 

WEB OF SCIENCE


Title: ON THE NON-PLANAR DUST-ION-ACOUSTIC WAVES IN COSMIC DUSTY PLASMAS WITH TRANSVERSE PERTURBATIONS

Authors: [GAO YT](#); [TIAN B](#)

Source: [EPL](#) 77 (1): - 2007

Addresses: Beijing Univ Aeronaut & Astronaut, Minist Educ, Key Lab Fluid Mech, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Natl Lab Computat Fluid Dynam, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, State Key Lab Software Dev Environm, Beijing 100083, Peoples R China.
[CCAST](#), World Lab, Beijing 100080, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.

Field: [PHYSICS](#)

4 **Citations:** 165 

WEB OF SCIENCE

Title: COSMIC DUST-ION-ACOUSTIC WAVES, SPHERICAL MODIFIED KADOMTSEV-PETVIASHVILI MODEL, AND SYMBOLIC COMPUTATION

Authors: [GAO YT](#); [TIAN B](#)

Source: [PHYS PLASMAS](#) 13 (11): - NOV 2006

Addresses: Beijing Univ Aeronaut & Astronaut, Minist Educ, Key Lab Fluid Mech, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Natl Lab Computat Fluid Dynam, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, State Key Lab Software Dev Environm, Beijing 100083, Peoples R China.
[CCAST](#), World Lab, Beijing 100080, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.

Field: [PHYSICS](#)

5 **Citations:** 160 

WEB OF SCIENCE


Title: TRANSFORMATIONS FOR A GENERALIZED VARIABLE-COEFFICIENT KORTEWEG-DE VRIES MODEL FROM BLOOD VESSELS, BOSE-EINSTEIN CONDENSATES, RODS AND POSITONS WITH SYMBOLIC COMPUTATION

Authors: [TIAN B](#); WEI GM; [ZHANG CY](#); SHAN WR; [GAO YT](#)

Source: [PHYS LETT A](#) 356 (1): 8-16 JUL 24 2006

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing
100876, Peoples R China.
Beijing Univ Aeronaut & Astronaut, State Key Lab Software Dev
Environm, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Dept Math, Beijing
100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Minist Educ, Key Lab Fluid
Mech, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Natl Lab Computat Fluid
Dynam, Beijing 100083, Peoples R China.
Meteorol Ctr Air Force Command Post, Changchun
130051, Peoples R China.
[CCAST](#), World Lab, Beijing 100080, Peoples R China.

Field: [PHYSICS](#)

6 Citations: 158 

WEB OF SCIENCE

Title: CYLINDRICAL KADOMTSEV-PETVIASHVILI MODEL,
NEBULONS AND SYMBOLIC COMPUTATION FOR COSMIC
DUST ION-ACOUSTIC WAVES

Authors: [GAO YT](#); [TIAN B](#)

Source: [PHYS LETT A](#) 349 (5): 314-319 JAN 16 2006

Addresses: Beijing Univ Aeronaut & Astronaut, Minist Educ, Key Lab Fluid
Mech, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Natl Lab Computat Fluid
Dynam, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, State Key Lab Software Dev
Environm, Beijing 100083, Peoples R China.
[CCAST](#), World Lab, Beijing 100080, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing
100876, Peoples R China.

Field: [PHYSICS](#)

7 Citations: 156 

WEB OF SCIENCE

Title: SYMBOLIC COMPUTATION ON CYLINDRICAL-MODIFIED DUST-ION-ACOUSTIC NEBULONS IN DUSTY PLASMAS

Authors: [TIAN B;](#) [GAO YT](#)

Source: [PHYS LETT A](#) 362 (4): 283-288 MAR 5 2007

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.
Beijing Univ Aeronaut & Astronaut, State Key Lab Software Dev Environm, Beijing 100083, Peoples R China.
[CCAST](#), World Lab, Beijing 100080, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Minist Educ, Key Lab Fluid Mech, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Natl Lab Computat Fluid Dynam, Beijing 100083, Peoples R China.

Field: [PHYSICS](#)

8 Citations: 149 

WEB OF SCIENCE

Title: VARIABLE-COEFFICIENT HIGHER-ORDER NONLINEAR SCHRÖDINGER MODEL IN OPTICAL FIBERS: VARIABLE-COEFFICIENT BILINEAR FORM, BACKLUND TRANSFORMATION, BRIGHTONS AND SYMBOLIC COMPUTATION

Authors: [TIAN B;](#) [GAO YT;](#) [ZHU HW](#)

Source: [PHYS LETT A](#) 366 (3): 223-229 JUN 25 2007

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.
Beijing Univ Aeronaut & Astronaut, State Key Lab Software Dev Environm, Beijing 100083, Peoples R China.
[CCAST](#), World Lab, Beijing 100080, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Minist Educ, Key Lab Fluid Mech, Beijing 100083, Peoples R China.
Beijing Univ Aeronaut & Astronaut, Natl Lab Computat Fluid Dynam, Beijing 100083, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Key Lab Opt Commun &

Lightwave Technol, Minist Educ, Beijing 100876, Peoples R China.

