

## 中国科学院 2017 年度 ESI 高水平/高被引/热点论文

刚刚过去的2017年，中国科学院发展取得丰硕成果，高水平论文表现突出。在这辞旧迎新之际，中国科学院文献情报中心为全院各研究所过去一年的研究成果进行分析和报告，以飨读者。

在科睿唯安（Clarivate Analytics）的基本科学指标数据库（ESI）中，以机构“Institutions”为限定，以中国科学院英文简称“CAS”为提示，中国科学院共有55个研究所进入ESI Top1%学科机构。这55个研究所共有3509篇论文入选ESI高水平论文（Top Papers），3502篇论文入选高被引论文（Highly Cited Papers），其中37个研究所的127篇论文入选热点论文（Hot Papers）其中中国科学院化学研究所以421篇高水平论文、421篇高被引论文和30篇热点论文位居榜首，详见表1；127篇热点论文的题录信息详见表2。

### 【注】

- （1）高被引论文（Highly Cited Paper）：指按照同一年同一个ESI 学科发表论文的被引用次数按照由高到低进行排序，排在前1%的论文。
- （2）热点论文（Hot Paper）：统计某一ESI 学科最近两年发表的论文，按照最近两个月里被引用 次数进入前0.1% 的论文而给出。
- （3）高水平论文（Top Paper）：高被引论文和热点论文取并集后的论文集合。
- （4）数据统计时间截至2018年2月1日。

表 1 中国科学院 55 个研究所 2017 年度 ESI 论文

<b>中国科学院 55 个研究所 2017 年度 ESI 论文</b>					
序号	研究所中文名称	研究所英文名称	Top Papers	Highly Cited Papers	Hot Papers
1	化学研究所	INST CHEM CAS	421	421	30
2	长春应用化学研究所	CHANGCHUN INST APPL CHEM CAS	318	318	5
3	物理研究所	INST PHYS CAS	294	294	10
4	上海有机化学研究所	SHANGHAI INST ORGANIC CHEM CAS	168	167	1
5	金属研究所	INST MET RES CAS	126	126	0
6	高能物理研究所	INST HIGH ENERGY PHYS CAS	188	187	11
7	上海硅酸盐研究所	SHANGHAI INST CERAMICS CAS	113	113	2
8	福建物质结构研究所	FUJIAN INST RES STRUCT MATTER CAS	109	108	3
9	广州地球化学研究所	GUANGZHOU INST GEOCHEM CAS	78	78	0
10	过程工程研究所	INST PROC ENGN CAS	80	80	1
11	大气物理研究所	INST ATMOSPHERIC PHYS CAS	86	86	1
12	植物研究所	INST BOT CAS	71	70	3
13	地理科学与资源研究所	INST GEO SCI NAT RESOURCES RES CAS	97	97	1
14	上海应用物理研究所	SHANGHAI INST APPL PHYS CAS	82	82	5
15	国家天文台	NATL ASTRON OBSERV CAS	50	49	2
16	生物物理研究所	INST BIOPHYS CAS	50	50	4
17	动物研究所	INST ZOOL CAS	33	33	3
18	微生物研究所	INST MICROBIOL CAS	74	74	4
19	海洋研究所	INST OCEANOLOGY CAS	21	21	0
20	数学与系统科学研究院	ACAD MATH SYST SCI CAS	95	95	0

21	半导体研究所	INST SEMICONDUCTORS CAS	51	51	2
22	南京土壤研究所	INST SOIL SCI CAS	43	42	1
23	理论物理研究所	INST THEORETICAL PHYS CAS	44	44	0
24	长春光学精密机械 与物理研究所	CHANGCHUN INST OPTICAL FINE MECH PHYS CAS	32	32	1
25	寒区旱区环境与工程研究所 (现更名为西北生态环境资源 研究院)	COLD ARID REG ENVIRONM ENGN RES INST CAS	26	26	1
26	山西煤炭化学研究所	INST COAL CHEM CAS	33	33	2
27	水生生物研究所	INST HYDROBIOL CAS	17	17	1
28	南海海洋研究所	S CHINA SEA INST OCEANOLOGY CAS	15	15	0
29	华南植物园	S CHINA BOT GARDEN CAS	26	26	3
30	武汉物理与数学研究所	WUHAN INST PHYS MATH CAS	19	19	1
31	沈阳应用生态研究所	SHENYANG INST APPL ECOL CAS	44	44	0
32	心理研究所	INST PSYCHOLOGY CAS	26	26	0
33	上海微系统与信息技术研究所	SHANGHAI INST MICROSYST INFO TECHNOL CAS	16	16	0
34	南京地理与湖泊研究所	NANJING INST GEOG LIMNOLOGY CAS	31	31	0
35	地球环境研究所	INST EARTH ENVIRONM CAS	34	34	2
36	近代物理研究所	INST MODERN PHYS CAS	24	24	5
37	青岛生物能源与过程研究所	QINGDAO INST BIOMASS ENERGY BIOPROC TECHNOL CAS	25	25	2
38	北京纳米能源与系统研究所	BEIJING INST NANOENERGY NANOSYST CAS	79	78	5
39	深圳先进技术研究院	SHENZHEN INST ADV TECHNOL CAS	43	43	3
40	力学研究所	INST MECH CAS	13	13	0
41	成都生物研究所	CHENGDU INST BIOL CAS	12	12	0
42	广州生物医药与健康研究院	GUANGZHOU INST BIOMED HLTH CAS	15	15	0

