

CAS Analytical Methods快速获取详细的分析方法

CAS Analytical Methods (methods.cas.org)

- Organic Compound Analysis: 天然产物分离分析,手性分离,活性药物成分及代谢产物分析…
- Organometallics / Inorganics: 地质分析,无机物分析,金属有机化合物分析
- Pharmacology / Toxicology: 成瘾药物检测,有毒物检测…
- Bioassays: 生物探针,生物标定细胞实验,生物标定药物实验,生物医学材料分析,生物分子/生物组织分离测定...
- Water Analysis: 阴阳离子分析,元素测定,痕量元素分析,废水分析,生物标记公共卫生分析…
- Historical Analysis / Dating: 考古分析,同位素分析
- Environmental Analysis: 土壤/空气/水分析,农药残留分析...
- Agricultural Applications / Analysis: 除草剂分析...
- Food Analysis: 脂肪酸分析,脂肪酸酯分析,蛋白质分析...
- Fuels / Geology / Biofuels: 生物燃料分析,油气分析,石油产品分析,煤炭加工...
- Miscellaneous: 化妆品分析,爆炸物分析,纳米材料分析...



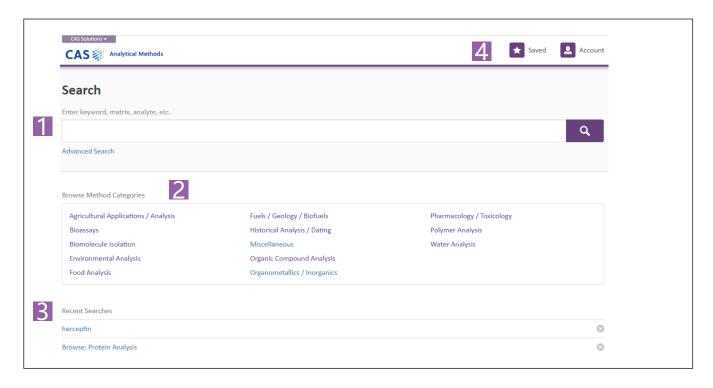
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Username or Email Address

1

1 登录methods.cas.org网址,输入用户名和密码





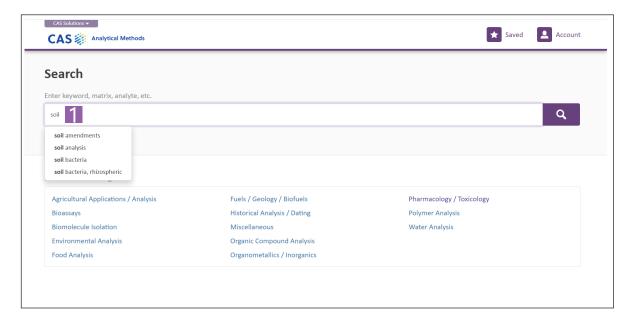
- 1 可以在检索框输入关键词或者分析物等进行检索
- 2 也可以通过浏览方法分类,点击一个浏览类别查看相关方法
- 3 点击历史检索重新运行检索,点击X删除检索历史
- 4 保存结果集



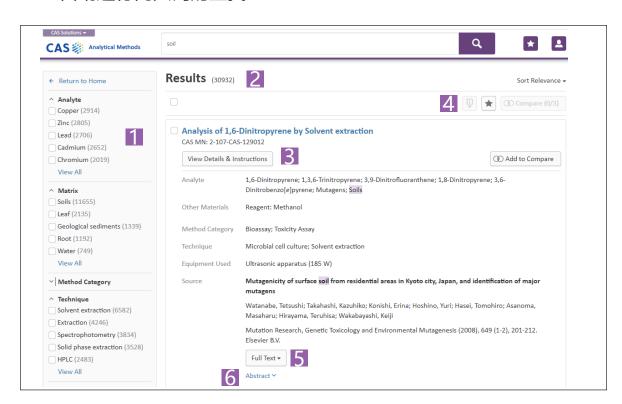
- 1 逻辑运算符: and, or, not
- 检索条件包括:关键词,分析物,基质,方法分类,技术手段,CAS方法号,出版物名称
- 3 增加检索条件
- 4 删除检索条件



