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Teacher as Learner:

Tools, Techniques for the Scholarship of Teaching

A workshop with Jeanette McVeigh, M.S., M.S.L.S., Coordinator of Electronic Resources,
Associate Professor,
Information Science

Objectives

- Review basic searching techniques
- Use ERIC for research in the scholarship of teaching with descriptor terms, keywords and limits by publication type or other limits
- Search PubMed for scholarship in teaching and learning and compare with ERIC

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Objectives

- Explore major features of Google Scholar Advanced Search
- Explore personalization: saved searches, RSS feeds and alerts
- Discuss strategies for continued search for scholarship

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Searching

- **Natural language—encourages use of phrases or sentences**
  - Example: I am interested in PCBs in farm raised salmon
- **Keywords—principle ideas, concepts**
  - Example: PCBs, farmed, salmon
- **Controlled vocabulary—pre-selected terms describe concepts consistently assigned to articles**
  - Example: polychlorinated biphenyl, Salmo salar

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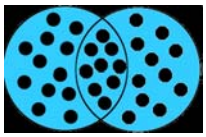
Combining Terms OR



» OCEANS OR RIVERS

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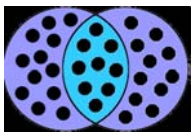
Combining Terms AND



» OCEANS AND RIVERS

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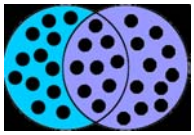
Combining Terms
NOT



» OCEANS NOT RIVERS

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ERIC
http://www.eric.ed.gov

- Over 1.3 million bibliographic records, 1966-
- Includes journal articles, conference papers, technical reports, etc.
- Covers early childhood to higher and adult education
- Teacher education but also reading, mathematics, science, environmental education, languages and social studies

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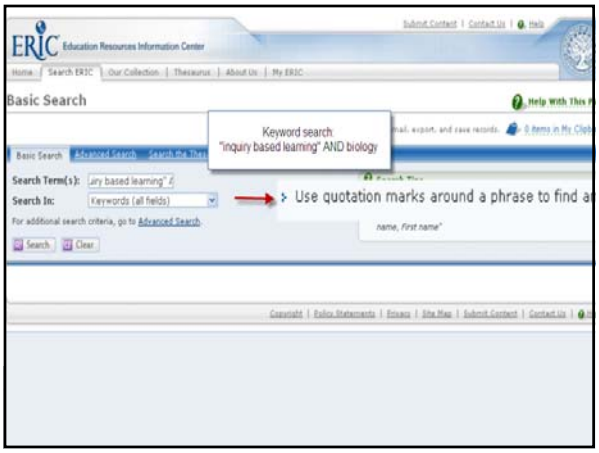

Your search found 34 results.

Search Criteria

(Keywords:"inquiry based learning" AND Keywords:biology)

Back to Search | Search Within Results | New Search | Save This Search | RSS Feed

Search Results

Sort By: Relevance

Show: 10 | 20 | 20 | 40 results per page

Now showing results 1-10 of 34.

1. Marine Debris Clean-Ups as Meaningful Science Learning (ED508687)

Author(s): Stepath, Carl M.; Bacon, Joseph Scott

Source: Online Submission, Paper presented at the American Geophysical Union 2010 Ocean Sciences Meeting (Portland, OR, Feb 22-26, 2010)

Pub Date: 2010-00-00

Pub Type(s): Reports - Descriptive; Speeches/Meeting Papers

Peer-Reviewed: N/A

Descriptors:
Scientific Methodology; Scientific Principles; Inquiry; Hands on Science; Active Learning; Ecology; Conservation (Environment); Service Learning; School Students; Grade 8; Secondary School Science; Marine Biology; Science Process Skills; Environmental Education; Multiple Intelligences; Instruction; Teaching Methods

Abstract:
This seven to eight week hands-on Marine Debris Clean-up Project used a service project to provide an introduction of marine science ecology, watershed interrelationships, the scientific method, and environmental stewardship to 8th grade middle school students. It utilized inquiry based learning. Show Full Abstract

Related Items: Show Related Items

Full-Text Availability Options:

ERIC Full Text (204 70K)

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Your search found 114 Thesaurus Descriptors.