Field: [PHYSICS](#)

9 **Citations:** 105 

RESEARCH FRONT

WEB OF SCIENCE


Title: ENTANGLEMENT PURIFICATION AND CONCENTRATION OF ELECTRON-SPIN ENTANGLED STATES USING QUANTUM-DOT SPINS IN OPTICAL MICROCAVITIES

Authors: [WANG C](#); [ZHANG Y](#); JIN GS

Source: [PHYS REV A](#) 84 (3): - SEP 8 2011

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Key Lab Opt Commun & Lightwave Technol, Beijing 100876, Peoples R China.
Tsinghua Univ, Dept Phys, Beijing 100084, Peoples R China.

Field: [PHYSICS](#)

10 **Citations:** 101 

RESEARCH FRONT

WEB OF SCIENCE

Title: APPLICATIONS OF VARIATIONAL METHODS TO BOUNDARY-VALUE PROBLEM FOR IMPULSIVE DIFFERENTIAL EQUATIONS

Authors: [TIAN Y](#); [GE WG](#)

Source: [PROC EDINBURGH MATH SOC](#) 51: 509-527 PART 2 JUN 2008

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.
[Beijing Inst Technol](#), Dept Math Appl, Beijing 100081, Peoples R China.

Field: [MATHEMATICS](#)

11 **Citations:** 75 

RESEARCH FRONT

WEB OF SCIENCE


Title: ONE-STEP SYNTHESIS OF EASY-RECYCLING TIO₂-RGO NANOCOMPOSITE PHOTOCATALYSTS WITH ENHANCED PHOTOCATALYTIC ACTIVITY

Authors: [WANG P](#); [WANG J](#); [WANG XF](#); [YU HG](#); [YU JG](#); [LEI M](#); [WANG YG](#)

Source: [APPL CATAL B-ENVIRON](#) 132: 452-459 MAR 27 2013

Addresses: [Wuhan Univ Technol](#), Sch Sci, Dept Chem, Wuhan 430070, Peoples R China.
[Wuhan Univ Technol](#), State Key Lab Adv Technol Mat Synth & Proc, Wuhan 430070, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.

Field: [CHEMISTRY](#)

12 Citations: 68 

WEB OF SCIENCE

Title: SOLITON SOLUTIONS AND A BACKLUND TRANSFORMATION FOR A GENERALIZED NONLINEAR SCHRÖDINGER EQUATION WITH VARIABLE COEFFICIENTS FROM OPTICAL FIBER COMMUNICATIONS

Authors: [LU X](#); [ZHU HW](#); MENG XH; [YANG ZC](#); [TIAN B](#)

Source: [J MATH ANAL APPL](#) 336 (2): 1305-1315 DEC 15 2007

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 1000876, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Minist Educ, Key Lab Opt Commun & Lightwave Technol, Beijing 100876, Peoples R China.

Field: [MATHEMATICS](#)

13 Citations: 64 

RESEARCH FRONT

WEB OF SCIENCE


Title: HOME M2M NETWORKS: ARCHITECTURES, STANDARDS, AND QOS IMPROVEMENT

Authors: [ZHANG Y](#); [YU R](#); [XIE SL](#); YAO WQ; [XIAO Y](#); [GUIZANI M](#)

Source: [IEEE COMMUN MAG](#) 49 (4): 44-52 APR 2011

Addresses: Simula Res Lab, Oslo, [Norway](#).
[Univ Oslo](#), N-0316 Oslo, [Norway](#).
[Guangdong Univ Technol](#), Inst Intelligent Informat Proc,
Guangzhou, Guangdong, Peoples R China.
[S China Univ Technol](#), Sch Elect & Informat Engr, Guangzhou,
Guangdong, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Beijing, Peoples R China.
Univ Alabama, Dept Comp Sci, Tuscaloosa, AL 35487 USA.
[Kuwait Univ](#), Safat 13060, [Kuwait](#).

Field: [COMPUTER SCIENCE](#)

14 Citations: 52 

RESEARCH FRONT

WEB OF SCIENCE

Title: EXTENDED SRC: UNDERSAMPLED FACE RECOGNITION
VIA INTRACLASS VARIANT DICTIONARY

Authors: [DENG WH](#); HU JN; [GUO J](#)

Source: [IEEE TRANS PATT ANAL MACH INT](#) 34 (9): 1864-1870 SEP
2012

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Informat & Commun
Engr, Pattern Recognit & Intelligent Syst Lab, Beijing
100876, Peoples R China.

