·Information Update-

Funding of Research Fund for International Young Scientist in 2012

Serial	Project Title	Applicant	Host Insitution
number			
1	Study of Persistent Current in High Temperature	Fei Yen	Southwest Jiaotong
	Superconducting Coils		University
2	High-pressure study of inorganic scintillators	Venkata Krishnan Kanchana	Jilin University
3	Galaxy Formation	Zemp Marcel	Peking University
4	Type Ia Supernovae spectral analysis using the Nearby Supernova Factory data sample	Chotard Nicolas	National Astronomical Observatories, CAS
5	Emission spectroscopy in Fast Ionization Wave Discharge	Takashima Keisuke	Tsinghua University
6	Binary evolution: explaining transients, improving techniques and developing applications	Justham Stephen	National Astronomical Observatories, CAS
7	Multi-scale Modeling and Simulations of Quantum Plasmon Enhanced Intermediate Band Solar Cells	Jin-Ho Choi	University of Science and Technology of China
8	The formation of stars and planets	Herczeg Joseph Gregory	Peking University
9	Nature of the low-lying scalar mesons and its implication for	MukherjeeTamal Kumar	Institute of High Energy Physics, CAS
10	QCD phase transition Development of Non-Equilibirum Ionization Spectral	Foster Robert	
10	Emission Code for X-ray Astronomy	Adam Robert	Purple Mountain Observatory, CAS
11	Next Generation Graphene Supercapacitors: Flexible and	Edward Banks	Central South University
	Printable	Craig	
12	Catalytic Conversion of Biomass-derived Carbohydrates to	Zakai I Uzma	Guangzhou Institute of
	High-quality Liquid Bio-fuels in Bifunctional Catalytic		Energy Conversion, CAS
	System		(GIEC)
13	Investigation of self-assembled organic structures with atomic force microscopy	Voitchovsky Kislon	Central South University
14	Seasonal variation and Oxidative activity of PM2.5	Dutta Anindita	Peking University
	components		
15	Development of Sensitivity-Enhanced NMR	Bajaj Singh	Wuhan Institute of Physics
		Vikram	and Mathematics, CAS
16	Community structures and ecological functions of microbes	Dastager Gulam	Institute of Microbiology,
	in typical deep-sea environments	Syed	CAS
17	The influence of indigenous N-fixing trees on soil nutrition,	Mortimer Edward	Kunming Institute of
	soil communities and crop productivity	Peter	Botany, CAS
18	Role of GPCRs in Alzheimer's disease: underlying	Marcucci Josefina	Shanghai Institutes for
	mechanisms and discovering new therapeutics targets.	Hebe	Biological Sciences, CAS

19	Alkaline Phosphatase Fusion Probe	Koksharov Mikhail	Hangzhou Normal
			University
20	Integrative large-scale analysis of human	Kasia Bozek	Shanghai Institutes for
	brain metabolism		Biological Sciences, CAS
21	MD simulations on GPCRs for improvement of	Steffen Wolf	Shanghai Institutes for
	GPCR protein crystallization		Biological Sciences, CAS
22	Age-specific regulation of alternative	Khrameeva	Shanghai Institutes for
	splicing by small non-coding RNAs in human brain	Ekaterina	Biological Sciences, CAS
23	Proof of principle for using metabolic	Valencak Giovanna	Institute of Genetics and
	fingerprinting to diagnose dietary	Teresa	Developmental Biology,
	macronutrient intake		CAS
24	Influence of the stratospheric sudden	Nath Debashis	Institute of Atmospheric
	warming on the tropical convection and		Physics, CAS
	gravity wave activity		
25	Experiment and simulation on long-term mechanical	Tam Wing Yan	Tongji University
	behavior and durability of high-grade recycled concrete	Vivian	
26	Risk of Vehicle Rollover and Slippage Based on Simulation	Ardakani Kamali	Southeast University
	of Vehicle Dynamics	Mostafa	
27	New Concepts for Simultaneous Solar Water Purification	Marta Vivar	Tianjin University
	and Renewable Electricity Generation		
28	Research on Asphalt Mixture Testing and Computer	Adhikari Sanjeev	Chang'an University
	Simulation		
29	Iron Oxide-Gold multimodality theranostics against hepatic	Yousaf Muhammad	Peking University
	fibrosis	Zubair	
30	Deformation mechanisms and theoretical study of Zirconium	Chapius Adrien	Chongqing University
	alloy at high temperature		
31	Novel Methods for Controlling Microstructure in 3D Laser	Wellburn Daniel	Northeast University
	Rapid Prototyping of Superalloys		
32	X-ray tube based on field-emission cathode	Doknnia Kumar Anand	Southeast University
33	Structural interpretation of unconstrained online handwritten	Delaye Adrien	Institute of Automation,
24	notes	Cuan Daha	CAS
34	The Triangular Emission Trade among China, Africa and OECD Countries	Guan Dabo	Institute of Applied Ecology, CAS
25	The effect of nanoencapsulation on topical delivery of	Vhanaan Daiaahaa	
35	adapalene	Khengar Rajeshree	Tianjin University
36	 	Mohammad Sohail	Institute of Microbiology
50	To investigate the roles of Toll/interleukin-1 receptor (TIR) signaling pathway and their interactions with NLRs/TLRs in	wionammau Sonan	Institute of Microbiology, CAS
	host innate immune responses during bacterial pathogenesis		CAS
	and parasitic infection of human importance		
37	Meiotic recombination function of Trip13 in breast cancer	Jeong Ji-Hak	Central South University
		-	-
38	Novel synthetic opioids as potential therapeutics for the	Fichna Jakub	Tongji University
	treatment of gastrointestinal disorders and inflammatory		
	conditions		

39	Investigation of brain structure and function in major	Martin Walter	Institute of Automation,
	depressive disorder (MDD) using multimodal imaging		CAS
	analyses		
40	Synthesis and antimicrobial activity of coumarin imidazoles	Guri Lakishmi	Southwest University
	as a new type of antibacterial and antifungal agents	Vasantha Damu	

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Funding of FY 2012 NSFC-NIH Joint Program on Biomedical Research

Serial	Project Title	Chinese PI	Home Institution	U.S. PI	Home Institution
No.					
1	Improved methods for	Tian, Jie	Institute of Automation,	GILLIES,	Moffit Cancer
	radiomics of lung screening CT		Chinese Academy of	Robert	Center
	scans		Sciences		
2	Integration of RDGN with	Wu,	Tongji Hospital, Huazhong	PESTELL,	Thomas Jefferson
	androgen receptor function in	Kongming	University of Science and	Richard	University
	prostate cancer		Technology		
3	Enhancing CIK (NK-T) cell	Zhang, Yi	Zhengzhou University	KALINSKI	University of
	homing to tumors			, Pawel	Pittsburgh
4	Mechanism and role of alternative	Tang, Liling	Chongqing University	WU,	Ohio University
	splicing of mdm2 in regulation of			Shiyong	
	UVB-induced and oxidative-				
	stress-mediated apoptosis				
5	Allelic Expression Imbalance	Ren,	Sun Yat-Sen University	ZHENG,	Vanderbilt
	of Breast Cancer Genetic Loci	Zhefang		Wei	University
					Medical Center
6	Role of BRCA1 in DNA	Jiang, Wei	Cancer Institute/Hospital of	WU,	Scripps Research
	double-strand break repair and		the Chinese Academy of	Xiaohua	Institute
	breast cancer treatment		Medical Sciences		
7	Monoallelic expression in	Wu, Qiang	Shanghai Jiaotong	HANNON,	Cold Spring
	SR-protein-driven	_	University	Gregory	Harbor Laboratory
	tumorigenesis		-		-
8	Reversibly cross-linked	Liu, Gang	Tsinghua University,	LAM, Kit	University of
	targeted nanotherapeutics for	_	Department of		California, Davis
	metastatics cancers		Pharmacology and		
			Pharmaceutical Sciences		
9	Roles of Smurfs in Hedgehog	Cheng Yan	Nanjing Medical University	ZHANG,	National Cancer
	signaling and medulloblastoma	Ü		Ying	Institute of
					National Institutes
					of Health

