

農業研究前沿分析 - 2012Q2

本計畫將利用 Thomson Reuters 出版 ESI 資料庫所提供之「研究前沿」(Research Front)功能，定期提供農業領域前十名之熱門研究前沿主題。主要期望科研人員能了解各研究前沿之核心文獻，有助於獲知目前全球農業領域的研究成果有哪些重要發現，更能反映出當前科學家重點關注的方向。另外也會透過資訊加值分析，提供各前沿主題之研發跨領域分布，以作為科研人員進行研發策略規劃之團隊組成之參考。

Top 10 農業研究前沿

前沿排名	前沿	摘要說明
前沿 1	PERFLUORINATED COMPOUNDS; PERFLUORINATED CHEMICALS; PERFLUOROALKYL COMPOUNDS IMPAIR HUMAN SEMEN QUALITY; PERFLUORINATED SURFACTANTS (PFSS); PERFLUORINATED ACIDS IN AGRICULTURAL SCIENCES	全氟碳化合物為一種持久性有機汙染物，其物化性質穩定，具有抗油、抗水之特性。但由於其持久性與累積性，對環境、生物體以及人體中都可造成生物累積。因此全氟碳化合物對生物體所造成的不良影響便成為科學家熱烈探討新興議題之一。
前沿 2	MELAMINE; TOXICITY; PET FOOD; INFANT FORMULA POWDER; MATRIX-ASSISTED LASER DESORPTION ELECTROSPRAY IONIZATION (MALDESI) FOURIER TRANSFORM ION CYCLOTRON RESONANCE MASS SPECTROMETRY; AMBIENT DESORPTION IONIZATION MASS SPECTROMETRY IN AGRICULTURAL SCIENCES	三聚氰胺為製造三聚氰胺樹脂的材料之一，由於其含氮量高，常用作肥料販售，且常被添加於動物飼料及人類食用之乳製品中，以增加其氮含量。近年來，三聚氰胺對人類及動物所產生的毒性危害問題已成為科學家們議論焦點。
前沿 3	MODEL GRASS BRACHYPODIUM DISTACHYON; GRASS GENOME EVOLUTION; BARLEY GENOME; GENOME SEQUENCING; GRAPEVINE GENOME SEQUENCE SUGGESTS ANCESTRAL HEXAPLOIDIZATION IN AGRICULTURAL SCIENCES	二穗短柄草 (Brachypodium distachyon) 原生於地中海和中東，為具有重要經濟價值早熟禾亞科基因組之野生草本植物，其基因組已完成定序。這個基因組序列的獲得應有助於將開發新能源作物和糧食作物的模型。
前沿 4	ZINC-FINGER NUCLEASES; ENGINEERED ZINC-FINGER NUCLEASES; ENGINEERED ZINC FINGER NUCLEASES; DESIGNED ZINC-FINGER NUCLEASES; CUSTOM-DESIGNED ZINC FINGER NUCLEASES	新興的植物荷爾蒙(strigolactone) 其功能在於遏阻其他枝極進行分泌、外送生長素(auxin)的活動，具有抑制側芽形成的功能，此研究對不僅破除以往頂端優勢說，更證實植株上所有枝極都有能力影響其他枝極的生長，進而揭開植物修

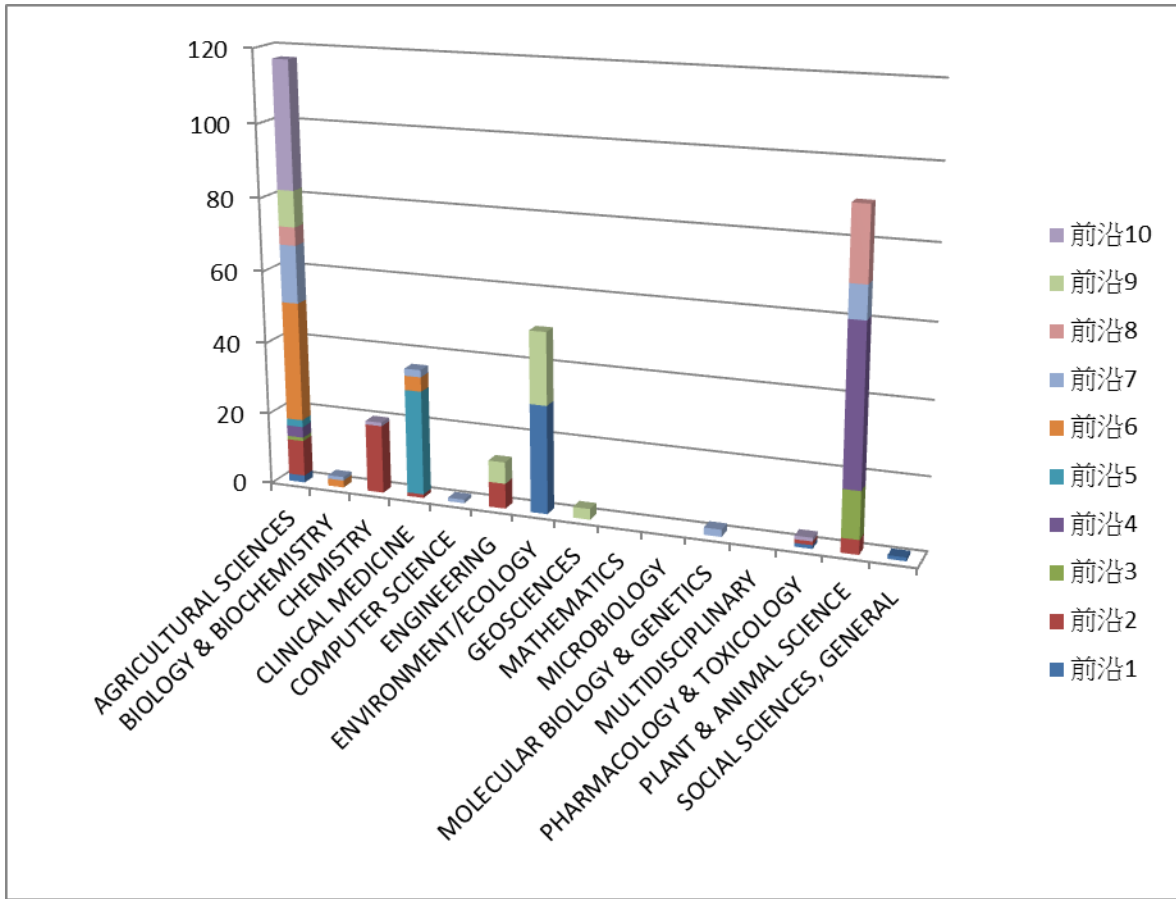
		剪可促進生長的奧秘。
前沿 5	GLUTAMATE TASTE RESPONSES; TASTE RECEPTORS REGULATE SECRETION; UMAMI TASTE TRANSDUCTION MECHANISMS; TAS1R TASTE RECEPTOR GENES; TASTE SIGNALING ELEMENTS EXPRESSED IN AGRICULTURAL SCIENCES	過去幾年，動物味覺受體「T1R」和「T2R」的發現對味覺訊號傳導研究上有了很大的突破，確立T1R及T2R受體與味覺的產生之間的關係，以探討生物體對於各種養分(如醣類)之吸收機制。
前沿 6	DAILY QUERCETIN SUPPLEMENTATION; PLASMA QUERCETIN CONCENTRATIONS; QUERCETIN REDUCES SYSTOLIC BLOOD PRESSURE; QUERCETIN REDUCES BLOOD PRESSURE; GREEN TEA POLYPHENOLS IMPROVE CARDIAC MUSCLE MRNA; QUERCETIN INCREASES BRAIN IN AGRICULTURAL SCIENCES	槲皮素(querletin)係廣泛的分佈於植物界中含量最多之類黃素(flavonoid)分子。常見於日常食用之蔬菜、水果，例如：蘋果、洋蔥、茶、莓及多種的十字花科蔬菜等。類黃酮分子聚合物的主要作用機制為抗氧化作用，其對人體的助益包括預防心血管(cardiovascular)疾病，抗潰瘍(anti-ulcer)、抗過敏性(antiallergy)等多項作用。
前沿 7	GENOMIC BREEDING VALUES; GENOMIC SELECTION; GENOMIC ESTIMATED BREEDING VALUES; GENOMIC BREEDING PROGRAMS; DIRECT GENOMIC VALUES IN AGRICULTURAL SCIENCES	遺傳學的發展促進育種家在鑑定譜系及表現型之基因型時，有十分大的助益，此項研究被廣泛應用在畜牧業隻乳牛育種上，遺傳預測可提高並追蹤可靠性基因的遺傳，進而運用在優良畜產動物之選種及育種上。
前沿 8	GENE EXPRESSION; FLAVONOID BIOSYNTHESIS; GRAPEVINE TRANSCRIPTION FACTOR VVMYBPA1 REGULATES PROANTHOCYANIDIN SYNTHESIS; CLOSELY RELATED R2R3-MYB TRANSCRIPTION FACTORS CONTROLS FLAVONOL ACCUMULATION; VITIS VINIFERA RED GRAPES IN AGRICULTURAL SCIENCES	類黃酮為水溶性化合物，常見於植物和花，是天然的顏料，賦予各式蔬果色彩，如葡萄、番茄、櫻桃、柑橘類水果、豆科植物、洋蔥，具有抗氧化功能。對人體有抗病毒、致癌物、毒素與過敏物質等功能。
前沿 9	PLANT BIOMASS-DERIVED BLACK CARBON (BIOCHAR); PASTURE SOIL; IN-SITU NITROUS OXIDE EMISSIONS; NEGATIVE CARBON MINERALIZATION PRIMING EFFECTS; LABORATORY-PRODUCED BLACK CARBON (BIOCHAR); BLACK CARBON INCREASES CATION EXCHANGE CAPACITY IN AGRICULTURAL SCIENCES	氮的淋溶損失在潮濕的熱帶地區及水滲透性高的土壤中為限制作物生產主要原因之一。許多研究指出，碳元素對氮元素的保留有著極大的影響。因此在未來，氮元素的固定、減少氮淋溶現象及氣態氮元素的損失等可有效增加氮元素之保留研究將陸續發展。
前沿 10	ANTIOXIDANT PEPTIDES; IN-VITRO ANTIOXIDANT ACTIVITIES; ANTIOXIDANT ACTIVITIES IN-VITRO; ANTIOXIDANT ACTIVITY; ANTIOXIDANT PROPERTIES IN AGRICULTURAL SCIENCES	氧化反應會造成食品變質、細胞損傷，也與許多疾病的發生有關。為了延遲不良的氧化反應，抗氧化劑被廣泛應用於在食品加工中。雖然人工合成的抗氧化劑較天然抗氧化劑的抗氧化活性強，但

其對人體安全及健康方面仍堪慮。因此，天然抗氧化劑，如抗氧化胜肽便成為食品研究領域之新興開發重點。

Top10 農業研究前沿的核心文獻各領域的統計(數量)

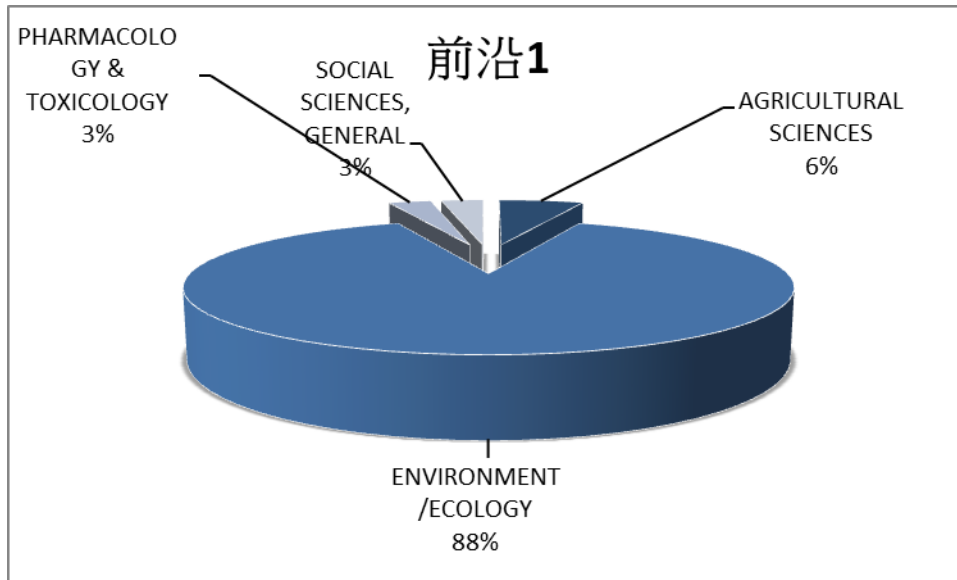
	AGRICULTURAL SCIENCES	BIOLOGY & BIOCHEMISTRY	CHEMISTRY	CLINICAL MEDICINE	COMPUTER SCIENCE	ENGINEERING	ENVIRONMENT/ECOLOGY	GEOSCIENCES	MATHEMATICS	MICROBIOLOGY	MOLECULAR BIOLOGY & GENETICS	MULTIDISCIPLINARY	PHARMACOLOGY & TOXICOLOGY	PLANT & ANIMAL SCIENCE	SOCIAL SCIENCES, GENERAL
前沿 1	2						30						1		1
前沿 2	10		19	1		7							1	4	
前沿 3	1														13
前沿 4	3														44
前沿 5	2			29											
前沿 6	33	2		4											
前沿 7	16	1		2	1						2			9	
前沿 8	5														20
前沿 9	10					6	20	3							
前沿 10	35		1											1	

