

# MATERIALS

- Step 01
- Step 02



# ANNOUNCEMENTS

- Genome Science Camp
- College credit interest meeting after school today
  - Presentation on SUNY Albany's UHS Program
  - Intro to SUNY Albany's UHS website and resources
  - Informational Q&A – BRING YOUR QUESTIONS
  - Help with STEPS and finding PRJAs



## CW - HW

- Use the skills you learned today to find a journal article that best fits your topic of interest.
- It must be printed out and you must have it with you for the future classes.
- If you already have one then look for a second one using the references of the first one.



# HOW DO I SEARCH FOR A PEER REVIEWED JOURNAL ARTICLE?

Mr. M. Gonzalez

# OBJECTIVES

- I can efficiently use internet search engines for my literature review.
- I can use various on-line databases to find journal articles related to my topic of interest.



# WHAT'S YOUR TOPIC?

- In your Step 01s you chose a topic of interest
- You then listed key words in Step 01



## Step 01. Choosing a Research Topic

Mr. M. Gonzalez

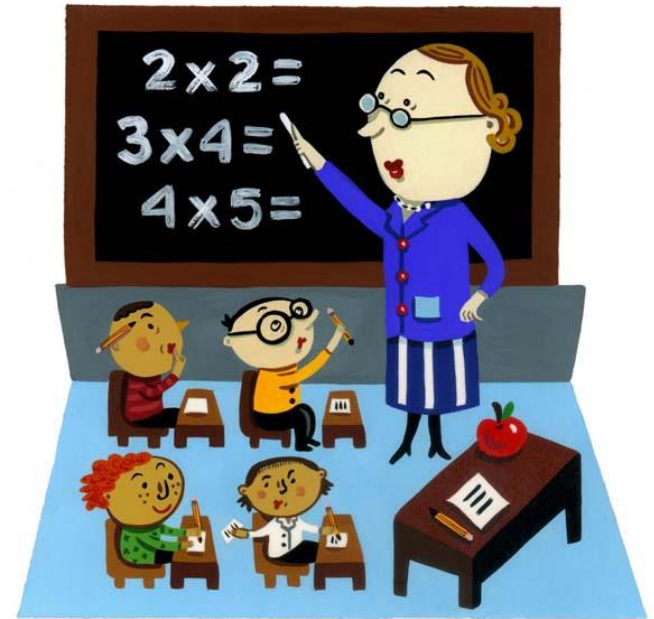
Student's name: \_\_\_\_\_ Date: \_\_\_\_\_ Grade: \_\_\_\_\_

**Directions.** Which area(s) would you like to research? (Check off your top 3 choices) If you choose a topic that is not on the sheet below you must be able to defend it when we meet. Answer the questions on the other side of this sheet completely. The more complete your responses the faster your approval will be.



# WHAT'S YOUR TOPIC?

- *For this class I will choose the following Scientific Problem:*
  - What are the levels of CO<sub>2</sub> in a NYC public school classroom?



How do I search for a journal article?



# CHECK STEP 01 KEY WORDS

I. Explain your research area of interest and why you want to pursue it?

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II. Make lists of key words by topic and read more about them by using a search engine (*i.e.* google).

CO2	Sources	
Indoor	Outdoor	Natural
Levels	Danger	symptoms
Classroom		

III. After reading about your most interesting topic write down specific questions that come to your mind.

1. 

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2. 

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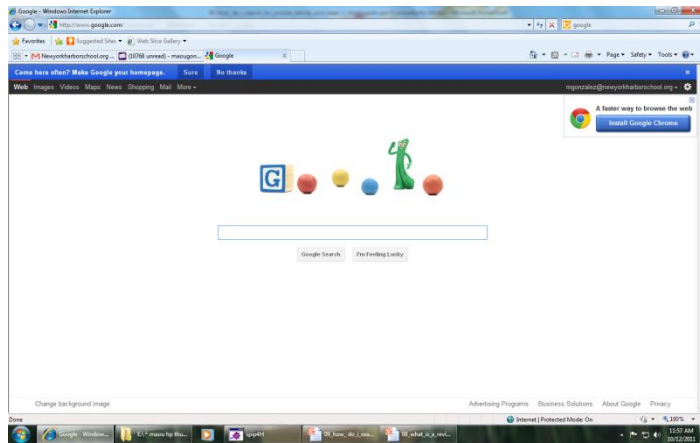
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- Key word box on the back of Step 01.
- These words are vital for next step.

How do I search for a journal article?

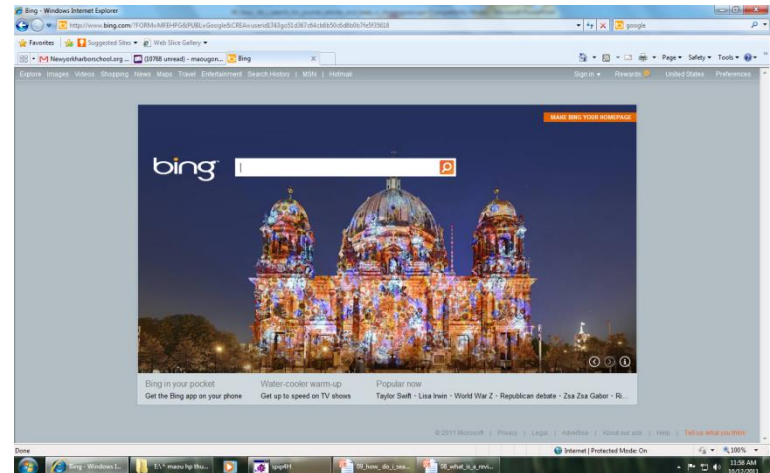


# PICK A SEARCH ENGINE



○ Google

○ Bing



How do I search for a journal article?



# MIX AND MATCH KEY WORDS FROM STEP 01

MAKE BING YOUR HOMEPAGE

bing

CO2 indoor level

How do I search for a job?