43	城市环境研究所	INST URBAN ENVIRONM CAS	24	24	2
44	西双版纳热带植物园	XISHUANGBANNA TROP BOT GARDEN CAS	28	28	2
45	西安光学精密机械研究所	XIAN INST OPTIC PRECISION MECH CAS	47	47	2
46	武汉病毒研究所	WUHAN INST VIROLOGY CAS	5	5	0
47	新疆生态与地理研究所	XINJIANG INST ECOL GEOG CAS	20	20	0
48	水土保持研究所	INST SOIL WATER CONSERV CAS	27	27	1
49	广州能源研究所	GUANGZHOU INST ENERGY CONVERSION CAS	19	19	2
50	古脊椎动物与古人类研究所	INST VERTEBRATE PALEONTOLOGY PALEOANTHROPOL CAS	22	22	0
51	电工研究所	INST ELECT ENGN CAS	16	16	1
52	武汉植物园	WUHAN BOT GARDEN CAS	18	18	0
53	计算技术研究所	INST COMP TECHNOL CAS	37	37	1
54	东北地理与农园生态研究所	NE INST GEOG AGROECOL CAS	11	11	0
55	工程热物理研究所	INST ENGN THERMOPHYS CAS	13	13	1
<b>总计</b>			3509	3502	127

表 2 中国科学院 2017 年 127 篇 ESI 热点论文信息

<b>中国科学院 2017 年 127 篇 ESI 热点论文</b>							
序号	研究所	论文题名	第一作者	期刊	学科领域	被引次数	发表年份
1	化学研究所	FULLERENE-FREE POLYMER SOLAR CELLS WITH OVER 11% EFFICIENCY	ZHAO, WC	ADVAN MATER	MATERIALS SCIENCE	385	2016

	AND EXCELLENT THERMAL STABILITY					
2	ENERGY-LEVEL MODULATION OF SMALL-MOLECULE ELECTRON ACCEPTORS TO ACHIEVE OVER 12% EFFICIENCY IN POLYMER SOLAR CELLS	LI, SS	ADVAN MATER	MATERIALS SCIENCE	245	2016
3	HIGH-PERFORMANCE SOLUTION-PROCESSED NON-FULLERENE ORGANIC SOLAR CELLS BASED ON SELENOPHENE-CONTAINING PERYLENE BISIMIDE ACCEPTOR	MENG, D	J AM CHEM SOC	CHEMISTRY	207	2016
4	HIGH-PERFORMANCE ELECTRON ACCEPTOR WITH THIENYL SIDE CHAINS FOR ORGANIC PHOTOVOLTAICS	LIN, YZ	J AM CHEM SOC	CHEMISTRY	201	2016
5	ALL-POLYMER SOLAR CELLS BASED ON ABSORPTION-COMPLEMENTARY POLYMER DONOR AND ACCEPTOR WITH HIGH POWER CONVERSION EFFICIENCY OF 8.27%	GAO, L	ADVAN MATER	MATERIALS SCIENCE	191	2016
6	NON-FULLERENE POLYMER SOLAR CELLS BASED ON ALKYLTHIO AND FLUORINE SUBSTITUTED 2D-CONJUGATED POLYMERS REACH 9.5% EFFICIENCY	BIN, HJ	J AM CHEM SOC	CHEMISTRY	182	2016
7	A FACILE PLANAR FUSED-RING	LIN, YZ	J AM CHEM SOC	CHEMISTRY	174	2016

	ELECTRON ACCEPTOR FOR AS-CAST POLYMER SOLAR CELLS WITH 8.71% EFFICIENCY					
8	ZN-CU-IN-SE QUANTUM DOT SOLAR CELLS WITH A CERTIFIED POWER CONVERSION EFFICIENCY OF 11.6%	DU, J	J AM CHEM SOC	CHEMISTRY	138	2016
9	MOLECULAR DESIGN OF BENZODITHIOPHENE-BASED ORGANIC PHOTOVOLTAIC MATERIALS	YAO, HF	CHEM REV	CHEMISTRY	133	2016
10	SIDE-CHAIN ISOMERIZATION ON AN N-TYPE ORGANIC SEMICONDUCTOR ITIC ACCEPTOR MAKES 11.77% HIGH EFFICIENCY POLYMER SOLAR CELLS	YANG, YK	J AM CHEM SOC	CHEMISTRY	109	2016
11	STABILITY OF ORGANIC SOLAR CELLS: CHALLENGES AND STRATEGIES	CHENG, P	CHEM SOC REV	CHEMISTRY	107	2016
12	BIOINSPIRED INTERFACES WITH SUPERWETTABILITY: FROM MATERIALS TO CHEMISTRY	SU, B	J AM CHEM SOC	CHEMISTRY	106	2016
13	11.4% EFFICIENCY NON-FULLERENE POLYMER SOLAR CELLS WITH TRIALKYLSILYL SUBSTITUTED 2D-CONJUGATED POLYMER AS DONOR	BIN, HJ	NAT COMMUN	CHEMISTRY	105	2016
14	AN ARTIFICIAL SOLID ELECTROLYTE INTERPHASE LAYER FOR STABLE LITHIUM METAL ANODES	LI, NW	ADVAN MATER	MATERIALS SCIENCE	79	2016
15	METAL-ORGANIC FRAMEWORKS AS	ZHAO, MT	NATURE	CHEMISTRY	71	2016