Field: [ENGINEERING](#)

15 Citations: 50 

RESEARCH FRONT

WEB OF SCIENCE

Title: CRYPTANALYSIS AND IMPROVEMENT OF A BIOMETRICS-
BASED REMOTE USER AUTHENTICATION SCHEME USING
SMART CARDS


Authors: LI XO; NIU JW; [MA JA](#); [WANG WD](#); [LIU CL](#)

Source: [J NETW COMPUT APPL](#) 34 (1): 73-79 JAN 2011

Addresses: [Beijing Univ Posts & Telecommun](#), State Key Lab Networking &
Switching Technol, Beijing 100876, Peoples R China.

[Beihang Univ](#), State Key Lab Software Dev Environm, Beijing 100191, Peoples R China.
Fujian Normal Univ, Fuqing Branch, Dept Math & Comp Sci, Fuqing 350300, Peoples R China.

Field: [COMPUTER SCIENCE](#)

16 Citations: 49 

RESEARCH FRONT

WEB OF SCIENCE

Title: AN EFFICIENT AND SECURITY DYNAMIC IDENTITY BASED AUTHENTICATION PROTOCOL FOR MULTI-SERVER ARCHITECTURE USING SMART CARDS

Authors: [LI X](#); XIONG YP; [MA J](#); [WANG WD](#)

Source: [J NETW COMPUT APPL](#) 35 (2): 763-769 MAR 2012

Addresses: [Beijing Univ Posts & Telecommun](#), State Key Lab Networking & Switching Technol, Beijing 100876, Peoples R China.
Wuxi SensingNet Industrializat Res Inst, Wuxi 214135, Jiangsu, Peoples R China.

Field: [COMPUTER SCIENCE](#)

17 Citations: 45 

RESEARCH FRONT

WEB OF SCIENCE

Title: VARIATIONAL METHODS TO STURM-LIOUVILLE BOUNDARY VALUE PROBLEM FOR IMPULSIVE DIFFERENTIAL EQUATIONS

Authors: [TIAN Y](#); [GE WG](#)

Source: [NONLINEAR ANAL-THEOR METH APP](#) 72 (1): 277-287 JAN 1 2010

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.
[Beijing Inst Technol](#), Dept Appl Math, Beijing 100081, Peoples R China.

Field: [MATHEMATICS](#)

18 Citations: 42 

RESEARCH FRONT

WEB OF SCIENCE

Title: RADIO RESOURCE ALLOCATION IN LTE-ADVANCED CELLULAR NETWORKS WITH M2M COMMUNICATIONS

Authors: [ZHENG K](#); HU FL; [WANG WB](#); XIANG W; [DOHLER M](#)

Source: [IEEE COMMUN MAG](#) 50 (7): 184-192 JUL 2012

Addresses: [Beijing Univ Posts & Telecommun](#), Grad Sch, Beijing, Peoples R China.
Univ So Queensland, Fac Engn & Surveying, Toowoomba, Qld 4350, [Australia](#).
Ctr Tecnol Telecommun Catalunya CTTC, Intelligent Energy IQe, Barcelona, [Spain](#).

Field: [COMPUTER SCIENCE](#)

19 Citations: 36 

WEB OF SCIENCE

Title: BIMETALLIC PDCU NANOPARTICLE DECORATED THREE-DIMENSIONAL GRAPHENE HYDROGEL FOR NON-ENZYMATIC AMPEROMETRIC GLUCOSE SENSOR

Authors: [YUAN M](#); LIU AP; [ZHAO M](#); DONG WJ; ZHAO TY; [WANG JJ](#); [TANG WH](#)

Source: [SENSOR ACTUATOR B-CHEM](#) 190: 707-714 JAN 2014

Addresses: [Zhejiang Sci Tech Univ](#), Key Lab Adv Text Mat & Mfg Technol, Minist Educ, Ctr Optoelect Mat & Devices, Hangzhou 310018, Zhejiang, Peoples R China.
[Zhejiang Univ Technol](#), Minist Educ & Zhejiang Prov, Key Lab E&M, Hangzhou 310032, Zhejiang, Peoples R China.
[Beijing Univ Posts & Telecommun](#), State Key Lab Informat Photon & Opt Commun, Beijing 100876, Peoples R China.

Field: [CHEMISTRY](#)

20 Citations: 35 

WEB OF SCIENCE

Title: ENERGY-EFFICIENT RELAY SELECTION AND POWER

ALLOCATION FOR TWO-WAY
RELAY CHANNEL WITH
ANALOG NETWORK CODING

Authors: [ZHOU M](#); CUI QM; JANTTI
R; TAO XF

Source: [IEEE COMMUN LETT](#) 16 (6):
816-819 JUN 2012

Addresses: [Beijing Univ Posts &
Telecommun](#), Wireless Technol
Innovat Inst, Beijing
100876, Peoples R China.
Aalto Univ Sch Sci & Technol,
Dept Commun & Networking,
Helsinki, [Finland](#).