II. Make lists of key words by topic and read more about them by using a search engine (i.e. google).

CO2 Sources

Indoor Outdoor Natural

Levels Danger symptoms

Classroom

# KEEP TRACK OF YOUR QUERIES IN STEP 2

Name:

Grade:

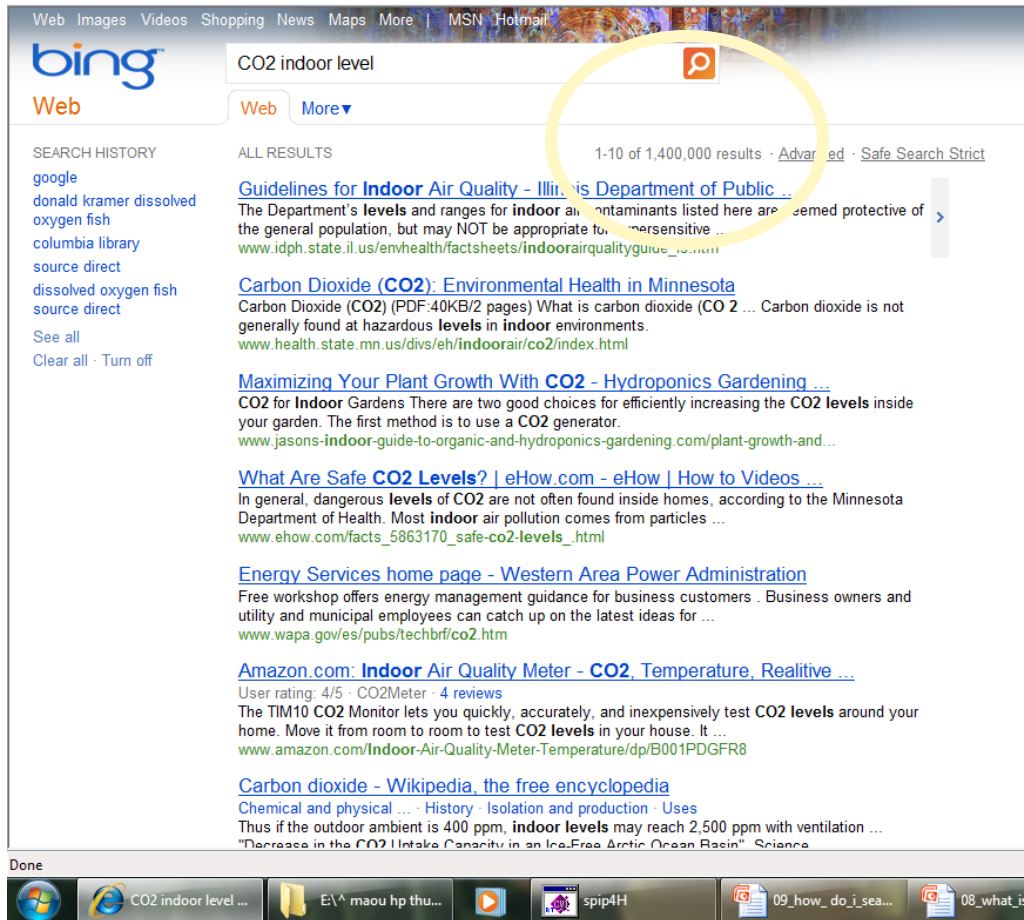
Date:

V. Internet Search Queries: Complete one row for each search.

Search Engine Used:		Search Query:
Google	Bing	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	CO2 Indoor Level
<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	

How do I search for a journal article?

# I GOT 1,400,000 RESULTS!

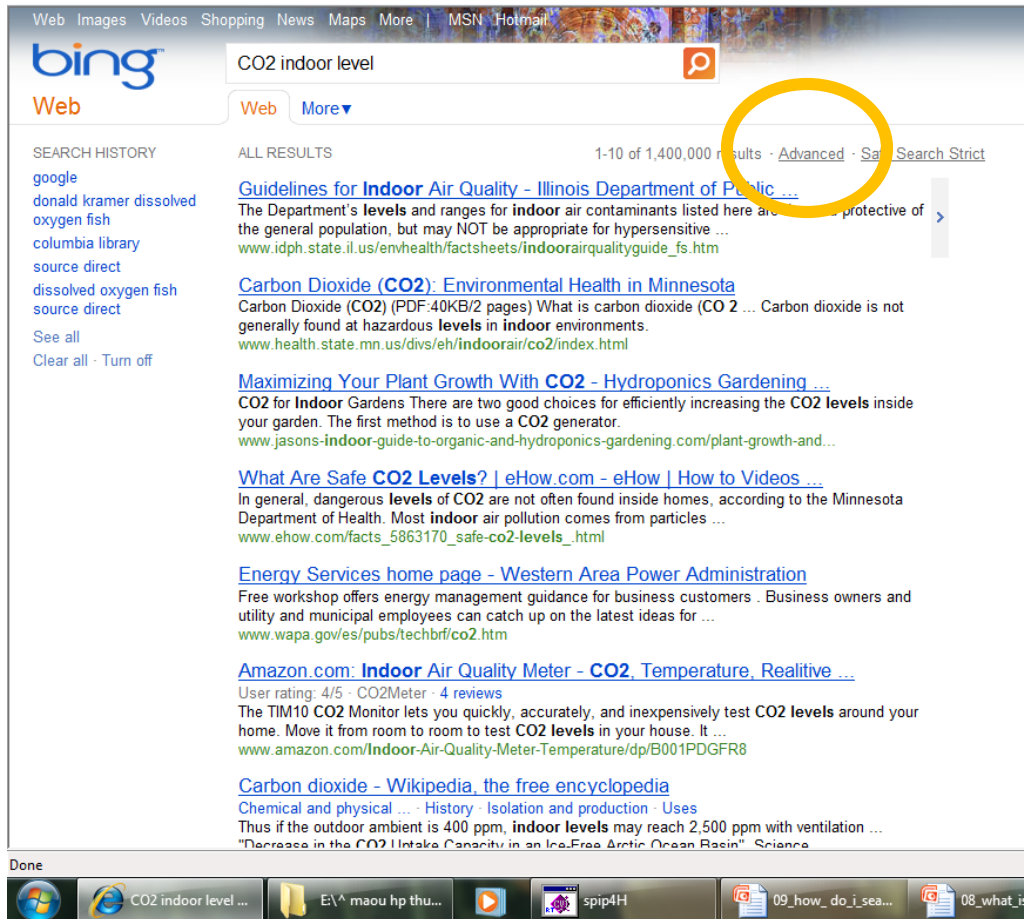


- How do you know you got good sites?
- What are good sites?
- How can you narrow your search for better results?

