

申请专利

序号	专利技术项目名称	专利类型	申请日期	申请号
1	一种带有磨屑收集装置的摩擦磨损试验机	发明	2020. 04. 28	202010349659. 3
2	获取熔覆金属三维组织信息的检测台及其操作办法	发明	2020. 07. 21	202010702406. X
3	一种磺胺类抗生素的液相-串联质谱分析方法	发明	2020. 01. 13	202010032761. 0
4	一种花球状共价有机框架材料及其制备与应用	发明	2020. 02. 24	202010112096. 6
5	一种分析功能性饮料中双酚类化合物的方法	发明	2020. 04. 26	202010338709. 8
6	一种磁性吸附材料及其在苯甲酰脲类杀虫剂检测中的应用	发明	2020. 04. 28	202010351545. 2
7	一种网状的共价有机框架材料及其制备方法与应用	发明	2020. 07. 13	202020669693. 9
8	一维编织结构的金属有机骨架材料及其制备方法与应用	发明	2020. 07. 16	202010688110. 7
9	一种植物源性食品中苯氧羧酸类农药残留量的检测方法	发明	2020. 09. 16	202010972874. 9
10	一种制备氯化石蜡标准物质的反应装置	发明	2020. 09. 02	202021890267. X
11	一种原位降解多源直接质谱分析药物有关物质识别装置与方法	发明	2020. 07. 21	202010706212. 7
12	固磷剂稳定悬浮的水包油高内相乳液及其制备方法与应用	发明	2020. 10. 12	202011086335. 1
13	复合酶制剂及其制备方法、促进植物氮和磷吸收的方法和应用	发明	2020. 01. 16	202010045436. 8
14	基于无人机智能飞行轨迹控制的电磁辐射检测装置及方法	发明	2020. 08. 21	202010850547. 6
15	基于铯 137 辐照和紫外线照射的压载水灭藻灭菌装置及方法	发明	2020. 08. 21	202010851935. 6
16	用于去除生猪养殖废水中磷酸盐的混凝剂及其制备和应用	发明	2020. 11. 25	202011338495. 0
17	一种农业面源污染废水立体阻控生态净化及构建方法	发明	2020. 10. 15	2020/06466
18	一种低共熔溶剂及其制备皂角刺总黄酮的方法	发明	2020. 05. 09	202010387439. X
19	一种基于逆流色谱分离皂角刺中黄酮单体的方法	发明	2020. 07. 22	202010710044. 9
20	一种羧酸衍生化试剂及其制备方法和应用	发明	2020. 05. 22	202010441406. 9
21	一种基于原位衍生化的脂肪酸 MALDI 质谱成像方法及其应用	发明	2020. 05. 28	202010467832. X
22	一种低聚麦芽糖的测定方法及在产品质量控制领域的应用	发明	2020. 06. 08	202010512799. 8
23	一种同时测定瓜蒌药材中核苷和黄酮类成分的方法及其应用	发明	2020. 08. 31	202010896929. 2
24	一种温敏型溶致液晶药物载体及其制备方法与应用	发明	2020. 08. 19	202010836304. 7

	用			
25	一种瓜蒌中高纯度腺苷的高效制备方法	发明	2020. 08. 31	202010894830. 9
26	一种太子参寡糖的指纹图谱构建、检测方法及装置	发明	2020. 06. 22	202010571945. 4
27	查尔酮化合物在制备改善睡眠药物中的应用	发明	2020. 11. 30	202011371549. 3
28	一种抗 GPR65 的单克隆抗体、分泌该抗体的杂交瘤细胞株及应用	发明	2020. 11. 20	202011309809. 4
29	基于 GC-MS 的小鼠肠-脑轴相关组织样本中短链脂肪酸的检测方法	发明	2020. 02. 27	202010124766. 6
30	一种检测阳离子醚化剂中三甲胺盐酸盐的方法及应用	发明	2020. 05. 29	202010478201. 8
31	一种检测液晶液滴光学数字化信号的装置及其应用	发明	2020. 07. 30	202010752963. 2
32	山区河流河道生态综合治理系统及其构建方法	发明		