10	Viral Mediated Type I Interferon Induction	Liu, Ying-Fang	Institute of Biophysics, Chinese Academy of Sciences	Cheng, Genhong	UCLA Department of Microbiology, Immunology and Molecular Genetics
11	Signal transduction regulating T-cell development	Liu, Xiaolong	Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Sciences	Sun, Shao-Cong	University of Texas MD Anderson Cancer Center
12	The immune-modulating role of selenoprotein K in foam cell formation and atherosclerosis	Huang, Zhi	Jinan University	Hoffmann, Peter R.	University of Hawaii
13	Bacterial Agents for therapy of hepatitis B virus infection	Wu, Jianguo	Wuhan University	Lu, Sangwei	University of California at Berkeley
14	T-cell Immune Responses to Schistosome Infection in the elderly	Wu, Zhongdao	Zhongshan School of Medicine, Sun Yat-sen University	Su, Dong-Ming	University of North Texas Health Science Center
15	Joint Project Title: U.SChina Program to Identify Novel Antimicrobials	Zhang, Lixin	Institute of Microbiology, Chinese Academy of Sciences (IMCAS)	Gilmore, Michael	Massachusetts Eye and Ear Infirmary, Harvard Medical School
16	Cell-Mediated Immune Responses to Bioconjugate Vaccines for the Prevention of Staphylococcal Infection	Zou, Quanming	Third Military Medical University	Lee, Jean	Brigham and Women's Hospital and Harvard Medical School
17	Manipulating the biosynthesis of capuramycin-type antibiotics for new anti-TB drugs	Yang, Zhaoyong	Peking Union Medical College	Van Lanen, Steven	University of Kentucky
18	The Nlrp3 Inflammasome in Gut Homeostasis; Study for the function of inflammasome in the development of inflammatory bowel disease and the related mechanism	Meng, Guangxun	Key Laboratory of Molecular Virology & Immunology, Institute Pasteur of Shanghai, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences	Strober, Warren	NIAID, Mucosal Immunity Section, Laboratory of Host Defenses (LHD)
19	Countermeasures Against Severe Fever with Thrombocytopenia Syndrome Virus	Liang, Mifang	National Institute for Viral Diseases Control and Prevention, China CDC	Feldmann, Heinrich	NIAID, Laboratory of Virology
20	Antibody therapy directed against a novel surface protein crucial for MRSA colonization and infection	Li, Min	Fudan University, Shanghai Medical College Huashan Hospital, Department of Laboratory Medicine	Otto, Michael	NIAID, Laboratory of Human Bacterial Pathogenesis

21	Multimodal Imaging of Thalamic Dysfunction in	Zhang Minming	Zhejiang University	Freedman, Robert	University of Colorado, Denver
22	Schizophrenia Pediatric Template of Brain Perfusion and Connectivity	Fan, Yong	Institute of Automation, Chinese Academy of Sciences	WANG, Danny	University of California Los Angeles
23	System-wide Immunohistochemical and Proteomic Analyses of Sp4 Mouse Brain	Wan Chunling	Shanghai Jiaotong University	ZHOU, XIANJIN	University of California San Diego
24	Arc Regulation of Shank3 Expression and Ubiquitination	Tu Jiancheng	Wuhan University	Worley, Paul	Johns Hopkins School of Medicine
25	Characterizing the Genetic Systems of Autism through Multi-Disease Analysis	Xing Qing-he	Fudan University	Wall, Dennis	Harvard Medical School
26	Biomarkers in First Episode Schizophrenia	Wang Jijiong	Shanghai Mental Health Center	GOFF, DONALD	New York University School of Medicine
27	Study of Biomarkers of Homeostatic Dysregulation in Bipolar Disorder	Li Tao	West China Hospital, Sichuan University	MERIKAN GAS, Kathleen	NIMH IRG
28	Development of Sensitive Radiotracers for Imaging Efflux Transporters at the Blood-brain Barrier with Positron Emission Tomography	Peng Yiyuan	Jiangxi Normal University	PIKE, Victor	NIMH Intramural Res. Pro. (IRG)
29	Identification of the Expression Signature and Susceptibility SNPs of miRNAs for Schizophrenia	Li Keshen	Guangdong Medical College	LI, Zheng	NIMH IRG
30	CryoEM Analysis of HIV/SIV Particle Stability and Native Trimer-Complexes	Zhu, Ping	National Laboratory of Biomacromolecules	Binley, James	Torrey Pines Institute for Molecular Studies
31	Cytomegalovirus gene function in virulence and replication	Xiao, Gengfu	Wuhan Institute of Virology, Chinese Academy of Sciences	Liu, Fenyong	University of California, Berkeley
32	Protection from HIV by GPI-anchored antibody derivatives	Zhou, Paul	Institute Pasteur of Shanghai	Butel, Janet S.	Baylor College of Medicine
33	Susceptibility and resistance of recombinant Chinese HIV strains to the antivirals targeted to capsid	Ma, Liying	NCAIDS, China CDC	Debnath, Asim Kumar	New York Blood Center
34	Role of CycK complexes in HIV replication	Li, Qintong	Sichuan University	Peterlin, Boris Matija	University of California, San Francisco

35	Cardiac steatosis in	Wang, Ning	NCAIDS, China CDC	Lai,	Johns Hopkins
	HIV-infected Persons in China			Shenghan	University
36	Novel Flavopiridol Analogues	Xiao,	Institute of Materia Medica,	Lee,	University of
	as Potent Anti-HIV Agents	Zhiyan	CAMS, PUMC	Kuo-Hsiung	North Carolina
					(UNC)
37	Phylogenetic analysis of HIV	Xing, Hui	NCAIDS, China CDC	Vermund,	Vanderbilt
	transmission clusters among	& Shao,		Sten	University
	MSM in Beijing	Yiming			Medical Center
38	Screening for anti-HIV-1 bNAb	Yang,	Union Hospital, Tongji	Gao, Yong	Case Western
	(broadly neutralizing antibody)	Dongliang	Medical College, Huazhong		Reserve
	in huCD4/CCR5 transgenic		University of Science and		University
	mice immunized with		Technology		
	multivalent vaccine				
39	NK cell mediated immune	Shao,	China CDC	Altfeld,	Ragon Institute of
	pressure in HIV-1 infection	Yiming		Marcus	MGH, MIT, &
					Harvard
40	Efficacy of SAMTs and SFT as	Zhang,	Fudan University, Shanghai	Appella,	National Cancer
	Topical Microbicides; Development	Xiaoyan	Public Health Clinical Center	Ettore	Institute, NIH
	of Combination Therapies				
	Containing HIV Nucleocapsid NCp7				
	Inhibitors and gp41 Fusion				
	Inhibitors as the Rectal Microbicide				
	Candidate				
41	Multispecific HIV-1 entry	Jiang, Shibo	Fudan University, Shanghai	Dimitrov,	National Cancer
	inhibitors targeting both gp120		Medical College and	Dimiter	Institute, NIH
	and gp41		Institute of Medical		
			Microbiology		
42	Counteraction of Cell	Yu,	Jilin University	Freed, Eric	National Cancer
	Restriction Factor Tetherin by	Xianghui			Institute, NIH
	HIV-1 Vpu				

Nine Projects Jointly Funded by NSFC and MRC in 2012

National Natural Science Foundation of China (NSFC) and the Medical Research Council of the United Kingdom (MRC) jointly support research programs in the field of stem cell. After evaluation and consultation between NSFC and MRC, 9 out of 10 proposals are approved. The funding period is from October 1, 2012 to September 30, 2013:

Serial	Project Name	Chinese PI	British PI
number			
1	Investigation of therapeutic strategies to promote	Sun Xinghuai	Gloria Astrid Limb
	endogenous retinal regeneration by Müller stem	Fudan University	UCL Institute of
	cells		Ophthalmology
2	Polycomb repressive complex 2 regulation of	Shen Xiaohua	Francis Szele
	neurogenesis	Tsinghua University	Department of Physiology,
			Anatomy and Genetics, Univ.
			of Oxford
3	Developing stem cell-related therapies for the	MA Esteban	Jon Frampton
	treatment of inherited and acquired liver disease	Guangzhou Institute of	Univ. of Birmingham
		Biomedicine And Health,	
		CAS	
4	Characterisation of the motoneurons obtained from	Xu Jun	Ke Ning
	induced pluripotent stem cells (iPS) and their use	Tongji University	Sheffield Institute of
	in the study of the pathogenic mechanisms		Translational Neuroscience
	occurring in Amyotrophic Lateral Sclerosis (ALS)		(SITraN), Univ. of Sheffield
5	Functional Study of Mitotic Checkpoint in Human	Na Jie	Peter Andrews
	Embryonic Stem Cells	Tsinghua University	Univ. of Sheffield
6	Epigenetic control of stem cell activity during	Xu Guoliang	Botchkarev Vladimir
	epithelial tissue regeneration	Shanghai Institutes for	Centre for Skin Sciences,
		Biological Sciences, CAS	School of Life Sciences,
			Univ. of Bradford, UK
7	Development of in vitro Model for HBV and HCV	Zhou Xiaoling	David Hay
	using Human Embryonic Stem Cell	Shantou University	MRC Centre for Regenerative
			Medicine, Univ. of Edinburgh
8	Steroid receptor as targets for myelin regeneration	He Cheng	Robin Franklin
	by endogeous neural stem cell	The Second Military	Cambridge Stem Cell Institute
		Medical University	
9	The role of pro-inflammatory mesenchymal stem	Sun Lingyun	Ilaria Bellantuono
	cells in rheumatoid arthritis	Nanjing University	Mellanby Centre for Bone
			Research (MCBR), Univ. of
			Sheffield, UK