How do I search for a journal article?



# I GOT 1,400,000 RESULTS!



○ Good sites include:

- .org
- .gov
- .edu

○ Use the advanced tab to get results from these sites.

How do I search for a journal article?



# ADVANCED TAB



The screenshot shows the Google Advanced Search interface. At the top, there's a title bar 'Advanced search' with a close button 'x'. Below it, four tabs are visible: 'Search terms', 'Site/Domain', 'Country/Region', and 'Language'. The 'Site/Domain' tab is selected. Under this tab, there are two radio button options. The first option, 'Look for results only in the following site or domain.', is unselected. The second option, 'Don't look for results in the following site or domain.', is selected and circled in yellow. Below these options is a text input field containing 'com', which is also circled in yellow. To the right of the input field is a button labeled 'Add to search'. Below the input field, there is a descriptive text: 'Limits your search to a specific site (like microsoft.com), to a root domain (like .edu, .com, .net, or .gov), or to a country-specific domain (like .ca, .co.uk, or .de). [Get more search tips.](#)' At the bottom of the interface, there is a status bar showing 'ALL RESULTS' on the left, and '1-10 of 1,400,000 results · [Advanced](#) · [Safe Search Strict](#)' on the right.

Advanced search x

[Search terms](#) | [Site/Domain](#) | [Country/Region](#) | [Language](#)

☐ Look for results only in the following site or domain.

☒ Don't look for results in the following site or domain.

com Add to search

Limits your search to a specific site (like microsoft.com), to a root domain (like .edu, .com, .net, or .gov), or to a country-specific domain (like .ca, .co.uk, or .de). [Get more search tips.](#)

ALL RESULTS 1-10 of 1,400,000 results · [Advanced](#) · [Safe Search Strict](#)

- There are 4 choices: Search Terms, Site/Domain, Country/Region, and Language.

# NARROW DOWN YOUR SEARCH

- This brought my search down to 177,000 sites!

How do I search for a journal article?

**Advanced search** x

[Search terms](#) | [Site/Domain](#) | [Country/Region](#) | [Language](#)

☒ Look for results only in the following site or domain. ☐ Don't look for results in the following site or domain.

Add to search

Limits your search to a specific site (like microsoft.com), to a root domain (like .edu, .com, .net, or .gov), or to a country-specific domain (like .ca, .co.uk, or .de). [Get more search tips.](#)

ALL RESULTS

1-10 of 177,000 results · [Advanced](#) · [Safe Search Strict](#)

# NARROW BY PDFs

Advanced search x

[Search terms](#) | [Site/Domain](#) | [Country/Region](#) | [Language](#)

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Look for results that meet the following criteria:

All of these terms ▼ Add to search

You can add words or phrases one at a time. [Get more search tips.](#)

ALL RESULTS 1-10 of 75,200 results · [Advanced](#) · [Safe Search Strict](#)

- Journal articles are often found as PDFs so you can narrow your search this way.

article?



# ALL THE OPTIONS ARE OR LEAD TO PDFs

## SUMMARY OF ASHRAE'S POSITION ON CARBON DIOXIDE (CO<sub>2</sub>) LEVELS IN ...

SUMMARY OF ASHRAE'S POSITION ON CARBON DIOXIDE (CO<sub>2</sub>) LEVELS IN SPACES ...  
background CO<sub>2</sub> levels are closer to 400 ppm than 300 ppm resulting in an indoor level of ...  
[www.eesinc.cc/downloads/CO2positionpaper.pdf](http://www.eesinc.cc/downloads/CO2positionpaper.pdf) · PDF file



## Carbon Dioxide (CO<sub>2</sub>): Environmental Health in Minnesota

Carbon Dioxide (CO<sub>2</sub>) (PDF:40KB/2 pages) What is carbon ... The level of CO<sub>2</sub> indoors depends upon: the number of ... become a commonly used as a screening test of indoor air ...  
[www.health.state.mn.us/divs/eh/indoorair/co2/index.html](http://www.health.state.mn.us/divs/eh/indoorair/co2/index.html)

## Guidelines for Indoor Air Quality - Illinois Department of Public ...

Indoor Air Quality . Awareness of indoor air quality issues continues to ... adequate volumes of fresh outdoor air are being introduced into indoor air. The outdoor level of ...  
[www.idph.state.il.us/envhealth/factsheets/indoorairqualityguide\\_fs.htm](http://www.idph.state.il.us/envhealth/factsheets/indoorairqualityguide_fs.htm)



# FIRST SOURCE MAY NOT BE A JOURNAL ARTICLE BUT...

## **SUMMARY OF ASHRAE'S POSITION ON CARBON DIOXIDE (CO<sub>2</sub>) LEVELS IN SPACES**

**Stephen Petty, P.E., C.I.H.**

### **Purpose of the Summary Statement:**

It is widely reported by the technical community involved in indoor air evaluations that the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) has a standard of 1,000 ppm CO<sub>2</sub> for indoor spaces. The Standard often cited is ANSI/ASHRAE 62-1989 "Ventilation for Acceptable Indoor Air Quality" (which has since been replaced by ANSI/ASHRAE 62-1999). However, this interpretation is incorrect.



## ...IF YOU READ AND SUMMARIZE...

### Background:

One of the best papers addressing this issue was prepared by Mike Schell and Dan Int-Hout entitled "Demand Control Ventilation Using CO<sub>2</sub>" published in the February, 2001, ASHRAE Journal (copy attached as Attachment A). This article points out that CO<sub>2</sub> has long been used as a basis for ventilation (providing fresh outdoor air to indoor spaces) design and control. CO<sub>2</sub> is a natural product of human respiration whose rate can be predicted based on an occupant's age and activity level. Beginning as early as 1916 (*Mechanical Engineer's Handbook* by McGraw-Hill) and found in the New York City Building Code of 1929 CO<sub>2</sub> of 800 to 1 000 ppm and 1 000 ppm respectively were

article?

- You'll run into many interesting leads.