Top10 農業研究前沿的核心文獻各領域的統計分佈圖(數量)



農業前沿一

PERFLUORINATED COMPOUNDS; PERFLUORINATED CHEMICALS; PERFLUOROALKYL COMPOUNDS IMPAIR HUMAN SEMEN QUALITY; PERFLUORINATED SURFACTANTS (PFSS); PERFLUORINATED ACIDS IN AGRICULTURAL SCIENCES



各分類領域比例圖

核心文獻清單

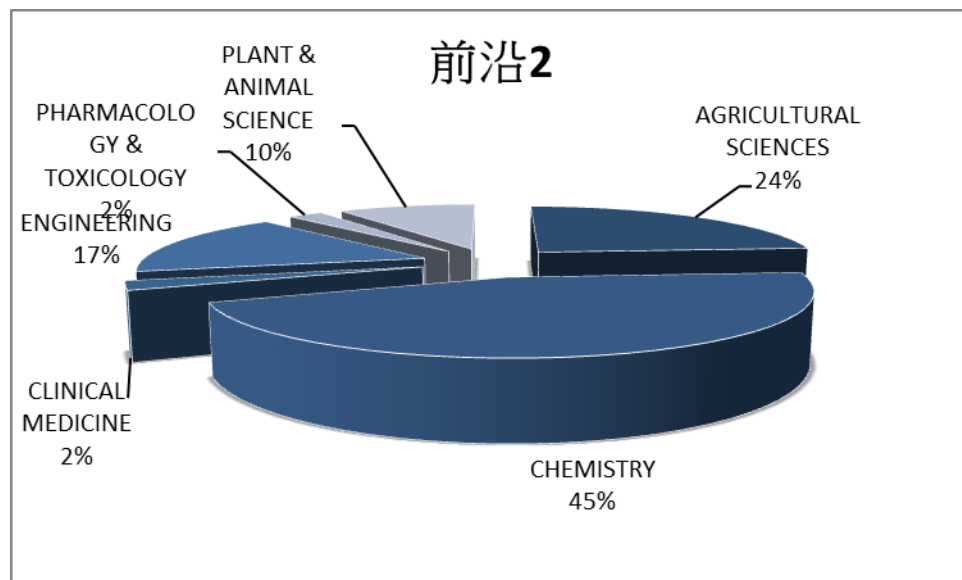
核心文獻標題	Citation	分類領域
PERFLUOROALKYL ACIDS: A REVIEW OF MONITORING AND TOXICOLOGICAL FINDINGS	348	PHARMACOLOGY & TOXICOLOGY
BIOLOGICAL MONITORING OF POLYFLUOROALKYL SUBSTANCES: A REVIEW	331	ENVIRONMENT/ECOLOGY
HALF-LIFE OF SERUM ELIMINATION OF PERFLUOROCTANESULFONATE, PERFLUROHEXANESULFONATE, AND PERFLUROCTANOATE IN RETIRED FLUROCHEMICAL PRODUCTION WORKERS	194	ENVIRONMENT/ECOLOGY
POLYFLUROALKYL CHEMICALS IN THE US POPULATION: DATA FROM THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 2003-2004 AND COMPARISONS WITH NHANES 1999-2000	188	ENVIRONMENT/ECOLOGY
PERFLUROINATED SURFACTANTS IN SURFACE AND DRINKING WATER	147	ENVIRONMENT/ECOLOGY
MASS LOADING AND FATE OF PERFLUROALKYL SURFACTANTS IN WASTEWATER TREATMENT PLANTS	125	ENVIRONMENT/ECOLOGY
CORD SERUM CONCENTRATIONS OF PERFLUROOCTANE SULFONATE (PFOS) AND PERFLUROOCTANOATE (PFOA) IN RELATION TO WEIGHT AND SIZE AT BIRTH	120	ENVIRONMENT/ECOLOGY
ATMOSPHERIC CHEMISTRY OF N-METHYL PERFLUROBUTANE	117	ENVIRONMENT/ECOLOGY

SULFONAMIDOETHANOL, C4F9SO2N(CH3)CH2CH2OH: KINETICS AND MECHANISM OF REACTION WITH OH		
EXPOSURE OF PERFLUORINATED CHEMICALS THROUGH LACTATION: LEVELS OF MATCHED HUMAN MILK AND SERUM AND A TEMPORAL TREND, 1996-2004, IN SWEDEN	116	ENVIRONMENT/ECOLOGY
OCCURRENCE OF PERFLUOROALKYL SURFACTANTS IN WATER, FISH, AND BIRDS FROM NEW YORK STATE	114	ENVIRONMENT/ECOLOGY
PERFLUORINATED COMPOUNDS - EXPOSURE ASSESSMENT FOR THE GENERAL POPULATION IN WESTERN COUNTRIES	107	ENVIRONMENT/ECOLOGY
SERUM CONCENTRATIONS OF 11 POLYFLUOROALKYL COMPOUNDS IN THE US POPULATION: DATA FROM THE NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY (NHANES) 1999-2000	106	ENVIRONMENT/ECOLOGY
ARE PFCAS BIOACCUMULATIVE? A CRITICAL REVIEW AND COMPARISON WITH REGULATORY LIPOPHILIC COMPOUNDS	100	ENVIRONMENT/ECOLOGY
PERFLUOROCEMICALS IN POOLED SERUM SAMPLES FROM UNITED STATES RESIDENTS IN 2001 AND 2002	100	ENVIRONMENT/ECOLOGY
HEALTH RISKS IN INFANTS ASSOCIATED WITH EXPOSURE TO PERFLUORINATED COMPOUNDS IN HUMAN BREAST MILK FROM ZHOUSHAN, CHINA	100	ENVIRONMENT/ECOLOGY
DIETARY EXPOSURE OF CANADIANS TO PERFLUORINATED CARBOXYLATES AND PERFLUOROOCTANE SULFONATE VIA CONSUMPTION OF MEAT, FISH, FAST FOODS, AND FOOD ITEMS PREPARED IN THEIR PACKAGING	98	AGRICULTURAL SCIENCES
PERFLUORINATED CHEMICALS AND FETAL GROWTH: A STUDY WITHIN THE DANISH NATIONAL BIRTH COHORT	96	ENVIRONMENT/ECOLOGY
PERFLUORINATED CHEMICALS IN THE ARCTIC ATMOSPHERE	95	ENVIRONMENT/ECOLOGY
PERFLUORINATED ACIDS IN ARCTIC SNOW: NEW EVIDENCE FOR ATMOSPHERIC FORMATION	94	ENVIRONMENT/ECOLOGY
PERFLUORINATED ACIDS IN AIR, RAIN, SNOW, SURFACE RUNOFF, AND LAKES: RELATIVE IMPORTANCE OF PATHWAYS TO CONTAMINATION OF URBAN LAKES	92	ENVIRONMENT/ECOLOGY
A FIRST GLOBAL PRODUCTION, EMISSION, AND ENVIRONMENTAL INVENTORY FOR PERFLUOROOCTANE SULFONATE	87	ENVIRONMENT/ECOLOGY
PERFLUORINATED ACIDS AS NOVEL CHEMICAL TRACERS OF GLOBAL CIRCULATION OF OCEAN WATERS	81	ENVIRONMENT/ECOLOGY
DECLINE IN PERFLUOROOCTANESULFONATE AND OTHER POLYFLUOROALKYL CHEMICALS IN AMERICAN RED CROSS ADULT BLOOD DONORS, 2000-2006	77	ENVIRONMENT/ECOLOGY
PERFLUOROALKYL SULFONATES AND PERFLUOROCARBOXYLATES IN TWO WASTEWATER TREATMENT FACILITIES IN KENTUCKY AND	72	ENVIRONMENT/ECOLOGY

GEORGIA		
BIOMONITORING OF PERFLUORINATED COMPOUNDS IN CHILDREN AND ADULTS EXPOSED TO PERFLUOROOCTANOATE-CONTAMINATED DRINKING WATER	70	ENVIRONMENT/ECOLOGY
HUMAN EXPOSURE TO PERFLUORINATED CHEMICALS THROUGH THE DIET: INTAKE OF PERFLUORINATED COMPOUNDS IN FOODS FROM THE CATALAN (SPAIN) MARKET	64	AGRICULTURAL SCIENCES
ESTIMATING CONSUMER EXPOSURE TO PFOS AND PFOA	61	SOCIAL SCIENCES, GENERAL
DO PERFLUOROALKYL COMPOUNDS IMPAIR HUMAN SEMEN QUALITY?	44	ENVIRONMENT/ECOLOGY
EVALUATION OF WASTEWATER AND STREET RUNOFF AS SOURCES OF PERFLUORINATED SURFACTANTS (PFSS)	42	ENVIRONMENT/ECOLOGY
ASSOCIATION BETWEEN SERUM PERFLUOROOCTANOIC ACID (PFOA) AND THYROID DISEASE IN THE US NATIONAL HEALTH AND NUTRITION EXAMINATION SURVEY	26	ENVIRONMENT/ECOLOGY
RATE OF DECLINE IN SERUM PFOA CONCENTRATIONS AFTER GRANULAR ACTIVATED CARBON FILTRATION AT TWO PUBLIC WATER SYSTEMS IN OHIO AND WEST VIRGINIA	26	ENVIRONMENT/ECOLOGY
LEVELS AND TRENDS OF POLY- AND PERFLUORINATED COMPOUNDS IN THE ARCTIC ENVIRONMENT	26	ENVIRONMENT/ECOLOGY
EXPOSURE TO POLYFLUOROALKYL CHEMICALS AND CHOLESTEROL, BODY WEIGHT, AND INSULIN RESISTANCE IN THE GENERAL US POPULATION	22	ENVIRONMENT/ECOLOGY
EXPLORING INDIRECT SOURCES OF HUMAN EXPOSURE TO PERFLUOROALKYL CARBOXYLATES (PFCAS): EVALUATING UPTAKE, ELIMINATION, AND BIOTRANSFORMATION OF POLYFLUOROALKYL PHOSPHATE ESTERS (PAPS) IN THE RAT	7	ENVIRONMENT/ECOLOGY

農業前沿二

MELAMINE; TOXICITY; PET FOOD; INFANT FORMULA POWDER; MATRIX-ASSISTED LASER DESORPTION ELECTROSPRAY IONIZATION (MALDESI) FOURIER TRANSFORM ION CYCLOTRON RESONANCE MASS SPECTROMETRY; AMBIENT DESORPTION IONIZATION MASS SPECTROMETRY IN AGRICULTURAL SCIENCES



各分類領域比例圖

核心文獻清單

核心文獻標題	Citation	分類領域
AMBIENT MASS SPECTROMETRY	330	CHEMISTRY
OUTBREAKS OF RENAL FAILURE ASSOCIATED WITH MELAMINE AND CYANURIC ACID IN DOGS AND CATS IN 2004 AND 2007	155	PLANT & ANIMAL SCIENCE
AMBIENT DESORPTION IONIZATION MASS SPECTROMETRY	154	CHEMISTRY
LASER ABLATION ELECTROSPRAY IONIZATION FOR ATMOSPHERIC PRESSURE, IN VIVO, AND IMAGING MASS SPECTROMETRY	141	CHEMISTRY
IDENTIFICATION AND CHARACTERIZATION OF TOXICITY OF CONTAMINANTS IN PET FOOD LEADING TO AN OUTBREAK OF RENAL TOXICITY IN CATS AND DOGS	133	PHARMACOLOGY & TOXICOLOGY
ASSESSMENT OF MELAMINE AND CYANURIC ACID TOXICITY IN CATS	127	PLANT & ANIMAL SCIENCE
EXTRACTIVE ELECTROSPRAY IONIZATION FOR DIRECT ANALYSIS OF UNDILUTED URINE, MILK AND OTHER COMPLEX MIXTURES WITHOUT SAMPLE PREPARATION	123	CHEMISTRY
DETERMINATION AND CONFIRMATION OF MELAMINE RESIDUES IN CATFISH, TROUT, TILAPIA, SALMON, AND SHRIMP BY LIQUID CHROMATOGRAPHY WITH TANDEM MASS SPECTROMETRY	120	AGRICULTURAL SCIENCES
ESTABLISHED AND EMERGING ATMOSPHERIC PRESSURE SURFACE	113	CHEMISTRY