Field: [COMPUTER SCIENCE](#)

21 Citations: 34



RESEARCH FRONT

WEB OF SCIENCE

Title: SELF-CONFIGURATION AND SELF-OPTIMIZATION IN LTE-
ADVANCED HETEROGENEOUS NETWORKS

Authors: [PENG MG](#); [LIANG D](#); [WEI Y](#); [LI J](#); [CHEN HH](#)

Source: [IEEE COMMUN MAG](#) 51 (5): 36-45 MAY 2013

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Informat & Commun
Engn, Beijing, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Minist Educ, Key Lab
Universal Wireless Commun, Beijing, Peoples R China.
[Natl Cheng Kung Univ](#), Dept Engn Sci, Tainan 70101, [Taiwan](#).

Field: [COMPUTER SCIENCE](#)

22 Citations: 29



RESEARCH FRONT

WEB OF SCIENCE

Title: QOE-DRIVEN USER-CENTRIC VOD SERVICES IN URBAN
MULTIHOMED P2P-BASED VEHICULAR NETWORKS

Authors: XU CQ; ZHAO FT; GUAN JF; ZHANG HK; [MUNTEAN GM](#)

Source: [IEEE TRANS VEH TECHNOL](#) 62 (5): 2273-2289 JUN 2013

Addresses: [Beijing Univ Posts & Telecommun](#), State Key Lab Networking & Switching Technol, Beijing 100876, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Inst Sensing Technol & Business, Wuxi 214135, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Beijing 100876, Peoples R China.
[Beijing Jiaotong Univ](#), Natl Engn Lab Next Generat Internet Interconnect, Beijing 100044, Peoples R China.
[Dublin City Univ](#), Rince Inst, Network Innovat Ctr, Performance Engn Lab, Sch Elect Engn, Dublin 9, [Ireland](#).

Field: [ENGINEERING](#)

23 Citations: 29 

RESEARCH FRONT

WEB OF SCIENCE


Title: A NOVEL SMART CARD AND DYNAMIC ID BASED REMOTE USER AUTHENTICATION SCHEME FOR MULTI-SERVER ENVIRONMENTS

Authors: [LI X](#); [MA J](#); [WANG WD](#); XIONG YP; [ZHANG JS](#)

Source: [MATH COMPUT MODELLING](#) 58 (1-2): 85-95 JUL 2013

Addresses: Hunan Univ Sci & Technol, Sch Comp Sci & Engn, Xiangtan 411201, Peoples R China.
[Beijing Univ Posts & Telecommun](#), State Key Lab Networking & Switching Technol, Beijing 100876, Peoples R China.

Field: [ENGINEERING](#)

24 Citations: 25 

RESEARCH FRONT

WEB OF SCIENCE

Title: BELL-POLYNOMIAL CONSTRUCTION OF BACKLUND TRANSFORMATIONS WITH AUXILIARY INDEPENDENT VARIABLE FOR SOME SOLITON EQUATIONS WITH ONE TAU-FUNCTION

Authors: [LU X](#); [TIAN B](#); QI FH

Source: [NONLINEAR ANAL-REAL WORLD APP](#) 13 (3): 1130-1138 JUN 2012

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.
[Beijing Univ Posts & Telecommun](#), State Key Lab Informat Photon & Opt Commun, Beijing 100876, Peoples R China.

Field: [MATHEMATICS](#)

25 **Citations:** 24 

RESEARCH FRONT

WEB OF SCIENCE


Title: CMT-QA: QUALITY-AWARE ADAPTIVE CONCURRENT MULTIPATH DATA TRANSFER IN HETEROGENEOUS WIRELESS NETWORKS

Authors: XU CQ; LIU TJ; GUAN JF; ZHANG HK; [MUNTEAN GM](#)

Source: [IEEE TRANS MOB COMPUT](#) 12 (11): 2193-2205 NOV 2013

Addresses: [Beijing Univ Posts & Telecommun](#), Inst Network Technol, State Key Lab Networking & Switching Technol, Beijing 100088, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Inst Sensing Technol & Business, Wuxi New Dist, Jiangsu, Peoples R China.
[Dublin City Univ](#), Performance Engn Lab, Sch Elect Engn, Network Innovat Ctr,RINCE Inst, Dublin 9, [Ireland](#).

Field: [COMPUTER SCIENCE](#)

26 **Citations:** 22 

RESEARCH FRONT

WEB OF SCIENCE

Title: HETEROGENEOUS CLOUD RADIO ACCESS NETWORKS: A NEW PERSPECTIVE FOR ENHANCING SPECTRAL AND ENERGY EFFICIENCIES

Authors: [PENG MG](#); [LI Y](#); [JIANG JM](#); [LI J](#); [WANG CG](#)

Source: [IEEE WIREL COMMUN](#) 21 (6): 126-135 DEC 2014

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Informat & Commun Engn, Beijing, Peoples R China.