Search Criteria

learning

Back to Search & Browse Thesaurus

Search Results

Start an ERIC Search using the thesaurus descriptors selected below as search criteria.

Next > | Last >>

- Academic Learning Time
- Action Learning
- Active Learning
- Activity Learning (1968 1978)
- Adult Learning
- Adventure Learning
- Approximative Systems (Language Learning)
- Associative Learning
- Aural Language Learning
- Aural Learning
- Blended Learning
- Clinical Learning Experience
- Cohort Learning (2004)
- Community Service Learning
- Computer Assisted Learning
- Computer Based Integrated Learning Systems
- Constructivism (Learning)
- Continuous Learning (1967 1980)
- Cooperative Learning
- Discovery Learning
- Discrimination Learning
- Foreign Language Learning
- Hands on Learning
- Hybrid Learning
- Imitative Learning
- Incidental Learning
- Independent Learning
- Inquiry Based Learning
- Integrated Learning
- Integrated Learning Systems
- Intentional Learning
- Interference (Language Learning) (1968 1980)
- Language Learning (Foreign)
- Language Learning Levels (1967 1980)
- Learning
- Learning Activities
- Learning Activity Packages
- Learning Activity Packets
- Learning Centers (Classroom)
- Learning Characteristics (1968 1980)
- Learning Contracts
- Learning Cycles

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Inquiry Based Learning

Searched "inquiry based learning" in the Thesaurus

Descriptor Details

Start an ERIC Search using **Active Learning AND Inquiry** as a search criterion

Record Type:	Synonym
Scope Note:	n/a
Category:	n/a
Broader Terms:	n/a
Narrower Terms:	n/a
Related Terms:	n/a
Used For	n/a
Use Term	Active Learning; Inquiry;
Add Date:	01/01/2008

<< Back to Search & Browse Thesaurus

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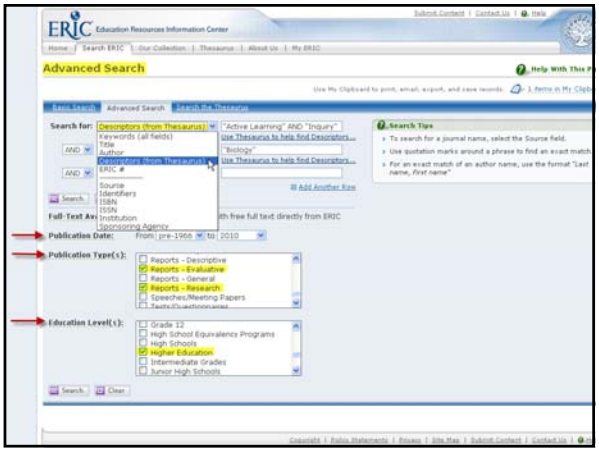
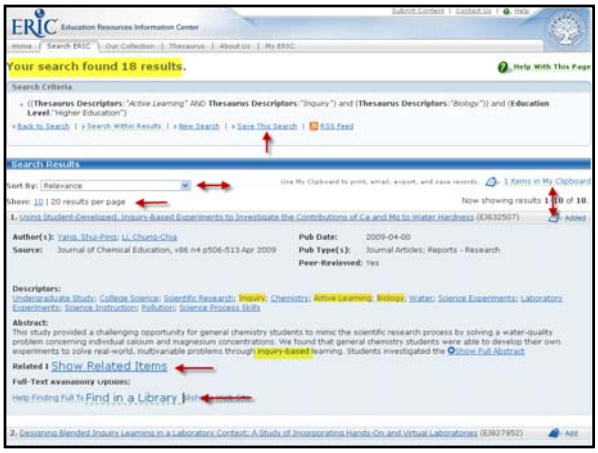
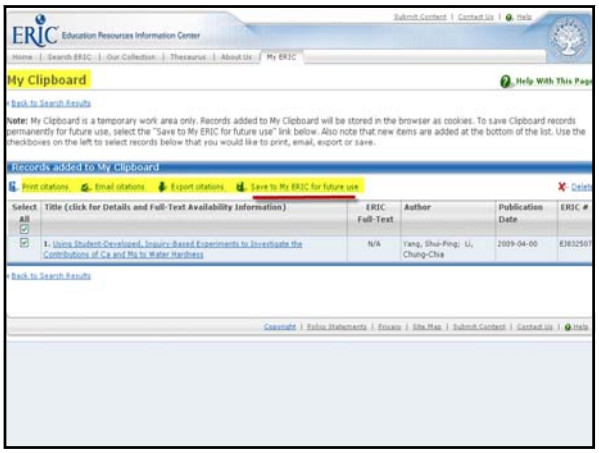
Search Criteria
biology
Back to Search & Browse Thesaurus
Search Results
Start an ERIC Search using the thesaurus descriptors selected below as search criteria.
Animal Biology
Biology
Biology Instruction (1966-1980)
Cell Biology
Cellular Molecular Biology
Diversity (Biology)
Fatigue (Biology)
Human Biology
Marine Biology
Molecular Biology
Plant Biology
Radiation Biology
Replication (Biology)
Reproduction (Biology) (2004)
Social Biology
Strength (Biology) (2004)
Start an ERIC Search using the thesaurus descriptors selected above as search criteria.