授权专利

序号	专利技术项目名称	发明类型	授权日期	授权专利号
1	用于获取裂纹/晶界三维信息的 EBSD 设备样品台及方法	发明	2020. 03. 03	ZL201910423906. 7
2	一种基于 MOFs 剥离石墨相碳化氮吸附剂的全氟烷基化合物萃取与分析方法	发明	2020. 05. 12	ZL201910889356. 8
3	一种快速鉴别反复冻融肉类的方法	发明	2020. 05. 22	ZL201910645403. 4
4	一种基于 MALDI-TOF-MS 的胶囊单颗粒药物高通量分析方法	发明	2020. 05. 26	ZL201910880640. 9
5	基于差分离子迁移谱-质谱联用的差向异构体的分离方法	发明	2020. 06. 22	ZL201910845986. 5
6	一种分离纯化乳香中西松烷型大环二萜类化合物的方法	发明	2020. 05. 05	ZL201810316485. 3
7	从青竹标中提取的生物碱类化合物及提取方法	发明	2020. 05. 05	ZL201711027048. 1
8	一种分离纯化乳香中香木兰烷型二萜类化合物的方法	发明	2020. 05. 05	ZL201810462251. X
9	一种山楂叶中黄铜单体的制备方法	发明	2020. 05. 15	ZL201710165422. 8
10	一种逆流色谱分离柱以及色谱仪	发明	2020. 06. 02	ZL201610136350. X
11	一种牡丹籽壳木醋液及其载体的制备方法和应用	发明	2020. 10. 02	ZL201910783685. 4
12	一种苯基桥键型纤维状多孔硅材料、其制备方法及应用	发明	2020. 08. 14	ZL201810332339. X
13	食品中多种农残和环境污染物的前处理方法及分析方法	发明	2020. 10. 30	ZL201911359798. 8
14	一种用于分析食品和饮用水中痕量磺胺类抗生素的方法	发明	2020. 10. 16	ZL201810574242. X
15	一种利用磁性有机骨架材料分析痕量全氟类化合物的方法	发明	2020. 07. 07	ZL201710993259. 4
16	一种含多尺度缺陷金属断裂失效行为的分析方法	发明	2020. 11. 06	ZL202010237004. 7
17	一种用于断口分析的扫描电镜万向转动样品台及扫描电镜	发明	2020. 08. 28	ZL201911236807. 4
18	一种三水合头孢克肟晶体的精制方法	发明	2020. 09. 15	ZL201910090991. X
19	一种基于共价有机框架材料灵敏检测中药中铅离子的电化学传感器的制备方法及应用	发明	2020. 08. 04	ZL201810031928. 4
20	一种多溴联苯醚单体的固相合成方法与应用	发明	2020. 07. 24	ZL201710169529. X

21	一种基于固相微萃取的合成药物基因毒性杂质分析方法	发明	2020. 11. 06	ZL202010108031. 4
22	拟除虫菊酯类杀虫剂分子印迹聚合物及其制备方法和应用	发明	2020. 04. 03	ZL201710638501. 6
23	双吡啶生物碱化合物或其药学上可接受的盐及其制备方法和应用	发明	2020. 09. 01	ZL201910398819. 0
24	一种利用 RRLC-DAD-ESI-Q-TOF-MS 检测金银花在大鼠血清中的代谢产物的方法	发明	2020. 10. 02	ZL201810134209. 5
25	一种结晶温度可控的升华-再结晶型质谱成像基质沉淀装置和方法	发明	2020. 09. 01	ZL201911302523. 0
26	一种基于磁性微孔有机网络复合材料的食品中全氟类化合物的富集分析方法	发明	2020. 09. 25	ZL201910859572. 8
27	一种基于多指标活性成分测定的前列欣胶囊质量评价方法	发明	2020. 08. 04	ZL201610873671. 8
28	一种丹参水提液的絮凝除杂方法及其应用	发明	2020. 09. 01	ZL201710576061. 6
29	一种安神补脑液多指标定量指纹图谱建立方法及其应用	发明	2020. 10. 02	ZL201810636343. 5
30	一种从关木通中分离纯化马兜铃酸类化合物的方法	发明	2020. 12. 01	ZL 201910355947. 7
31	HIGH-SPEED COUNTER-CURRENT CHROMATOGRAPH UNREELED BY GEAR RING	发明	2020. 11. 03	US 10, 821, 376 B2
32	一种超声波疲劳试验中样品分离装置	实用新型	2020. 02. 07	ZL201920796429. 4
33	一种防样品倾斜的振动抛光样品夹具及振动抛光机	实用新型	2020. 02. 28	ZL201920743998. 2
34	一种实现局部定位的荧光 CT 成像系统	实用新型	2020. 05. 22	ZL201920776088. 4
35	一种用于超声波疲劳试验的试样预处理装置	实用新型	2020. 06. 09	ZL201921535691. X
36	一种用于设施蔬菜集约区土壤中金属检测的烘干机	实用新型	2020. 06. 16	ZL201921599732. 1
37	一种原位降解多源直接质谱分析药物有关物质识别装置	实用新型	2020. 12. 07	ZL202021446056. 7
38	一种生态浮床光生物反应器	实用新型	2020. 05. 15	ZL201921391661. 6
39	初期农田地表径流截留净化装置	实用新型	2020. 05. 22	ZL201921571938. 3
40	一种稀有人参皂苷的转化方法	发明	2020. 12. 01	ZL201910074582. 0