# COPY + PASTE

## Background:

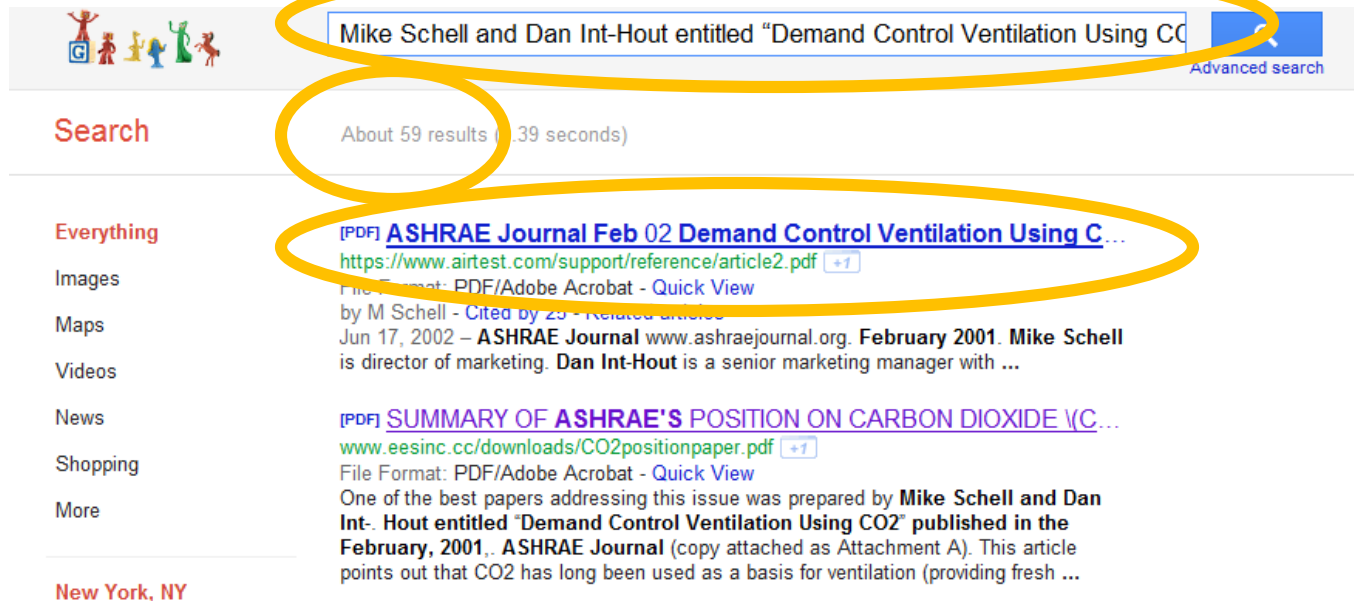
One of the best papers addressing this issue was prepared by Mike Schell and Dan Int-Hout entitled “Demand Control Ventilation Using CO<sub>2</sub>” published in the February, 2001, ASHRAE Journal (copy attached as Attachment A). This article points out that CO<sub>2</sub> has long been used as a basis for ventilation (providing fresh outdoor air to indoor spaces) design and control. CO<sub>2</sub> is a natural product of human respiration whose rate can be predicted based on an occupant’s age and activity level. Beginning as early as

- PDFs are useful in that you can copy information to paste in a new search query.



# NEW SEARCH QUERY

- This time I went to Google.com and...!



The screenshot shows a Google search interface. The search bar at the top contains the text "Mike Schell and Dan Int-Hout entitled 'Demand Control Ventilation Using CO2'". Below the search bar, the results are displayed. The first result is a PDF document titled "ASHRAE Journal Feb 02 Demand Control Ventilation Using C...". The URL is "https://www.airtest.com/support/reference/article2.pdf". The file format is "PDF/Adobe Acrobat - Quick View". The author is "by M Schell - Cited by 25 - Related articles". The date is "Jun 17, 2002". The publication is "ASHRAE Journal www.ashraejournal.org. February 2001. Mike Schell is director of marketing. Dan Int-Hout is a senior marketing manager with ...". The second result is a PDF document titled "SUMMARY OF ASHRAE'S POSITION ON CARBON DIOXIDE (C...". The URL is "www.eesinc.cc/downloads/CO2positionpaper.pdf". The file format is "PDF/Adobe Acrobat - Quick View". The text describes the article as "One of the best papers addressing this issue was prepared by Mike Schell and Dan Int-Hout entitled 'Demand Control Ventilation Using CO2' published in the February, 2001, ASHRAE Journal (copy attached as Attachment A). This article points out that CO2 has long been used as a basis for ventilation (providing fresh ...".

Search

About 59 results (0.39 seconds)

Everything

Images

Maps

Videos

News

Shopping


More

New York, NY

How do I search for a journal article?



# HERE'S YOUR FIRST JOURNAL ARTICLE.

ASHRAE Journal

Ventilation

## Demand Control Ventilation Using CO<sub>2</sub>

By **Mike Schell** and **Dan Inthout**  
Member ASHRAE      Member ASHRAE

**C**arbon dioxide (CO<sub>2</sub>)-based demand controlled ventilation (DCV) is increasingly used to modulate outside air ventilation based on real-time occupancy. Its use could potentially become as common as thermostatic control is today. This article summarizes the current state of the art in CO<sub>2</sub>-based ventilation control including a brief discussion of the technology used, its reliability and how it is best applied. Like any control approach, the success of a CO<sub>2</sub>-based DCV application is dependent on how it is engineered and installed.

Properly installed, CO<sub>2</sub> DCV can reduce unnecessary over-ventilation that might result if air intakes are set to provide ven-

suming outside levels of 400 ppm. Each line represents how CO<sub>2</sub> concentrations would rise depending on the ventilation rate per person. The point at which concentrations level off represents the equilibrium point where the CO<sub>2</sub> produced by people is in balance with the dilution rate to the space. These balance points are universal to all occupant densities for spaces occupied by adults in an office-type activity level (1.2 met [70 W/m<sup>2</sup>]). The balance point that occurs is relative or additive to the outdoor concentration.

Any ventilation rate established on a per-person basis will have a corresponding equilibrium point that can serve as an anchor for a ventilation control strategy using CO<sub>2</sub>-based DCV. This does not

[//www.airstest.com/support/reference/article2.pdf](http://www.airstest.com/support/reference/article2.pdf)

Unknown Zone | Protected

How do I search for a journal article?



# REFERENCES FOR MORE ARTICLES.

ing.