	SELECTIVITY REGULATORS FOR HYDROGENATION REACTIONS					
16	THREE-BLADED RYLENE PROPELLERS WITH THREE-DIMENSIONAL NETWORK ASSEMBLY FOR ORGANIC ELECTRONICS	MENG, D	J AM CHEM SOC	CHEMISTRY	70	2016
17	FUSED NONACYCLIC ELECTRON ACCEPTORS FOR EFFICIENT POLYMER SOLAR CELLS	DAI, SX	J AM CHEM SOC	CHEMISTRY	62	2017
18	TERNARY POLYMER SOLAR CELLS BASED ON TWO ACCEPTORS AND ONE DONOR FOR ACHIEVING 12.2% EFFICIENCY	ZHAO, W	ADVAN MATER	MATERIALS SCIENCE	54	2017
19	PERSISTENT SULFATE FORMATION FROM LONDON FOG TO CHINESE HAZE	WANG, GH	PROC NAT ACAD SCI USA	GEOSCIENCES	51	2016
20	HIGH-EFFICIENCY NONFULLERENE POLYMER SOLAR CELLS WITH MEDIUM BANDGAP POLYMER DONOR AND NARROW BANDGAP ORGANIC SEMICONDUCTOR ACCEPTOR	GAO, L	ADVAN MATER	MATERIALS SCIENCE	50	2016
21	MAPPING POLYMER DONORS TOWARD HIGH-EFFICIENCY FULLERENE FREE ORGANIC SOLAR CELLS	LIN, YZ	ADVAN MATER	MATERIALS SCIENCE	49	2017
22	MOLECULAR OPTIMIZATION ENABLES OVER 13% EFFICIENCY IN ORGANIC SOLAR CELLS	ZHAO, WC	J AM CHEM SOC	CHEMISTRY	48	2017

23	TERNARY ORGANIC SOLAR CELLS BASED ON TWO COMPATIBLE NONFULLERENE ACCEPTORS WITH POWER CONVERSION EFFICIENCY > 10%	LIU, T	ADVAN MATER	MATERIALS SCIENCE	46	2016
24	SINGLE-JUNCTION BINARY-BLEND NONFULLERENE POLYMER SOLAR CELLS WITH 12.1% EFFICIENCY	ZHAO, FW	ADVAN MATER	MATERIALS SCIENCE	31	2017
25	DIVERSE APPLICATIONS OF NANOMEDICINE	PELAZ, B	ACS NANO	CHEMISTRY	23	2017
26	REALIZING SMALL ENERGY LOSS OF 0.55 eV, HIGH OPEN-CIRCUIT VOLTAGE > 1 V AND HIGH EFFICIENCY > 10% IN FULLERENE-FREE POLYMER SOLAR CELLS VIA ENERGY DRIVER	CHENG, P	ADVAN MATER	MATERIALS SCIENCE	22	2017
27	SMALL-MOLECULE ACCEPTOR BASED ON THE HEPTACYCLIC BENZODI(CYCLOPENTADITHIOPHENE) UNIT FOR HIGHLY EFFICIENT NONFULLERENE ORGANIC SOLAR CELLS	KAN, B	J AM CHEM SOC	CHEMISTRY	22	2017
28	DESIGN, SYNTHESIS, AND PHOTOVOLTAIC CHARACTERIZATION OF A SMALL MOLECULAR ACCEPTOR WITH AN ULTRA-NARROW BAND GAP	YAO, HF	ANGEW CHEM INT ED	CHEMISTRY	19	2017
29	ORGANOCATALYSIS IN INERT C-H	QIN, Y	CHEM REV	CHEMISTRY	13	2017