论文

序号	论文题目	期刊名	影响因子	SCI	EI	北大中文核心
1	Flow Behavior and Microstructure of a Mo–V–Ti Micro-Alloyed High-Strength Steel	Metallography, Microstructure, and Analysis			1	
2	Stress Corrosion Cracking of a 304 Stainless Steel Elbow	Journal of Failure Analysis and Prevention			1	
3	Fracture analysis of a welded front axle tube structure from a mini-truck	Journal of Mechanical Science and Technology	1.345	1		
4	Molecular dynamics study on the Li diffusion mechanism and delithiation process of Li ₂ MnO ₃	Solid State Ionics	3.107	1		
5	A new model on cation distribution in cation-disordered Li _{1+x} TM _{1-x} O ₂ cathodes	Solid State Ionics	3.107	1		
6	Revealing the mechanism of critical root radius in notch fatigue limit based on crack closure concept	International Journal of Fatigue	4.369	1		
7	Failure analysis and optimization of a suspended structure in the power supply system of the subway	ENGINEERING FAILURE ANALYSIS	2.897	1		
8	Structure characterization within the vicinity of the fine granular area by synchrotron radiation nano-CT	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	3.031	1		
9	Split-Bregman Algorithm with Attenuation Correction for L-Shell Polychromatic X-ray Fluorescence Computed Tomography	Journal of Medical Imaging and Health Informatics	0.659	1		
10	Fracture failure for the teeth of sprocket wheels in mineral conveying equipment	Engineering Failure Analysis	2.897	1		
11	Plasticity and thermally-induced recovery in polycarbonate	Mechanics of Materials	2.993	1		
12	Investigation on electronic and mechanical properties of penta-graphene nanotubes	Journal of Materials Science	3.553	1		
13	A zirconium-based metal-organic framework material for solid-phase microextraction of trace polybrominated diphenyl ethers from milk	Food Chemistry	6.306	1		
14	Silver-organic coordination networks for magnetic solid-phase extraction of	Journal of Hazardous Materials	9.038	1		

	trihalomethanes from environmental water samples: experimental and theoretical calculation study					
15	Kinetic, thermodynamic, and isotherm investigations of Cu ²⁺ and Zn ²⁺ adsorption on Li-Al hydrotalcite-like compound	Science of the Total Environment	6.551	1		
16	Spherical mesoporous covalent organic framework as a solid-phase extraction adsorbent for the ultrasensitive determination of sulfonamides in food and water samples by liquid chromatography-tandem mass spectrometry	Journal of Chromatography A	4.049	1		
17	Room-temperature synthesis of flower-shaped covalent organic frameworks for solid-phase extraction of quinolone antibiotics	Anal Chim Acta	5.977	1		
18	Effective enrichment and detection of trace polybrominated diphenyl ethers in water samples based on magnetic covalent organic framework nanospheres coupled with chromatography-mass spectrometry	Journal of Chromatography A	4.049	1		
19	Recent applications of covalent organic frameworks and their multifunctional composites for food contaminant analysis	Food Chemistry	6.306	1		
20	Facile preparation of hydroxyl bearing covalent organic frameworks for analysis of phenoxy carboxylic acid pesticide residue in plant-derived food	Food Chemistry	6.306	1		
21	Distribution, combined pollution and risk assessment of antibiotics in typical marine aquaculture farms surrounding the Yellow Sea, North China	Environment International	7.577	1		
22	In-situ exfoliation of graphitic carbon nitride with metal-organic framework via a sonication-assisted approach for dispersive solid-phase extraction of perfluorinated compounds in drinking water samples	Journal of Chromatography A	4.049	1		
23	In situ analysis of oxytetracycline tablets based on matrix-assisted laser desorption/ionization mass spectrometry imaging	Rapid Communications in Mass Spectrometry	2.2	1		
24	Metabolomic approach for rapid	Journal of Pharmaceutical and	3.209	1		