Funding of Key Program Projects in 2012

Serial	Project Title	Applicant
number		
1.	Differentiable dynamical systems	Wen Lan
2.	Noncommutative geometry and its applications	Chen
		Xiaoman
3.	The geometry of algebraic varieties	Tan Shengli
4.	Algebraic methods in combinatorics	Chen
		Yongchuan
5.	Reserch on some stochastic analysis problems in mathematical finance	Chen
		Zengjing
6.	Hydrodynamics equations in multi-physics coupling processes	Wang
		Weike
7.	Control theory of distributed parameter systems and applications	Zhang Xu
8.	Cayley graphs, symmetric graphs, and maps on surfaces	Li Caiheng
9.	Complex dynamics and its applications	Wang
		Yuefei
10.	Statistical inference for complex longitudinal data	Sun
		Liuquan
11.	Damage identification and damage evolution for fiber reinforced composite materials	Su Xianyue
12.	Wing-kinematics measurement and studies on aerodynamics and flight dynamics in forward	Sun Mao
	flying insects	
13.	Multilevel modeling and computational method for mechanical analysis of fluid-saturated	Zhang
	porous media	Hongwu
14.	Key theories and technologies of customer-driven vehicle crashworthiness design	Han Xu
15.	On neurodynamics research and experimental analysis of perceptual cognition and decision	Wang
	making	Rubin
16.	Measurements and analysis on the turbulent structures and flow features of windblown sand	Zheng
	movements/dust storms	Xiaojing
17.	The fracture of piezoelectric material under dynamic loads	Gao
		Cunfa
18.	Researches on the methods and techniques of experimental mechanics and their applications	Xie
	to the failure behaviors of TBCs	Huimin
19.	Theoretical and experimental investigations on nonlinear dynamics in vibration-based energy	Chen Liqun
	harvesting	
20.	Mechanobiological mechanisms of vascular remodeling in cardiocerebrovascular diseases	Jiang
		Zonglai
21.	Noise sources and large eddy simulation of turbulence generated noise	He Guowei
22.	Coupled loading and dynamics of offshore wind turbine under extreme environment	Zhou Jifu
23.	Mechanisms of accommodation and lesion for human lens	Song Fan

24.	Failure mechanism and analysis theory of huge cavern group affected by staggered zones	Feng Xiating
25.	Investigation of controlling the quantum tunneling and photoelectric effects in multiple structured micro- and nano-heterojunctions by macroscopic stresses and strains	Wang Biao
26.	Multiwavelength study of supernova remnants and the processes of their shock interaction	Chen Yang
27.	SMBH's activities and evolution	Wang Junxian
28.	Interaction between black hole activity and host galaxies	Wang Jianmin
29.	The chemodynamical evolution of the galaxy: an observational and theoretical study	Zhao Gang
30.	Galaxy formation and evolution in dark matter halos: seek clues for a few open questions	Yang Xiaohu
31.	Investigations on the accretion disks and jets in active galactic nuclei	Cao Xinwu
32.	The Milky Way scroll painting CO line survey	Jiang Zhibo
33.	Observational and theoretical studies on high-energy physical processes of the sun	Gan Weiqun
34.	Invetigation of bending strain effects on the electronical structure, optical/electronic properties of low-dimensional (nanowires and graphene) nanomaterials	Yu Dapeng
35.	Characteristics and principle of the underwater sound at very low frequency long range propagation in irregular ocean environment	Piao Shengchui
36.	Quantum interferometry based on quantum manipulation of atomic ensembles	Zhang Weiping
37.	Molecular orbital imaging with high spatiotemporal resolution by two-color quantum control	Lu Peixiar
38.	Novel physics and multiferroic order coupling in type-II multiferroic compounds	Liu Junming
39.	A novel tunable continuous-wave solid state terahertz source	Wang Huabing
40.	Geometrically enhanced magnetoresistance of semiconductors	Zhang Xiaozhong
41.	Experimental investigation of synthetic gauge potential for ultracold Fermion gas	Zhang Jin
42.	High frequency quantum transport in confined quantum coherent conductors	Gao Jie
43.	Quantum-like phenomena in engineered photonic structures	Chen Hon
44.	In-situ study on the size effect of mechanical properties of condensed matter system under external field within atomic and sub-angstrom scale	Zhang Ze
45.	Study on phonon-glass-electron-crystal thermoelectric compounds	Zhang Wenqing
46.	Investigations of physical problems in next generation lithium ion battery materials	Chen Liquan
47.	Laser MBE growth and in-situ ARPES study of unconventional superconducting thin films	Ding Hong
48.	Structures of weakly-bound nuclei studied through their decays	Xu Furong

49.	Development of a high-resolution detector system and a new mass measurement technique for nuclei relevant for the rapid-neutron capture process	Tanihata Isao
50.	Quantum gravity and modified gravity and their cosmological applications	Ma
51.	Pre-study of key technologies for gravitational wave detection in space	Yongge Zhou
		Zebing
52.	Study of some important topics of the heavy flavor physics at the LHC era	Xiao
50		Zhenjun
53.	Experimental studies of low energy electron anti- neutrinos	Chen Shaomin
54.	Describe on lay technologies of V my grating based multicontrast imaging in medical	Chen
34.	Research on key technologies of X-ray grating-based multicontrast imaging in medical application	Zhiqiang
55.	Mechanism research of neutron induced displacement damage on electronic devices affecting	Chen Wei
33.	by source zone ionizing radiation	Chen wei
56.	Development of GeFi simulation scheme and its application to tokamak fusion plasmas	Chen Liu
57.	On some related issues in string/M-theory and black hole physics	Lu Jianxin
58.	Experimental study of the charmonium and charmoniumlike states	Yuan
50.	Experimental study of the charmonium and charmoniumike states	Changzheng
59.	Studies of key physics and technological problems on high-intensity proton beam	Tang Jingyi
57.	bombardment on target	Tung Jingy
60.	Research of the design and performance of the readout ASIC of silicon pixel detector	Wang
	Trestant of the crossing and performance of the reduced rate of shiften prior detector	Zheng
61.	Synthesis of multifunctional negative thermal expansion compounds and its mechanism	Xing
		Xianran
62.	Structure design and catalytic properties of environmental- friendly polyoxometalates	Hu
		Changwen
63.	Study on the structure and function of bio-mimic nitrogen fixation system	Qu Jingping
64.	Fundamental studies of upconversion luminescent materials for bioimaging	Li Fuyou
65.	Study on multi-electron-reaction Mn-based electrode materials of new Li batteries	Chen Jun
66.	Designed syntheses and SHG properties of New Inorganic Crystalline Materials with Polar	Mao
	Structures	Jianggao
67.	Constructing cyclodextrin functionalized inorganic nano-materials to mediate multi-target	Mao
	tumor therapy	Zongwan
68.	Mechanistic study of important organic reactions	Yu
		Zhixiang
69.	Synthetic studies on some biologically important oligosaccharides and glycoconjugates	Ye Xinshan
70.	Visible light photocatalytic controlled reactions of radicals and their applications in organic	Xiao
	synthesis	Wenjing
71.	Highly efficient synthesis of complex heterocyclic compounds	Tu Shujiang
72.	Studies on organic molecules for the selective recognition and regulatory of biomacromolecules	Yu Xiaoqi
73.	Development of transition metal-catalyzed new methodologies based on unsaturated bonds	Ma
	The state of the s	Shengming
74.	Bioactive molecule-oriented stereoselective construction of chiral nitrogeneous heterocycles	Gong Liuzhu

75.	Study on highly efficient catalytic systems tuned by functionalized microenvironments	Fan
		Qinghua
76.	Studies on the privileged chiral ligands and catalysts	Ding
		Kuiling
77.	Surface enhanced Raman scattering on flat substrates and its applications	Zhang Jin
78.	Dynamic mechanism of chemical modification on nucleic acid by enzymes	Zhao Xinsheng
79.	Physical chemistry experimental study on the interaction between stem cells and fluorescent carbon nanomaterials	Fan Louzhen
80.	Fundamental studies of rechargeable Li batteries with high energy density	Yang Yong
81.	Core-shell interace and ptical Properties Monodispersity of Quantum Dots	Peng Xiaogang
82.	Theoretical design and synthesis of multi-component polyheterocyclic eutectic hydrogen carriers and hydrogenation/dehydrogenation catalysts and reaction mechanism studies	Cheng
02		Hansong
83.	Development and applications of linear scaling first-principles electronic structure methods	Yang Jinlong
84.	Studies on catalytic oxidation of polyols to organic acids	Xu Jie
85.	Structure modification and property study of cluster-based compounds	Wu Xinta
86.	Formation, transition and regulation of surface chiral assembly by non-chiral molecules	Wan Lijun
87.	Novel fluorescence sensor based on the supramolecular system	Yang Guoqiang
88.	Controlling dynamic transport and collection of liquid drop on bioinspired multi-level micro-/nanostructured gradient interfaces	Zheng Yongmei
89.	Hierarchical self-assembly of polypeptide-based copolymers and its biological functions	Lin Jiaping
90.	Characterization of polyelectrolytes	Zhang Guangzhao
91.	Construction of high efficient biomimetic enzyme systems by combining molecular imprinting and self-assembly	Liu Junqiu
92.	Synthesis of well-defined functional cyclic polymers and its properties	Zhu Xiulin
93.	Novel efficient transition metal catalysts and controlled polymerization of olefins	Li Yuesheng
94.	Dynamics and stability of complex polymer liquid films	Shi Tongfe
95.	Developments of new approaches for the selective separation and preconcentration of proteins	Wang Jianhua
96.	Studies on the new methods for analysis of key mediators in cell apoptosis	Yao Shouzhuo
97.	Electroanalysis of protein-protein interaction	Li Genxi
98.	Bio-functional graphene interface and its biosensor and bioanalysis	Li Jinghon
99.	Theoretical study of high sensitive ESI source and application in the analysis of low	Zhang
	abundance proteins New technology and methods for highly efficent proteome analysis of post-translational	Yukui Zou Hanfa
100.	modification of proteins	204 114114