[Beijing Univ Posts & Telecommun](#), Key Lab Universal Wireless Commun, Minist Educ, Beijing, Peoples R China.

[Beijing Univ Posts & Telecommun](#), Beijing, Peoples R China.

Huawei Technol Co Ltd, Shenzhen, Peoples R China.

InterDigital Commun, Wilmington, DE USA.

Field: [COMPUTER SCIENCE](#)

27 Citations: 19 

HOT PAPER 

RESEARCH FRONT

WEB OF SCIENCE

Title: NOVEL IMAGE COMPRESSION-ENCRYPTION HYBRID ALGORITHM BASED ON KEY-CONTROLLED MEASUREMENT MATRIX IN COMPRESSIVE SENSING

Authors: ZHOU NR; ZHANG AD; [ZHENG F](#); GONG LH


Source: [OPT LASER TECHNOL](#) 62: 152-160 OCT 2014

Addresses: [Nanchang Univ](#), Dept Elect Informat Engn, Nanchang 330031, Peoples R China.

[Beijing Univ Posts & Telecommun](#), Informat Secur Ctr, Beijing 100876, Peoples R China.

Nanchang Hangkong Univ, Jiangxi Prov Key Lab Image Proc & Pattern Recogni, Nanchang 330063, Peoples R China.

Field: [ENGINEERING](#)

28 Citations: 18 

RESEARCH FRONT

WEB OF SCIENCE

Title: SYNCHRONIZATION CONTROL OF MEMRISTOR-BASED RECURRENT NEURAL NETWORKS WITH PERTURBATIONS

Authors: [WANG WP](#); [LI LX](#); PENG HP; [XIAO JH](#); [YANG YX](#)

Source: [NEURAL NETWORKS](#) 53: 8-14 MAY 2014

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.

[Beijing Univ Posts & Telecommun](#), Informat Secur Ctr, State Key Lab Networking & Switching Technol, Beijing 100876, Peoples R China.

[Hangzhou Dianzi Univ.](#), Zhejiang Prov Key Lab Data Storage & Transmiss Te, Hangzhou 310018, Zhejiang, Peoples R China.

Field: [COMPUTER SCIENCE](#)

29 Citations: 15 

RESEARCH FRONT

WEB OF SCIENCE


Title: ULTRATHIN LI₃VO₄ NANORIBBON/GRAPHENE SANDWICH-LIKE NANOSTRUCTURES WITH ULTRAHIGH LITHIUM ION STORAGE PROPERTIES

Authors: [LIU J.](#); [LU PJ.](#); [LIANG S.](#); [LIU J.](#); [WANG W.](#); [LEIM.](#); [TANG S.](#); [YANG Q.](#)

Source: [NANO ENERGY](#) 12: 709-724 MAR 2015

Addresses: [Cent S Univ.](#), Sch Mat Sci & Engn, Changsha 410083, Hunan, Peoples R China.
[Pacific NW Natl Lab.](#), Richland, WA 99354 USA.
[Chinese Acad Sci.](#), Inst Phys, Beijing Natl Lab Condensed Matter Phys, Beijing 100190, Peoples R China.
[Beijing Univ Posts & Telecommun.](#), State Key Lab Informat Photon & Opt Commun, Beijing 100876, Peoples R China.

Field: [MATERIALS SCIENCE](#)

30 Citations: 13 

RESEARCH FRONT

WEB OF SCIENCE

Title: SOLITON DYNAMICS OF A DISCRETE INTEGRABLE ABLOWITZ-LADIK EQUATION FOR SOME ELECTRICAL AND OPTICAL SYSTEMS

Authors: [WANG YF.](#); [TIAN B.](#); [LI M.](#); [WANG P.](#); [JIANG Y.](#)

Source: [APPL MATH LETT](#) 35: 46-51 SEP 2014

Addresses: [Beijing Univ Posts & Telecommun.](#), State Key Lab Informat Photon & Opt Commun, Beijing 100876, Peoples R China.
[Beijing Univ Posts & Telecommun.](#), Sch Sci, Beijing 100876, Peoples R China.