System paybacks can range from a few months to two years and are often substantial enough to help pay for other system or building upgrades.

- The payback from CO<sub>2</sub> DCV will be greatest in higher density spaces that are subject to variable or intermittent occupancy that would have normally used a fixed ventilation strategy (e.g., theaters, schools, retail establishments, meeting and conference areas).
- In spaces with more static occupancies (e.g., offices), CO<sub>2</sub> DCV can provide control and verification that adequate ventilation is provided to all spaces. For example, a building operator may arbitrarily and accidentally establish a fixed air intake damper position that results in over or under ventila-

## References

1. Keeling, C.D. and T.P. Whorf. "Atmospheric carbon dioxide record for Mauna Loa, Hawaii 1958-1998." Scripps Institution of Oceanography, University of California.
2. ANSI/ASHRAE Standard 62-1999, *Ventilation for Acceptable Indoor Air Quality*.
3. Marks, L.S., ed. 1916. *Mechanical Engineers Handbook*. McGraw-Hill Book Company.
4. 1929. New York City Building Code, City of New York N.Y.
5. ANSI/ASHRAE Standard 62-1999, *Ventilation for Acceptable Indoor Air Quality*.
6. ASHRAE. 1997. Interpretation IC 62-1989-27 for ASHRAE Standard 62-1989.

February 2001

ASHRAE Journal

5

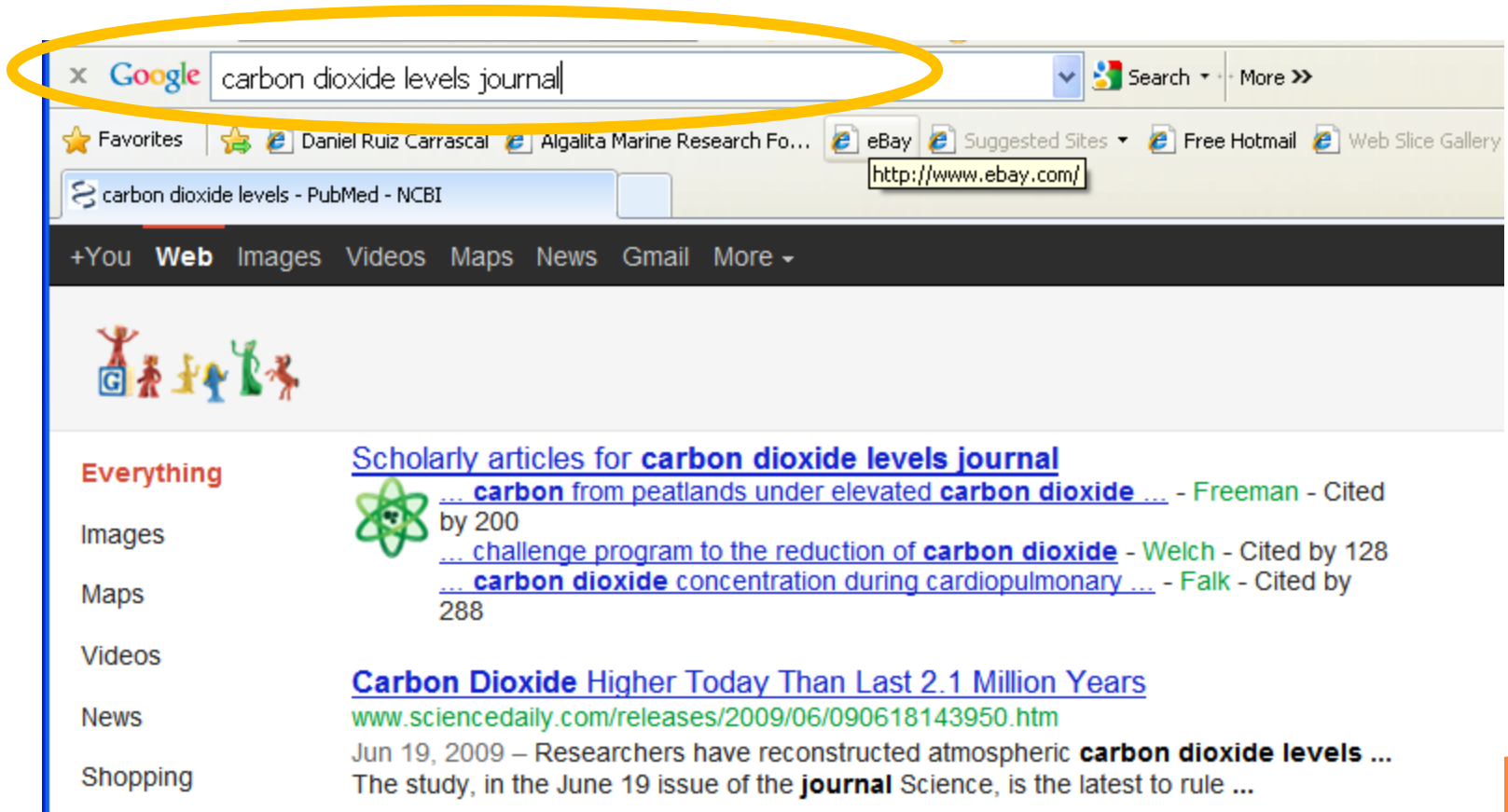
## ASHRAE Journal

7. Schell, M.B., S.C. Tumer, R.O. Shim. 1998. "Application of CO<sub>2</sub>-based demand controlled ventilation using ASHRAE Standard 62-1989: optimizing energy use and ventilation." *ASHRAE Transactions* 104(2):1213-1225.
8. 1989. International Mechanical Code.
9. 1989. Commentary to the International Mechanical Code.
10. Emmerich S.J., A.K. Persily 1997. "A literature review on CO<sub>2</sub>-based demand controlled ventilation." *ASHRAE Transactions* 103(2):229-243. ●

How do I search for a journal article?