102.	Construction of a safe reaction process for clean production of isocyanate and research on its key basic problems	Wang Yanji
102		0.
103.	Design and product engineering foundation of highly selective metallic ions capture agents	Qian
	with detection and separation function	Xuhong
104.	Chemical engineering foundation for fabrication of novel nanocomposites via confined	Li
	reactions	Chunzhong
105.	Fundamental research of the magnetic drived ilmenite mechanical activation - dilute acid leaching coupling reaction technology	Liang Bi
106		Sun Yan
106.	Studies and applications of interfacial molecular phenomena in protein chromatography	
107.	Separation systems and zeolite membranes with low cost and high performance	Wang Zhengbao
108.	Hydrodynamics of electrostatic fluidized bed and process intensification	Yang
		Yongrong
109.	Design, synthesis and performance of novel heterogeneous Fenton-like catalysts based on	Zhang
	multidimensional structured materials and catalytic membrane	Guoliang
110.	Molecular compositon analysis of heavy petroleum by fourier transform cyclotron resonance	Xu
	mass spectrometry	Chunming
111.	Mechanisms for environmental processes and biological effects of coexisting brominated	Ji Rong
111.	flame retardants and heavy metals in soil	Ji Kong
112.	Effects of engineered nanomaterials on interfacial processes of organic contaminants in	Chen Wei
112.	aquatic environments	Chell Wel
112		T . TT .
113.	Study on the key technologies and scientific problems for synchronical photocatalytic	Li Hexin
	oxidation of Hg and NO in cleaning sweep gas of power plants based on	
	adsorption-assisted photocatalysis and electrophotocatalysis	
114.	Biokinetics and toxicity of heavy metals in estuarine organisms from southern China	Wang
		Wenxiong
115.	Investigation on mechanism of synergistic toxicity between organic pesticides and	Zhu
	copper/zinc-containing inorganic pesticides	Benzhan
116.	The study of ecology and heredity mechanism for sexuality evolution of typical genera and	Zhang
	species in hyphomycetes	Xiuguo
117.	Mechanism underlying the degradation of nicotine, an environmental toxicant, by	Xu Ping
	pseudomonas	
118.	Chemotaxis and biodegradation of towards aromatic pollutants by comamonas sp. strain	Liu
	CNB-1 and others: mechanism and application	Shuangjian
119.	Gene regulatory network coupling between carbon and nitrogen metabolism in associative	Lin Min
	nitrogen-fixing Pseudomonas stutzeri	
120.	Molecular mechanism of pathogenesis caused by HBV infection	Wu Jiangu
121.	Regulatory mechanism of phototropic response by IAA methylation in Arabidopsis	Qu Lijia
122.	Probing plant immune signaling pathways with bacterial effector	Zhou
144,	1100mg plant miniane signaming pattiways with bacterial effector	Jianmin
102	New estive isomeousts study	
123.	New active jasmonates study	Xie Daoxii
124.	Molecular basis of auxin-mediated somatic cell dedifferentiation in plants	Hu Yuxin
125.	Molecular mechanism of environmental changes affecting sex ratio of the Chinese alligator	Fang
	population	Shengguo

126.	Effects of key environmental changes on population dynamics and genetic variations of giant pandas	Wei Fuwen
127.	Herbivory-mediated relationships between multiple trophic diversity and ecological functioning in grassland	Wang Deli
128.	The relationship between function stability and species diversity in forest ecosystems	Yu Shixiao
129.	Study on the formation mechanisms and functions of alpine cushion plant community	An Lizhe
130.	Study on sustainable control mechanism of insect natural enemies to Monochamus alternatus	Yang Zhongqi
131.	Structural and functional studies of important protein complexes by single-particle cryo-electron microscopy	Sui Senfan
132.	Structural and functional studies of important protein complexes involved in endocytosis	Ding Jianping
133.	The structure determination of biomolecular machines at near atomic resolution based on cryoEM technology	Zhu Ping
134.	The regulatory function and signal transduction pathway of orphan receptor TR3/Nur77 in cell autophagy	Wu Qiao
135.	Molecular mechanism and functional regulation of dietary cholesterol absorption	Song Baoliang
136.	The mechanism of checkpoint maintaining DNA replication forks and genomic stability	Kong Daochun
137.	The structure and mechanism study of molecular target-based anti-tumor glycan	Ding Kan
138.	Molecular mechanisms underlying anti-DNA viral innate immunity	Jiang Zhengfan
139.	Novel mechanism of NLRP3 inflammasome activation and regulation	Sun Bing
140.	Function of Y \delta T cells in liver innate immune response	Yin Zhinaı
141.	Role of heat shock protein gp96 as a new vaccine adjuvant in promoting cellular and humoral immunity	Meng Songdong
142.	Adhesion dynamics of hepatic cells under blood flow and their impacts on functional sinusoidal tissue	Long Mian
143.	Regulation of synaptic transmission and plasticity by acid-sensing ion channels	Xu Tianle
144.	Plasticity of human visual information processing	Fang Fang
145.	The cognitive and brain mechanisms underlying perceptual learning	Yu Cong
146.	The cognitive and neural mechanism of spatial ability	Liu Jia
147.	The neural mechanism of visual cognitive function decline process in aging	Zhou Yifeng
148.	The neurobiology of retrieval and extinction of pathological emotional memory	Lu Lin
149.	Studies on membrane protein-related mechanisms underlying sperm function regulation: ion channels and transporters	Zeng Xuhui
150.	Polypeptides of CGRP superfamily counteract HHcy-induced ERS and insulin resistance in adipose tissue	Wang Xiar
151.	The role of the ER stress pathway in adaptive and homeostatic control of metabolism	Liu Yong
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153.	Molecular mechanism of omologous Recombination Induced by DNA Double-Strand-Break	Cheng Zhukuan
154.	Regulation of DNA oxidative modification in mammalian cells	Xu
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155.	Molecular mechanism for the establishment of telomeric heterochromatin	Zhou Jinqiu
156.	Molecular basis for recognition and regulation of small non-coding RNAs in plant	Ma
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157.	Deciphering the transcriptional regulation and biological function of miRNAs involved in	Qu
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158.	Dissecting mechanisms underlying apoptotic cell clearance	Yang
		Chonglin
159.	Mechanisms for beta-catenin nuclear translocation and epigenetic regulation of its	Li Lin
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160.	Study on type III sodium-dependent phosphate transporter 2 (PiT2) function and molecular	Liu Jingyu
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161.	Lysosomal trafficking in modulating EGF signaling	Li Wei
162.	The study of gene expression profile and control of human ovarian follicles growth and	Qiao Jie
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163.	Molecular mechanisms regulate the self-renewal and differentiation of human	He Zuping
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164.	The mechanism of circadian clock and its regulation	Xu Ying
165.	Mechanisms underlying developmental plasticity of root system architecture mediated by	Li Xia
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166.	Molecular mechanism of OsMADS34 and OsMADS6 in controlling rice inflorescence and	Zhang
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167.	Molecular genetic basis of wild-abortive cytoplasmic male sterility and restoration in rice	Liu
		Yaoguang
168.	The molecular mechanisms of the formation of wheat processing quality in southwest of	Zheng
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169.	Dissection of the molecular and genetic basis of heterosis for kernel number per ear in maize	Ni Zhongfu
170.	Molecular mechanism of leaf angle forming in maize (Zea May L.)	Chen
		Yanhui
171.	Mechanism of calcium and reactive oxygen species signaling in regulating cotton fiber	Zhang
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172.	Structural modification and functional regulation of food carbohydrates	Jin
		Zhengyu
173.	Anti-stress molecular mechanism on survival and multiplication of Salmonella Enteritidis in	Shi
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174.	Mechanisms and utilization of diverse tale genes that manipulate rice resistance and	Chen
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175.	Molecular mechanism for durable control of brown planthopper via resistance gene diversity	He
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176.	Effect and mechanism of agricultural landscape diversity in regulating and suppressing the	You
	population of diamondback moth	Minsheng