Field: [MATHEMATICS](#)

31 Citations: 13 

WEB OF SCIENCE


Title: RESOURCE ALLOCATION IN SPECTRUM-SHARING OFDMA FEMTOCELLS WITH HETEROGENEOUS SERVICES

Authors: [ZHANG HJ](#); JIANG CX; [BEAULIEU NC](#); CHU XL; WEN XM; [TAO MX](#)

Source: [IEEE TRANS COMMUN](#) 62 (7): 2366-2377 JUL 2014

Addresses: [Beijing Univ Chem Technol](#), Coll Informat Sci & Technol, Beijing 100029, Peoples R China.
[Tsinghua Univ](#), Sch Informat Sci & Technol, Dept Elect Engr, Beijing 100084, Peoples R China.
[Univ Elect Sci & Technol China](#), Sch Commun & Informat Engr, Chengdu 610054, Peoples R China.
Minist Educ China, Key Lab Opt Fiber Sensing & Commun, Chengdu 611731, Peoples R China.
[Univ Sheffield](#), Dept Elect Engr, Sheffield S1 3JD, S Yorkshire, [England](#).
[Beijing Univ Posts & Telecommun](#), Commun Network Ctr, Beijing 100876, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Beijing Key Lab Network Syst Architecture & Conve, Beijing 100876, Peoples R China.
[Shanghai Jiao Tong Univ](#), Sch Elect Informat & Elect Engr, Dept Elect Engr, Shanghai 200240, Peoples R China.

Field: [COMPUTER SCIENCE](#)

32 Citations: 12 

RESEARCH FRONT

WEB OF SCIENCE

Title: DYNAMICS OF AN INTEGRABLE KADOMTSEV PETVIASHVILI-BASED SYSTEM

Authors: ZHEN HL; [TIAN B](#); SUN WR

Source: [APPL MATH LETT](#) 27: 90-96 JAN 2014

Addresses: [Beijing Univ Posts & Telecommun](#), State Key Lab Informat Photon & Opt Commun, Beijing 100876, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.

Field: [MATHEMATICS](#)

33 Citations: 11 

RESEARCH FRONT

WEB OF SCIENCE

Title: SYSTEM ARCHITECTURE AND KEY TECHNOLOGIES FOR 5G HETEROGENEOUS CLOUD RADIO ACCESS NETWORKS


Authors: [PENG MG](#); [LI Y](#); [ZHAO ZY](#); [WANG CG](#)

Source: [IEEE NETWORK](#) 29 (2): 6-14 MAR-APR 2015

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Informat & Commun Engn, Beijing 100088, Peoples R China.

[Beijing Univ Posts & Telecommun](#), Minist Educ, Key Lab Universal Wireless Commun, Beijing 100088, Peoples R China.
[InterDigital Commun](#), Wilmington, DE USA.

Field: [COMPUTER SCIENCE](#)

34 Citations: 9 

RESEARCH FRONT

WEB OF SCIENCE

Title: PHYSARUM OPTIMIZATION: A BIOLOGY-INSPIRED ALGORITHM FOR THE STEINER TREE PROBLEM IN NETWORKS

Authors: [LIU L](#); [SONG YN](#); [ZHANG HY](#); [MA HD](#); [VASILAKOS AV](#)

Source: [IEEE TRANS COMPUT](#) 64 (3): 819-U14 MAR 2015

Addresses: [Beijing Univ Posts & Telecommun](#), Beijing Key Lab Intelligent Telecommun Software &, Beijing 100876, Peoples R China.
[Univ Western Macedonia](#), Dept Comp & Telecommun Engn, Kozani 14671, [Greece](#).

Field: [COMPUTER SCIENCE](#)

35 Citations: 9 

RESEARCH FRONT

WEB OF SCIENCE

Title: OPTICAL ROGUE WAVES ASSOCIATED WITH THE NEGATIVE COHERENT COUPLING IN AN ISOTROPIC MEDIUM

Authors: [SUN WR](#); [TIAN B](#); [JIANG Y](#); [ZHEN HL](#)

Source: [PHYS REV E](#) 91 (2): - FEB 13 2015

Addresses: [Beijing Univ Posts & Telecommun](#), State Key Lab Informat Photon & Opt Commun, Beijing 100876, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.

Field: [PHYSICS](#)

36 Citations: 9 

WEB OF SCIENCE

Title: DROMION-LIKE STRUCTURES IN THE VARIABLE COEFFICIENT NONLINEAR SCHRÖDINGER EQUATION

Authors: [LIU WJ](#); [TIAN B](#); [LEI M](#)

Source: [APPL MATH LETT](#) 30: 28-32 APR 2014

Addresses: [Beijing Univ Posts & Telecommun](#), Sch Sci, Beijing 100876, Peoples R China.

Field: [MATHEMATICS](#)

37 Citations: 8 

RESEARCH FRONT

WEB OF SCIENCE

Title: DISTORTION-AWARE CONCURRENT MULTIPATH TRANSFER FOR MOBILE VIDEO STREAMING IN HETEROGENEOUS WIRELESS NETWORKS

Authors: [WU JY](#); [CHENG B](#); [YUEN C](#); SHANG YL; [CHEN JL](#)

Source: [IEEE TRANS MOB COMPUT](#) 14 (4): 688-701 APR 2015

Addresses: [Beijing Univ Posts & Telecommun](#), State Key Lab Networking & Switching Technol, Beijing 100876, Peoples R China.
Singapore Univ Technol & Design, SUTD Int Design Ctr, Singapore 138682, [Singapore](#).

