

## 北京邮电大学 ESI 学科排名动态快报（2015 年 5 月数据）

### 提要:

美国基本科学指标（Essential Science Indicator, ESI）2015 年 5 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 30 篇，热点论文 0 篇。

### 我校论文整体情况:

2015 年 5 月 ESI 最新统计数据表明，我校 10 年内 2 个月内（2005 年 1 月 1 日至 2015 年 2 月 28 日）被 SCIE/SSCI 收录论文情况如下：

- 论文数量 5098 篇，在入围的 4678 所机构中排名 1023；
- 论文总被引次数 20363 次，在入围的 4678 所机构中排名 2001；
- 论文篇均被引次数 3.99 次，在入围的 4678 所机构中排名 4638；

### 我校 ESI 学科排名情况

根据 2015 年 5 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（2015 年 5 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	1822	386/681	11392	665/681	6.25	672/681
工程	1161	329/1151	3557	647/1151	3.06	1136/1151
计算机	1549	45/359	3106	249/359	2.01	359/359
	5098	1023/4678	20363	2001/4678	3.99	4638/4678

### 我校热点论文 Hot Papers（共 0 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 0 篇文章入选全球热点论文行列。

## 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 30 篇，表 2 具体列出了各学科高被引论文数量，其中物理 13 篇位居第一，数学 9 篇位居第二，计算机 6 篇位居第三，工程 1 篇位居第四，除以上我校优势学科外，化学学科也有贡献。30 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（2015 年 5 月数据）

排序	学科	高被引论文数
1	物理 PHYSICS	13
2	数学 MATHEMATICS	9
3	计算机 COMPUTER SCIENCE	6
4	化学 CHEMISTRY	1
5	工程 ENGINEERING	1

这 30 篇论文详细情况如下：

## HIGHLY CITED PAPERS FOR (BEIJING UNIV POSTS & TELECOMMUN) 高被引论文：（30 篇）

1 Citations: 172 

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:** 159 

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](#)

3 **Citations:** 159 

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](#)

4 **Citations:** 159 

WEB OF SCIENCE

**Title:** SPHERICAL NEBULONS AND BACKLUND TRANSFORMATION FOR A SPACE OR LABORATORY UNMAGNETIZED DUSTY PLASMA WITH SYMBOLIC COMPUTATION

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

**Source:** [EUR PHYS J D](#) 33 (1): 59-65 APR 2005

**Addresses:** [CCAST](#), World Lab, Beijing 100080, Peoples R China.  
[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, 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](#)

5 **Citations:** 155 

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](#)

6 Citations: 153 

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: 153 

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; 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](#)

8 Citations: 147 

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](#)

9 Citations: 140 

WEB OF SCIENCE

**Title:** VARIABLE-COEFFICIENT HIGHER-ORDER NONLINEAR SCHRODINGER 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](#)

10 Citations: 93 

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:** 86 

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](#)

12 **Citations:** 62 

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

**Field:** [MATHEMATICS](#)

13 **Citations:** 52 

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 Engn, 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: 43 

WEB OF SCIENCE

**Title:** ONE-STEP SYNTHESIS OF EASY-RECYCLING TIO<sub>2</sub>-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](#)

15 Citations: 40 

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](#)

16 Citations: 30 

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: 26 

RESEARCH FRONT

WEB OF SCIENCE

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


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

18 Citations: 21 

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](#)

19 Citations: 16 

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](#)

20 Citations: 15 

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](#)

21 Citations: 13 

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](#)

22 Citations: 12 

RESEARCH FRONT

WEB OF SCIENCE

**Title:** DYNAMIC BEHAVIOR OF THE QUANTUM ZAKHAROV-KUZNETSOV EQUATIONS IN DENSE QUANTUM MAGNETOPLASMAS

**Authors:** ZHEN HL; [TIAN B](#); [WANG YF](#); [ZHONG H](#); SUN WR

**Source:** [PHYS PLASMAS](#) 21 (1): - 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:** [PHYSICS](#)

23 **Citations:** 12 

RESEARCH FRONT

WEB OF SCIENCE

**Title:** DOUBLE-WRONSKIAN SOLITONS AND ROGUE WAVES FOR THE INHOMOGENEOUS NONLINEAR SCHRODINGER EQUATION IN AN INHOMOGENEOUS PLASMA

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

**Source:** [ANN PHYS N Y](#) 343: 215-227 APR 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:** [PHYSICS](#)

24 **Citations:** 11 

RESEARCH FRONT

WEB OF SCIENCE

**Title:** INTEGRABILITY AND SOLITON-LIKE SOLUTIONS FOR THE COUPLED HIGHER-ORDER NONLINEAR SCHRODINGER EQUATIONS WITH VARIABLE COEFFICIENTS IN INHOMOGENEOUS OPTICAL FIBERS

**Authors:** [WANG YF](#); [TIAN B](#); [LI M](#); [WANG P](#); [WANG M](#)

**Source:** [COMMUN NONLINEAR SCI NUMER SI](#) 19 (6): 1783-1791 JUN 2014

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

**Field:** [PHYSICS](#)

25 Citations: 10 

WEB OF SCIENCE


**Title:** SOLITON SOLUTIONS VIA AUXILIARY FUNCTION METHOD FOR A COHERENTLY-COUPLED MODEL IN THE OPTICAL FIBER COMMUNICATIONS

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

**Source:** [NONLINEAR ANAL-REAL WORLD APP](#) 14 (2): 929-939 APR 2013

**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](#)

26 Citations: 8 

RESEARCH FRONT

WEB OF SCIENCE

**Title:** DYNAMICS OF AN INTEGRABLE KADOMTSEV PETVIASHVILI-BASED SYSTEM

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

27 Citations: 7 

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](#)

28 Citations: 7 

RESEARCH FRONT

WEB OF SCIENCE

**Title:** SOLITON INTERACTIONS FOR THE THREE-COUPLED DISCRETE NONLINEAR SCHRODINGER EQUATIONS IN THE ALPHA HELICAL PROTEINS

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

**Source:** [STUD APPL MATH](#) 132 (1): 65-80 JAN 2014

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

**Field:** [MATHEMATICS](#)

29 Citations: 4 

WEB OF SCIENCE


**Title:** DROMION-LIKE STRUCTURES IN THE VARIABLE COEFFICIENT NONLINEAR SCHRODINGER 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](#)

30 **Citations:** 4 

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](#)