177.	Neural and molecular mechanisms of Helicoverpa armigera olfactory behavior regulated by plant volatiles	Wang Guirong
178.	Molecular mechanism(s) of sugars & organic acids formation and related key genes identification of pear fruit	Zhang Shaoling
179.	Exploration and regulatory mechanism of key genes in fruit development of tomato	Ye Zhibiao
180.	Co-evolution of pollinating insects and entomophilous plants during late Mesozoic	Ren Dong
181.	Molecular mechanism for the regulation of diapause by insulin in Helicoverpa armigera	Xu Weihua
182.	The plasma membrane receptor and the membrane signaling pathway of the 20-hydroxyecdysone	Zhao Xiaofan
183.	Phylogeny and evolution of parasitic habits in Hymenoptera	Chen Xuexin
184.	Identification of critical genes and causal mutations affecting intramuscular fat content in pigs	Huang Lusheng
185.	Molecular mechanisms on the pathogenicity and immunity of SPI-2 T3SS effectors in Salmonella enterica serovar Pullorum	Jiao Xin-a
186.	Function of the proteins of porcine reproductive and respiratory syndrome virus in regulating the host immune responses and viral evasion strategies	Jiang Ping
187.	Molecular mechanism of interaction between porcine circovirus 2 and cytoskeletal proteins	Zhou Jiyong
188.	Transcriptomic and proteomic studies of interaction between Toxoplasma gondii and its host	Zhu Xingquan
189.	Structural and functional and regulation mechanism studies of cytotoxic T lymphocyte in jawed fish	Xia Chun
190.	Transcriptional and functional studies of spliced IFN-gamma and their receptors in mandarin fish Siniperca chuatsi	Nie Pin
191.	Molecular mechanisms of muscle differentiation and growth in Chinese mandarin fish	Zhang Jianshe
192.	Substantial change of subtropical evergreen broadleaved forest at LGM and the migration pathway of the key species during the postglacial in China	Zheng Zhu
193.	Paleo-ocean chemical evolution and continental weathering through Neoproterozoic-early Cambrian transition: A multiple isotope proxy	Jiang Shaoyong
194.	Mechanism of microbial carbon dioxide fixation stimulated by the photocatalysis of iron and manganese oxides in soils	Lu Anhuai
195.	The microfossil study of agriculture origin and their relationship with environmental change in Yellow River drainage area	
196.	Metamorphism and tectonics of the eastern Himalayan orogen	Zhang Zemin
197.	Natural rheology study of continental lithosphere in typical areas (Xingcheng, Western Liaoning)	Liu Yongjiang
198.	Component, deformation and timing of the high grade metamorphic terrane, ophiolite and accretionary complex of Beishan Orogenic Belt	Xiao Wenjiao
199.	Active tectonic reconstruction of paleopositions of the south China block from the Nanhua system to early Paleozoic	Yang Zhenyu

200.	Tracing deep carbon recycle by using Ca-Mg isotopes	Li Shuguang
201.	Imaging methods of lithosphere structure based on the full wave equation and its applications	Yang
		Dinghui
202.	Mesozoic metallogeny of the Jiaodong gold deposits, eastern China	Deng Jun
203.	Physical-chemical processes and mechanisms of the interactions between deep-derived fluid	Jin Zhijun
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204.	Comparative study on the Meso-Cenozoic uplifting of Zoige Plateau, Longmen Shan thrust	Liu
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205.	Interface dynamics and water cycle research of the surface-groundwater system in arid	Wang
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206.	Evolution and metallogeny of multi-aged rare-element granites in the Nanling Range	Wang
		Rucheng
207.	Geochronology and dynamics of large-area Mesozoic epithermal mineralization in	Hu
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208.	Microseismic inversion for shale gas exploitation	Chang Xu
209.	Fundamental research on a sparker and stereo-sensor detection system and seismic imaging	Zhou
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210.	Structures of cloud and precipitation in East Asia Monsoon as observed by multi-satellite	Fu Yunfei
211.	Similarities between optimal precursors and optimally growing initial errors in predictability	Mu Mu
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212.	The development mechanism and numerical simulation researches on mesoscale linear	Fei Jianfang
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213.	Physical mechanism on the impacts of the land surface thermal anomalies over Eurasian	Chen
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214.	Study on spatial differentiation of glaciations since the Last Glacial across Tibet and	Yi Chaolu
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215.	Indian Monsoon variability and its coupling relation to the East Asian Monsoon: A	Cheng Hai
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216.	The study of paleogeomagnetic field variation using Chinese loess 10Be	Zhou
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217.	Mineralogical and geochemical constraints on the provenance of the eolian deposits in the	Ji Junfeng
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218.	Impacts and its mechanisms of two types of Pacific Ocean warming on the East Asian winter	Chen Wen
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219.	Probabilistic projection and uncertainty studies on future climate change over China through	Jiang
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220.	N2O source and sink in Southern Ocean: driving mechanism and its impact on oceanic N2O	Chen Liqi
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221.	Salt transportation process and deformation mechanism study on salty embankments in cold	Lai
	regions road	Yuanming
222.	Research on the process, pattern and mechanism of tourism development of metropolitan	Lu Lin
	areas in China	
223.	Evolution law and optimized regulation mechanism of human settlement in rapid	Zhang
	urbanization region of China	Wenzhong

224.	A study on environmental impacts of urban landscape changes and optimized ecological	Chen
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225.	Based on historical materials to reconstruct the past natural landscape and reveal the mechanism of human's impact in North China	Deng Hui
226.	Mechanism and prediction of rock burst for long-deep tunnels under the T-H-M coupling	Li Tianbin
227.	Research on the deformation response and disaster mechanism of soil mass structure system	Shi Bin
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228.	Study on evolution process and stability of reservior landslide by multi-dimensional	Tang
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229.	Investigation into the mechanism of in-situ immbolization of Tc(VII) and U(VI) in soil and	Zhao
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230.	Environmental and biogeochemical behaviors and processes of non-regulated and novel	Mai Bixia
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231.	Mechanism of nitrogen accumulation and regulation for the river network region in Yangtze	Ruan
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232.	Geochemical processes and environmental impacts of light-absorbing aerosols over high	Cao Junji
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233.	Formation mechanism and control strategy for haze over Beijing-Tianjin-Hebei region	Wang Yue
234.	The coupling and mechanism of quaternary glacial-interglacial cycles with tectonic uplift	Cui Zhiji
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235.	Impact of hydrodynamics-induced transportation on the temporal and spatial environmental	Qin
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236.	The tradeoff and integration among ecosystem services A case study in Yanhe watershed	Fu Bojie
237.	Study on the mechanism of soil erosion by snow-melting runoff in the high altitude and cold	Lei Tingw
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238.	Mechanism for farmland monitoring using remote sensing and inversion of key parameters in	Qin Qimir
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240.	Parallel study on the total arsenic exposure of population living in arsenic contaminated areas	Yang
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241.	Key processes and mechanisms on maintenance and increase of productivity of alpine	Wang
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242.	Process of land quality change and response of ecological security in reclaimed tidal flat of	Pu Lijie
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243.	Spatial scale effect of land use impact on runoff in the Loess Plateau under climate change	Wang
		Yanhui
244.	Study on the influence of water level control on submerged vegetation in a lake and the	Hu Weipir
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245.	Chemical behavior of heavy metals at the interface of soil mineral-organic	Huang
	matter-microorganism interactions	Qiaoyun
246.	Interactions between roots and soil particles and electrochemical characteristics of soil/root	Xu Renko
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247.	Stoichiometry of denitrification/nitrification in field soil	Wang
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248.	Soil microbial biogeography and the driving mechanisms under two typical ecosystems	He Jizheng
249.	Interfacial processes and bioremediation mechanisms of the toxic pollutants in the	Luo
250	soil-plant-microbe systems	Yongming
250.	The variations and controls of pH and pCO2 in the upper water from tropical West Pacific since 0.8 Ma	Li Tiegang
251.	Cenzoic post-spreading volcanism in the South China Sea and its tectonic significance	Shi Xuefa
252.	Metatranscriptomics and metaproteomics of key dinoflagellates during the occurrence of harmful algal bloom	Wang Dazhi
253.	Study on bacteria diversity coupled to the monsoon circulation in the South China Sea and the significance in microbial oceanography	Zhang Si
254.	Zooplankton functional groups change and ecosystem dynamics in the Yellow Sea and East China Sea	Sun Song
255.	Research on effects of space weather on GNSS in its high-precision applications for the Earth's science	Yuan Yunbin
256.	The weather features in low latitude ionosphere and the response of the ionosphere to changes in solar winds	Liu Libo
257.	Analysis on the dynamics of plasma sheet in the near-earth magnetotail	Shen Chao
258.	A global numerical study on time-dependent progresses of the solar wind-magnetosphere-ionosphere system	Wang Chi
259.	Study of the interplanetary magnetic cloud dynamics	Wei Fengsi
260.	Study of wave excitation and particle acceleration by mangetic reconnection in solar wind source region	Tu Chuanyi
261.	Methodological development to produce a consistent land surface temperature for all-weather	Li
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262.	Using mobile phone tracking data to analyze interactions between group activity patterns and urban spatial structures and to select optimal facility locations	Xiao Shilu
263.	Dynamic service models and methods for global land cover and its changes	Chen Jun
264.	Theory and method of unified spatio-temporal data model construction based on geometric algebra	Lu Guonia
265.	Precise processing theory and methods for a large scale, real-time and high-rate GNSS network and applications in hazard monitoring	Liu Jingnai
266.	Reactive element effects in ultra-high temperature metallic protective coatings	Guo Hongbo
267.	Evolution of three-dimensional multi-scale stress fields and correlated damage mechanisms	Wang
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268.	Multi-scaled multi-phase structure and performances of metal-based anode materials for Li-ion batteries	Zhu Min
269.	Formation mechanism of Metallic Conductive Filaments in Redox Resistive Random Access Memory	Pan Feng
270.	Deformation characteristics and mechanisms of micronano scaled structural materials	Shan
270.	subjected to multi-field effects	Zhiwei
271.	Effect of boundary structure and composition on the mechanical properties and structure stability of nanocrystalline metals	Lu Ke