# PERFORM MORE QUERIES WITH DIFFERENT KEY WORDS + “JOURNAL”



A screenshot of a Google search interface. The search bar at the top contains the text "carbon dioxide levels journal" and is highlighted with a yellow oval. Below the search bar, there are several tabs: "Favorites", "Daniel Ruiz Carrascal", "Algalita Marine Research Fo...", "eBay", "Suggested Sites", "Free Hotmail", and "Web Slice Gallery". The "eBay" tab is active, showing a URL "http://www.ebay.com/". Below the tabs, there is a navigation bar with links: "+You", "Web", "Images", "Videos", "Maps", "News", "Gmail", and "More". The main content area shows search results for "carbon dioxide levels journal". The first result is titled "Scholarly articles for carbon dioxide levels journal" and lists three articles: "... carbon from peatlands under elevated carbon dioxide ..." by Freeman, "... challenge program to the reduction of carbon dioxide ..." by Welch, and "... carbon dioxide concentration during cardiopulmonary ..." by Falk. The second result is titled "Carbon Dioxide Higher Today Than Last 2.1 Million Years" and includes a link to a ScienceDaily article from June 19, 2009.

Google carbon dioxide levels journal

Search More >>

Favorites Daniel Ruiz Carrascal Algalita Marine Research Fo... eBay Suggested Sites Free Hotmail Web Slice Gallery

carbon dioxide levels - PubMed - NCBI

http://www.ebay.com/

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Scholarly articles for carbon dioxide levels journal

... carbon from peatlands under elevated carbon dioxide ... - Freeman - Cited by 200

... challenge program to the reduction of carbon dioxide - Welch - Cited by 128

... carbon dioxide concentration during cardiopulmonary ... - Falk - Cited by 288

Carbon Dioxide Higher Today Than Last 2.1 Million Years

www.sciencedaily.com/releases/2009/06/090618143950.htm

Jun 19, 2009 – Researchers have reconstructed atmospheric carbon dioxide levels ... The study, in the June 19 issue of the journal Science, is the latest to rule ...

How do I search for a journal article?



# YOU MAY END UP ON A PAGE THAT ASKS YOU TO PAY.

The screenshot shows a Windows Internet Explorer browser window displaying a ScienceDirect article page. The address bar shows the URL: <http://www.sciencedirect.com/science/article/pii/S0045653599003963>. The page title is "ScienceDirect - Chemosphere : Indoor and outdoor air quality investigation at schools in Hong K".

The page features a search bar with the text "carbon dioxide 'indoor levels' journal" and a "Search" button. Below the search bar, there are links for "Register", "Login", and "Go to SciVal Suite". A message states: "You have **Guest** access to ScienceDirect. Find out more..."

The main content area displays the article title "Indoor and outdoor air quality investigation at schools in Hong K" and the journal information "Chemosphere, Volume 41, Issues 1-2, July 2000, Pages 109-113". The article is marked as "Cited By in Scopus (76)". A "Purchase" button is visible, indicating that the full article is behind a paywall.

The page also includes a "Related Articles" section with links to other articles, such as "Indoor and outdoor air quality investigation at 14 publ...", "Valuing the health benefits of improving indoor air qua...", "Building calibration for IAQ management", and "Indoor air quality at nine shopping malls in Hong Kong".

# YOU MAY END UP ON A PAGE THAT ASKS YOU TO PAY.

ScienceDirect - Chemosphere : Indoor and outdoor air quality investigation at schools in Hong K - Windows Internet Explorer pro

http://www.sciencedirect.com/science/article/pii/S0045653599003963

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ScienceDirect - Chemosphere : Indoor and outdoor air...

Abstract Article Figures/Tables References

Chemosphere  
Volume 41, Issues 1-2, July 2000, Pages 109-113

doi:10.1016/S0045-6535(99)00396-3 | How to Cite or Link Using DOI

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**Indoor and outdoor air quality investigation at schools in Hong Kong**

S.C. Lee, M. Chang

Environmental Engineering Unit, Department of Civil and Structural Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong SAR, People's Republic of China

Available online 13 March 2000.

**Abstract**

Five classrooms in Hong Kong (HK), air-conditioned or ceiling fans ventilated, were chosen for investigation of indoor and outdoor air quality. Parameters such as temperature, relative humidity (RH), carbon dioxide (CO<sub>2</sub>), sulphur dioxide (SO<sub>2</sub>), nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>), respirable particulate matter (PM<sub>10</sub>), formaldehyde (HCHO), and total bacteria counts were monitored indoors and outdoors simultaneously. The average respirable particulate matter concentrations were higher than the HK Objective, and the maximum indoor PM<sub>10</sub> level exceeded 1000 µg/m<sup>3</sup>. Indoor CO<sub>2</sub> concentrations often exceeded 1000 µl/l in air-conditioning and ceiling fan classrooms, indicating inadequate ventilation. Maximum indoor CO<sub>2</sub> level reached 5900 µl/l during class at the classroom with cooling tower ventilation. Increasing the rate of ventilation or implementation of breaks between classes is recommended to alleviate the high CO<sub>2</sub> level. Other pollution parameters measured in this study complied with the standards. The two most important classroom air quality problems in Hong

Cited By in Scopus (76)

Purchase

**Related Articles**

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- Hong Kong: Particulate Air Pollution and Health Impacts  
*Encyclopedia of Environmental Health*
- Indoor Air Quality in Industrial Nations  
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- AIR ANALYSIS | Outdoor Air  
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- Measurement of Air Pollutants  
*Encyclopedia of Environmental Health*

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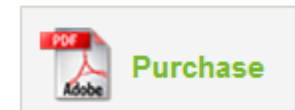
start (10779 unread) - ma... ScienceDirect - Chem... F:\^ mauu hp thumb... Microsoft PowerPoint ... 10:14 PM

# READ THE ABSTRACT

## Indoor and outdoor air quality investigation at schools in Hong Kong

S.C Lee  , M Chang

Environmental Engineering Unit, Department of Civil and Structural Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong SAR, People's Republic of China



Available online 13 March 2000.