ERIC Education Resources Information Center
Advanced Search
Search for:
Descriptors (from Thesaurus)
"Active Learning" AND "Inquiry"
"Biology"
Search Tips
Publication Date:
From pre-1966 to 2010
Publication Type(s):
Reports - Descriptive
Reports - Evaluative
Reports - General
Reports - Research
Speeches/Meeting Papers
Education Level(s):
Grade 12
High School Equivalency Programs
High Schools
Higher Education
Intermediate Grades
Junior High Schools


ERIC Education Resources Information Center
Your search found 18 results.
Search Criteria
Back to Search | Search Within Results | New Search | Save This Search | RSS Feed
Search Results
Sort By: Relevance
Show: 10 | 20 results per page
Now showing results 1 10 of 18
Using Student-Developed, Inquiry-Based Experiments to Investigate the Contributions of Ca and Mg to Water Hardness (EJ832507)
Author(s): Yang, Shui-Ping; Li, Chung-Chia
Source: Journal of Chemical Education, v86 n4 p506-513 Apr 2009
Pub Date: 2009-04-00
Pub Type(s): Journal Articles; Reports - Research
Peer-Reviewed: Yes
Descriptors:
Abstract:
Related Items: Show Related Items
Full-Text Availability Options:
Find in a Library
Designing Blended Inquiry Learning in a Laboratory Context: A Study of Incorporating Hands-On and Virtual Laboratories (EJ827952)



PubMed

http://www.pubmed.gov

- 19 million + citations
- Most from 1966 on but some citations date back to early 20th century
- Biomedical and life sciences
- Topics related to educating students for professions within these