案例: 在土壤中检测重金属的方法



此处只需要输入物质的一个名称即可, CAS Analytical Methods会 自动进行同义词的查找



- 11 按照分析物、基质、方法分类、技术手段、公开年份等条件筛选结果
- 2 方法结果数量

- 3 查看方法信息详情
- 4 导出或者保存方法
- 5 获得全文链接

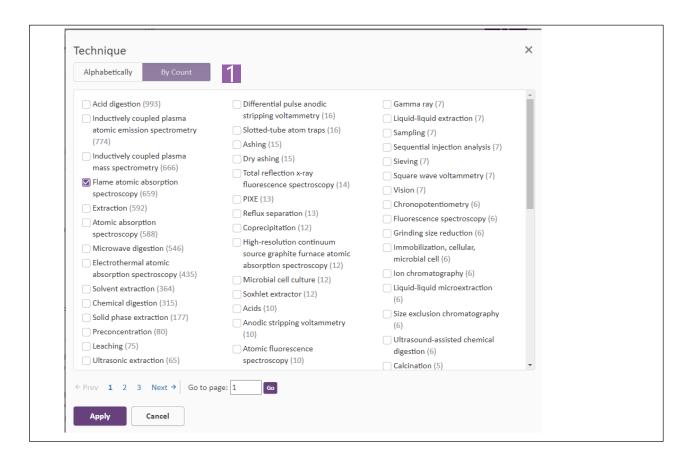
6 展示摘要



Analyte			×
Alphabetically By Count	1		
Copper (2914)	Benzo[<i>ghi</i>]perylene (504)	Samarium (220)	A
Zinc (2805)	Sodium (502)	Cu ²⁺ (218)	
✓ Lead (2706)	DNA (487)	p,p'-DDE (216)	1
✓ Cadmium (2652)	Dibenz[a,h]anthracene (477)	Cr ³⁺ (213)	
Chromium (2019)	Barium (467)	Simazine (213)	
Nickel (1941)	☐ Indeno[1,2,3- <i>cd</i>]pyrene (452)	DDT (206)	
☐ Iron (1923)	Polycyclic aromatic	Nitrogen (204)	
Manganese (1752)	hydrocarbons (442)	Gallic acid (202)	1
Arsenic (1644)	Heavy metals (440)	Ferulic acid (198)	1
Phenols (1433)	Antimony (414)	Polyphenols (nonpolymeric)	1
Cobalt (1151)	Atrazine (412)	(198)	
Flavonoids (866)	Strontium (404)	Europium (189)	
Pyrene (835)	Silver (393)	Scandium (189)	
Calcium (829)	Molybdenum (389)	Lead(2+) (188)	
Phenanthrene (825)	Thorium (364)	Rutin (188)	
Mercury (800)	Lead 83, lithium 17 (atomic)	Saponins (186)	

19,10

1 点击分析物列表,选择目标分析物



1 点击技术手段列表,选择技术手段

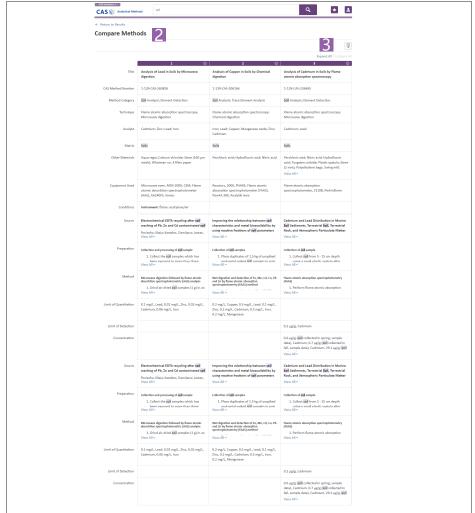
	ace Element Analysis				
Technique: Flow injection a	nalysis; Electrothermal atomic absorp	tion spectroscopy; Microwave dig	gestion; Solid phase extraction		
Materials		Role	Image	CAS RN	
Cadmium		analyte	View Structure	7440-43-9	
Soils		matrix			
0.8 mm i.d. poly(tetrafluoroethylene)	(PTFE) tubing	material			
Multi-walled carbon nanotubes (diam ash ≤0.2 wt%, specific surface area 40		rity ≥95%, material			
10 mm length of PTFE tubing (2.0 mm		material			
Mini column		material			
Ferric nitrate		reagent	View Structure	10421-48-4	
Iron chloride (FeCl ₃)		reagent	View Structure	7705-08-0	
Tris(hydroxymethyl)aminomethane h	ydrochloride	reagent	View Structure	1185-53-1	
Nitric acid		reagent	View Structure	7697-37-2	
Hydrochloric acid		reagent	View Structure	7647-01-0	
Hydrofluoric acid		reagent	View Structure	7664-39-3	
Ethanol		reagent	View Structure	64-17-5	
Sodium hydroxide		reagent	View Structure	1310-73-2	
Monosodium phosphate		reagent	View Structure	7558-80-7	
Journal of Analytical Atomic Spectroms CODEN: JASPE2 ISSN: 02679477 DO Full Text Abstract Multi-walled carbon nanotubes (MWN resolution transmission electronium (pH 6) ehosphase in a neutral mild (pH 6)	I: 10.1039/c2ja30099k Ts) were functionalized by incubating is scopy, Raman spectroscopy, x-ray diffr	in Fe ³⁺ solution for the purpose o action, and surface charge anal. d	emonstrated that the MWNTs v	vere decorated by a layer of iron	
g ¹ by bare carbon nanotubes after oxi- high selectivity to cadmium against cor- packed into a mini-column for online si 6, and 50 µL of aqueous mixture of 0,0 31.2 is obtained, along with a detection validated by determining cadmium in t	nplex sample matrix components, i.e., elective preconcentration of cadmium 02 mol L^3 H_3 PO $_4$ and 0.1 mol L^3 NH_4 N n limit of 1.3 ng L^3 (3 σ , n = 11) and a R	, the tolerant limit for coexisting s with detection by electrothermal NO ₃ gives rise to a recovery of 775 RSD of 2.2% (0.1 µg L ⁻¹ , n = 11) wit	pecies were 5-100 fold improve at. absorption spectrometry. A 6. With a sample volume of 100 hin a linear calibration range of	d. The NT-FP composites were 100% sorption was achieved at pH D µL, an enhancement factor of	
Equipment Used					
Equipment Used Atomic absorption spectrophotometer, Cadmium hollow cathode lamp, Beljiing pH meter, Orion 868, ThermoElectron Sequential injection system, FiAlab-300	Rilips Photoelectricity Factory, China				
Atomic absorption spectrophotometer, Cadmium hollow cathode lamp, Beijling pH meter, Orion 868, ThermoElectron Sequential injection system, FiAlab-300	Rilips Photoelectricity Factory, China				
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- 1 分析方法所用材料
- 2 书目信息
- B 原文链接
- 4 摘要