### Abstract

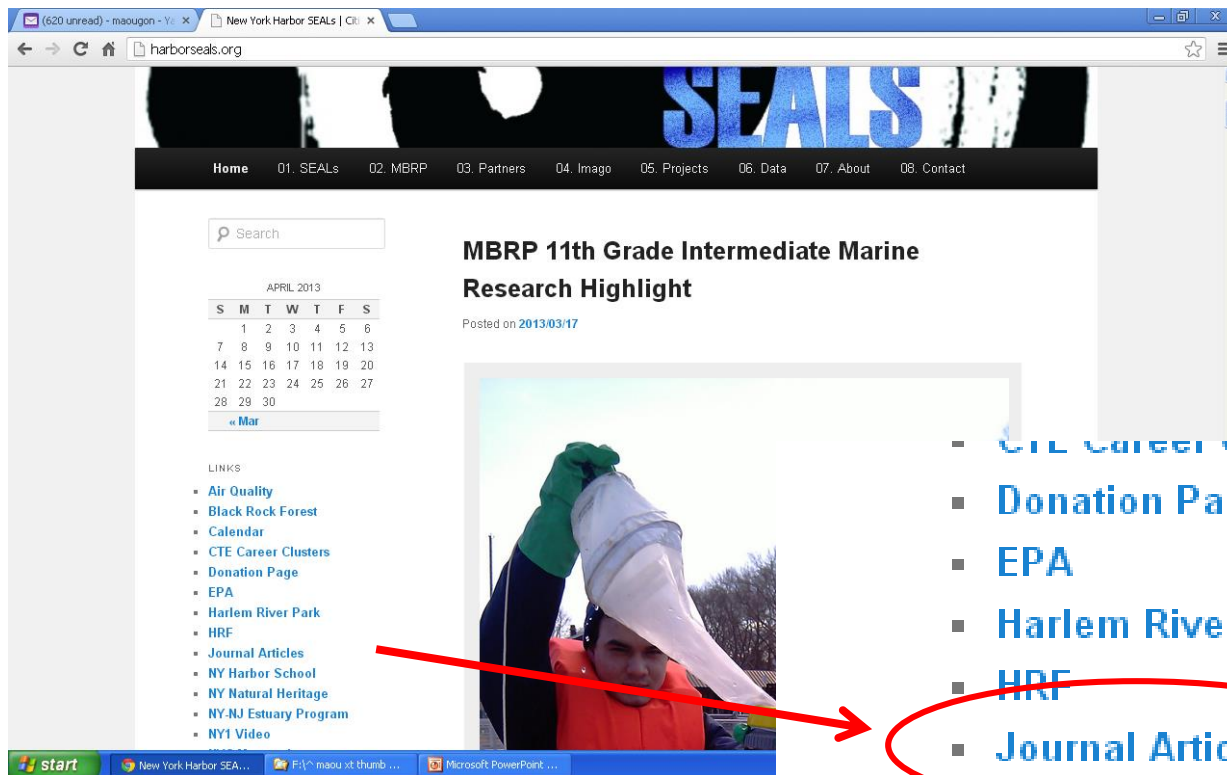
Five classrooms in Hong Kong (HK), air-conditioned or ceiling fans ventilated, were chosen for investigation of indoor and outdoor air quality. Parameters such as temperature, relative humidity (RH), carbon dioxide (CO<sub>2</sub>), sulphur dioxide (SO<sub>2</sub>), nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>), respirable particulate matter (PM<sub>10</sub>), formaldehyde (HCHO), and total bacteria counts were monitored indoors and outdoors simultaneously. The average respirable particulate matter concentrations were higher than the HK Objective, and the maximum indoor PM<sub>10</sub> level exceeded 1000 µg/m<sup>3</sup>. Indoor CO<sub>2</sub> concentrations often exceeded 1000 µl/l in air-conditioning and ceiling fan classrooms, indicating inadequate ventilation. Maximum indoor CO<sub>2</sub> level reached 5900 µl/l during class at the classroom with cooling tower ventilation. Increasing the rate of ventilation or implementation of breaks between classes is recommended to alleviate the high CO<sub>2</sub> level. Other pollution parameters measured in this study complied with the standards. The two most important classroom air quality problems in Hong Kong were PM<sub>10</sub> and CO<sub>2</sub> levels.

# DON'T BUY IT...

- Read summary.
- Determine with mentor/advisor or me if it's good.
- E-mail bibliography to me if your mentor cannot get it.



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MEPS Theme Sections

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► **Aquatic Biology (AB)**  
Forthcoming Publications  
Most recent issue: Vol. 18, No. 2  
AB Theme Sections

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**DISEASES OF AQUATIC ORGANISMS**  
► **Diseases of Aquatic Organisms (DAO)**  
Forthcoming Publications  
Most recent issue: Vol. 103, No. 3  
DAO Specials

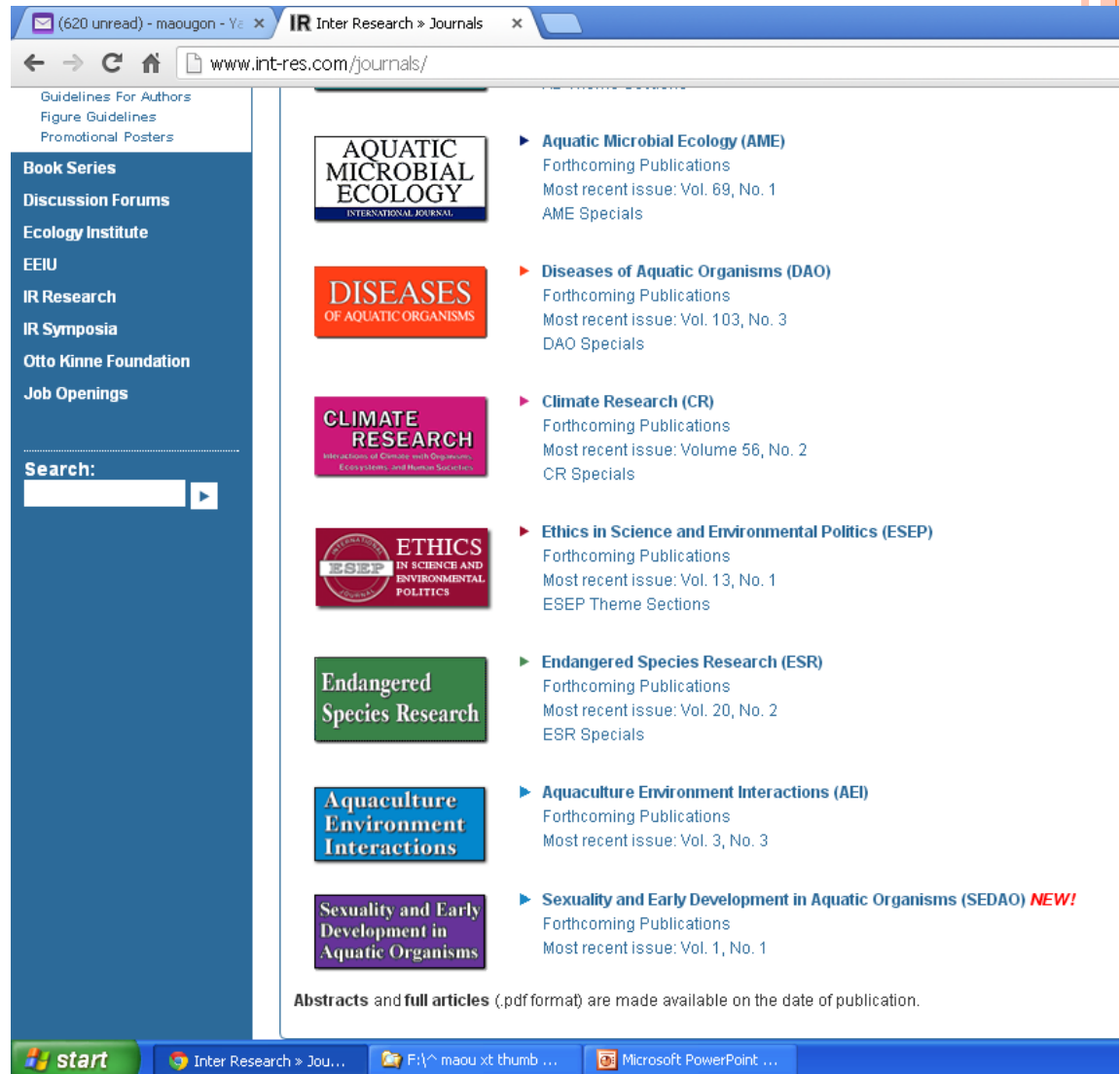
**CLIMATE RESEARCH**  
► **Climate Research (CR)**  
Forthcoming Publications  
Most recent issue: Volume 56, No. 2  
CR Specials