		BOND FUNCTIONALIZATION					
30		ACHIEVING HIGHLY EFFICIENT NONFULLERENE ORGANIC SOLAR CELLS WITH IMPROVED INTERMOLECULAR INTERACTION AND OPEN-CIRCUIT VOLTAGE	YAO, HF	ADVAN MATER	MATERIALS SCIENCE	8	2017
31	高能物理研究所	HOMOGENEOUSLY DISPERSED MULTIMETAL OXYGEN-EVOLVING CATALYSTS	ZHANG, B	SCIENCE	CHEMISTRY	140	2016
32		ULTRATHIN METAL-ORGANIC FRAMEWORK NANOSHEETS FOR ELECTROCATALYTIC OXYGEN EVOLUTION	ZHAO, SL	NAT ENERGY	ENGINEERING	67	2016
33		CONTRIBUTIONS OF PHASE, SULFUR VACANCIES, AND EDGES TO THE HYDROGEN EVOLUTION REACTION CATALYTIC ACTIVITY OF POROUS MOLYBDENUM DISULFIDE NANOSHEETS	YIN, Y	J AM CHEM SOC	CHEMISTRY	67	2016
34		SINGLE COBALT ATOMS WITH PRECISE N-COORDINATION AS SUPERIOR OXYGEN REDUCTION REACTION CATALYSTS	YIN, PQ	ANGEW CHEM INT ED	CHEMISTRY	63	2016
35		PRECISION MEASUREMENT OF THE HELIUM FLUX IN PRIMARY COSMIC RAYS OF RIGIDITIES 1.9 GV TO 3 TV	AGUILAR, M	PHYS REV LETT	PHYSICS	51	2015

		WITH THE ALPHA MAGNETIC SPECTROMETER ON THE INTERNATIONAL SPACE STATION					
36		SEARCH FOR HIGH-MASS DIPHOTON RESONANCES IN PROTON-PROTON COLLISIONS AT 13 TEV AND COMBINATION WITH 8 TEV SEARCH	KHACHATRYAN, VFR	PHYS LETT B	PHYSICS	25	2017
37		EVENT GENERATOR TUNES OBTAINED FROM UNDERLYING EVENT AND MULTIPARTON SCATTERING MEASUREMENTS	KHACHATRYAN, V	EUR PHYS J C	PHYSICS	25	2016
38		LEPTON-FLAVOR-DEPENDENT ANGULAR ANALYSIS OF $B \rightarrow K^* L^{(+)} L^{(-)}$	WEHLE, S	PHYS REV LETT	PHYSICS	18	2017
39		LUMINOSITY DETERMINATION IN PP COLLISIONS AT $\sqrt{s}=8$ TEV USING THE ATLAS DETECTOR AT THE LHC	AABOUD, M	EUR PHYS J C	PHYSICS	17	2016
40		JET ENERGY SCALE AND RESOLUTION IN THE CMS EXPERIMENT IN PP COLLISIONS AT 8 TEV	KHACHATRYAN, V	J INSTRUM	CHEMISTRY	16	2017
41		SEARCH FOR DIJET RESONANCES IN PROTON-PROTON COLLISIONS AT $\sqrt{s}=13$ TEV AND CONSTRAINTS ON DARK MATTER AND OTHER MODELS	SIRUNYAN, AM	PHYS LETT	PHYSICS	12	2017
42	物理研究所	TYPE-II WEYL SEMIMETALS	SOLUYANOV, AA	NATURE	PHYSICS	306	2015
43		RECENT ADVANCES IN TWO-	BHIMANAPATI,	ACS NANO	CHEMISTRY	276	2015

		DIMENSIONAL MATERIALS BEYOND GRAPHENE	GR				
44		UNDERSTANDING THE HIGH ACTIVITY OF FE-N-C ELECTROCATALYSTS IN OXYGEN REDUCTION: FE/FE <sub>3</sub> C NANOPARTICLES BOOST THE ACTIVITY OF FE-N-X	JIANG, WJ	J AM CHEM SOC	CHEMISTRY	154	2016
45		EXPERIMENTAL REALIZATION OF TWO-DIMENSIONAL BORON SHEETS	FENG, BJ	NAT CHEM	CHEMISTRY	141	2016
46		PHOTOCHEMICAL ROUTE FOR SYNTHESIZING ATOMICALLY DISPERSED PALLADIUM CATALYSTS	LIU, PX	SCIENCE	CHEMISTRY	92	2016
47		RISE OF SILICENE: A COMPETITIVE 2D MATERIAL	ZHAO, JJ	PROG MATER SCI	MATERIALS SCIENCE	83	2016
48		METAL-ORGANIC FRAMEWORKS AS SELECTIVITY REGULATORS FOR HYDROGENATION REACTIONS	ZHAO, MT	NATURE	CHEMISTRY	71	2016
49		AMORPHOUS RED PHOSPHORUS EMBEDDED IN HIGHLY ORDERED MESOPOROUS CARBON WITH SUPERIOR LITHIUM AND SODIUM STORAGE CAPACITY	LI, WH	NANO LETT	PHYSICS	53	2016
50		MULTI-SHELLED METAL OXIDES PREPARED VIA AN ANION-ADSORPTION MECHANISM FOR LITHIUM-ION BATTERIES	WANG, JY	NAT ENERGY	ENGINEERING	45	2016