272.	Atomic-scale characterization on ferroic oxide heteroepitaxy and interface-induced novel properties	Ma Xiuliang
273.	The development of nanowire/shape memory alloy composites and their structural-functional properties	Cui lishan
274.	Damage and failure of one-dimensional semiconductive nanomaterials and nanodevices in multi-field coupling	Zhang Yue
275.	Research on bioactive hard tissue implants with the antibacterial function and its antibacterial mechanism	Wang Yingjun
276.	Study on the preparation and functionalization of energy-storage-oriented carbon-based nanocages	Hu Zheng
277.	Study on properties, service behavior and application of structural ceramics at extreme environments of cryogenic temperatures	Xie Zhipeng
278.	Study on functional regulation and mechanism of nano-carbon materials for energy storage	Kang Feiy
279.	Fundamental research in one-dimensional single-crystal nanomaterials of ferroelectric oxides	Han Gaorong
280.	Preparation and biological effects of hydroxyapatite-based antibacterial coatings for hard tissue implants	Zhu Yingchun
281.	A study on the coloring mechanism of famous ancient Chinese glazes and establishment of a spectral database	Li Weidor
282.	The epitaxy growth and stable doping of ZnO-based single crystal film: experiment and modelling	Tang Zikang
283.	Structural control and property correlation in the preparation of polyimide fibers	Zhang Qinghua
284.	Study of photofluidization and nano/microstructure construction of azo polymers	Wang Xiaogong
285.	Studies of gene vectors based on small peptides	Zhang Xianzheng
286.	Smart polymeric carriers for active targeting delievery of anti-cancer drug	Chen Xue
287.	Effects of long chain branches and their composition on melt behavior and solid behavior of polymers	Tang Tao
288.	High-mobility polymer materials and key scientific problems of their field-effect transistors	Liu yunqi
289.	Controllable fabrication and performance of janus nanocomposites	Yang Zhenzhon
290.	The control and application of polymer metal plasmonic nanostructure	Chen Xudong
291.	On-line study methods for some physical chemistry problems of pyrometallurgy	Guo Zhanchen
292.	Control of nano-carbide precipitates in low carbon steels under ultra fast cooling and comprehensive strengthening mechanism	Wang Zhaodong
293.	Study on the joint control and effective utilization of the exhaust pollutants formed in the sintering of the iron ore	Zhang Chunxia
294.	Basic research on the stability analysis and safety monitoring for tailings dams	Yang Chunhe

295.	The early warning of mine roof disaster	He Fulian
296.	Rock mechanics for shale gas exploitation	Chen Mian
297.	Fundamental research on development of shale gas reservoir	Yao Jun
298.	Fundamental study on the new process for extraction of non-iron elements from iron-aluminium complex ores	Jiang Tao
299.	Fundamental study on low-temperature alkaline smelting of refractory nonferrous metal resources	Guo Xueyi
300.	Fundamental study for the extractive and separation process of the nonferrous elements from low grade nickel laterite	Bai Chenguang
301.	Research on ultrasonic guided wave method for the thick-wall pipe inspection and its key transduction technology	He Cunfu
302.	Fundamental research on the direct drive hydraulic servo pump	Jiao Zongxia
303.	The basis and application of processing technology of large-scale hardened steel molds of car covering	Liu Xianli
304.	Fundamental research on high-efficiency and precision grinding with monolayer superabrasive tools based on chip thickness distribution	Xu Xipeng
305.	Fundamental research into high performance hydrostatic bearing systems	Duan Zhengcheng
306.	Study on biomanufacturing of in-vitro biomimetic tissue construct by precisely controlled cell assembly	Sun Wei
307.	Fundamental study of high speed arc discharge machining	Zhao Wansheng
308.	Size effect and a novel control method of dimensional and physical properties in hot roll-to-roll forming process for micro-structures on thin film polymer substrate	Lai Xinmin
309.	Holo-spectrum characteristic modelling and integrated design method for complex electromechanical systems	Zhao Wanhua
310.	Basic research on shape and performance cooperative manufacturing for creep age forming of high strength aluminum alloy panels	Huang Minghui
311.	Theoretical and experimental investigations on the unsteady vortex lift generated by rotor/stator interaction in compressors	Sun Xiaofeng
312.	Heat transfer enhancement mechanisms of interfacial multiscale effect	Ma Xuehu
313.	Fundamental research on engineering thermal physical problems for high-speed trains	Wang Liangbi
314.	Basic research on transcritical organic rankine cycle for the conversion of medium-high thermal energy	Shi Lin
315.	Research on maximization of the Exergy and the efficiency of Exergy/work transformation	Su Wanhua
316.	Study on the steady/unsteady flow mechanism and their losses controlling inside higher pressure ratio and larger loaded turbo-compressors	Xi Guang
317.	The mechanisms of multiphasic interactions, mass-energy transports and Multi-flow-fields model for multiphase flow under complex physical fields	Guo Liejin
318.	Research on the theory and approach of solar energy integrated with fossil fuel	Jin Hongguang
319.	Research on the key problems of electrical characteristics and reliability in high power devices using bipolar	Chen Xingbi

320.	Key technology investigation on flexible multiterminal HVDC system based on voltage source converter for wind farms	Xu Dianguo
321.	multi-inverter parallel and power quality control method of Micro-grid containing Multiple Inverters	Luo An
322.	Fundamental research on radio interference and audible noise from UHV AC and DC transmission lines under complex conditions	He Jinliang
323.	Measurement of the three-dimensional magnetic properties for electrical magnetic materials and modeling of the tensor magnetic hysteresis	Yang Qingxin
324.	The behavior of metallic wire array in the initial stage of fast Z-Pinch	Qiu Aici
325.	Research of sliding electrical contact and electrical insulation with pulse and large current	Yan Ping
326.	Quality control principles for safety-guarantying underground storage of reclaimed water	Huo Mingxir
327.	Mechanism for highly efficient removal of low concentration pollutants from the reclaimed water	Luo Shenglian
328.	Fundamental research on the innovative fiber reinforced polymer structural composites	Liu Weiqing
329.	Innovative technologies and principles for municipal wastewater treatment and reclamation based on the oriented transformation/transfer of substances present in wastewater	Huang Xia
330.	Research on evaluation and design of thermal environment of civil buildings	Lian Zhiwe
331.	Research on key basic scientific problems in a hybrid process of cumulative countercurrent adsorption/multiple carrier crystallization-membrane separation-continuous electrodeionization for treatment of radioactive wastewater	Hou Li-an
332.	Theory and method of progressive collapse resistance and control of building structures under blast loading	Li Zhongxian
333.	Fundamental theories and methodologies for integrated design of evolutionary modern urban road traffic system	Yang Xiaoguang
334.	Study on long-term settlement mechanism and disaster control of airport runway of soft soil foundation under complex dynamic load	Cai Yuanqiang
335.	Study on the design theories and methods of efficient ventilation in industial buildings	Wang Yi
336.	Construction theory and method of low-carbon rural human settlement in the Yangtze River Delta Region	Wang Zhu
337.	Seismic design ground motion and the key problems in structural seismic safety for nuclear power plant	Xie Lili
338.	The study of hydrodynamic & sediment transport processes and mechanism of beach profile evolution under global climate change	Jiang Changbo
339.	The dynamic behaviors of offshore aquacultural facilities in marine disaster environment	Dong Guohai
340.	The action mechanism of flow and sediment transport on pollutant in plain river and environmental control	Tang Hongwu
341.	Theory and method of cascaded reservoirs operation on complicated multi-dimensional generalized coupling system in upstream of Yangtze River	Zhou Jianzhong
342.	Cavitation characteristics of hydraulic machinery and suppress methods	Yuan Shouqi
343.	Study on the comprehensive properties of rock-filled concretes and mesoscale processes	Jin Feng