	differentiation of Fritillaria bulbs by matrix-assisted laser desorption/ionization mass spectrometry and multivariate statistical analysis	Biomedical Analysis				
25	Magnetic solid-phase extraction of sulfonamide antibiotics in water and animal-derived food samples using core-shell magnetite and molybdenum disulfide nanocomposite adsorbent	Journal of Chromatography A	4.049	1		
26	Dietary exposure and risk assessment of short-chain chlorinated paraffins in supermarket fresh products in Jinan, China	CHEMOSPHERE	5.778	1		
27	Quick and convenient construction of lambda-cyhalothrin antigen for the generation of specific antibody	Analytical Biochemistry	2.877	1		
28	Integrated Functional Omics Analysis of Flavonoid-Related Metabolism in AtMYB12Transcript Factor Overexpressed Tomato	Journal of Agricultural and Food Chemistry	6.58	1		
29	Integration of proteomics and metabolomics reveals promotion of proliferation by exposure of bisphenol S in human breast epithelial MCF-10A cells	Science of the Total Environment	6.551	1		
30	Development of boronate affinity-based magnetic composites in biological analysis: Advances and future prospects	TRAC-TRENDS IN ANALYTICAL CHEMISTRY	9.801	1		
31	Far-red to near-infrared fluorescent probes based on silicon-substituted xanthene dyes for sensing and imaging	TRAC-TRENDS IN ANALYTICAL CHEMISTRY	9.801	1		
32	Imaging mass spectrometry of interspecies metabolic exchange revealed the allelopathic interaction between Microcystis aeruginosa and its antagonist	CHEMOSPHERE	5.778	1		
33	In vitro oral bioaccessibility investigation and human health risk assessment of heavy metals in wheat grains grown near the mines in North China	CHEMOSPHERE	5.778	1		
34	Characteristics of heavy metals and persistent organic pollutants in PM(2.5)in two typical industrial cities, North China	ENVIRONMENTAL FORENSICS	0.726	1		
35	Synergistic Effects of a Chalkophore, Methanobactin, on Microbial Methylation of Mercury	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	4.016	1		
36	Mechanistic investigations into	CHEMICAL COMMUNICATIONS	5.996	1		

	synergistically enhanced radiative-charge-transfer in Au-Ag bimetallic nanoclusters					
37	Nitrogen-rich covalent organic frameworks as solid-phase extraction adsorbents for separation and enrichment of four disinfection by-products in drinking water	Journal of Chromatography A	4.069	1		
38	Fe ³⁺ -catalyzed degradation of organic mercury as a simple post-column interface for the speciation of mercury by high-performance liquid chromatography-catalytic cold vapor-atomic fluorescence spectrometry	Journal of Analytical Atomic Spectrometry	3.498	1		
39	In vivo and in vitro studies on inactivation of selenium containing protein- glutathione peroxidase 3 in mice nephrocytes caused by lead	ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY	4.872	1		
40	Soil bacterial community response to long-term land use conversion in Yellow River Delta	APPLIED SOIL ECOLOGY	3.187	1		
41	One-step synthesis of 2-mercaptobenzothiazole functionalized magnetic Fe ₃ O ₄ and its application for the removal of heavy metals	JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS	4.794	1		
42	Screening of brominated pyrolysis products of tetrabromobisphenol a by integrating controllable heating device with ambient mass spectrometry	JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS	3.905	1		
43	Microwave assisted flocculation for harvesting of <i>Chlorella vulgaris</i>	Bioresource Technology	7.539	1		
44	A new approach to removing and recovering phosphorus from livestock wastewater using dolomite	Chemosphere	5.778	1		
45	Auto-flocculation microalgae species <i>Tribonema</i> sp. and <i>Synechocystis</i> sp. with T-IPL pretreatment to improve swine wastewater nutrient removal	Science of the Total Environment	6.551	1		
46	Purification of pyrethrins from flowers of <i>Chrysanthemum cineraraefolium</i> by high-speed counter-current chromatography based on coordination reaction with silver nitrate	Journal of Chromatography A	4.069	1		
47	Assessing the suitable cultivation areas for <i>Scutellaria baicalensis</i> in China using the Maxent model and multiple linear	Biochemical Systematics and Ecology	1.09	1		