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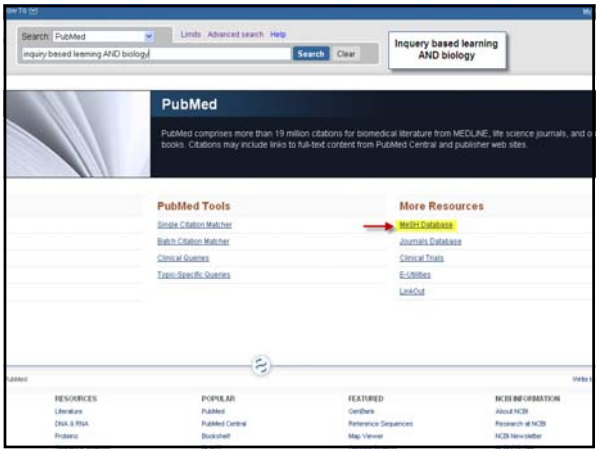
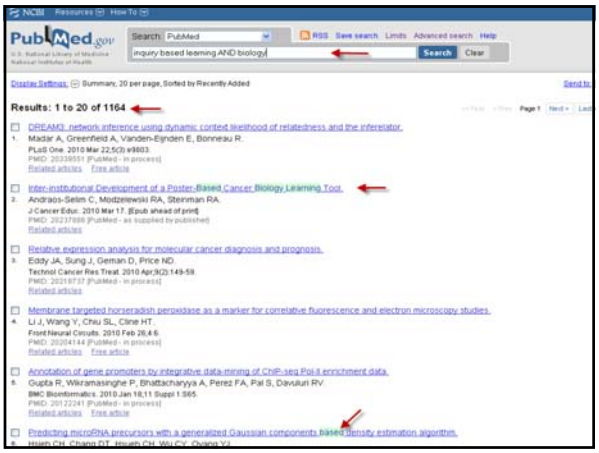
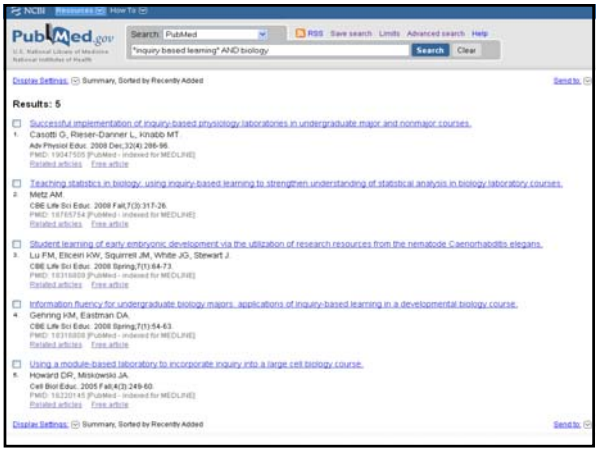



PubMed.gov
Search: PubMed
inquiry based learning AND biology
Search
Clear
Results: 1 to 20 of 1164
DREAM3: network inference using dynamic context likelihood of relatedness and the inferelator.
Inter-institutional Development of a Poster-Based Cancer Biology Learning Tool.
Relative expression analysis for molecular cancer diagnosis and prognosis.
Membrane targeted horseradish peroxidase as a marker for correlative fluorescence and electron microscopy studies.
Annotation of gene promoters by integrative data-mining of ChIP-seq Pol-II enrichment data.
Predicting microRNA precursors with a generalized Gaussian components based density estimation algorithm.


PubMed.gov
Search: PubMed
"inquiry based learning" AND biology
Search
Clear
Results: 5
Successful implementation of inquiry-based physiology laboratories in undergraduate major and nonmajor courses.
Teaching statistics in biology: using inquiry-based learning to strengthen understanding of statistical analysis in biology laboratory courses.
Student learning of early embryonic development via the utilization of research resources from the nematode Caenorhabditis elegans.
Information fluency for undergraduate biology majors: applications of inquiry-based learning in a developmental biology course.
Using a module-based laboratory to incorporate inquiry into a large cell biology course.

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A service of the National Library of Medicine and the National Institutes of Health
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Protein
Genome
Structure
OMIM
PMC
Journals
Books
inquiry
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Clear
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Limits
Preview/Index
History
Clipboard
Details
Display
Full
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Send to
All: 1
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Select PubMed under the Links menu to retrieve all records for the MeSH Term.
Select NLM MeSH Browser under the Links menu for additional information.
1: Research
Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for allowable combinations.
chemistry
classification
economics
education
history
instrumentation
legislation and jurisprudence
manpower
methods
standards
statistics and numerical data
supply and distribution
therapeutic use
trends
utilization
Restrict Search to Major Topic headings only.
Do Not Explode this term (i.e., do not include MeSH terms found below this term in the MeSH tree).
Entry Terms:
Research Methodology
Methodology, Research
Research Priorities

MeSH
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PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books
for active learning
Go Clear Save Search
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Display Full Show 20 Send to
All: 1
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Select NLM MeSH Browser under the Links menu for additional information.
1: Problem-Based Learning
Instructional use of examples or cases to teach using problem-solving skills and critical thinking.
Year introduced: 1995
Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for allowable combinations.
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Entry Terms:
Learning, Problem-Based
Problem-Based Learning
Curriculum, Problem-Based
Curriculum, Problem Based
Problem-Based Curriculum
Problem-Based Curricula
Curricula, Problem-Based
Problem Based Curricula