344.	Research on the dynamic mechanism of freak waves and the highly nonlinear interaction on	Yang Jianmin
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345.	Research on the dynamic characteristics and safety reliability of deepsea structures under complex environment	Yu Jianxing
346.	dynamical mechanism and simulating model for soil nutrient loss with surface runoff on	Wang
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347.	An Investigation of the Mechanical Behavior and Experimental Techniques of	Wei
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348.	Study on the characteristics of the electromagnetic near-field and its applications	Nie Zaiping
349.	A study of children behavior based on video analysis	Zheng Wenming
350.	Study on theoretical and numerical methods of high power electromagnetic pulses interaction	Wang
220.	with electronic systems	Jianguo
351.	Tissue specificity based fusion method and technology for multimodality molecular imaging	Tian Jie
352.	Investigation on high power terahertz electron cyclotron maser	Liu Shenggang
353.	New theory and key technology of ship radio positioning based on AIS	Zhang
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354.	Research on the interference management and the capacity of wireless network	Liu Yingzhuan
355.	Interference management and capacity analysis in wireless networks	Li Jiandong
356.	Energy efficient collaborative heterogeneous wireless networks	Yang Yang
357.	Multiview sampling and reconstruction based on multiple depth cameras in complex scene	Yu Li
358.	Research on distributed satellite-cluster network architecture and smart reconfiguration methods	Yu Quan
359.	Science and technology of high speed optical communication network in distributed satellite clusters	Yao Zhoush
360.	High dynamic aerospace broadband access and transmission theory and technology	Liu Feng
361.	Research on the image fusion technology of multispectral night vision based on perception	Bai Lianfa
001.	computing and information mining	Dwi Ziwiii
362.	Research on the theory and key technology of 3D audio	Hu Ruimin
363.	Space platform based space target imaging and recognition	Zhang
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364.	The detection, imaging and recognition of space targets with space-based platform	Liao
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366.	High-efficient computational methods for processing complex biological data	Wang
		Jianxin
367.	Basic theory and key technologies of massive data management for supporting technological	Peng
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368.	Network public storage reliability and disaster recovery technology	Shu Jiwu
369.	Research on system architecture and data organization of network public storage service	Zhou Ke
370.	Privacy pretection and security assurance for cloud storage	Wu
		Zhonghai
371.	Foundational theory and key technology in managing massive location data	Lin Xuemi
372.	System of systems software mechanisms and methods based on service composition	Wang
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373.	Resource management and scheduling strategies for complex engineering applications in clouds	Jin Hai
374.	The basic theory and key technologies of the low power and secure embedded processor	Wang
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375.	Mining and analyzing the online social networks	Cheng
		Xueqi
376.	Modeling large scale dynamic scenes based on multi-modality sensing data	Chen
		Baoquan
377.	Study on the fundamental theory and methods of exploratory visual analysis	Chen Wei
378.	Research on the fundamental theories and methods of natural human-computer interaction	Wang
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379.	Highly efficient CAD/CAE integrative computational algorithm for major projects	Li
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380.	Knowware based requirements-aware knowledge service	Jin Zhi
381.	On key theory and technology of data security in cloud computing	Sun
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382.	Architecture and key technologies for the future network	Zhang
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383.	Future wireless network architecture and key technology	Xiong Yan
384.	Parallel control theory of complex systems and its applications	Xiong Gan
385.	Dissipativity theory based feedback switching control and its applications to the control of	Zhao Jun
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386.	The analysis, modeling and control of service access systems in Three Networks	Xi
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387.	Modelling, analysis and scheduling for large-scale distributed water supply systems	Li
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388.	High-precision autonomous navigation technology for deep space explorer	Fang
		Jiancheng
389.	Crop growth model and environment optimized control in greenhouse	Mao Hanping
390.	IP-based theory and technology of information access and transport for smart grid	Yu Haibin
391.	A wide range of fault monitoring and self-healing control theory and technology in smart grid	Cao Yijia
392.	The neuro-physiological model of speech production and its control	Dang Jianwu
393.	Bionic vision chip technology based on oculomotor neural circuits and its verification system	Luo Jun
394.	Theory and methods of high dimensional visual information's low-dimensional	Yang
	representation, measurement and recognition	Jingyu
395.	Theory and key technology of high realistic and interactive virtual surgery system	Wang Ping-a
396.	Autonomous ocean observation theory and technology for underwater vehicles	Yu Jiancheng
397.	Research on basic theory and key technology for high performance hydraulic driven bionic	Li Yibin
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398.	Principles of peripheral neural interface for motor function recovery	He Jiping
399.	Smart grid information system architecture and verification environment	Shang Li
400.	Co-analysis and design of system on package for high-speed integrated circuits	Mao Junfa
401.	Ultra low power nanometre CMOS IC and SoC	Zeng
	F	Xiaoyang

402.	Vision chip based on optoelectronic and microelectronic hybrid integrated circuits	Wu Nanjia
403.	The research of mechanism and application for coherent high power surface emitting semiconductor laser array	Qin Li
404.	Application of semiconductor nanostructure based spectral conversion techniques in silicon solar cells	Shen Wenzhong
405.	A study of reliability in wide band-gap power semiconductor devices	Zhang Bo
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406.	Study on integrative radio frequency MEMS/NEMS resonator devices with promising performance	Yang Jinling
407.	Study on silicon-based integrated optical digital signal processor	Yang Lin
408.	Study on key technologies of high-resolution full-color dynamic holographic 3D display	Wang Yongtian
409.	High-time-resolved imaging and diagnostic techniques for ultra-high-speed spray flow field	Si Jinhai
410.	Investigation on novel semiconductor lasers and multiple-function photonic integration	Huang Yongzhen
411.	Research on basic issues and key techniques of dual-frequency interferometric fiber laser acoustic vector sensor	Guan Baio
412.	Structural modulation of vanadium oxide nanofilms and researches on key technologies of uncooled infrared detector arrays	Jiang Yadong
413.	Highly nonlinear optical effect in silicon based nano-photonic structure and its applications	Su Yikai
414.	Principles of high average power 2-5 µ m coherent supercontinuum sourse	Hou Jing
415.	All-solid-state deep ultraviolet laser based on new fluoride nonlinear optical crystals	Chen
		Xianfeng
416.	The research on basic theory and key technologies of high power all-fiber superfluorescent sources	Wang Pu
417.	Reserch on fundamental theories and key technologies of ultra-low Loss laser coatings	Ji Yiqin
418.	Study of optical nano imaging methods for single cell	Niu Hanb
419.	Prognostics and prognostics-based complex engineering system health management	Wang Wenbin
420.	On the management of uncertainties in Web 2.0 user generated content	Qi Jiayin
421.	Multiobjective many-person cooperative game theory and methods in complex and uncertain economy and management systems	Li Dengfeng
422.	Resource collaborative optimization and organization management theory and methods of Internet of Things	Liu Xinba
423.	Pricing and risk management of real estate financial assets and derivatives	Gong Pu
424.	Study on the theory and method of identification, evaluation and control of the risk in mega	Chen
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425.	The cooperative mechanisms and cooperative models of multi-person and multi-objective	Wang
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426.	Pricing and risk management of real estate and its financial assets	Li Zhongf
427.	Harmonious labor relations in transitional China: Sharing leadership, psychological contract,	Long
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428.	Strategic leadership in Chinese context: theoretical models and validity of collective leadership	Yang Bin
429.	Research on Chinese household / consumer finance	Liao Li
	Study on the choices and dynamic evolution of corporate finance policy under institution	Liu Xing