- 5 使用仪器
- 6 实验条件
- 7 分析方法操作步骤
- 8 方法有效性



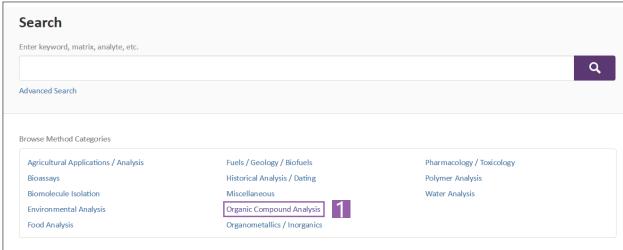




- 11 选择感兴趣的方法进行对比
- 一次最多可以比较三种不同方法,所有方法信息详情的内容都可以进行对比
- **③** 可以将方法比较结果下载成pdf或者excel格式文件到本地电脑



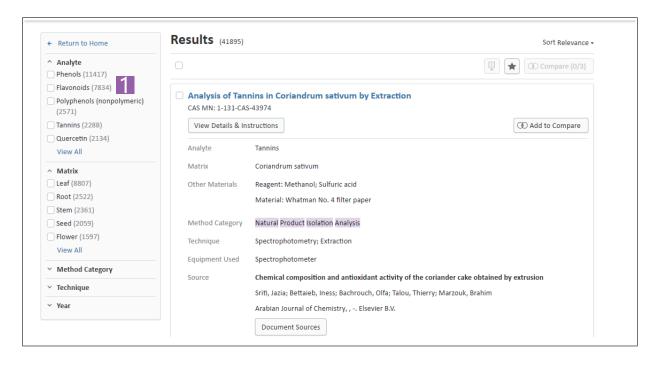
天然产物分离



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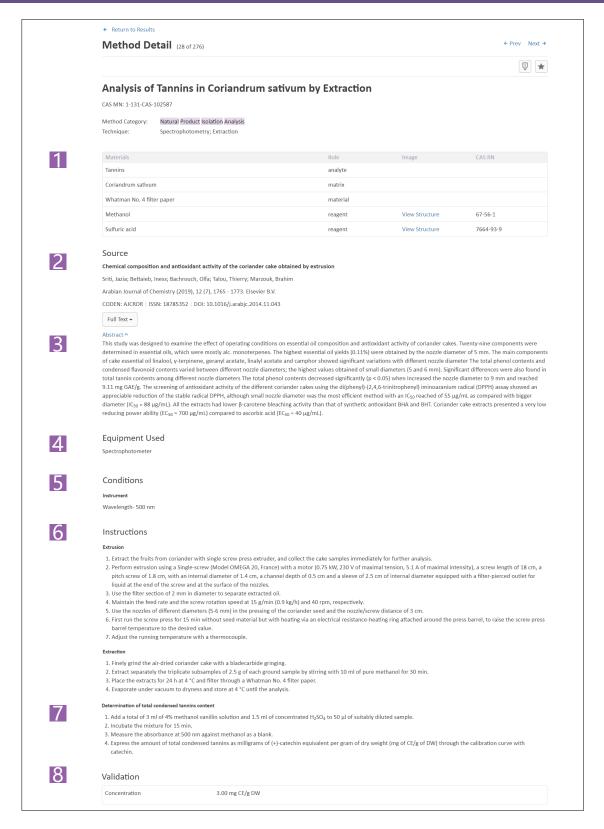


- 11 浏览方法分类,选择有机化合物分析
- 2 获得全部关于天然产物分离/分析的文献



1 根据需要,对相应的分离物、基质进行筛选





- 1 实验所用材料
- 2 书目信息
- 3 摘要
- 4 使用的仪器

- 5 实验条件
- 6 提取、分离步骤详情
- 7 产物的表征
- 8 方法有效性

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