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for biology
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"research"[Mesh] AND "Problem-Based Learning"[Mesh]
Building a search through MeSH (PubMed's thesaurus)
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Clipboard
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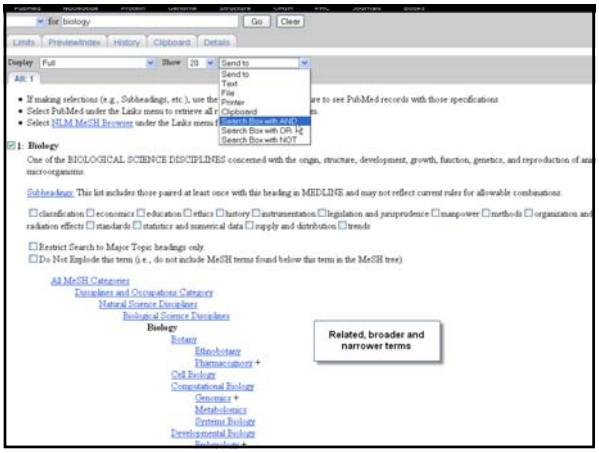
Search Box with OR
Search Box with NOT
All: 1
1: Problem-Based Learning
Instructional use of examples or cases to teach using problem-solving skills and critical thinking.
Year introduced: 1995
Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for allowable combinations.
Restrict Search to Major Topic headings only.
Do Not Explode this term (i.e., do not include MeSH terms found below this term in the MeSH tree).
Entry Terms:
Learning, Problem-Based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All: 1
1: Biology
Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for allowable combinations.
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All MeSH Categories
Disciplines and Occupations Category
Natural Science Disciplines
Biological Science Disciplines
Biology
Botany
Ethnobotany
Pharmacognosy +
Cell Biology
Computational Biology
Genomics +
Metabolomics
Systems Biology
Developmental Biology
Related, broader and narrower terms

Google Scholar
http://scholar.google.com

- In the beginning, mostly science and technology now more social science and some humanities
- Sources uncertain--Elsevier e.g, JStor and open access journals
- Large database, good for cross disciplinary searches
- Some citation analysis

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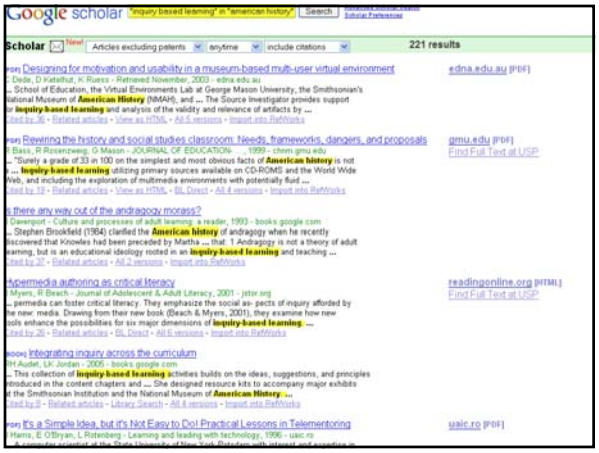