Field: [COMPUTER SCIENCE](#)

38 Citations: 7 

WEB OF SCIENCE

Title: 10 GB/S HETSNETS WITH MILLIMETER-WAVE COMMUNICATIONS: ACCESS AND NETWORKING - CHALLENGES AND PROTOCOLS

Authors: [ZHENG K;](#) [ZHAO L;](#) MEI J; [DOHLER M;](#) XIANG W; PENG YX

Source: [IEEE COMMUN MAG](#) 53 (1): 222-231 JAN 2015

Addresses: [Beijing Univ Posts & Telecommun,](#) Beijing, Peoples R China.
[Kings Coll London,](#) London WC2R 2LS, [England.](#)
Univ So Queensland, Sch Mech & Elect Engr, Toowoomba, Qld 4350, [Australia.](#)

Field: [COMPUTER SCIENCE](#)

39 Citations: 7 

RESEARCH FRONT

WEB OF SCIENCE

Title: SOLITONS VIA AN AUXILIARY FUNCTION FOR AN INHOMOGENEOUS HIGHER-ORDER NONLINEAR SCHRÖDINGER EQUATION IN OPTICAL FIBER COMMUNICATIONS

Authors: [WANG YF;](#) [TIAN B;](#) [WANG M;](#) ZHEN HL

Source: [NONLINEAR DYNAMICS](#) 79 (1): 721-729 JAN 2015

Addresses: [Beijing Univ Posts & Telecommun,](#) State Key Lab Informat Photon & Opt Commun, Beijing 100876, Peoples R China.
[Beijing Univ Posts & Telecommun,](#) Sch Sci, Beijing 100876, Peoples R China.

Field: [ENGINEERING](#)

40 Citations: 7 

RESEARCH FRONT

WEB OF SCIENCE

Title: AN ENHANCED BIOMETRIC-BASED AUTHENTICATION SCHEME FOR TELECARE MEDICINE INFORMATION SYSTEMS USING ELLIPTIC CURVE CRYPTOSYSTEM

Authors: LU YR; [LI LX](#); PENG HP; [YANG YX](#)

Source: [J MED SYST](#) 39 (3): - MAR 2015

Addresses: [Beijing Univ Posts & Telecommun](#), State Key Lab Networking & Switching Technol, Informat Secur Ctr, Beijing 100876, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Natl Engr Lab Disaster Backup & Recovery, Beijing 100876, Peoples R China.

Field: [CLINICAL MEDICINE](#)

41 Citations: 7  



Title: FRONTHAUL-CONSTRAINED CLOUD RADIO ACCESS NETWORKS: INSIGHTS AND CHALLENGES


Authors: [PENG MG](#); [WANG CG](#); LAU V; [POOR HV](#)

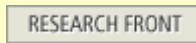
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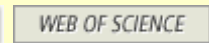
Addresses: [Beijing Univ Posts & Telecommun](#), Sch Informat & Commun Engr, Beijing 100088, Peoples R China.
[Beijing Univ Posts & Telecommun](#), Minist Educ, Key Lab Universal Wireless Commun, Grp Focusing Wireless Transmiss & Networking Tech, Beijing 100088, Peoples R China.
InterDigital Commun, Tech Staff, Innovat Lab, King Of Prussia, PA USA.
[Hong Kong Univ Sci & Technol](#), Dept ECE, Hong Kong, Hong Kong, Peoples R China.
[Hong Kong Univ Sci & Technol](#), Huawei HKUST Joint Innovat Lab, Hong Kong, Hong Kong, Peoples R China.
[Princeton Univ](#), Princeton, NJ 08544 USA.

Field: [COMPUTER SCIENCE](#)

42 Citations: 6 







Title: RECENT ADVANCES IN UNDERLAY HETEROGENEOUS NETWORKS: INTERFERENCE CONTROL, RESOURCE ALLOCATION, AND SELF-ORGANIZATION

Authors: [PENG MG](#); [WANG CG](#); [LI J](#); XIANG HY; LAU V

Source: [IEEE COMMUN SURV TUTOR](#) 17 (2): 700-729 2015

Addresses: [Beijing Univ Posts & Telecommun](#), Key Lab Universal Wireless Commun, Minist Educ, Beijing 100876, Peoples R China.
InterDigital Commun Corp, King Of Prussia, PA 19406 USA.
[Hong Kong Univ Sci & Technol](#), Dept Elect & Comp Engr, Hong Kong, Hong Kong, Peoples R China.