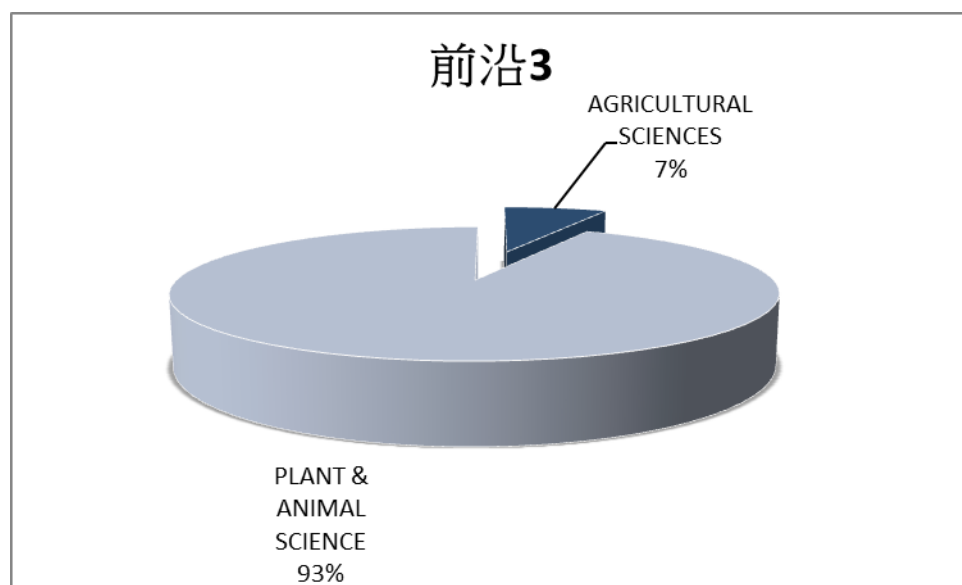
SAMPLING/IONIZATION TECHNIQUES FOR MASS SPECTROMETRY		
THE USE OF RECENTLY DESCRIBED IONISATION TECHNIQUES FOR THE RAPID ANALYSIS OF SOME COMMON DRUGS AND SAMPLES OF BIOLOGICAL ORIGIN	99	ENGINEERING
DEVELOPMENT OF CAPABILITIES FOR IMAGING MASS SPECTROMETRY UNDER AMBIENT CONDITIONS WITH DESORPTION ELECTROSPRAY IONIZATION (DESI)	97	CHEMISTRY
GENERATION AND DETECTION OF MULTIPLY-CHARGED PEPTIDES AND PROTEINS BY MATRIX-ASSISTED LASER DESORPTION ELECTROSPRAY IONIZATION (MALDESI) FOURIER TRANSFORM ION CYCLOTRON RESONANCE MASS SPECTROMETRY	95	CHEMISTRY
LOW-TEMPERATURE PLASMA PROBE FOR AMBIENT DESORPTION IONIZATION	92	CHEMISTRY
DROPLET DYNAMICS AND IONIZATION MECHANISMS IN DESORPTION ELECTROSPRAY IONIZATION MASS SPECTROMETRY	92	CHEMISTRY
DIAGNOSTIC DETERMINATION OF MELAMINE AND RELATED COMPOUNDS IN KIDNEY TISSUE BY LIQUID CHROMATOGRAPHY/TANDEM MASS SPECTROMETRY	91	AGRICULTURAL SCIENCES
DETECTION OF MELAMINE IN MILK PRODUCTS BY SURFACE DESORPTION ATMOSPHERIC PRESSURE CHEMICAL IONIZATION MASS SPECTROMETRY	87	CHEMISTRY
RECENT DEVELOPMENTS IN AMBIENT IONIZATION TECHNIQUES FOR ANALYTICAL MASS SPECTROMETRY	84	CHEMISTRY
DESORPTION ELECTROSPRAY IONIZATION MASS SPECTROMETRY: IMAGING DRUGS AND METABOLITES IN TISSUES	83	CHEMISTRY
THE DETERMINATION OF MELAMINE IN MUSCLE TISSUE BY LIQUID CHROMATOGRAPHY/TANDEM MASS SPECTROMETRY	83	ENGINEERING
DESORPTION SONIC SPRAY IONIZATION FOR (HIGH) VOLTAGE-FREE AMBIENT MASS SPECTROMETRY	82	ENGINEERING
DETERMINATION OF MELAMINE IN PET FOOD BY ENZYME IMMUNOASSAY, HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY WITH DIODE ARRAY DETECTION, AND ULTRA-PERFORMANCE LIQUID CHROMATOGRAPHY WITH TANDEM MASS SPECTROMETRY	65	AGRICULTURAL SCIENCES
AMBIENT IONIZATION MASS SPECTROMETRY: CURRENT UNDERSTANDING OF MECHANISTIC THEORY; ANALYTICAL PERFORMANCE AND APPLICATION AREAS	64	CHEMISTRY
MELAMINE-CONTAMINATED POWDERED FORMULA AND UROLITHIASIS IN YOUNG CHILDREN.	64	CLINICAL MEDICINE
EVALUATION OF THE RENAL EFFECTS OF EXPERIMENTAL FEEDING OF MELAMINE AND CYANURIC ACID TO FISH AND PIGS	64	PLANT & ANIMAL SCIENCE

DETERMINATION OF MELAMINE IN DAIRY PRODUCTS, FISH FEED, AND FISH BY CAPILLARY ZONE ELECTROPHORESIS WITH DIODE ARRAY DETECTION	63	AGRICULTURAL SCIENCES
HIGH-PERFORMANCE LIQUID CHROMATOGRAPHIC METHOD FOR THE SIMULTANEOUS DETECTION OF THE ADULTERATION OF CEREAL FLOURS WITH MELAMINE AND RELATED TRIAZINE BY-PRODUCTS AMMELINE, AMMELIDE, AND CYANURIC ACID	63	AGRICULTURAL SCIENCES
DESORPTION ELECTROSPRAY IONIZATION AND OTHER AMBIENT IONIZATION METHODS: CURRENT PROGRESS AND PREVIEW	61	CHEMISTRY
DETECTION OF MELAMINE USING COMMERCIAL ENZYME-LINKED IMMUNOSORBENT ASSAY TECHNOLOGY	61	AGRICULTURAL SCIENCES
WHAT CAN WE LEARN FROM AMBIENT IONIZATION TECHNIQUES?	59	CHEMISTRY
BIOANALYSIS WITHOUT SAMPLE CLEANUP OR CHROMATOGRAPHY: THE EVALUATION AND INITIAL IMPLEMENTATION OF DIRECT ANALYSIS IN REAL TIME IONIZATION MASS SPECTROMETRY FOR THE QUANTIFICATION OF DRUGS IN BIOLOGICAL MATRIXES	55	CHEMISTRY
PHARMACOKINETICS OF MELAMINE IN PIGS FOLLOWING INTRAVENOUS ADMINISTRATION	51	AGRICULTURAL SCIENCES
DETECTION OF MELAMINE IN GLUTEN, CHICKEN FEED, AND PROCESSED FOODS USING SURFACE ENHANCED RAMAN SPECTROSCOPY AND HPLC	49	AGRICULTURAL SCIENCES
QUANTITATIVE ANALYSIS OF SMALL MOLECULES BY DESORPTION ELECTROSPRAY IONIZATION MASS SPECTROMETRY FROM POLYTETRAFLUOROETHYLENE SURFACES	49	ENGINEERING
CLINICOPATHOLOGIC, HISTOLOGIC, AND TOXICOLOGIC FINDINGS IN 70 CATS INADVERTENTLY EXPOSED TO PET FOOD CONTAMINATED WITH MELAMINE AND CYANURIC ACID	48	PLANT & ANIMAL SCIENCE
DIRECT MASS SPECTROMETRIC ANALYSIS OF FLAVORS AND FRAGRANCES IN REAL APPLICATIONS USING DART	44	ENGINEERING
IMPROVED IMAGING RESOLUTION IN DESORPTION ELECTROSPRAY IONIZATION MASS SPECTROMETRY	41	ENGINEERING
MELAMINE DETECTION IN INFANT FORMULA POWDER USING NEAR- AND MID-INFRARED SPECTROSCOPY	40	AGRICULTURAL SCIENCES
QUANTIFICATION OF SMALL MOLECULES IN PLASMA WITH DIRECT ANALYSIS IN REAL TIME TANDEM MASS SPECTROMETRY, WITHOUT SAMPLE PREPARATION AND LIQUID CHROMATOGRAPHIC SEPARATION	34	ENGINEERING
PAPER SPRAY FOR DIRECT ANALYSIS OF COMPLEX MIXTURES USING MASS SPECTROMETRY	33	CHEMISTRY
DEVELOPMENT, CHARACTERIZATION, AND APPLICATION OF PAPER SPRAY IONIZATION	30	CHEMISTRY

TISSUE DEPOSITION AND RESIDUE DEPLETION IN LAMBS EXPOSED TO MELAMINE AND CYANURIC ACID-CONTAMINATED DIETS	13	AGRICULTURAL SCIENCES
VENTURI EASY AMBIENT SONIC-SPRAY IONIZATION	10	CHEMISTRY

農業前沿三

MODEL GRASS BRACHYPODIUM DISTACHYON; GRASS GENOME EVOLUTION; BARLEY GENOME; GENOME SEQUENCING; GRAPEVINE GENOME SEQUENCE SUGGESTS ANCESTRAL HEXAPLOIDIZATION IN AGRICULTURAL SCIENCES



各分類領域比例圖

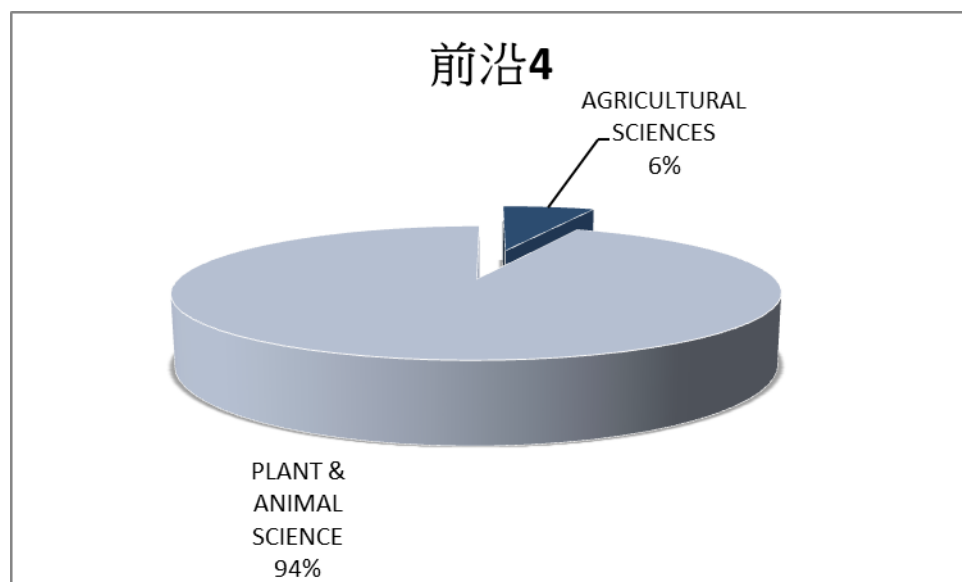
核心文獻清單

核心文獻標題	Citation	分類領域
THE GENOME OF BLACK COTTONWOOD, POPULUS TRICHOCARPA (TORR. & GRAY)	910	PLANT & ANIMAL SCIENCE
THE GRAPEVINE GENOME SEQUENCE SUGGESTS ANCESTRAL HEXAPLOIDIZATION IN MAJOR ANGIOSPERM PHYLA	547	PLANT & ANIMAL SCIENCE
THE SORGHUM BICOLOR GENOME AND THE DIVERSIFICATION OF GRASSES	323	PLANT & ANIMAL SCIENCE
THE DRAFT GENOME OF THE TRANSGENIC TROPICAL FRUIT TREE PAPAYA (CARICA PAPAYA LINNAEUS)	181	PLANT & ANIMAL SCIENCE
GENOME SEQUENCING AND ANALYSIS OF THE MODEL GRASS BRACHYPODIUM DISTACHYON	165	PLANT & ANIMAL SCIENCE
POPULUS: A MODEL SYSTEM FOR PLANT BIOLOGY	101	PLANT & ANIMAL SCIENCE
IDENTIFICATION AND CHARACTERIZATION OF SHARED DUPLICATIONS BETWEEN RICE AND WHEAT PROVIDE NEW INSIGHT INTO GRASS GENOME EVOLUTION	89	PLANT & ANIMAL SCIENCE
BRACHYPODIUM DISTACHYON: MAKING HAY WITH A WILD GRASS	44	PLANT & ANIMAL SCIENCE

DEVELOPMENT OF GENETIC AND GENOMIC RESEARCH RESOURCES FOR BRACHYPODIUM DISTACHYON, A NEW MODEL SYSTEM FOR GRASS CROP RESEARCH	39	AGRICULTURAL SCIENCES
THE 'INNER CIRCLE' OF THE CEREAL GENOMES	34	PLANT & ANIMAL SCIENCE
MEGABASE LEVEL SEQUENCING REVEALS CONTRASTED ORGANIZATION AND EVOLUTION PATTERNS OF THE WHEAT GENE AND TRANSPOSABLE ELEMENT SPACES	25	PLANT & ANIMAL SCIENCE
PALAEOGENOMICS OF PLANTS: SYNTENY-BASED MODELLING OF EXTINCT ANCESTORS	17	PLANT & ANIMAL SCIENCE
UNLOCKING THE BARLEY GENOME BY CHROMOSOMAL AND COMPARATIVE GENOMICS	9	PLANT & ANIMAL SCIENCE
INVESTIGATIONS OF BARLEY STRIPE MOSAIC VIRUS AS A GENE SILENCING VECTOR IN BARLEY ROOTS AND IN BRACHYPODIUM DISTACHYON AND OAT	9	PLANT & ANIMAL SCIENCE

農業前沿四

ZINC-FINGER NUCLEASES; ENGINEERED ZINC-FINGER NUCLEASES; ENGINEERED ZINC FINGER NUCLEASES;
DESIGNED ZINC-FINGER NUCLEASES; CUSTOM-DESIGNED ZINC FINGER NUCLEASES