	regression					
48	Covalent organic framework as a heterogeneous ligand for the regioselective oxidative heck reaction	Organic Letters	6.091	1		
49	Scholl-coupling mesoporous polymer for online solid-phase extraction of plant growth regulators from bean sprouts	Food Chemistry	6.306	1		
50	Rapid microwave synthesis of dioxin-linked covalent organic framework for efficient micro-extraction of perfluorinated alkyl substances from water	Journal of Hazardous Materials	9.038	1		
51	Facile synthesis of trifluoromethyl covalent organic framework for the efficient microextraction of per-and polyfluorinated alkyl substances from milk products	Journal of Chromatography A	4.049	1		
52	Spherical conjugated microporous polymers for solid phase microextraction of carbamate pesticides from water samples	Journal of Chromatography A	4.049	1		
53	Molecularly imprinted polymers prepared from a single cross-linking functional monomer for solid-phase microextraction of estrogens from milk	Journal of Chromatography A	4.049	1		
54	Comprehensive separation of iridoid glycosides and triterpenoid saponins from <i>Dipsacus asper</i> with salt-containing solvent by high-speed countercurrent chromatography coupled with recycling mode	Journal of Separation Science	2.878	1		
55	An efficient method to obtain anti-inflammatory phenolic derivatives from <i>Scindapsus officinalis</i> (Roxb.) Schott. by a high speed counter-current chromatography coupled with a recycling mode	RSC Advances	3.119	1		
56	Cembrane-type diterpenoids from the gum resin of <i>Boswellia carterii</i> and their biological activities	RSC Advances	3.119	1		
57	Bioactive cembrane diterpenoids from the gum resin of <i>Boswellia carterii</i>	Fitoterapia	2.527	1		
58	Flavonoid epimers from custard apple leaves, a rapid screening and separation by HSCCC and their antioxidant and hypoglycaemic activities evaluation	Scientific Reports	3.998	1		
59	A simple and efficient linear gradient	Journal of Chromatography A	4.049	1		

	coupled with inner-recycling high-speed counter-current chromatography mode for the preparative separation of flavonoid glycosides from leaves of custard apple					
60	A spatially-resolved approach to visualize the distribution and biosynthesis of flavones in <i>Scutellaria baicalensis</i> Georgi	Journal of Pharmaceutical and Biomedical Analysis	3.209	1		
61	1,1'-binaphthyl-2,2'-diamine as a novel MALDI matrix to enhance the in situ imaging of metabolic heterogeneity in lung cancer	Talanta	5.339	1		
62	Development of a high-coverage matrix-assisted laser desorption/ionization mass spectrometry imaging method for visualizing the spatial dynamics of functional metabolites in <i>Salvia miltiorrhiza</i> Bge	Journal of Chromatography A	4.049	1		
63	The choice of tissue fixative is a key determinant for mass spectrometry imaging based tumor metabolic reprogramming characterization	Analytical and Bioanalytical Chemistry	3.637	1		
64	Mass spectrometry imaging-based metabolomics to visualize the spatially resolved reprogramming of carnitine metabolism in breast cancer	Theranostics	8.579	1		
65	On-Tissue Derivatization Strategy for Mass Spectrometry Imaging of Carboxyl-Containing Metabolites in Biological Tissues	Analytical Chemistry	6.785	1		
66	Acidic hydrolysate fingerprints based on HILIC-ELSD/MS combined with multivariate analysis for investigating the quality of <i>Ganoderma lucidum</i> polysaccharides	International Journal of Biological Macromolecules	5.162	1		
67	Reversible electron storage in tandem photoelectrochemical cell for light driven unassisted overall water splitting	APPLIED CATALYSIS B-ENVIRONMENTAL	16.683	1		
68	Two-dimensional black phosphorus nanoflakes: A coreactant-free electrochemiluminescence luminophors for selective Pb ²⁺ detection based on resonance energy transfer	Journal of Hazardous Materials	9.038	1		
69	Paper-based closed Au-Bipolar electrode electrochemiluminescence sensing	Biosensors and Bioelectronics	10.257	1		