51		ELECTRIC-FIELD CONTROL OF TRI-STATE PHASE TRANSFORMATION WITH A SELECTIVE DUAL-ION SWITCH	LU, NP	NATURE	PHYSICS	8	2017
52	长春应用化学研究所	RECENT PROGRESS IN COBALT-BASED HETEROGENEOUS CATALYSTS FOR ELECTROCHEMICAL WATER SPLITTING	WANG, JH	ADVAN MATER	MATERIALS SCIENCE	261	2016
53		INTEGRATED THREE-DIMENSIONAL CARBON PAPER/CARBON TUBES/COBALT-SULFIDE SHEETS AS AN EFFICIENT ELECTRODE FOR OVERALL WATER SPLITTING	WANG, J	ACS NANO	CHEMISTRY	90	2016
54		TERNARY FeCo <sub>1-x</sub> P <sub>x</sub> NANOWIRE ARRAY AS A ROBUST HYDROGEN EVOLUTION REACTION ELECTROCATALYST WITH Pt-LIKE ACTIVITY: EXPERIMENTAL AND THEORETICAL INSIGHT	TANG, C	NANO LETT	PHYSICS	75	2016
55		TRANSITION-METAL (CO, NI, AND FE)-BASED ELECTROCATALYSTS FOR THE WATER OXIDATION REACTION	HAN, L	ADVAN MATER	MATERIALS SCIENCE	67	2016
56		IN SITU COUPLING OF STRUNG CO <sub>4</sub> N AND INTERTWINED N-C FIBERS TOWARD FREE-STANDING BIFUNCTIONAL CATHODE FOR ROBUST, EFFICIENT, AND FLEXIBLE ZN AIR-BATTERIES	MENG, FL	J AM CHEM SOC	CHEMISTRY	51	2016

57	上海应用物理研究所	GUIDELINES FOR THE USE AND INTERPRETATION OF ASSAYS FOR MONITORING AUTOPHAGY (3RD EDITION)	KLIONSKY, DJ	AUTOPHAGY	MOLECULAR BIOLOGY & GENETICS	690	2016
58		UNDERSTANDING THE HIGH ACTIVITY OF FE-N-C ELECTROCATALYSTS IN OXYGEN REDUCTION: FE/FE <sub>3</sub> C NANOPARTICLES BOOST THE ACTIVITY OF FE-N-X	JIANG, WJ	J AM CHEM SOC	CHEMISTRY	154	2016
59		DARK MATTER RESULTS FROM FIRST 98.7 DAYS OF DATA FROM THE PANDAX-II EXPERIMENT	TAN, AD	PHYS REV LETT	PHYSICS	152	2016
60		ISOTHERMAL AMPLIFICATION OF NUCLEIC ACIDS	ZHAO, YX	CHEM REV	CHEMISTRY	128	2015
61		BIAXIALLY STRAINED PTPB/PT CORE/SHELL NANOPATE BOOSTS OXYGEN REDUCTION CATALYSIS	BU, LZ	SCIENCE	CHEMISTRY	50	2016
62	近代物理研究所	GUIDELINES FOR THE USE AND INTERPRETATION OF ASSAYS FOR MONITORING AUTOPHAGY (3RD EDITION)	KLIONSKY, JD	AUTOPHAGY	MOLECULAR BIOLOGY & GENETICS	690	2016
63		THE HIDDEN-CHARM PENTAQUARK AND TETRAQUARK STATES	CHEN, HX	PHYS REP-REV SECT PHYS LETT	PHYSICS	113	2016
64		THE AME2016 ATOMIC MASS EVALUATION (II). TABLES, GRAPHS AND	WANG, M	CHIN PHYS C	PHYSICS	29	2017

		REFERENCES					
65		THE NUBASE2016 EVALUATION OF NUCLEAR PROPERTIES	AUDI, G	CHIN PHYS C	PHYSICS	23	2017
66		A REVIEW OF THE OPEN CHARM AND OPEN BOTTOM SYSTEMS	CHEN, HX	REP PROGR PHYS	PHYSICS	13	2017
67	北京纳米能源与系统研究所	FLEXIBLE NANOGENERATORS FOR ENERGY HARVESTING AND SELF-POWERED ELECTRONICS	FAN, FR	ADVAN MATER	MATERIALS SCIENCE	94	2016
68		MICRO-CABLE STRUCTURED TEXTILE FOR SIMULTANEOUSLY HARVESTING SOLAR AND MECHANICAL ENERGY	CHEN, J	NAT ENERGY	ENGINEERING	32	2016
69		ON MAXWELLS DISPLACEMENT CURRENT FOR ENERGY AND SENSORS: THE ORIGIN OF NANOGENERATORS	WANG, ZL	MATER TODAY	MATERIALS SCIENCE	23	2017
70		HIGHLY EFFICIENT AND STABLE PEROVSKITE SOLAR CELLS BASED ON MONOLITHICALLY GRAINED CH <sub>3</sub> NH <sub>3</sub> PBI <sub>3</sub> FILM	FEI, CB	ADV ENERGY MATER	MATERIALS SCIENCE	12	2017
71		ELECTROCATALYTIC OXYGEN EVOLUTION REACTION FOR ENERGY CONVERSION AND STORAGE: A COMPREHENSIVE REVIEW	TAHIR, M	NANO ENERGY	MATERIALS SCIENCE	5	2017
72	生物物理研究所	GUIDELINES FOR THE USE AND INTERPRETATION OF ASSAYS FOR MONITORING AUTOPHAGY (3RD	KLIONSKY, DJ	AUTOPHAGY	MOLECULAR BIOLOGY & GENETICS	690	2016