各分類領域比例圖

核心文獻清單

核心文獻標題	Citation	分類領域
STRIGOLACTONE INHIBITION OF SHOOT BRANCHING	242	PLANT & ANIMAL SCIENCE
INHIBITION OF SHOOT BRANCHING BY NEW TERPENOID PLANT HORMONES	239	PLANT & ANIMAL SCIENCE
RHIZOSPHERE COMMUNICATION OF PLANTS, PARASITIC PLANTS AND AM FUNGI	107	PLANT & ANIMAL SCIENCE
AUXIN CONTROLS LOCAL CYTOKININ BIOSYNTHESIS IN THE NODAL STEM IN APICAL DOMINANCE	88	PLANT & ANIMAL SCIENCE
THE BALANCE BETWEEN THE MIR164A AND CUC2 GENES CONTROLS LEAF MARGIN SERRATION IN ARABIDOPSIS	87	PLANT & ANIMAL SCIENCE
HORMONAL CONTROL OF SHOOT BRANCHING	84	PLANT & ANIMAL SCIENCE
TCP TRANSCRIPTION FACTORS CONTROL THE MORPHOLOGY OF SHOOT LATERAL ORGANS VIA NEGATIVE REGULATION OF THE EXPRESSION OF BOUNDARY-SPECIFIC GENES IN ARABIDOPSIS	82	PLANT & ANIMAL SCIENCE
DWARF10, AN RMS1/MAX4/DAD1 ORTHOLOG, CONTROLS LATERAL BUD OUTGROWTH IN RICE	80	PLANT & ANIMAL SCIENCE
A CONSERVED MOLECULAR FRAMEWORK FOR COMPOUND LEAF	66	PLANT & ANIMAL

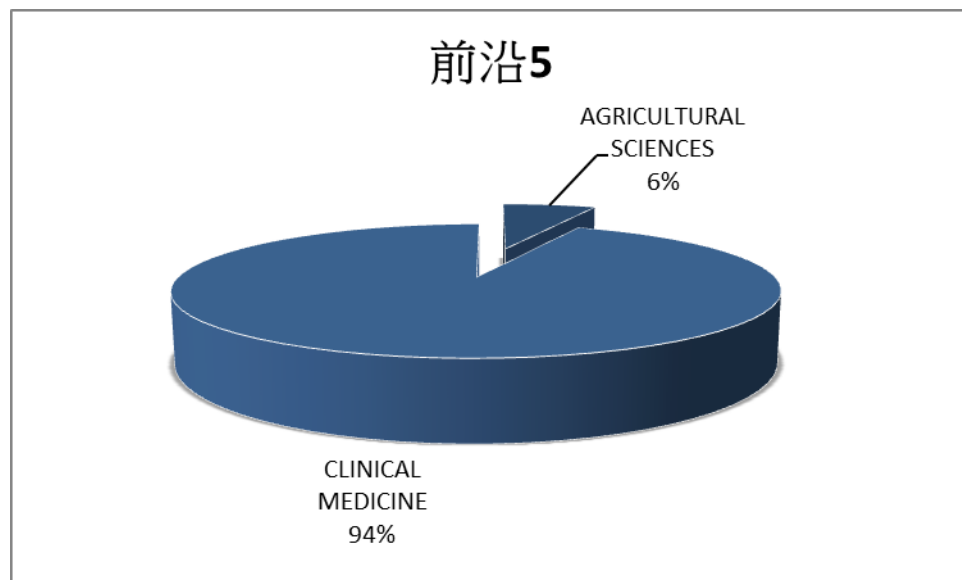
DEVELOPMENT		SCIENCE
ARABIDOPSIS BRANCHED1 ACTS AS AN INTEGRATOR OF BRANCHING SIGNALS WITHIN AXILLARY BUDS	66	PLANT & ANIMAL SCIENCE
OBSERVATIONS ON THE CURRENT STATUS OF OROBANCHE AND STRIGA PROBLEMS WORLDWIDE	63	AGRICULTURAL SCIENCES
TOMATO STRIGOLACTONES ARE DERIVED FROM CAROTENOIDS AND THEIR BIOSYNTHESIS IS PROMOTED BY PHOSPHATE STARVATION	62	PLANT & ANIMAL SCIENCE
ENGINEERING OF THE ROSE FLAVONOID BIOSYNTHETIC PATHWAY SUCCESSFULLY GENERATED BLUE-HUED FLOWERS ACCUMULATING DELPHINIDIN	59	PLANT & ANIMAL SCIENCE
MAX2 PARTICIPATES IN AN SCF COMPLEX WHICH ACTS LOCALLY AT THE NODE TO SUPPRESS SHOOT BRANCHING	56	PLANT & ANIMAL SCIENCE
STRIGOLACTONES, HOST RECOGNITION SIGNALS FOR ROOT PARASITIC PLANTS AND ARBUSCULAR MYCORRHIZAL FUNGI, FROM FABACEAE PLANTS	48	PLANT & ANIMAL SCIENCE
STRIGOLACTONE ACTS DOWNSTREAM OF AUXIN TO REGULATE BUD OUTGROWTH IN PEA AND ARABIDOPSIS	47	PLANT & ANIMAL SCIENCE
A PROTRACTED AND DYNAMIC MATURATION SCHEDULE UNDERLIES ARABIDOPSIS LEAF DEVELOPMENT	45	PLANT & ANIMAL SCIENCE
DWARF27, AN IRON-CONTAINING PROTEIN REQUIRED FOR THE BIOSYNTHESIS OF STRIGOLACTONES, REGULATES RICE TILLER BUD OUTGROWTH	44	PLANT & ANIMAL SCIENCE
NITROGEN DEFICIENCY AS WELL AS PHOSPHORUS DEFICIENCY IN SORGHUM PROMOTES THE PRODUCTION AND EXUDATION OF 5-DEOXYSTRIGOL, THE HOST RECOGNITION SIGNAL FOR ARBUSCULAR MYCORRHIZAL FUNGI AND ROOT PARASITES	43	PLANT & ANIMAL SCIENCE
STRIGOLACTONES: DISCOVERY OF THE ELUSIVE SHOOT BRANCHING HORMONE	40	PLANT & ANIMAL SCIENCE
THE CONTROL OF SHOOT BRANCHING: AN EXAMPLE OF PLANT INFORMATION PROCESSING	39	PLANT & ANIMAL SCIENCE
STRIGOLACTONES: STRUCTURES AND BIOLOGICAL ACTIVITIES	35	AGRICULTURAL SCIENCES
CONTROL OF BUD ACTIVATION BY AN AUXIN TRANSPORT SWITCH	35	PLANT & ANIMAL SCIENCE
TCP GENES: A FAMILY SNAPSHOT TEN YEARS LATER	34	PLANT & ANIMAL SCIENCE
D14, A STRIGOLACTONE-INSENSITIVE MUTANT OF RICE, SHOWS AN ACCELERATED OUTGROWTH OF TILLERS	34	PLANT & ANIMAL SCIENCE
INTERACTIONS BETWEEN AUXIN AND STRIGOLACTONE IN SHOOT BRANCHING CONTROL	34	PLANT & ANIMAL SCIENCE
ROLES FOR AUXIN, CYTOKININ, AND STRIGOLACTONE IN	31	PLANT & ANIMAL

REGULATING SHOOT BRANCHING		SCIENCE
STRUCTURE AND FUNCTION OF NATURAL AND SYNTHETIC SIGNALLING MOLECULES IN PARASITIC WEED GERMINATION	30	AGRICULTURAL SCIENCES
THE STRIGOLACTONE STORY	29	PLANT & ANIMAL SCIENCE
FUNCTIONAL ANALYSIS OF TRANSCRIPTION FACTORS IN ARABIDOPSIS	28	PLANT & ANIMAL SCIENCE
NEW GENES IN THE STRIGOLACTONE-RELATED SHOOT BRANCHING PATHWAY	26	PLANT & ANIMAL SCIENCE
SLCCD7 CONTROLS STRIGOLACTONE BIOSYNTHESIS, SHOOT BRANCHING AND MYCORRHIZA-INDUCED APOCAROTENOID FORMATION IN TOMATO	21	PLANT & ANIMAL SCIENCE
STRUCTURAL REQUIREMENTS OF STRIGOLACTONES FOR HYPHAL BRANCHING IN AM FUNGI	20	PLANT & ANIMAL SCIENCE
MIR319A TARGETING OF TCP4 IS CRITICAL FOR PETAL GROWTH AND DEVELOPMENT IN ARABIDOPSIS	20	PLANT & ANIMAL SCIENCE
TCP TRANSCRIPTION FACTORS REGULATE THE ACTIVITIES OF ASYMMETRIC LEAVES1 AND MIR164, AS WELL AS THE AUXIN RESPONSE, DURING DIFFERENTIATION OF LEAVES IN ARABIDOPSIS	16	PLANT & ANIMAL SCIENCE
EFFICIENT PRODUCTION OF NOVEL FLORAL TRAITS IN TORENIA BY COLLECTIVE TRANSFORMATION WITH CHIMERIC REPRESSORS OF ARABIDOPSIS TRANSCRIPTION FACTORS	14	PLANT & ANIMAL SCIENCE
STRIGOLACTONES ARE TRANSPORTED THROUGH THE XYLEM AND PLAY A KEY ROLE IN SHOOT ARCHITECTURAL RESPONSE TO PHOSPHATE DEFICIENCY IN NONARBUSCULAR MYCORRHIZAL HOST ARABIDOPSIS	13	PLANT & ANIMAL SCIENCE
CREATING RUFFLED FLOWER PETALS IN CYCLAMEN PERSICUM BY EXPRESSION OF THE CHIMERIC CYCLAMEN TCP REPRESSOR	12	PLANT & ANIMAL SCIENCE
STRIGOLACTONES AFFECT LATERAL ROOT FORMATION AND ROOT-HAIR ELONGATION IN ARABIDOPSIS	12	PLANT & ANIMAL SCIENCE
PHYSIOLOGICAL EFFECTS OF THE SYNTHETIC STRIGOLACTONE ANALOG GR24 ON ROOT SYSTEM ARCHITECTURE IN ARABIDOPSIS: ANOTHER BELOWGROUND ROLE FOR STRIGOLACTONES?	11	PLANT & ANIMAL SCIENCE
ARABIDOPSIS CHIMERIC TCP3 REPRESSOR PRODUCES NOVEL FLORAL TRAITS IN TORENIA FOURNIERI AND CHRYSANTHEMUM MORIFOLIUM	9	PLANT & ANIMAL SCIENCE
MORPHOLOGICAL CHANGES OF ROSA X HYBRIDA BY A CHIMERIC REPRESSOR OF ARABIDOPSIS TCP3	9	PLANT & ANIMAL SCIENCE
INDUCTION OF DOUBLE FLOWERS IN PHARBITIS NIL USING A CLASS-C MADS-BOX TRANSCRIPTION FACTOR WITH CHIMERIC	8	PLANT & ANIMAL SCIENCE

REPRESSOR GENE-SILENCING TECHNOLOGY		
THE NEW FIOREDB DATABASE PROVIDES COMPREHENSIVE INFORMATION ON PLANT TRANSCRIPTION FACTORS AND PHENOTYPES INDUCED BY CRES-T IN ORNAMENTAL AND MODEL PLANTS	8	PLANT & ANIMAL SCIENCE
PRODUCTION OF PICOTEE-TYPE FLOWERS IN JAPANESE GENTIAN BY CRES-T	8	PLANT & ANIMAL SCIENCE
TCP TRANSCRIPTION FACTORS LINK THE REGULATION OF GENES ENCODING MITOCHONDRIAL PROTEINS WITH THE CIRCADIAN CLOCK IN ARABIDOPSIS THALIANA	8	PLANT & ANIMAL SCIENCE
COMPETITIVE CANALIZATION OF PIN-DEPENDENT AUXIN FLOW FROM AXILLARY BUDS CONTROLS PEA BUD OUTGROWTH	6	PLANT & ANIMAL SCIENCE

農業前沿五

GLUTAMATE TASTE RESPONSES; TASTE RECEPTORS REGULATE SECRETION; UMAMI TASTE TRANSDUCTION MECHANISMS; TAS1R TASTE RECEPTOR GENES; TASTE SIGNALING ELEMENTS EXPRESSED IN AGRICULTURAL SCIENCES