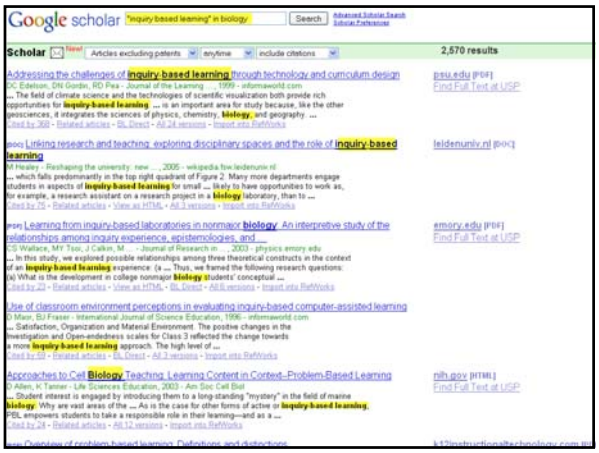
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Learning from inquiry-based laboratories in nonmajor biology: An interpretive study of the relationships among inquiry experience, epistemologies, and ...
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Use of classroom environment perceptions in evaluating inquiry-based computer-assisted learning
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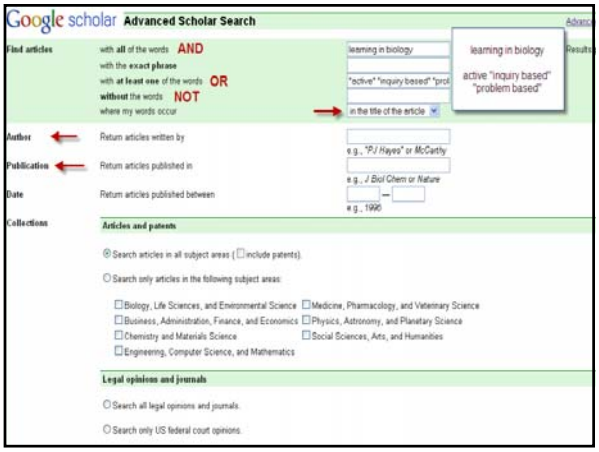
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OR
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NOT
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active "inquiry based" "problem based"
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Chemistry and Materials Science
Social Sciences, Arts, and Humanities
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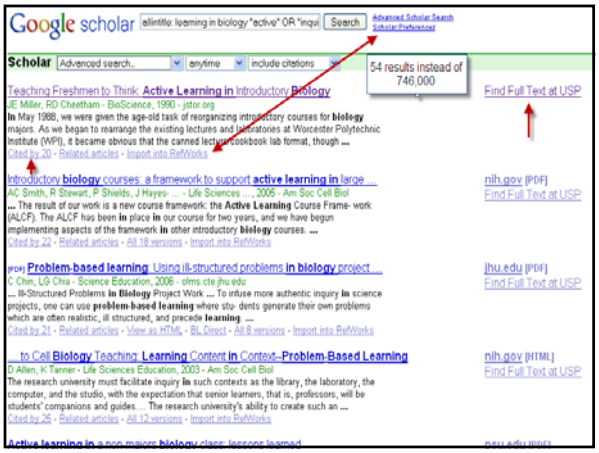
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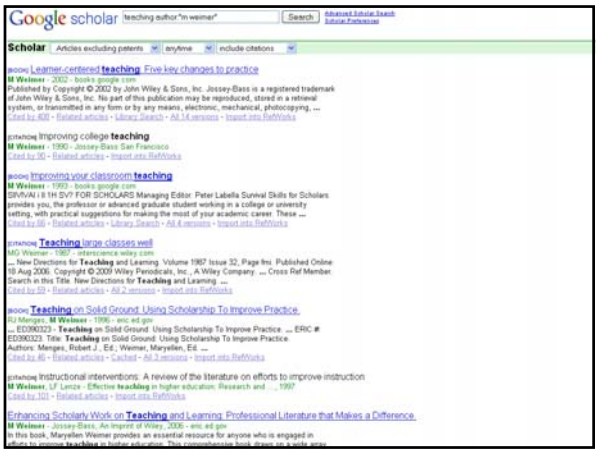

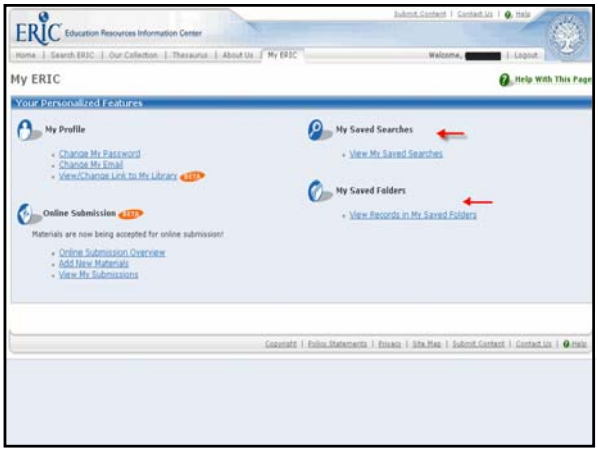

Personalization

- MyERIC, MyNCBI, “Tools”
- Registration
  - Table of Contents alerts via e-mail
  - Saved searches via e-mail or stored
  - Saved citations
  - RSS feeds