	platform for the detection of miRNA-155					
70	Plasma metabolomics analysis of endogenous and exogenous metabolites in the rat after administration of Lonicerae Japonicae Flos	Biomedical Chromatography	1.728	1		
71	Detection of water variation in rosebuds during hot-air drying by LF-NMR and MRI	Drying technology	2.988	1		
72	Isolation and purification of six aristolochic acids with similar structures from Aristolochia manshuriensis Kom stems by pH-zone-refining counter-current chromatography	Journal of Chromatography A	4.049	1		
73	Prominent immune signatures of T cells are specifically associated with indolent B-cell lymphoproliferative disorders and predict prognosis	Clinical & Translational Immunology	6.464	1		
74	Activation of the Notch Signaling Pathway and Cellular Localization of Notch Signaling Molecules in the Spinal Cord of SOD1-G93A ALS Model Mice	NEUROSCIENCE	3.056	1		
75	Safety evaluation and ibuprofen removal via an Alternanthera philoxeroides-based biochar	Environmental Science and Pollution Research	3.056	1		
76	Low-dose IL-2 therapy compensates for metabolic shifts and reverses anxiety-like behavior in PD-1 deficiency-induced autoimmunity	Cellular&Molecular Immunology	8.484	1		
77	Morphological transformation of ultrasonically obtained nanofibers during living self-assembly	New Journal of Chemistry	3.288	1		
78	New insights into the release mechanism of Cd ²⁺ from CdTe quantum dots within single cells in situ	Ecotoxicology and Environmental Safety	4.872	1		
79	Luteolin, an aryl hydrocarbon receptor ligand, suppresses tumor metastasis in vitro and in vivo	Oncology Reports	3.417	1		
80	Discovery of N-(2-Amino-4-Fluorophenyl)-4-[bis-(2-Chloroethyl)-Amino]-Benzamide as a Potent HDAC3 Inhibitor	Frontiers in Oncology.	4.848	1		
81	Peripheral CD4 ⁺ T cell subsets and antibody response in COVID-19 convalescent individuals	The Journal of Clinical Investigation	11.864	1		
82	Potential of myricetin to restore the immune balance in dextran sulfate sodium-	Journal of Pharmacy and Pharmacology	2.571	1		

	induced acute murine ulcerative colitis					
83	Lipidomics perturbations in the brain of adult zebrafish (Danio rerio) after exposure to chiral ibuprofen	Science of the Total Environment	6.551	1		
84	A tropomyosin-like Meretrix meretrix Linnaeus polypeptide inhibits the proliferation and metastasis of glioma cells via microtubule polymerization and FAK/Akt/MMPs signaling	International Journal of Biological Macromolecules	5.162	1		
85	Low-background electrochemical biosensor for one-step detection of base excision repair enzyme	Biosensors and Bioelectronics	10.257	1		
86	Covalent organic framework with bidentate ligand sites as reliable fluorescent sensor for Cu ²⁺	Microporous and Mesoporous Materials	4.551	1		
87	Near-infrared and metal-free tetra(butylamino)phthalocyanine nanoparticles for dual modal cancer phototherapy	RSC Advances	3.119	1		
88	Detection of organophosphorus pesticides with liquid crystals supported on the surface deposited with polyoxometalate-based acetylcholinesterase-responsive supramolecular spheres	Food Chemistry	6.306	1		
89	Simultaneous detection of multiple tumor markers in blood by functional liquid crystal sensors assisted with target-induced dissociation of aptamer	Analytical Chemistry	6.785	1		
90	Liquid crystal-based sensing platform for detection of Pb ²⁺ assisted by DNAzyme and rolling circle amplification	Journal of Hazardous Materials	9.038	1		
91	Effects of organic ammonium cations on the isolation of {Ti ₄ } cyclic clusters from water:an 17O NMR study	Dalton Transactions	4.174	1		
92	Solubility determination and thermodynamic modelling of gliclazide in five binary solvent mixtures	Journal of Molecular Liquids	5.065	1		
93	Solubility, thermodynamic parameters, and dissolution properties of gliclazide in seventeen pure solvents at temperatures	Journal of Molecular Liquids	5.065	1		

	from 278.15 to 318.15 K					
94	Hard-and-Soft Integration Strategy for Preparation of Exceptionally Stable Zr(Hf)-UiO-66 via Thiol-Ene Click Chemistry	ACS Applied Materials & Interfaces	8.758	1		
95	Determination and correlation of solubility data and dissolution thermodynamic data of 2-acrylamido-2-methyl-1-propane-sulfonic acid in seven pure solvents	Brazilian Journal of Chemical Engineering	1.027	1		
96	Comparison of the Extraction Efficiency of Isoflavone Compounds from Puerariae lobatae by Ionic Liquids with 11 Anions and 8 Imidazolium-Based Cations	ACS Omega	2.87	1		
97	Extraction of Flavonoids from Scutellariae Radix using Ultrasound-Assisted Deep Eutectic Solvents and Evaluation of Their Anti-Inflammatory Activities	ACS Omega	2.87	1		
98	Measurement and Correlation of Solubility and Thermodynamic Properties of Fluoxetine Hydrochloride in 15 Pure Solvents and a Methanol + Water Binary Solvent System	JOURNAL OF CHEMICAL AND ENGINEERING DATA	2.369	1		
99	Solubility of Cefixime Disodium in Seven Pure Solvents	Russian Journal of Physical Chemistry A volume	0.719	1		
100	Dual Inhibitors Targeting DNA and Histone Deacetylases	Pharmaceut Fronts				
101	Study on Preparation and Bioactivity of Peony Wood Vinegar	SCIREA Journal of Agriculture				
102	反复冻融过程对肉类氧化关键指标的影响	食品科技				1
103	水生植物对不同氮磷水平养殖尾水的综合净化能力比较	农业环境科学学报	2.762 1.827			1
104	湿地甲烷厌氧氧化机制研究进展	土壤学报	3.891 2.743			1
105	沉积物再悬浮氮磷释放的机制与影响因素	科学技术与工程	0.952 0.701			1
106	共价有机骨架材料在分离科学中的研究进展	分析测试学报				1
107	大叶糖胶树吡啶生物碱化学成分研究	天然产物研究与开发				1
108	UPLC-DPPH-PAD-ESI-TOF/MS 在线联用技术快速筛选丹参中的抗氧化成分	中草药				1
109	超声辅助酸解-超高效液相色谱-电雾式检测器测定灵芝多糖的单糖组成	食品工业科技				1
110	亲水色谱-蒸发光散射检测器-电喷雾-四级杆-飞行时间串联质谱法测定低聚麦芽糖化	食品工业科技				1