各分類領域比例圖

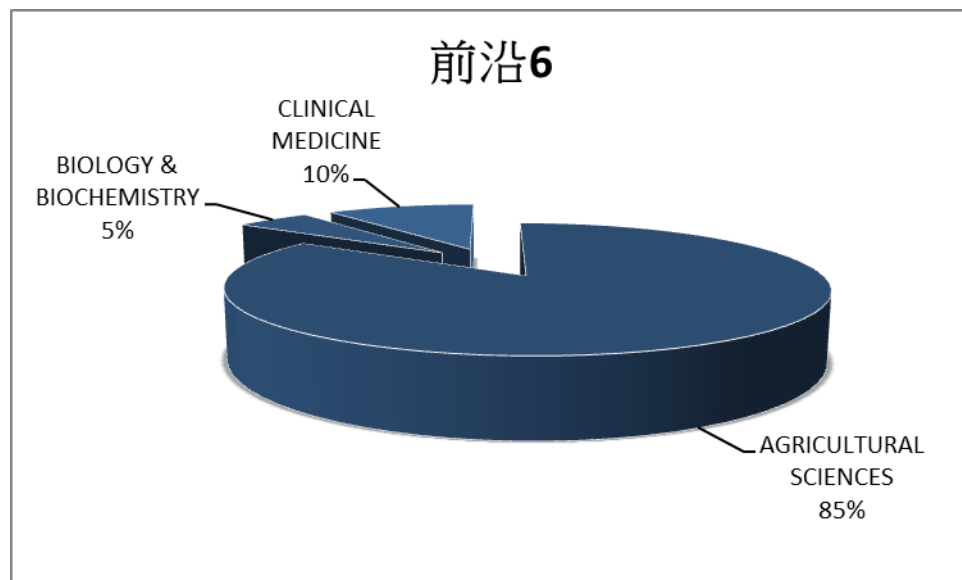
核心文獻清單

核心文獻標題	Citation	分類領域
T1R3 AND GUSTDUCIN IN GUT SENSE SUGARS TO REGULATE EXPRESSION OF NA ⁺ -GLUCOSE COTRANSPORTER 1	168	CLINICAL MEDICINE
GUT-EXPRESSED GUSTDUCIN AND TASTE RECEPTORS REGULATE SECRETION OF GLUCAGON-LIKE PEPTIDE-1	161	CLINICAL MEDICINE
ROLE OF GLUTAMATE IN NEURON-GLIA METABOLIC COUPLING	80	CLINICAL MEDICINE
TASTE SIGNALING ELEMENTS EXPRESSED IN GUT ENTEROENDOCRINE CELLS REGULATE NUTRIENT-RESPONSIVE SECRETION OF GUT HORMONES	80	CLINICAL MEDICINE
TASTE RECEPTORS FOR UMAMI: THE CASE FOR MULTIPLE RECEPTORS	70	CLINICAL MEDICINE
METABOLISM AND FUNCTIONS OF L-GLUTAMATE IN THE EPITHELIAL CELLS OF THE SMALL AND LARGE INTESTINES	67	CLINICAL MEDICINE
EARLY MILK FEEDING INFLUENCES TASTE ACCEPTANCE AND LIKING DURING INFANCY	67	CLINICAL MEDICINE
THE BLOOD-BRAIN BARRIER AND GLUTAMATE	67	CLINICAL MEDICINE
TASTE AND WEIGHT: IS THERE A LINK?	66	CLINICAL MEDICINE
PERCEPTUAL VARIATION IN UMAMI TASTE AND POLYMORPHISMS IN TAS1R TASTE RECEPTOR GENES	65	CLINICAL MEDICINE

VARIATION IN UMAMI PERCEPTION AND IN CANDIDATE GENES FOR THE UMAMI RECEPTOR IN MICE AND HUMANS	65	CLINICAL MEDICINE
LUMINAL CHEMOSENSING AND UPPER GASTROINTESTINAL MUCOSAL DEFENSES	64	CLINICAL MEDICINE
NONSYNONYMOUS SINGLE NUCLEOTIDE POLYMORPHISMS IN HUMAN TAS1R1, TAS1R3, AND MGLUR1 AND INDIVIDUAL TASTE SENSITIVITY TO GLUTAMATE	63	CLINICAL MEDICINE
PROTEIN, AMINO ACIDS, VAGUS NERVE SIGNALING, AND THE BRAIN	62	CLINICAL MEDICINE
METABOLIC FATE AND FUNCTION OF DIETARY GLUTAMATE IN THE GUT	62	CLINICAL MEDICINE
FUNCTIONAL NEUROIMAGING OF UMAMI TASTE: WHAT MAKES UMAMI PLEASANT?	62	CLINICAL MEDICINE
SENSORY AND RECEPTOR RESPONSES TO UMAMI: AN OVERVIEW OF PIONEERING WORK	61	CLINICAL MEDICINE
ACTIVATION OF THE GUT-BRAIN AXIS BY DIETARY GLUTAMATE AND PHYSIOLOGIC SIGNIFICANCE IN ENERGY HOMEOSTASIS	61	CLINICAL MEDICINE
THE GOURMET APE: EVOLUTION AND HUMAN FOOD PREFERENCES	61	CLINICAL MEDICINE
UMAMI TASTE TRANSDUCTION MECHANISMS	60	CLINICAL MEDICINE
MULTIPLE RECEPTORS UNDERLIE GLUTAMATE TASTE RESPONSES IN MICE	60	CLINICAL MEDICINE
REGULATION OF GLUTAMATE METABOLISM AND INSULIN SECRETION BY GLUTAMATE DEHYDROGENASE IN HYPOGLYCEMIC CHILDREN	60	CLINICAL MEDICINE
T1R RECEPTORS MEDIATE MAMMALIAN SWEET AND UMAMI TASTE	60	CLINICAL MEDICINE
UMAMI AND THE FOODS OF CLASSICAL ANTIQUITY	59	CLINICAL MEDICINE
GLUTAMATE TASTE AND APPETITE IN LABORATORY MICE: PHYSIOLOGIC AND GENETIC ANALYSES	59	CLINICAL MEDICINE
HEPATIC GLUTAMATE METABOLISM: A TALE OF 2 HEPATOCYTES	59	CLINICAL MEDICINE
GLUTAMATE: FROM DISCOVERY AS A FOOD FLAVOR TO ROLE AS A BASIC TASTE (UMAMI)	59	CLINICAL MEDICINE
CAN DIETARY SUPPLEMENTATION OF MONOSODIUM GLUTAMATE IMPROVE THE HEALTH OF THE ELDERLY?	58	CLINICAL MEDICINE
HISTORY OF GLUTAMATE PRODUCTION	56	CLINICAL MEDICINE
TASTE RECEPTOR GENES	50	AGRICULTURAL SCIENCES
SUGAR ABSORPTION IN THE INTESTINE: THE ROLE OF GLUT2	43	AGRICULTURAL SCIENCES

農業前沿六

DAILY QUERCETIN SUPPLEMENTATION; PLASMA QUERCETIN CONCENTRATIONS; QUERCETIN REDUCES SYSTOLIC BLOOD PRESSURE; QUERCETIN REDUCES BLOOD PRESSURE; GREEN TEA POLYPHENOLS IMPROVE CARDIAC MUSCLE MRNA; QUERCETIN INCREASES BRAIN IN AGRICULTURAL SCIENCES



各分類領域比例圖

核心文獻清單

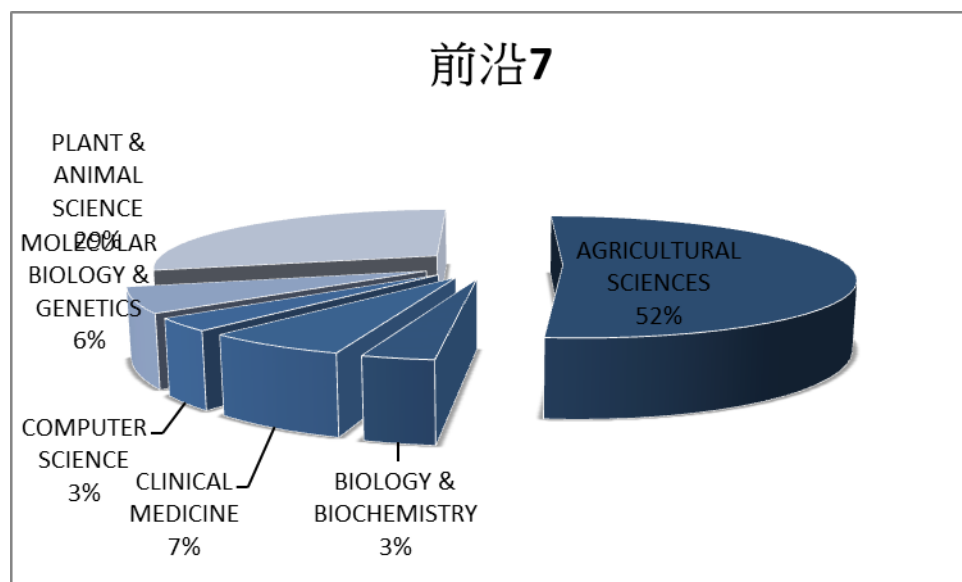
核心文獻標題	Citation	分類領域
CONCENTRATIONS OF ANTHOCYANINS IN COMMON FOODS IN THE UNITED STATES AND ESTIMATION OF NORMAL CONSUMPTION	168	AGRICULTURAL SCIENCES
FLAVONOID INTAKE AND CARDIOVASCULAR DISEASE MORTALITY: A PROSPECTIVE STUDY IN POSTMENOPAUSAL WOMEN	161	CLINICAL MEDICINE
FLAVONOIDS, FLAVONOID-RICH FOODS, AND CARDIOVASCULAR RISK: A META-ANALYSIS OF RANDOMIZED CONTROLLED TRIALS	144	CLINICAL MEDICINE
COCOA INTAKE, BLOOD PRESSURE, AND CARDIOVASCULAR MORTALITY - THE ZUTPHEN ELDERLY STUDY	134	CLINICAL MEDICINE
BERRY ANTHOCYANINS AS NOVEL ANTIOXIDANTS IN HUMAN HEALTH AND DISEASE PREVENTION	132	AGRICULTURAL SCIENCES
EFFECTS OF LOW HABITUAL COCOA INTAKE ON BLOOD PRESSURE AND BIOACTIVE NITRIC OXIDE - A RANDOMIZED CONTROLLED TRIAL	125	CLINICAL MEDICINE
A CRITICAL REVIEW OF THE DATA RELATED TO THE SAFETY OF QUERCETIN AND LACK OF EVIDENCE OF IN VIVO TOXICITY, INCLUDING LACK OF GENOTOXIC/CARCINOGENIC PROPERTIES	99	AGRICULTURAL SCIENCES
ESTIMATED DIETARY FLAVONOID INTAKE AND MAJOR FOOD SOURCES OF US ADULTS	92	AGRICULTURAL SCIENCES

THE BIOAVAILABILITY AND ABSORPTION OF ANTHOCYANINS: TOWARDS A BETTER UNDERSTANDING	85	AGRICULTURAL SCIENCES
FLAVONOIDS AND HEART HEALTH: PROCEEDINGS OF THE ILSI NORTH AMERICA FLAVONOIDS WORKSHOP, MAY 31-JUNE 1, 2005, WASHINGTON, DC	73	AGRICULTURAL SCIENCES
PROTocatechuic acid is the major human metabolite of cyanidin-glucosides	66	AGRICULTURAL SCIENCES
COCOA AND HEALTH: A DECADE OF RESEARCH	60	AGRICULTURAL SCIENCES
PROcyanidin and catechin contents and antioxidant capacity of cocoa and chocolate products	60	AGRICULTURAL SCIENCES
BLOOD PRESSURE IS REDUCED AND INSULIN SENSITIVITY INCREASED IN GLUCOSE-INTOLERANT, HYPERTENSIVE SUBJECTS AFTER 15 DAYS OF CONSUMING HIGH-POLYPHENOL DARK CHOCOLATE	56	AGRICULTURAL SCIENCES
QUERCETIN INCREASES BRAIN AND MUSCLE MITOCHONDRIAL BIOGENESIS AND EXERCISE TOLERANCE	55	BIOLOGY & BIOCHEMISTRY
INTERACTION BETWEEN PHENOLICS AND GUT MICROBIOTA: ROLE IN HUMAN HEALTH	53	AGRICULTURAL SCIENCES
DAILY QUERCETIN SUPPLEMENTATION DOSE-DEPENDENTLY INCREASES PLASMA QUERCETIN CONCENTRATIONS IN HEALTHY HUMANS	48	AGRICULTURAL SCIENCES
A NEW PROCESS TO DEVELOP A COCOA POWDER WITH HIGHER FLAVONOID MONOMER CONTENT AND ENHANCED BIOAVAILABILITY IN HEALTHY HUMANS	48	AGRICULTURAL SCIENCES
QUERCETIN REDUCES BLOOD PRESSURE IN HYPERTENSIVE SUBJECTS	47	AGRICULTURAL SCIENCES
IDENTIFICATION OF ANTHOCYANINS IN THE LIVER, EYE, AND BRAIN OF BLUEBERRY-FED PIGS	41	AGRICULTURAL SCIENCES
TISSUE DISTRIBUTION OF QUERCETIN IN PIGS AFTER LONG-TERM DIETARY SUPPLEMENTATION	39	AGRICULTURAL SCIENCES
ABSORPTION, METABOLISM AND EXCRETION OF CHOLADI GREEN TEA FLAVAN-3-OLS BY HUMANS	37	AGRICULTURAL SCIENCES
PROcyanidin dimers are metabolized by human microbiota with 2-(3,4-dihydroxyphenyl)acetic acid and 5-(3,4-dihydroxyphenyl)-gamma-valerolactone as the major metabolites	35	AGRICULTURAL SCIENCES
QUERCETIN REDUCES SYSTOLIC BLOOD PRESSURE AND PLASMA OXIDISED LOW-DENSITY LIPOPROTEIN CONCENTRATIONS IN OVERWEIGHT SUBJECTS WITH A HIGH-CARDIOVASCULAR DISEASE RISK PHENOTYPE: A DOUBLE-BLINDED, PLACEBO-CONTROLLED CROSS-OVER STUDY	34	AGRICULTURAL SCIENCES
ABSORPTION, METABOLISM, AND EXCRETION OF GREEN TEA	23	AGRICULTURAL SCIENCES