start | Inter Research > Jou... | F:\^ maou xt thumb ... | Microsoft PowerPoint ...

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SCIENCE  
CENTER —  
FREE  
PRJAs



# INTER- RESEARCH SCIENCE CENTER – FREE PRJAs



The screenshot shows a web browser window with the URL [www.int-res.com/journals/](http://www.int-res.com/journals/). The page features a blue sidebar on the left with navigation links: Guidelines For Authors, Figure Guidelines, Promotional Posters, Book Series, Discussion Forums, Ecology Institute, EEIU, IR Research, IR Symposia, Otto Kinne Foundation, and Job Openings. Below these links is a search bar with the text "Search:" and a play button icon. The main content area on the right lists several journals, each with a logo and a brief description. The journals listed are: Aquatic Microbial Ecology (AME), Diseases of Aquatic Organisms (DAO), Climate Research (CR), Ethics in Science and Environmental Politics (ESEP), Endangered Species Research, Aquaculture Environment Interactions, and Sexuality and Early Development in Aquatic Organisms (SEDAO). Each journal entry includes the text "Forthcoming Publications" and "Most recent issue: Vol. [number], No. [number]". The SEDAO entry is marked with a red "NEW!" label. At the bottom of the page, a note states: "Abstracts and full articles (.pdf format) are made available on the date of publication." The Windows taskbar at the bottom shows the Start button and several open applications: Inter Research » Jou..., F:\^ maou xt thumb ..., and Microsoft PowerPoint ...

IR Inter Research » Journals

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Abstracts and full articles (.pdf format) are made available on the date of publication.

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# JOURNAL ARTICLE SOURCES

- JSTOR.com
- <http://www.int-res.com/journals/>
- Google Scholar
- Grolier
- EBSCO
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## OTHER SEARCH SITES/PLACES

- [www.Science.gov](http://www.Science.gov)
- PubMed
- Online texts: [HTTP://WWW.SCRIBD.COM/](http://WWW.SCRIBD.COM/)
- Interlibrary Loan (ILL) – Ask the librarian to help you with this.
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# JOURNAL ARTICLE KEY



## GUIDELINE FOR SELECTION OF A RESEARCH PAPER FOR PRESENTATION (Excerpted from T. Danahy, Nanuet Senior High School)

Selecting an appropriate article for presentation can be a daunting task for a student new to research. While any Ph.D. level article can be presented, many articles are much harder to present than others. Literature review-type papers, while valuable for their multiple reference citations, are not suitable for a student presentation and should be avoided. We suggest choosing several research articles and applying the following key to help select the best one for presentation:

- Read the abstract.  
If the topic is of interest – continue.  
If not – stop – find another article.
- Find and read the hypothesis or statement of purpose of the article (usually in the last paragraph of the introduction).  
If it is well-defined and interesting – continue.  
If not – stop – find another article.
- Find and read the methodology section.  
If methods are spelled-out in clear detail – continue.  
If not – stop – find another article.
- Review the data presented.  
If good charts or graphs are presented or if data is neatly organized into tabular form – continue.  
If not – stop – find another article.
- Review the conclusion(s) (may be found in a 'conclusion' section or in the 'discussion' section).  
If the conclusion(s) relate to each hypothesis (either support or fails to support) – this paper could be used.  
If not – find another article.

If you really must speed up the selection process, find an adequate abstract, hypothesis, and conclusion before reading the entire article.



# HOW MANY PRJAS SHOULD YOU READ?


- 11<sup>th</sup> and 12<sup>th</sup> graders should read between 5 and 10 PRJAs for their projects.
- 10<sup>th</sup> graders will find at least 5 but choose one to read from beginning to end.



## 2 SUMMER COLLEGE CREDITS

- If you:
  - choose a topic,
  - read and summarize 5 PRJAs then...
- You may apply for **2** college credits





**KEEP IN MIND THAT ONE OF THE PURPOSES  
OF READING IS TO BECOME A HIGH SCHOOL  
*EXPERT* IN YOUR TOPIC!**

# HOW MANY PRJAS SHOULD YOU READ?

- Remember, success in college and career depends on how you challenge yourself.
- “Don’t live life like it’s a sprint, live it like it’s a marathon!”



## CW - HW

- AEM draft due first day of next school week
- 6 general articles printed out
- 1 PRJA that you like after reading several abstracts