		EDITION)					
73		STRUCTURE OF SPINACH PHOTOSYSTEM II-LHCII SUPERCOMPLEX AT 3.2 ANGSTROM RESOLUTION	WEI, XP	NATURE	BIOLOGY & BIOCHEMISTRY	60	2016
74		DWARF14 IS A NON-CANONICAL HORMONE RECEPTOR FOR STRIGOLACTONE	YAO, RF	NATURE	PLANT & ANIMAL SCIENCE	29	2016
75		DIVERSE APPLICATIONS OF NANOMEDICINE	PELAZ, B	ACS NANO	CHEMISTRY	23	2017
76		GUIDELINES FOR THE USE AND INTERPRETATION OF ASSAYS FOR MONITORING AUTOPHAGY (3RD EDITION)	KLIONSKY, DJ	AUTOPHAGY	MOLECULAR BIOLOGY & GENETICS	690	2016
77	微生物研究所	SHARING AND COMMUNITY CURATION OF MASS SPECTROMETRY DATA WITH GLOBAL NATURAL PRODUCTS SOCIAL MOLECULAR NETWORKING	WANG, MX	NAT BIOTECHNOL	BIOLOGY & BIOCHEMISTRY	83	2016
78		FUNGAL DIVERSITY NOTES 367-490: TAXONOMIC AND PHYLOGENETIC CONTRIBUTIONS TO FUNGAL TAXA	HYDE, KD	FUNGAL DIVERS	PLANT & ANIMAL SCIENCE	43	2016
79		PRECISE BASE EDITING IN RICE, WHEAT AND MAIZE WITH A CAS9-CYTIDINE DEAMINASE FUSION	ZONG, Y	NAT BIOTECHNOL	BIOLOGY & BIOCHEMISTRY	20	2017

80		MULTIFUNCTIONAL METAL-ORGANIC FRAMEWORK CATALYSTS: SYNERGISTIC CATALYSIS AND TANDEM REACTIONS	HUANG, YB	CHEM SOC REV	CHEMISTRY	54	2017
81	福建物质结构研究所	METAL-CATALYZED DECARBOXYLATIVE C-H FUNCTIONALIZATION	WEI, Y	CHEM REV	CHEMISTRY	17	2017
82		LUMINESCENT THREE- AND FOUR-COORDINATE DINUCLEAR COPPER(I) COMPLEXES TRIPLY BRIDGED BY BIS(DIPHENYLPHOSPHINO)METHANE AND FUNCTIONALIZED 3-(2-PYRIDYL)-1,2,4-TRIAZOLE LIGANDS	HE, LH	INORG CHEM	CHEMISTRY	3	2017
83		A COMMUNITY-DERIVED CLASSIFICATION FOR EXTANT LYCOPHYTES AND FERNS	SCHUETTPELZ, E	J SYST EVOL	PLANT & ANIMAL SCIENCE	40	2016
84	植物研究所	LIGHT-INDUCED STRUCTURAL CHANGES AND THE SITE OF O=O BOND FORMATION IN PSII CAUGHT BY XFEL	SUGA, M	NATURE	BIOLOGY & BIOCHEMISTRY	28	2017
85		CONCOMITANT LOSS OF NDH COMPLEX-RELATED GENES WITHIN CHLOROPLAST AND NUCLEAR GENOMES IN SOME ORCHIDS	LIN, CS	PLANT J	PLANT & ANIMAL SCIENCE	4	2017
86	动物研究所	GUIDELINES FOR THE USE AND INTERPRETATION OF ASSAYS FOR MONITORING AUTOPHAGY (3RD	KLIONSKY, DJ	AUTOPHAGY	MOLECULAR BIOLOGY & GENETICS	690	2016



		EDITION)					
87		NUCLEAR M(6)A READER YTHDC1 REGULATES MRNA SPLICING	XIAO, W	MOL CELL	MOLECULAR BIOLOGY & GENETICS	66	2016
88		MULTIFACETED BIOLOGICAL INSIGHTS FROM A DRAFT GENOME SEQUENCE OF THE TOBACCO HORNWORM MOTH, MANDUCA SEXTA	KANOST, MR	INSECT BIOCHEM MOLEC BIOL	PLANT & ANIMAL SCIENCE	16	2016
89		GUIDELINES FOR THE USE AND INTERPRETATION OF ASSAYS FOR MONITORING AUTOPHAGY (3RD EDITION)	KLIONSKY, D	AUTOPHAGY	MOLECULAR BIOLOGY & GENETICS	690	2016
90	华南植物园	DUAL MECHANISMS REGULATING GLUTAMATE DECARBOXYLASES AND ACCUMULATION OF GAMMA-AMINOBUTYRIC ACID IN TEA (CAMELLIA SINENSIS) LEAVES EXPOSED TO MULTIPLE STRESSES	MEI, X	SCI REP	PLANT & ANIMAL SCIENCE	34	2016
91		REASSESSMENT OF THE FOUR YIELD-RELATED GENES GN1A, DEP1, GS3, AND IPA1 IN RICE USING A CRISPR/CAS9 SYSTEM	LI, MR	FRONT PLANT SCI	PLANT & ANIMAL SCIENCE	31	2016
92	深圳先进技术研究院	GUIDELINES FOR THE USE AND INTERPRETATION OF ASSAYS FOR MONITORING AUTOPHAGY (3RD	KLIONSKY, DJ	AUTOPHAGY	MOLECULAR BIOLOGY & GENETICS	690	2016