FLAVAN-3-OLS IN HUMANS WITH AN ILEOSTOMY		
POLYPHENOL METABOLITES FROM COLONIC MICROBIOTA EXERT ANTI-INFLAMMATORY ACTIVITY ON DIFFERENT INFLAMMATION MODELS	23	AGRICULTURAL SCIENCES
GREEN TEA FLAVAN-3-OLS: COLONIC DEGRADATION AND URINARY EXCRETION OF CATABOLITES BY HUMANS	20	AGRICULTURAL SCIENCES
SERUM LIPID AND BLOOD PRESSURE RESPONSES TO QUERCETIN VARY IN OVERWEIGHT PATIENTS BY APOLIPOPROTEIN E GENOTYPE	15	AGRICULTURAL SCIENCES
IMPACT OF DIETARY POLYPHENOLS ON HUMAN PLATELET FUNCTION - A CRITICAL REVIEW OF CONTROLLED DIETARY INTERVENTION STUDIES	14	AGRICULTURAL SCIENCES
COLONIC METABOLITES OF BERRY POLYPHENOLS: THE MISSING LINK TO BIOLOGICAL ACTIVITY?	13	AGRICULTURAL SCIENCES
GREEN TEA POLYPHENOLS IMPROVE CARDIAC MUSCLE MRNA AND PROTEIN LEVELS OF SIGNAL PATHWAYS RELATED TO INSULIN AND LIPID METABOLISM AND INFLAMMATION IN INSULIN-RESISTANT RATS	13	AGRICULTURAL SCIENCES
NUTRITION SOCIETY SILVER MEDAL LECTURE BEYOND ANTIOXIDANTS: THE CELLULAR AND MOLECULAR INTERACTIONS OF FLAVONOIDS AND HOW THESE UNDERPIN THEIR ACTIONS ON THE BRAIN	12	AGRICULTURAL SCIENCES
BLUEBERRY SUPPLEMENTATION IMPROVES MEMORY IN OLDER ADULTS	12	AGRICULTURAL SCIENCES
A COMPARISON OF THE IN VITRO BIOTRANSFORMATION OF (-)-EPICATECHIN AND PROCYANIDIN B2 BY HUMAN FAECAL MICROBIOTA	12	AGRICULTURAL SCIENCES
CONCORD GRAPE JUICE SUPPLEMENTATION IMPROVES MEMORY FUNCTION IN OLDER ADULTS WITH MILD COGNITIVE IMPAIRMENT	12	AGRICULTURAL SCIENCES
FLAVONOLS AND CARDIOVASCULAR DISEASE	11	BIOLOGY & BIOCHEMISTRY
METABOLIC FATE OF POLYPHENOLS IN THE HUMAN SUPERORGANISM	5	AGRICULTURAL SCIENCES
BIOAVAILABILITY OF MULTIPLE COMPONENTS FOLLOWING ACUTE INGESTION OF A POLYPHENOL-RICH JUICE DRINK	5	AGRICULTURAL SCIENCES
INSIGHTS INTO THE METABOLISM AND MICROBIAL BIOTRANSFORMATION OF DIETARY FLAVAN-3-OLS AND THE BIOACTIVITY OF THEIR METABOLITES	5	AGRICULTURAL SCIENCES

農業前沿七

GENOMIC BREEDING VALUES; GENOMIC SELECTION; GENOMIC ESTIMATED BREEDING VALUES; GENOMIC BREEDING PROGRAMS; DIRECT GENOMIC VALUES IN AGRICULTURAL SCIENCES



各分類領域比例圖

核心文獻清單

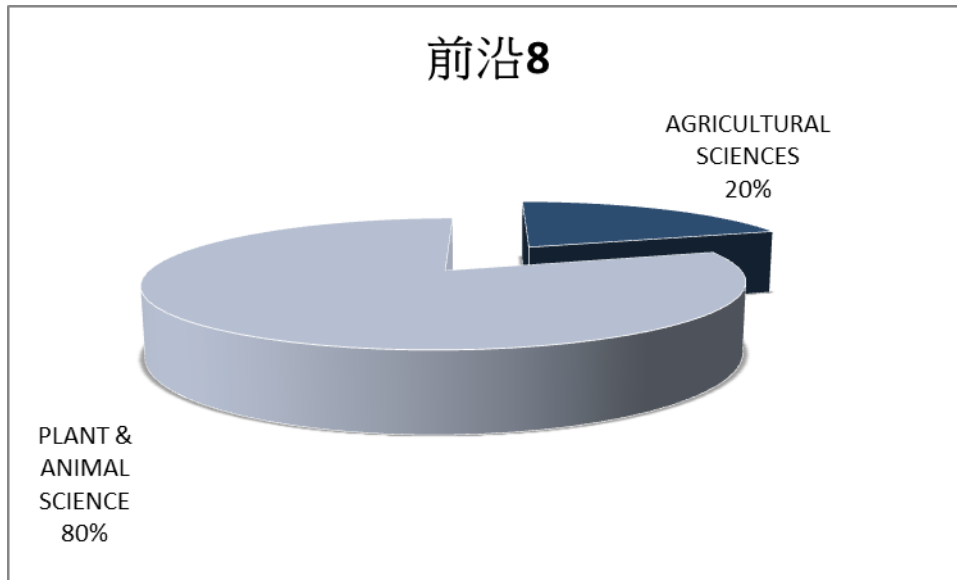
核心文獻標題	Citation	分類領域
THE GENOME SEQUENCE OF TAURINE CATTLE: A WINDOW TO RUMINANT BIOLOGY AND EVOLUTION	178	MOLECULAR BIOLOGY & GENETICS
INVITED REVIEW: RELIABILITY OF GENOMIC PREDICTIONS FOR NORTH AMERICAN HOLSTEIN BULLS	147	AGRICULTURAL SCIENCES
INVITED REVIEW: GENOMIC SELECTION IN DAIRY CATTLE: PROGRESS AND CHALLENGES	140	AGRICULTURAL SCIENCES
STRATEGY FOR APPLYING GENOME-WIDE SELECTION IN DAIRY CATTLE	110	PLANT & ANIMAL SCIENCE
GENOME-WIDE SURVEY OF SNP VARIATION UNCOVERS THE GENETIC STRUCTURE OF CATTLE BREEDS	109	MOLECULAR BIOLOGY & GENETICS
EFFICIENT METHODS TO COMPUTE GENOMIC PREDICTIONS	107	AGRICULTURAL SCIENCES
DEVELOPMENT AND CHARACTERIZATION OF A HIGH DENSITY SNP GENOTYPING ASSAY FOR CATTLE	95	CLINICAL MEDICINE
GENOMIC SELECTION FOR CROP IMPROVEMENT	72	AGRICULTURAL SCIENCES
MARKER-ASSISTED SELECTION IN PLANT BREEDING: FROM PUBLICATIONS TO PRACTICE	71	AGRICULTURAL SCIENCES
MOLECULAR MARKERS AND SELECTION FOR COMPLEX TRAITS IN PLANTS: LEARNING FROM THE LAST 20 YEARS	66	AGRICULTURAL SCIENCES

PROSPECTS FOR GENOMEWIDE SELECTION FOR QUANTITATIVE TRAITS IN MAIZE	65	AGRICULTURAL SCIENCES
GENOMIC SELECTION	61	PLANT & ANIMAL SCIENCE
COMPARISON OF GENOMIC AND TRADITIONAL BLUP-ESTIMATED BREEDING VALUE ACCURACY AND SELECTION RESPONSE UNDER ALTERNATIVE TRAIT AND GENOMIC PARAMETERS	59	PLANT & ANIMAL SCIENCE
MOLECULAR MARKERS IN A COMMERCIAL BREEDING PROGRAM	45	AGRICULTURAL SCIENCES
DISTRIBUTION AND LOCATION OF GENETIC EFFECTS FOR DAIRY TRAITS	42	AGRICULTURAL SCIENCES
GENOMIC SELECTION IN PLANT BREEDING: FROM THEORY TO PRACTICE	31	BIOLOGY & BIOCHEMISTRY
ACCURACY OF PREDICTING THE GENETIC RISK OF DISEASE USING A GENOME-WIDE APPROACH	31	CLINICAL MEDICINE
HOT TOPIC: A UNIFIED APPROACH TO UTILIZE PHENOTYPIC, FULL PEDIGREE, AND GENOMIC INFORMATION FOR GENETIC EVALUATION OF HOLSTEIN FINAL SCORE	30	AGRICULTURAL SCIENCES
ECONOMIC EVALUATION OF GENOMIC BREEDING PROGRAMS	29	AGRICULTURAL SCIENCES
A RELATIONSHIP MATRIX INCLUDING FULL PEDIGREE AND GENOMIC INFORMATION	29	AGRICULTURAL SCIENCES
PREDICTIVE ABILITY OF DIRECT GENOMIC VALUES FOR LIFETIME NET MERIT OF HOLSTEIN SIRES USING SELECTED SUBSETS OF SINGLE NUCLEOTIDE POLYMORPHISM MARKERS	24	AGRICULTURAL SCIENCES
GENOMIC PREDICTION WHEN SOME ANIMALS ARE NOT GENOTYPED	19	PLANT & ANIMAL SCIENCE
THE IMPACT OF GENETIC RELATIONSHIP INFORMATION ON GENOMIC BREEDING VALUES IN GERMAN HOLSTEIN CATTLE	19	PLANT & ANIMAL SCIENCE
DEREGRESSING ESTIMATED BREEDING VALUES AND WEIGHTING INFORMATION FOR GENOMIC REGRESSION ANALYSES	18	PLANT & ANIMAL SCIENCE
GENOMIC SELECTION IN ADMIXED AND CROSSBRED POPULATIONS	17	PLANT & ANIMAL SCIENCE
GENOMIC PREDICTION OF SIMULATED MULTIBREED AND PUREBRED PERFORMANCE USING OBSERVED FIFTY THOUSAND SINGLE NUCLEOTIDE POLYMORPHISM GENOTYPES	17	PLANT & ANIMAL SCIENCE
GENOMIC PREDICTIONS FOR NEW ZEALAND DAIRY BULLS AND INTEGRATION WITH NATIONAL GENETIC EVALUATION	13	AGRICULTURAL SCIENCES
A VALIDATED GENOME-WIDE ASSOCIATION STUDY IN 2 DAIRY CATTLE BREEDS FOR MILK PRODUCTION AND FERTILITY TRAITS USING VARIABLE LENGTH HAPLOTYPES	12	AGRICULTURAL SCIENCES
PRELIMINARY INVESTIGATION ON RELIABILITY OF GENOMIC	12	AGRICULTURAL SCIENCES

ESTIMATED BREEDING VALUES IN THE DANISH HOLSTEIN POPULATION		
BREEDING VALUE PREDICTION FOR PRODUCTION TRAITS IN LAYER CHICKENS USING PEDIGREE OR GENOMIC RELATIONSHIPS IN A REDUCED ANIMAL MODEL	9	PLANT & ANIMAL SCIENCE
EXTENSION OF THE BAYESIAN ALPHABET FOR GENOMIC SELECTION	6	COMPUTER SCIENCE

農業前沿八

GENE EXPRESSION; FLAVONOID BIOSYNTHESIS; GRAPEVINE TRANSCRIPTION FACTOR VVMYBPA1 REGULATES PROANTHOCYANIDIN SYNTHESIS; CLOSELY RELATED R2R3-MYB TRANSCRIPTION FACTORS CONTROLS FLAVONOL ACCUMULATION; VITIS VINIFERA RED GRAPES IN AGRICULTURAL SCIENCES



各分類領域比例圖

核心文獻清單

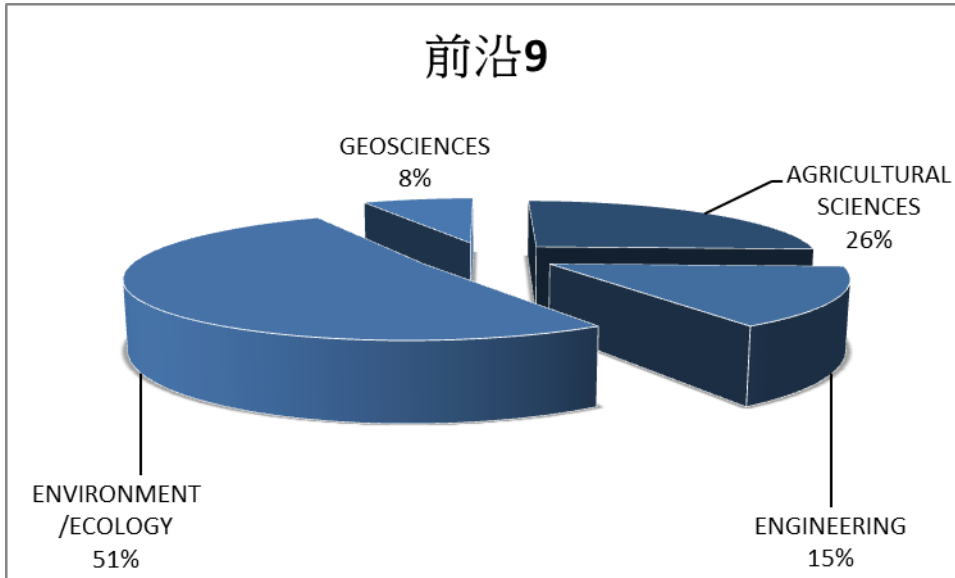
核心文獻標題	Citation	分類領域
GENETICS AND BIOCHEMISTRY OF SEED FLAVONOIDS	140	PLANT & ANIMAL SCIENCE
THE GENETICS AND BIOCHEMISTRY OF FLORAL PIGMENTS	138	PLANT & ANIMAL SCIENCE
RED COLOURATION IN APPLE FRUIT IS DUE TO THE ACTIVITY OF THE MYB TRANSCRIPTION FACTOR, MDMYB10	92	PLANT & ANIMAL SCIENCE
DIFFERENTIAL REGULATION OF CLOSELY RELATED R2R3-MYB TRANSCRIPTION FACTORS CONTROLS FLAVONOL ACCUMULATION IN DIFFERENT PARTS OF THE ARABIDOPSIS THALIANA SEEDLING	90	PLANT & ANIMAL SCIENCE
CULTURAL PRACTICE AND ENVIRONMENTAL IMPACTS ON THE FLAVONOID COMPOSITION OF GRAPES AND WINE: A REVIEW OF RECENT RESEARCH	90	AGRICULTURAL SCIENCES
WHITE GRAPES AROSE THROUGH THE MUTATION OF TWO SIMILAR AND ADJACENT REGULATORY GENES	87	PLANT & ANIMAL SCIENCE
A SMALL FAMILY OF MYB-REGULATORY GENES CONTROLS FLORAL PIGMENTATION INTENSITY AND PATTERNING IN THE GENUS ANTIRRHINUM	86	PLANT & ANIMAL SCIENCE