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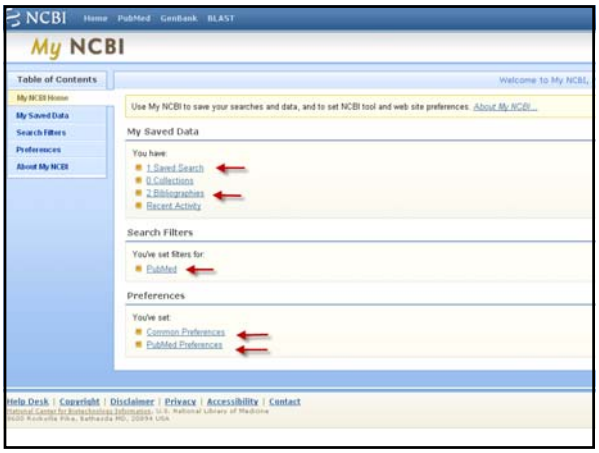
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You have:
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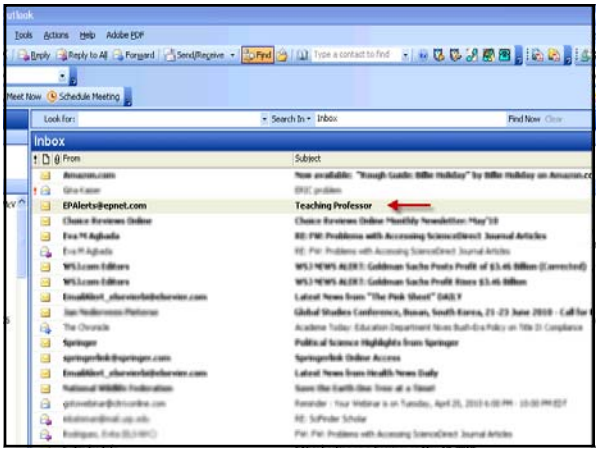
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Meet Now Schedule Meeting
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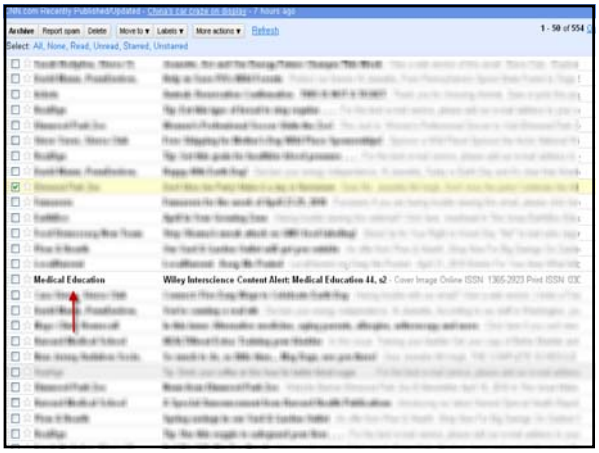
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Early View (Articles Available Online in Advance of Print)
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Editorial
Editorial
Abstract
Published Online: 20 Apr 2010
DOI 10.1111/j.1365-2923.2010.03701.x
Oral presentations
1-52
Oral presentations
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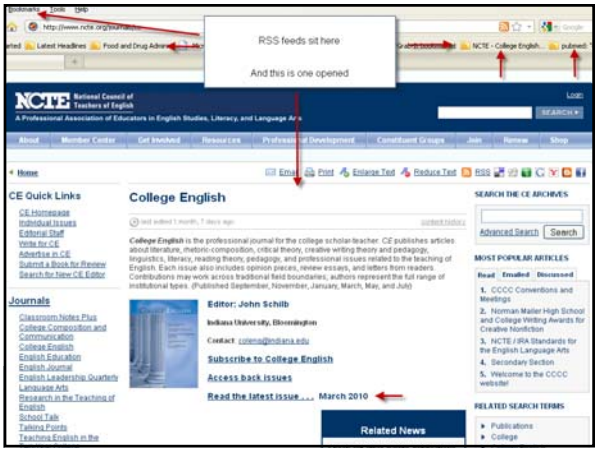
Published Online: 20 Apr 2010
DOI 10.1111/j.1365-2923.2010.03702.x
Workshops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