		EDITION)					
93		FAST MOTION ESTIMATION BASED ON CONTENT PROPERTY FOR LOW-COMPLEXITY H.265/HEVC ENCODER	PAN, ZQ	IEEE TRANS BROADCASTING	COMPUTER SCIENCE	50	2016
94		FAST REFERENCE FRAME SELECTION BASED ON CONTENT SIMILARITY FOR LOW COMPLEXITY HEVC ENCODER	PAN, ZQ	J VIS COMMUN IMAGE REPRESENT	COMPUTER SCIENCE	18	2016
95	上海硅酸盐研究所	NITROGEN-DOPED MESOPOROUS CARBON OF EXTRAORDINARY CAPACITANCE FOR ELECTROCHEMICAL ENERGY STORAGE	LIN, TQ	SCIENCE	CHEMISTRY	305	2015
96		METALLOPORPHYRIN-ENCAPSULATED BIODEGRADABLE NANOSYSTEMS FOR HIGHLY EFFICIENT MAGNETIC RESONANCE IMAGING-GUIDED SONODYNAMIC CANCER THERAPY	HUANG, P	J AM CHEM SOC	CHEMISTRY	21	2017
97	国家天文台	THE CLUSTERING OF GALAXIES IN THE COMPLETED SDSS-III BARYON OSCILLATION SPECTROSCOPIC SURVEY: COSMOLOGICAL ANALYSIS OF THE DR12 GALAXY SAMPLE	ALAM, S	MON NOTIC ROY ASTRON SOC	SPACE SCIENCE	13	2017

98		GALAXY FORMATION IN THE PLANCK COSMOLOGY - IV. MASS AND ENVIRONMENTAL QUENCHING, CONFORMITY AND CLUSTERING	HENRIQUES, BMB	MON NOTIC ROY ASTRON SOC	SPACE SCIENCE	6	2017
99	半导体研究所	ENHANCED ELECTRON EXTRACTION USING SNO <sub>2</sub> FOR HIGH-EFFICIENCY PLANAR-STRUCTURE HC(NH <sub>2</sub> ) <sub>2</sub> PBI <sub>3</sub> -BASED PEROVSKITE SOLAR CELLS	JIANG, Q	NAT ENERGY	ENGINEERING	38	2017
100		ULTRA-BRIGHT AND HIGHLY EFFICIENT INORGANIC BASED PEROVSKITE LIGHT-EMITTING DIODES	ZHANG, LQ	NAT COMMUN	MULTIDISCIPLINARY	10	2017
101	山西煤炭化学研究所	POWERING LITHIUM-SULFUR BATTERY PERFORMANCE BY PROPELLING POLYSULFIDE REDOX AT SULFIPHILIC HOSTS	YUAN, Z	NANO LETT	PHYSICS	112	2016
102		EFFICIENT, SELECTIVE AND SUSTAINABLE CATALYSIS OF CARBON DIOXIDE	SONG, QW	GREEN CHEM	CHEMISTRY	14	2017
103	地球环境研究所	THE ANTHROPOCENE IS FUNCTIONALLY AND STRATIGRAPHICALLY DISTINCT FROM THE HOLOCENE	WATERS, CN	SCIENCE	GEOSCIENCES	116	2016
104		PERSISTENT SULFATE FORMATION FROM LONDON FOG TO CHINESE HAZE	WANG, GH	PROC NAT ACAD SCI USA	GEOSCIENCES	51	2016