METABOLITE PROFILING OF GRAPE: FLAVONOLS AND ANTHOCYANINS	83	AGRICULTURAL SCIENCES
REGULATION OF THE ANTHOCYANIN BIOSYNTHETIC PATHWAY BY THE TTG1/BHLH/MYB TRANSCRIPTIONAL COMPLEX IN ARABIDOPSIS SEEDLINGS	81	PLANT & ANIMAL SCIENCE
THE GRAPEVINE TRANSCRIPTION FACTOR VVMYBPA1 REGULATES PROANTHOCYANIDIN SYNTHESIS DURING FRUIT DEVELOPMENT	74	PLANT & ANIMAL SCIENCE
ATMYBL2, A PROTEIN WITH A SINGLE MYB DOMAIN, ACTS AS A NEGATIVE REGULATOR OF ANTHOCYANIN BIOSYNTHESIS IN ARABIDOPSIS	62	PLANT & ANIMAL SCIENCE
TRANSCRIPTIONAL REGULATION OF ANTHOCYANIN BIOSYNTHESIS IN RIPENING FRUITS OF GRAPEVINE UNDER SEASONAL WATER DEFICIT	62	PLANT & ANIMAL SCIENCE
SINGLE GENE-MEDIATED SHIFT IN POLLINATOR ATTRACTION IN PETUNIA	61	PLANT & ANIMAL SCIENCE
THE ARABIDOPSIS MATE TRANSPORTER TT12 ACTS AS A VACUOLAR FLAVONOID/H ⁺ -ANTIporter ACTIVE IN PROANTHOCYANIDIN-ACCUMULATING CELLS OF THE SEED COAT	58	PLANT & ANIMAL SCIENCE
FLAVONOL PROFILES OF VITIS VINIFERA RED GRAPES AND THEIR SINGLE-CULTIVAR WINES	58	AGRICULTURAL SCIENCES
MYBL2 IS A NEW REGULATOR OF FLAVONOID BIOSYNTHESIS IN ARABIDOPSIS THALIANA	54	PLANT & ANIMAL SCIENCE
WATER DEFICITS ACCELERATE RIPENING AND INDUCE CHANGES IN GENE EXPRESSION REGULATING FLAVONOID BIOSYNTHESIS IN GRAPE BERRIES	52	PLANT & ANIMAL SCIENCE
HPLC ANALYSIS OF DIVERSE GRAPE AND WINE PHENOLICS USING DIRECT INJECTION AND MULTIDETECTION BY DAD AND FLUORESCENCE	47	AGRICULTURAL SCIENCES
MYB TRANSCRIPTION FACTORS THAT COLOUR OUR FRUIT	45	PLANT & ANIMAL SCIENCE
EVOLUTIONARY TRANSITIONS IN FLORAL COLOR	44	PLANT & ANIMAL SCIENCE
NUTRIENT DEPLETION AS A KEY FACTOR FOR MANIPULATING GENE EXPRESSION AND PRODUCT FORMATION IN DIFFERENT BRANCHES OF THE FLAVONOID PATHWAY	43	PLANT & ANIMAL SCIENCE
THE TRANSCRIPTION FACTOR VVMYB5B CONTRIBUTES TO THE REGULATION OF ANTHOCYANIN AND PROANTHOCYANIDIN BIOSYNTHESIS IN DEVELOPING GRAPE BERRIES	43	PLANT & ANIMAL SCIENCE
ECTOPIC EXPRESSION OF VVMYBPA2 PROMOTES PROANTHOCYANIDIN BIOSYNTHESIS IN GRAPEVINE AND SUGGESTS ADDITIONAL TARGETS IN THE PATHWAY	36	PLANT & ANIMAL SCIENCE

FLAVONOL 3-O-GLYCOSIDES SERIES OF VITIS VINIFERA CV. PETIT VERDOT RED WINE GRAPES	26	AGRICULTURAL SCIENCES
THE 'INS' AND 'OUTS' OF FLAVONOID TRANSPORT	19	PLANT & ANIMAL SCIENCE
THE ARABIDOPSIS MATE TRANSPORTER TT12 ACTS AS A VACUOLAR FLAVONOID/H ⁺ -ANTIPORTER ACTIVE IN PROANTHOCYANIDIN-ACCUMULATING CELLS OF THE SEED COAT	58	PLANT & ANIMAL SCIENCE
FLAVONOL PROFILES OF VITIS VINIFERA RED GRAPES AND THEIR SINGLE-CULTIVAR WINES	58	AGRICULTURAL SCIENCES
MYBL2 IS A NEW REGULATOR OF FLAVONOID BIOSYNTHESIS IN ARABIDOPSIS THALIANA	54	PLANT & ANIMAL SCIENCE
WATER DEFICITS ACCELERATE RIPENING AND INDUCE CHANGES IN GENE EXPRESSION REGULATING FLAVONOID BIOSYNTHESIS IN GRAPE BERRIES	52	PLANT & ANIMAL SCIENCE
HPLC ANALYSIS OF DIVERSE GRAPE AND WINE PHENOLICS USING DIRECT INJECTION AND MULTIDETECTION BY DAD AND FLUORESCENCE	47	AGRICULTURAL SCIENCES
MYB TRANSCRIPTION FACTORS THAT COLOUR OUR FRUIT	45	PLANT & ANIMAL SCIENCE
EVOLUTIONARY TRANSITIONS IN FLORAL COLOR	44	PLANT & ANIMAL SCIENCE
NUTRIENT DEPLETION AS A KEY FACTOR FOR MANIPULATING GENE EXPRESSION AND PRODUCT FORMATION IN DIFFERENT BRANCHES OF THE FLAVONOID PATHWAY	43	PLANT & ANIMAL SCIENCE
THE TRANSCRIPTION FACTOR VVMYB5B CONTRIBUTES TO THE REGULATION OF ANTHOCYANIN AND PROANTHOCYANIDIN BIOSYNTHESIS IN DEVELOPING GRAPE BERRIES	43	PLANT & ANIMAL SCIENCE
ECTOPIC EXPRESSION OF VVMYBPA2 PROMOTES PROANTHOCYANIDIN BIOSYNTHESIS IN GRAPEVINE AND SUGGESTS ADDITIONAL TARGETS IN THE PATHWAY	36	PLANT & ANIMAL SCIENCE
FLAVONOL 3-O-GLYCOSIDES SERIES OF VITIS VINIFERA CV. PETIT VERDOT RED WINE GRAPES	26	AGRICULTURAL SCIENCES
THE 'INS' AND 'OUTS' OF FLAVONOID TRANSPORT	19	PLANT & ANIMAL SCIENCE

農業前沿九

PLANT BIOMASS-DERIVED BLACK CARBON (BIOCHAR); PASTURE SOIL; IN-SITU NITROUS OXIDE EMISSIONS; NEGATIVE CARBON MINERALIZATION PRIMING EFFECTS; LABORATORY-PRODUCED BLACK CARBON (BIOCHAR); BLACK CARBON INCREASES CATION EXCHANGE CAPACITY IN AGRICULTURAL SCIENCES



各分類領域比例圖

核心文獻清單

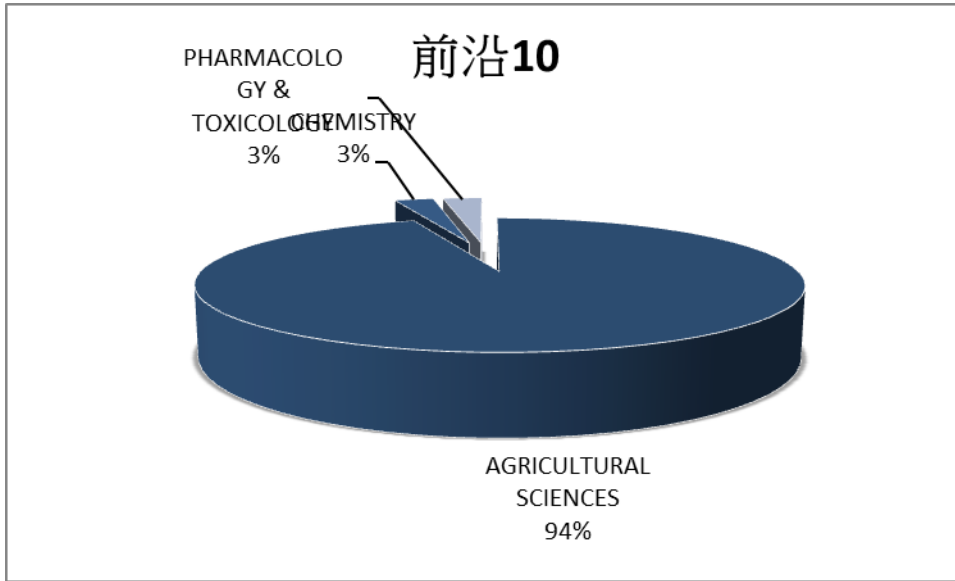
核心文獻標題	Citation	分類領域
BLACK CARBON INCREASES CATION EXCHANGE CAPACITY IN SOILS	124	ENVIRONMENT/ECOLOGY
BLACK (PYROGENIC) CARBON: A SYNTHESIS OF CURRENT KNOWLEDGE AND UNCERTAINTIES WITH SPECIAL CONSIDERATION OF BOREAL REGIONS	114	ENVIRONMENT/ECOLOGY
BIO-ENERGY IN THE BLACK	103	ENVIRONMENT/ECOLOGY
OXIDATION OF BLACK CARBON BY BIOTIC AND ABIOTIC PROCESSES	102	GEOSCIENCES
HOW DOES FIRE AFFECT THE NATURE AND STABILITY OF SOIL ORGANIC NITROGEN AND CARBON? A REVIEW	90	ENVIRONMENT/ECOLOGY
COMPARISON OF QUANTIFICATION METHODS TO MEASURE FIRE-DERIVED (BLACK/ELEMENTAL) CARBON IN SOILS AND SEDIMENTS USING REFERENCE MATERIALS FROM SOIL, WATER, SEDIMENT AND THE ATMOSPHERE	83	GEOSCIENCES
AGRONOMIC VALUES OF GREENWASTE BIOCHAR AS A SOIL AMENDMENT	76	ENVIRONMENT/ECOLOGY
NATURAL OXIDATION OF BLACK CARBON IN SOILS: CHANGES IN MOLECULAR FORM AND SURFACE CHARGE ALONG A CLIMOSEQUENCE	65	GEOSCIENCES

THE CHARCOAL VISION: A WIN-WIN-WIN SCENARIO FOR SIMULTANEOUSLY PRODUCING BIOENERGY, PERMANENTLY SEQUESTERING CARBON, WHILE IMPROVING SOIL AND WATER QUALITY	65	AGRICULTURAL SCIENCES
BLACK CARBON DECOMPOSITION AND INCORPORATION INTO SOIL MICROBIAL BIOMASS ESTIMATED BY C-14 LABELING	60	ENVIRONMENT/ECOLOGY
ANALYSIS AND OCCURRENCE OF PHARMACEUTICALS, ESTROGENS, PROGESTOGENS AND POLAR PESTICIDES IN SEWAGE TREATMENT PLANT EFFLUENTS, RIVER WATER AND DRINKING WATER IN THE LLOBREGAT RIVER BASIN (BARCELONA, SPAIN)	56	ENGINEERING
IMPACTS OF WOODCHIP BIOCHAR ADDITIONS ON GREENHOUSE GAS PRODUCTION AND SORPTION/DEGRADATION OF TWO HERBICIDES IN A MINNESOTA SOIL	51	ENVIRONMENT/ECOLOGY
EFFECTS OF CHARCOAL ADDITION ON N ₂ O EMISSIONS FROM SOIL RESULTING FROM REWETTING AIR-DRIED SOIL IN SHORT-TERM LABORATORY EXPERIMENTS	48	AGRICULTURAL SCIENCES
DAIRY-MANURE DERIVED BIOCHAR EFFECTIVELY SORBS LEAD AND ATRAZINE	42	ENVIRONMENT/ECOLOGY
ABIOTIC AND MICROBIAL OXIDATION OF LABORATORY-PRODUCED BLACK CARBON (BIOCHAR)	40	ENVIRONMENT/ECOLOGY
DYNAMIC MOLECULAR STRUCTURE OF PLANT BIOMASS-DERIVED BLACK CARBON (BIOCHAR)	38	ENVIRONMENT/ECOLOGY
A REVIEW OF BIOCHAR AND ITS USE AND FUNCTION IN SOIL	35	AGRICULTURAL SCIENCES
NITROGEN RETENTION AND PLANT UPTAKE ON A HIGHLY WEATHERED CENTRAL AMAZONIAN FERRALSOL AMENDED WITH COMPOST AND CHARCOAL	33	AGRICULTURAL SCIENCES
PRIMING EFFECTS: INTERACTIONS BETWEEN LIVING AND DEAD ORGANIC MATTER	31	ENVIRONMENT/ECOLOGY
BIOCHAR AMENDMENT TECHNIQUES FOR UPLAND RICE PRODUCTION IN NORTHERN LAOS 1. SOIL PHYSICAL PROPERTIES, LEAF SPAD AND GRAIN YIELD	27	AGRICULTURAL SCIENCES
LIFE CYCLE ASSESSMENT OF BIOCHAR SYSTEMS: ESTIMATING THE ENERGETIC, ECONOMIC, AND CLIMATE CHANGE POTENTIAL	26	ENVIRONMENT/ECOLOGY
FATE OF SOIL-APPLIED BLACK CARBON: DOWNWARD MIGRATION, LEACHING AND SOIL RESPIRATION	26	ENVIRONMENT/ECOLOGY
CHARACTERIZATION OF BIOCHAR FROM FAST PYROLYSIS AND GASIFICATION SYSTEMS	26	ENGINEERING
EFFECTS OF BIOCHAR FROM SLOW PYROLYSIS OF PAPERMILL WASTE ON AGRONOMIC PERFORMANCE AND SOIL FERTILITY	25	ENVIRONMENT/ECOLOGY
EFFECTS OF BIOCHAR AND GREENWASTE COMPOST AMENDMENTS	24	ENVIRONMENT/ECOLOGY