	学成分					
111	红果檉木叶中 1 个新的甾体类化合物	中草药				1
112	人参皂苷 Re 标准样品的研制	时珍国医国药				1
113	基于 LC-MS/MS 的咖啡酰奎宁酸异构体鉴别方法研究	分析测试学报				1
114	基于液相色谱-质谱法的不同花期金银花代谢组学分析	分析测试学报				1
115	不同干燥方法下西洋参的挥发性成分研究	山东科学				
116	黄芩化学成分的研究	中成药				1
117	黄芩中化学成分及药理作用研究进展	辽宁中医杂志				
118	麦芽糖醇标准样品的研制	山东科学				
119	丹参植株邻苯二甲酸与立枯丝核菌菌丝生长互作研究	山东科学				
120	药用植物根际微生物与酚酸类自毒物质致害机制及作用关系研究	中华中医药杂志(原中国医药学报)				1
121	新型绿色溶剂在天然产物提取中的应用研究进展	西南民族大学学报(自然科学版)				
122	头孢菌素抗生素结晶方式总结	山东化工				
123	反应结晶制备头孢菌素类抗生素研究进展	山东化工				
124	Fluent 在工业结晶领域中的应用	山东化工				
125	济南市春季大气颗粒物重金属的分布特征	环境科技				

标准

序号	标准名称	标准号	标 准 类别	发布时间	实施日期
1	消费品 塑胶材料 邻苯二甲酸酯类增塑剂快速筛选	GB/T 39110-2020	国标	2020.10.21	2020.10.21
2	水质 丙烯酰胺的测定 液相色谱-串联质谱法	DB37/T 4145—2020	地标	2020.9.25	2020.10.25
3	水质 联苯胺的测定 固相萃取-液相色谱-串联质谱法	DB37/T 4146—2020	地标	2020.9.25	2020.10.25
4	水质 环境激素类化合物的测定 固相萃取-液相色谱-串联质谱法	DB37/T 4158—2020	地标	2020.9.25	2020.10.25
5	水质 苦味酸的测定 液相色谱-串联质谱法	DB37/T 4159—2020	地标	2020.9.25	2020.10.25
6	水质 β -萘酚的测定 荧光分光光度法	DB37/T 4150—2020	地标	2020.9.25	2020.10.25
7	检测实验室仪器设备计量溯源结果确认指南	RB/T 039- 2020	行 业 标准	2020.8.26	2020.12.01
8	人参皂苷 Rd 标准样品	GSB 11- 3730-2020	实 物 标准	2020.08.07	2020.08.07
9	人参皂苷 Re 标准样品	GSB 11- 3729-2020	实 物 标准	2020.08.07	2020.08.07
10	木糖醇标准样品	GSB 11- 3797-2020	实 物 标准	2020.11.24	2020.11.24
11	麦芽糖醇标准样品	GSB 11- 3798-2020	实 物 标准	2020.11.24	2020.11.24
12	D-木糖	GSB 11- 3801-2020	实 物 标准	2020.11.24	2020.11.24
13	β -D-吡喃半乳糖基-(1 $\rightarrow$ 4)- β -D-吡喃半乳糖基-(1 $\rightarrow$ 4)-D-吡喃葡萄糖标准样品	GSB 11- 3731-2020	实 物 标准	2020.08.07	2020.08.07
14	β -D-吡喃半乳糖基-(1 $\rightarrow$ 4)- β -D-吡喃半乳糖基-(1 $\rightarrow$ 6)-D-吡喃葡萄糖标准样品	GSB 11- 3732-2020	实 物 标准	2020.08.07	2020.08.07
15	D-甘露糖醛酸钠标准样品	GSB 11- 3733-2020	实 物 标准	2020.08.07	2020.08.07
16	L-古罗糖醛酸钠标准样品	GSB 11- 3734-2020	实 物 标准	2020.08.07	2020.08.07
17	4-O-(2-氨基-2-脱氧- β -D-吡喃葡萄糖基)-2-氨基-2-脱氧-D-吡喃葡萄糖-二盐酸盐标准样品	GSB 11- 3735-2020	实 物 标准	2020.08.07	2020.08.07
18	4-O-(β -D-吡喃木糖基)-D-吡喃木糖标准样品	GSB 11- 3736-2020	实 物 标准	2020.08.07	2020.08.07
19	雏菊叶龙胆酮标准样品	GSB 11-	实 物	2020.08.07	2020.08.07