105	青岛生物能源与过程研究所	MICROBIAL SURFACE COLONIZATION AND BIOFILM DEVELOPMENT IN MARINE ENVIRONMENTS	DANG, HY	MICROBIOL MOL BIOL REV	MICROBIOLOGY	49	2016
106		EXCEPTIONAL MORPHOLOGY-PRESERVING EVOLUTION OF FORMAMIDINIUM LEAD TRIIODIDE PEROVSKITE THIN FILMS VIA ORGANIC-CATION DISPLACEMENT	ZHOU, YY	J AM CHEM SOC	CHEMISTRY	47	2016
107	城市环境研究所	PERSISTENT SULFATE FORMATION FROM LONDON FOG TO CHINESE HAZE	WANG, GH	PROC NAT ACAD SCI USA	GEOSCIENCES	51	2016
108		UNCOVERING THE RECYCLING POTENTIAL OF NEW WEEE IN CHINA	ZENG, XL	ENVIRON SCI TECHNOL	ENVIRONMENT/ECOLOGY	29	2016
109	西双版纳热带植物园	WEAK TRADEOFF BETWEEN XYLEM SAFETY AND XYLEM-SPECIFIC HYDRAULIC EFFICIENCY ACROSS THE WORLDS WOODY PLANT SPECIES	GLEASON, SM	NEW PHYTOL	PLANT & ANIMAL SCIENCE	61	2016
110		THE BROAD FOOTPRINT OF CLIMATE CHANGE FROM GENES TO BIOMES TO PEOPLE	SCHEFFERS, BR	SCIENCE	ENVIRONMENT/ECOLOGY	22	2016
111	西安光学精密机械研究所	SALIENT BAND SELECTION FOR HYPERSPECTRAL IMAGE CLASSIFICATION VIA MANIFOLD RANKING	WANG, Q	IEEE TRANS NEURAL NETW LEARN	COMPUTER SCIENCE	50	2016
112		REMOTE SENSING IMAGE SCENE CLASSIFICATION: BENCHMARK AND STATE OF THE ART	CHENG, G	PROC IEEE	ENGINEERING	5	2017

113	广州能源研究所	REVIEW OF NATURAL GAS HYDRATES AS AN ENERGY RESOURCE: PROSPECTS AND CHALLENGES	CHONG, ZR	APPL ENERG	ENGINEERING	110	2016
114		NEW PROVINCIAL CO2 EMISSION INVENTORIES IN CHINA BASED ON APPARENT ENERGY CONSUMPTION DATA AND UPDATED EMISSION FACTORS	SHAN, YL	APPL ENERG	ENGINEERING	15	2016
115	上海有机化学研究所	CHLORODIFLUOROMETHANE-TRIGGERED FORMATION OF DIFLUOROMETHYLATED ARENES CATALYSED BY PALLADIUM	FENG, Z	NAT CHEM	CHEMISTRY	5	2017
116	过程工程研究所	MULTI-SHELLED METAL OXIDES PREPARED VIA AN ANION-ADSORPTION MECHANISM FOR LITHIUM-ION BATTERIES	WANG, JY	NAT ENERGY	ENGINEERING	45	2016
117	大气物理研究所	PERSISTENT SULFATE FORMATION FROM LONDON FOG TO CHINESE HAZE	WANG, GH	PROC NAT ACAD SCI USA	GEOSCIENCES	51	2016
118	地理科学与资源研究所	GREENING OF THE EARTH AND ITS DRIVERS	ZHU, ZC	NAT CLIM CHANGE	ENVIRONMENT/ECOLOGY	56	2016
119	南京土壤研究所	THE KEY TO VN HOMEOSTASIS IN PLANTS: REGULATION OF MN TRANSPORTERS	SHAO, JF	TRENDS PLANT SCI 22	PLANT & ANIMAL SCIENCE	4	2017

120	长春光学精密机械与物理研究所	CSPBXMN1-XCL3 PEROVSKITE QUANTUM DOTS WITH HIGH MN SUBSTITUTION RATIO	LIU, HW	ACS NANO	CHEMISTRY	20	2017
121	寒区旱区环境与工程研究所 (现更名为西北生态环境资源研究院)	SOURCES OF BLACK CARBON TO THE HIMALAYAN-TIBETAN PLATEAU GLACIERS	LI, CL	NAT COMMUN	GEOSCIENCES	29	2016
122	水生生物研究所	GUIDELINES FOR THE USE AND INTERPRETATION OF ASSAYS FOR MONITORING AUTOPHAGY (3RD EDITION)	KLIONSKY, DJ	AUTOPHAGY	MOLECULAR BIOLOGY & GENETICS	690	2016
123	武汉物理与数学研究所	DIVERSE APPLICATIONS OF NANOMEDICINE	PELAZ, B	ACS NANO	CHEMISTRY	23	2017

124	水土保持研究所	RESPONSE OF SOIL ORGANIC CARBON AND NITROGEN STOCKS TO SOIL EROSION AND LAND USE TYPES IN THE LOESS HILLY-GULLY REGION OF CHINA	LI, ZW	SOIL TILL RES	AGRICULTURAL SCIENCES	10	2017
125	电工研究所	PRECISION MEASUREMENT OF THE HELIUM FLUX IN PRIMARY COSMIC RAYS OF RIGIDITIES 1.9 GV TO 3 TV WITH THE ALPHA MAGNETIC SPECTROMETER ON THE INTERNATIONAL SPACE STATION	AGUILAR, M	PHYS REV LETT	PHYSICS	51	2015
126	计算技术研究所	DRUG-TARGET INTERACTION PREDICTION: DATABASES, WEB SERVERS AND COMPUTATIONAL MODELS	CHEN, X	BRIEF BIOINFORM	COMPUTER SCIENCE	24	2016
127	工程热物理研究所	PERFORMANCE INVESTIGATION OF A COMBINED HEAT PUMP TRANSFORMER OPERATING WITH WATER/LITHIUM BROMIDE	LIU, F	ENERG CONV MANAGE	ENGINEERING	5	2017

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