ON MOBILITY, BIOAVAILABILITY AND TOXICITY OF INORGANIC AND ORGANIC CONTAMINANTS IN A MULTI-ELEMENT POLLUTED SOIL		
INFLUENCE OF BIOCHARS ON NITROUS OXIDE EMISSION AND NITROGEN LEACHING FROM TWO CONTRASTING SOILS	21	ENVIRONMENT/ECOLOGY
SHORT-TERM CO ₂ MINERALIZATION AFTER ADDITIONS OF BIOCHAR AND SWITCHGRASS TO A TYPIC KANDIUDULT	17	AGRICULTURAL SCIENCES
IMMOBILIZATION OF HEAVY METAL IONS (CU-II, CD-II, NI-II, AND PB-II) BY BROILER LITTER-DERIVED BIOCHARS IN WATER AND SOIL	16	AGRICULTURAL SCIENCES
PRIMARY AND COMPLEX STRESSORS IN POLLUTED MEDITERRANEAN RIVERS: PESTICIDE EFFECTS ON BIOLOGICAL COMMUNITIES	15	ENGINEERING
DETOXIFICATION OF PESTICIDE WASTE VIA ACTIVATED CARBON ADSORPTION PROCESS	15	ENGINEERING
OCCURRENCE AND TRANSPORT OF PAHS, PESTICIDES AND ALKYLPHENOLS IN SEDIMENT SAMPLES ALONG THE EBRO RIVER BASIN	13	ENGINEERING
SORPTION PROPERTIES OF GREENWASTE BIOCHAR FOR TWO TRIAZINE PESTICIDES	13	ENGINEERING
SORPTION OF THE HERBICIDE TERBUTHYLAZINE IN TWO NEW ZEALAND FOREST SOILS AMENDED WITH BIOSOLIDS AND BIOCHARS	12	AGRICULTURAL SCIENCES
BIOCHAR INCORPORATION INTO PASTURE SOIL SUPPRESSES IN SITU NITROUS OXIDE EMISSIONS FROM RUMINANT URINE PATCHES	10	ENVIRONMENT/ECOLOGY
POSITIVE AND NEGATIVE CARBON MINERALIZATION PRIMING EFFECTS AMONG A VARIETY OF BIOCHAR-AMENDED SOILS	9	ENVIRONMENT/ECOLOGY
EFFECT OF BIOCHAR AMENDMENT ON YIELD AND METHANE AND NITROUS OXIDE EMISSIONS FROM A RICE PADDY FROM TAI LAKE PLAIN, CHINA	9	ENVIRONMENT/ECOLOGY
THE AMELIORATION EFFECTS OF LOW TEMPERATURE BIOCHAR GENERATED FROM NINE CROP RESIDUES ON AN ACIDIC ULTISOL	7	ENVIRONMENT/ECOLOGY
INFLUENCE OF PYROLYSIS TEMPERATURE ON BIOCHAR PROPERTY AND FUNCTION AS A HEAVY METAL SORBENT IN SOIL	5	AGRICULTURAL SCIENCES
INFLUENCES OF NON-HERBACEOUS BIOCHAR ON ARBUSCULAR MYCORRHIZAL FUNGAL ABUNDANCES IN ROOTS AND SOILS: RESULTS FROM GROWTH-CHAMBER AND FIELD EXPERIMENTS	5	AGRICULTURAL SCIENCES

農業前沿十

ANTIOXIDANT PEPTIDES; IN-VITRO ANTIOXIDANT ACTIVITIES; ANTIOXIDANT ACTIVITIES IN-VITRO;
ANTIOXIDANT ACTIVITY; ANTIOXIDANT PROPERTIES IN AGRICULTURAL SCIENCES



各分類領域比例圖

核心文獻清單

核心文獻標題	Citation	分類領域
BIOACTIVE PEPTIDES: PRODUCTION AND FUNCTIONALITY	147	AGRICULTURAL SCIENCES
ANTIOXIDATIVE ACTIVITY AND FUNCTIONAL PROPERTIES OF PROTEIN HYDROLYSATE OF YELLOW STRIPE TREVALLY (SELAROIDES LEPTOLEPIS) AS INFLUENCED BY THE DEGREE OF HYDROLYSIS AND ENZYME TYPE	90	AGRICULTURAL SCIENCES
PHYSIOLOGICAL, CHEMICAL AND TECHNOLOGICAL ASPECTS OF MILK-PROTEIN-DERIVED PEPTIDES WITH ANTIHYPERTENSIVE AND ACE-INHIBITORY ACTIVITY	77	AGRICULTURAL SCIENCES
ANTIOXIDATIVE PEPTIDES DERIVED FROM MILK PROTEINS	75	AGRICULTURAL SCIENCES
ANTIPROLIFERATIVE AND ANTIOXIDANT PROPERTIES OF AN ENZYMATIC HYDROLYSATE FROM BROWN ALGA, ECKLONIA CAVA	69	AGRICULTURAL SCIENCES
ANTIOXIDANT AND ANTIPROLIFERATIVE ACTIVITIES OF EXTRACTS FROM A VARIETY OF EDIBLE SEAWEEDS	67	AGRICULTURAL SCIENCES
FREE-RADICAL SCAVENGING CAPACITY AND REDUCING POWER OF WILD EDIBLE MUSHROOMS FROM NORTHEAST PORTUGAL: INDIVIDUAL CAP AND STIPE ACTIVITY	63	AGRICULTURAL SCIENCES
ANTIOXIDANT AND FREE RADICAL-SCAVENGING ACTIVITIES OF CHICKPEA PROTEIN HYDROLYSATE (CPH)	58	AGRICULTURAL SCIENCES
ISOLATION AND IDENTIFICATION OF ANTIOXIDATIVE PEPTIDES FROM PORCINE COLLAGEN HYDROLYSATE BY CONSECUTIVE	58	AGRICULTURAL SCIENCES

CHROMATOGRAPHY AND ELECTROSPRAY IONIZATION-MASS SPECTROMETRY		
PURIFICATION, COMPOSITION ANALYSIS AND ANTIOXIDANT ACTIVITY OF A POLYSACCHARIDE FROM THE FRUITING BODIES OF GANODERMA ATRUM	57	AGRICULTURAL SCIENCES
DETERMINATION OF ANTIOXIDANT ACTIVITY AND ANTIOXIDANT COMPOUNDS IN WILD EDIBLE MUSHROOMS	55	AGRICULTURAL SCIENCES
ANTIOXIDANT ACTIVITIES OF DIFFERENT FRACTIONS OF POLYSACCHARIDE CONJUGATES FROM GREEN TEA (CAMELLIA SINENSIS)	53	AGRICULTURAL SCIENCES
ANTIOXIDANT ACTIVITY OF PROTEINS AND PEPTIDES	51	AGRICULTURAL SCIENCES
ANTIOXIDANT ACTIVITY AND WATER-HOLDING CAPACITY OF CANOLA PROTEIN HYDROLYSATES	44	AGRICULTURAL SCIENCES
ANTIOXIDANT PROPERTIES OF POLYSACCHARIDES FROM GANODERMA TSUGAE	44	AGRICULTURAL SCIENCES
ANTIOXIDANT AND BIOCHEMICAL PROPERTIES OF PROTEIN HYDROLYSATES PREPARED FROM SILVER CARP (HYPOPHthalmichthys molitrix)	38	AGRICULTURAL SCIENCES
PHENOLIC COMPOUND CONCENTRATION AND ANTIOXIDANT ACTIVITIES OF EDIBLE AND MEDICINAL MUSHROOMS FROM KOREA	38	AGRICULTURAL SCIENCES
IN VITRO ANTIOXIDANT ACTIVITIES OF THREE SELECTED BROWN SEAWEEDS OF INDIA	35	AGRICULTURAL SCIENCES
PURIFICATION AND IDENTIFICATION OF ANTIOXIDANT PEPTIDES FROM GRASS CARP MUSCLE HYDROLYSATES BY CONSECUTIVE CHROMATOGRAPHY AND ELECTROSPRAY IONIZATION-MASS SPECTROMETRY	35	AGRICULTURAL SCIENCES
PURIFICATION, ANTITUMOR AND ANTIOXIDANT ACTIVITIES IN VITRO OF POLYSACCHARIDES FROM THE BROWN SEAWEED SARGASSUM PALLIDUM	35	AGRICULTURAL SCIENCES
ANTI-HYPERTENSIVE NUTRACEUTICALS AND FUNCTIONAL FOODS	31	AGRICULTURAL SCIENCES
ANTIOXIDANT AND FREE RADICAL-SCAVENGING ACTIVITIES OF SMOOTH HOUND (MUSTELUS MUSTELUS) MUSCLE PROTEIN HYDROLYSATES OBTAINED BY GASTROINTESTINAL PROTEASES	30	AGRICULTURAL SCIENCES
BIOLOGICAL ACTIVITIES OF SULFATED POLYSACCHARIDES FROM TROPICAL SEAWEEDS	29	PHARMACOLOGY & TOXICOLOGY
CASEIN-DERIVED BIOACTIVE PEPTIDES: BIOLOGICAL EFFECTS, INDUSTRIAL USES, SAFETY ASPECTS AND REGULATORY STATUS	29	AGRICULTURAL SCIENCES
A NOVEL ANGIOTENSIN I CONVERTING ENZYME INHIBITORY PEPTIDE FROM TUNA FRAME PROTEIN HYDROLYSATE AND ITS ANTIHYPERTENSIVE EFFECT IN SPONTANEOUSLY HYPERTENSIVE RATS	28	AGRICULTURAL SCIENCES

TOTAL PHENOLIC COMPOUNDS, RADICAL SCAVENGING AND METAL CHELATION OF EXTRACTS FROM ICELANDIC SEAWEEDS	28	AGRICULTURAL SCIENCES
ISOLATION AND CHARACTERISATION OF A NOVEL ANGIOTENSIN I-CONVERTING ENZYME (ACE) INHIBITORY PEPTIDE FROM THE ALGAE PROTEIN WASTE	27	AGRICULTURAL SCIENCES
PURIFICATION AND IDENTIFICATION OF NOVEL ANTIOXIDANT PEPTIDES FROM ENZYMATIC HYDROLYSATES OF SARDINELLE (SARDINELLA AURITA) BY-PRODUCTS PROTEINS	23	AGRICULTURAL SCIENCES
INNOVATIVE NATURAL FUNCTIONAL INGREDIENTS FROM MICROALGAE	23	AGRICULTURAL SCIENCES
INDUCTION OF APOPTOSIS BY PHLOROGLUCINOL DERIVATIVE FROM ECKLONIA CAVA IN MCF-7 HUMAN BREAST CANCER CELLS	22	AGRICULTURAL SCIENCES
BIOLOGICAL ACTIVITIES AND POTENTIAL HEALTH BENEFITS OF SULFATED POLYSACCHARIDES DERIVED FROM MARINE ALGAE	14	CHEMISTRY
AMINO ACID COMPOSITION AND ANTIOXIDANT PROPERTIES OF PEA SEED (PISUM SATIVUM L.) ENZYMATIC PROTEIN HYDROLYSATE FRACTIONS	14	AGRICULTURAL SCIENCES
ANGIOTENSIN I CONVERTING ENZYME (ACE) INHIBITORY ACTIVITY AND ANTIHYPERTENSIVE EFFECT OF FERMENTED MILK	13	AGRICULTURAL SCIENCES
INVITED REVIEW: PHYSIOLOGICAL PROPERTIES OF BIOACTIVE PEPTIDES OBTAINED FROM WHEY PROTEINS	12	AGRICULTURAL SCIENCES
RELATIONSHIP BETWEEN HYDROPHOBICITY AND ANTIOXIDANT ABILITY OF "PHENOLIPIDS" IN EMULSION: A PARABOLIC EFFECT OF THE CHAIN LENGTH OF ROSMARINATE ESTERS	12	AGRICULTURAL SCIENCES
REVISITING THE POLAR PARADOX THEORY: A CRITICAL OVERVIEW	9	AGRICULTURAL SCIENCES
MECHANISMS OF LIPID OXIDATION IN FOOD DISPERSIONS	6	AGRICULTURAL SCIENCES