431.	A study of dynamic corporate financial policy	Shen Yifer
432.	ERP3.0: research on the theory and key technology of parallel management systems for	Wang
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433.	Supply chain modelling, optimization and coordination in a low carbon era	Chen Jian
434.	Research on theories and models of service value co-creation from customer participation	Fan
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435.	Chinese new venture in the internationalization background: social network and	Li Xinchu
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436.	Frontier inquiries toward theories on Chinese management and organization	Lu Yadong
437.	Entrepreneurial opportunity and resource development behavior of the entrepreneurial firms:	Cai Li
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438.	Parallel distributed strategy-based organizational change and cultural integration in Chinese firms	Wang
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439.	Research on endogenous innovation and technological catching-up of Chinese firms: modes,	Wu Xiaob
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440.	Building Chinese indigenous management theory: power of discourse, enlightenment, and	Xi Youmii
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441.	Research on how to improve safeguard mechanism and management efficiency of healthy aging	Zeng Yi
442.	Strategy and policy studies on technical standards in initiative innovation of high-tech	Zeng
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443.	Research on the theory and policy of university-industry collaborative innovation in China	Zhu
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444.	Capacity and system construction of enhancing land resources efficiency in China: in view of	Wu Qun
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445.	Research on China public decision-making models and modernization path based on	Su Jun
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446.	Online supply chain finance collaborative innovation and its risk control for Chinese	Yang
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447.	An empirical research on food wasting based on effects of resource environment and	Cheng
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448.	Research on the public hospital reform by evidence-informed decision-making based on	Zhang Lul
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449.	Role of MTDs in amplification of inflammatory response of ALI and systemic intervention study	Wen Fuqiai
450.	The research on regulation mechanisms of ncRNA-protein network in acute lung injury and	Jiang
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451.	The role of hydrogen sulfide in pathogenesis of myocardial ischemia and in protection of	Zhu Yichu
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452.	The role of mitochondrial cytochrome c oxidase in myocardial injury and recovery	Kang Yujia
453.	Role of microRNA in myocardial injury and the underlying mechanism	Li Peifeng
454.	The role of inflammatory microenvironment in the pathogenesis of hypertensive cardiac	Du Jie
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455.	The significance and mechanisms of the negative regulation of dendritic cells in cardiac	Ge Junbo
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456.	Regulation of key aging-related genes by NSun2-mediated mRNA methylation and its impact	Wang
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457.	Active vitamin D plays double actions in preventing aging and tumors by regulating cellular	Miao
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458.	New mechanisms underlying RAGE regulated mitochondrial degeneration in Alzheimer's disease	Yan Shidu
459.	The role of hepatocyte nuclear factor 1 a in the progression of chronic liver diseases and its molecular and cellular mechanisms	Xie Weifen
460.	The biological effect and mechanism of uncoupling protein family on the progress of nonalcoholic fatty liver disease	Li Youming
461.	Research on the immunological mechanism and intervention of leukemia relapse post	Huang
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462.	Mechanisms of PTPN21 gene mutations and NKG2D and other immune receptors	Huang He
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463.	Identification and functional studies of the causative genes for major birth defects	Zhang Xue
464.	Primary prevention and mechanisms of multiple micronutrient supplementation during	Yan Hong
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465.	Mechanism of HCN-origined abnomal excitation of bladder ICC in overactive bladder	Li Longku
466.	Mechanism in the regulation signaling networks of thyroid-stimulating hormone on hepatic	Gao Ling
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467.	Studies on chochlear hair cell regeneration by cell reprogramming approach	Li Huawei
468.	Pathogenesis and hearing restoration of deafness in Chinese population	Dai Pu
469.	The study of the mechanism of sirt1 on degeneration of auditory system and the intervention	Kong
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470.	A genome-wide association study for non-syndromic cleft lip with or without cleft palate in	Wang Lin
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471.	Dynamic brain functional networks and its characteristics of pain matrix during the	Wan You
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472.	Epigenetic mechanisms of neonatal reprogramming in chronic visceral pain	Xu Guangyir
473.	Neurobiological mechanisms of co-morbidity of pain-depression: Focus on maladaptation of	Cao Junli
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474.	The role of Fas/FasL-mediated crosstalk of microglia and T cells in ischemic brain immune	Xu Yun
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475.	Role and mechanism of NSCs in the demyelination and remeylination of experimental	Guan
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476.	Reciprocal interactions between natural killer cell and neural stem cell in CNS inflammation	Shi Fudong
477.	Study on new cationic poly(β-amino esters)/RNA self-assembly nanoparticles for targeting	Li Yaping
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478.	Study on key technologies for fabricating high specific PET/MRI dual functional probe for	Liu Shiyua
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479.	Quantum dots labeled probes for molecular imaging study of breast cancer invasion	Li Yan
480.	Early diagnosis and pathophysiological mechanism of hepatic encephalopathy with	Zhang
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482.	Investigation of the dynamic process in ischemic stroke penumbra by multi-modality	Teng Gaojun
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483.	Research on key technologies of virtual endoscopy based on quantitative image analysis and	Lu
40.4	feature visualization	Hongbing
484.	Drug nanocarrier based on nanohybrid liposomal cerasomes for diagnosis and therapy of cancer	Dai Zhifei
485.	Study on the mechanisms of the regulation of gene expression in Kaposi's Sarcoma associated herpesvirus latent infection	Lan Ke
486.	Study on human papillomavirus integration-related latent infection and the pathogenesis of cervical carcinogenesis	Ma Ding
487.	Study on resistance mechanism of Acinetobacter baumannii against main antimicrobial agents	Yu Yunson
488.	The role and mechanism of TSCs differentiation regulation in repairing tendon micro-injury	Tang Kanglai
489.	Study on reprogramming of MSCs into sweat-gland-like cells for sweat gland regeneration	Fu
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490.	Research on mechanism of mechanical stretch induced skin regeneration assisted by stem cell transplantation	Li Qingfer
491.	The effect and moleuclar mechanism of tumor suppressor gene NDRG2 in cancer metabolic reprogramming	Yao Libo
492.	A molecular mechanism study on CREPT as a novel anti-tumor drug target	Chang Zhiji
493.	The impact of fusion gene AARS-MAD2 on genomic instability and tumorigenesis of	Zeng
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494.	Mechanism of PRL-3-induced chromosomal instability and its role in the development of	Shou
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495.	The role and mechanism of cell cycle protein Nlp in the maintenance of genomic stability and tumorigenesis	Zhan Qim
496.	Decreased expression of apoptosis-inducing factor in epithelial-mesenchymal transition of	Chen
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497.	The novel mechanisms underlying the formation of blood microcirculation in cancer	Zhuang Shimei
498.	Study on molecular regulation mechanism of tumor vasculogenic mimicry	Sun Baocı
499.	Generation of claudin-low/triple-negative breast cancer stem cells: a mechanistic depiction of	Zhang
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500.	Decoding the regulatory machine of a novel mitotic regulator, LIV1, for targeted anti-mitotic	Zhou
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501.	Roles and mechanisms of PI3K/AKT/NF-kappaB signaling pathway regulated by	Xiao
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502.	Molecular targets for endocrine therapy resistance in breast cancer	Shi Yuenia
503.	Identification of targets and their chemical intervention for RAS-related cancer	Ren Ruiba
504.	Somatic mutations in Oncogenes KIT and KRAS as targets for nasopharyngeal carcinoma	Ma Jun
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505.	The mechanism research of the effect of high fat and abnormal metabolism of intestinal	Qin
203.	microflora on the risk of colorectal cancer	Huanlong
506.	Effects of cilia loss on cancer metabolism and cell transformation	Xie Dong

507.	Mechanistic study of LIF receptor acetylation-mediated metabolic abnormality in breast cancer	Qin Yue
508.	LncRNAs targeting inflammatory signaling pathways regulate plasticity of breast cancer cells	Song Erwei
509.	The mechanisms by which LRP16 blunts the radiosensitivity of tumor cells and the	Han
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510.	The roles and and mechanisms of glioma stem cells in the formation of vasculogenic mimicry	Bian Xiuw
511.	Mechanisms of the impairment of learning and memory following the coexposure to	Chen
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512.	Epidemiological and mechanism study on combined exposure of microcystin and aflatoxin at	Shu Weiqu
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513.	Study on combined cardiovascular toxicity induced by typical environmental pollutants and	Sun Zhiwe
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514.	The family based cohort study on the common non-communicable chronic diseases of the	Hu
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515.	Causal variants determination for common malignant tumors and risk prediction in a cohort	Shen
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516.	Role of genetic and epigenetic variation in the development and prognosis of gastric cancer	Zhang
	and its underlying molecular mechanism	Zhengdong
517.	Role and possible mechanism of interaction among genes and life style in the development of	Wu
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518.	Study on class A scavenger receptor-mediated macrophage polarization in cardiovascular	Chen Qi
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519.	The role of the complement induced perivascular immunnity microenvironment in vascular	Gao Pingji
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520.	Systematic dissection of molecular and cellular mechanisms underlining microRNA mediated	Shen Nan
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521.	Distinct role of macrophages in different tumor microenvironments	Zheng
		Limin
522.	The epigenetic regulation of the differentiation, maturation and innate immune response of	Wang
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523.	The functional mechanisms of IL-17C-IL-17RE pathway in the pathogenesis of	Qian
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524.	Novel methodologies and applications for drug design	Jiang
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525.	Structure-based PAK4 inhibitor design and mechanism studies for novel anticancer drug	Cheng
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526.	Identification of novel natural products and corresponding derivatives which modulate the	You Qidon
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527.	The basic research on safety and effectivity evaluation of TMC using CMC technique	Не
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528.	The mass spectral fragmentation patterns and novel methods for rapid identification of drug	Zeng Su
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529.	Ischemia-responsive microRNAs regulating apoptotic cell death mechanisms and	Du Zhimin
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530.	The study of the molecular mechanisms of interaction between TMEM16A and ClC-3	Guan
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531.	Nicotinic acetylcholine receptor a 7 subunit: a possible target to protect against	Su
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532.	The basic research of nourishing spleen yin treatment for cognitive dysfunction in emotional	Zhan Libin
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533.	The study of imaging genetic and gene regulation net of Gan stagnation	Lv Zhiping
534.	Study on stepwise effectiveness evaluation methods for treatment based on syndrome	Liu Baoyan
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535.	Study on methods of TCM clinical effect evaluation based on measurement of change of	Li Candong
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536.	Study on the functional plasticity of acupuncture at acupoints in the Conception Vessel and	Xu Nenggui
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537.	The mechanism of the antiviral activity of YinQiaoSan Based on the comparison of	Wang
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538.	Establishment and application of network pharmacology for TCM	Zhang
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