Field: [COMPUTER SCIENCE](#)

43 Citations: 5 

WEB OF SCIENCE

Title: ENERGY DETECTION BASED SPECTRUM SENSING FOR COGNITIVE RADIOS OVER TIME-FREQUENCY DOUBLY SELECTIVE FADING CHANNELS

Authors: [LI B](#); SUN MW; [LI XF](#); [NALLANATHAN A](#); [ZHAO CL](#)

Source: [IEEE TRANS SIGNAL PROCESS](#) 63 (2): 402-417 JAN 15 2015

Addresses: BUPT, SICE, Beijing 100876, Peoples R China.
State Radio Monitoring Ctr Testing Ctr SRTC, Shenzhen Lab, Beijing, Peoples R China.
[Kings Coll London](#), Dept Informat, London WC2R 2LS, [England](#).

Field: [ENGINEERING](#)

44 Citations: 5 

RESEARCH FRONT

WEB OF SCIENCE

Title: A LIGHTWEIGHT ID BASED AUTHENTICATION AND KEY AGREEMENT PROTOCOL FOR MULTISERVER ARCHITECTURE

Authors: LU YR; [LI LX](#); PENG HP; [YANG X](#); [YANG YX](#)

Source: [INT J DISTRIB SENS NETW](#) : - 2015

Addresses: [Beijing Univ Posts & Telecommun](#), State Key Lab Networking & Switching Technol, Informat Secur Ctr, Beijing 100876, Peoples R China.

[Beijing Univ Posts & Telecommun](#), Natl Engn Lab Disaster Backup & Recovery, Beijing 100876, Peoples R China.

Field: [COMPUTER SCIENCE](#)

45 Citations: 4 

WEB OF SCIENCE

Title: APPLICATION OF SMART ANTENNA TECHNOLOGIES IN SIMULTANEOUS WIRELESS INFORMATION AND POWER TRANSFER

Authors: [DING ZG](#); [ZHONG CJ](#); [NG DWK](#); [PENG MG](#); [SURAWEERA HA](#); [SCHOBER R](#); [POOR HV](#)

Source: [IEEE COMMUN MAG](#) 53 (4): 86-93 APR 2015

Addresses: [Princeton Univ](#), Princeton, NJ 08544 USA.

[Univ Lancaster](#), Lancaster LA1 4YW, [England](#).


[BUPT](#), Beijing, Peoples R China.

[Zhejiang Univ](#), Inst Informat & Commun Engn, Hangzhou, Zhejiang, Peoples R China.

[Univ Erlangen Nurnberg](#), Nurnberg, Germany.

[Univ Peradeniya](#), Peradeniya, [Sri Lanka](#).

Field: [COMPUTER SCIENCE](#)

46 Citations: 4 

RESEARCH FRONT

WEB OF SCIENCE

Title: GOODPUT-AWARE LOAD DISTRIBUTION FOR REAL-TIME TRAFFIC OVER MULTIPATH NETWORKS

Authors: [WU JY](#); [YUEN C](#); [CHENG B](#); [SHANG YL](#); [CHEN JL](#)

Source: [IEEE TRANS PARALL DISTRIB SYS](#) 26 (8): 2286-2299 AUG 2015

Addresses: [Beijing Univ Posts & Telecommun](#), State Key Lab Networking & Switching Technol, Beijing 100876, Peoples R China.

Singapore Univ Technol & Design, SUTD MIT Int Design Ctr,
Singapore 138682, [Singapore](#).

Field: [COMPUTER SCIENCE](#)

47 **Citations:** 4 

RESEARCH FRONT

WEB OF SCIENCE

Title: CSO: CROSS STRATUM OPTIMIZATION FOR OPTICAL AS A SERVICE

Authors: [YANG H](#); [ZHANG J](#); [ZHAO YL](#); [JI YF](#); [HAN JR](#); [LIN Y](#); [LEE Y](#)

Source: [IEEE COMMUN MAG](#) 53 (8): 130-139 AUG 2015

Addresses: [Beijing Univ Posts & Telecommun](#), Inst Informat Photon & Opt Commun, Beijing, Peoples R China.
Huawei Technol Co Ltd, Shenzhen, Guangdong, Peoples R China.

Field: [COMPUTER SCIENCE](#)

48 **Citations:** 4 

WEB OF SCIENCE

Title: COOPERATIVE NON-ORTHOGONAL MULTIPLE ACCESS IN 5G SYSTEMS

Authors: [DING ZG](#); [PENG MG](#); [POOR HV](#)

Source: [IEEE COMMUN LETT](#) 19 (8): 1462-1465 AUG 2015

Addresses: [Princeton Univ](#), Dept Elect Engn, Princeton, NJ 08544 USA.
Univ Lancaster, Sch Comp & Commun, Lancaster LA1 4WA, [England](#).
[Beijing Univ Posts & Telecommun](#), Inst Telecommun, Beijing 100876, Peoples R China.

Field: [COMPUTER SCIENCE](#)