		3720-2020	标准		
20	大麦黄苷标准样品	GSB 11-3721-2020	实物标准	2020.08.07	2020.08.07
21	诃黎勒酸标准样品	GSB 11-3724-2020	实物标准	2020.08.07	2020.08.07
22	诃子酸标准样品	GSB 11-3725-2020	实物标准	2020.08.07	2020.08.07
23	胡麻苷标准样品	GSB 11-3722-2020	实物标准	2020.08.07	2020.08.07
24	皂草黄苷标准样品	GSB 11-3727-2020	实物标准	2020.08.07	2020.08.07
25	菊苣酸	GSB 11-3723-2020	实物标准	2020.08.07	2020.08.07
26	咖啡碱	GSB 11-3726-2020	实物标准	2020.08.07	2020.08.07
27	罗汉果皂苷 V	GSB 11-3728-2020	实物标准	2020.08.07	2020.08.07

著作

序号	著作名称	出版社	出版时间	作者	ISBN 国际标准书号
1	环境保护与生态建设	陕西新华出版传媒集团陕西旅游出版社	2020.8	高新国（第四位）	978-7-5418-3918-4
2	流域面源污染防治技术与应用	中国科技出版传媒股份有限公司科学出版社	2020.11	赵长盛（副主笔人）；陈庆锋、郭贝贝（参著人员）	978-7-03-066728-1
3	道地药材标准汇编（上册）	北京科学技术出版社	2020.1	王晓（常务编委）	978-7-5714-0558-8

奖励

序号	获奖项目名称	奖励名称	等级	颁奖单位
1	中药“效-毒整合”评价体系构建与应用	山东省科技进步奖	一等奖	山东省人民政府
2	典型工业园区环境风险应急管控关键技术创新与应用	山东省科技进步奖	一等奖	山东省人民政府
3	痕量物质分析技术及关键器件研究	2020 年度山东省高等学校优秀科研成果奖	一等奖	山东省教育厅
4	新型环境污染物高灵敏分析技术研发及应用	2020 年度山东省高等学校优秀科研成果奖	二等奖	山东省教育厅
5	复杂环境介质作用下大型轴类工件安全评估与寿命预测关键技术开发及应用	2020 年度山东省机械工业科学技术进步奖	一等奖	山东省机械工业协会
6	新型有机污染物的多层次高灵敏分析关键技术及应用	2020 年中国分析测试协会科学技术-CAIA 奖	一等奖	中国分析测试协会
7	共价有机框架材料高灵敏富集饮用水中新兴污染物的关键技术研究	2020 年山东省分析测试协会科学技术奖 SDATA 奖	三等奖	山东分析测试协会
8	原料药中微痕量杂质分离分析与制备关键技术研究及应用	2020 年山东省分析测试协会科学技术奖 SDATA 奖	一等奖	山东分析测试协会
9	新型纳米催化剂的研发及其在“新动能”领域的应用	2020 年度山东省高等学校优秀科研成果奖	一等奖	山东省教育厅
10	畜禽养殖废水深度处理及资源化利用关键技术研究与应用	山东省环保创业环境技术进步奖	一等奖	山东省环境保护产业协会
11	原料药有关物质检测及安全控制关键技术研究与应用	中国产学研合作促进会产学研合作创新与促进奖-产学研合作创新成果奖	二等奖	中国产学研合作促进会 产学研合作创新与促进奖评奖办公室