Online Learning Materials

• JoVE – Visualized experiments

 MERLOT - repository for online learning materials, digital case story repository, Open textbook etc.



JoVE (Journal of Visualized Experiments)

- A peer-reviewed scientific journal
- Publishes experimental methods in video format
- Publisher: MyJove Corp., Cambridge, MA
- Impact Factor: 1.108
- Focuses on creating two types of scientific videos
 - Video Journal peer reviewed video method journals
 - Science Education Library teaching fundamentals through video demonstrations

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Jove

JOVE VIDEO JOURNAL

Our peer-reviewed journal combines high-quality video demonstrations of experiments with a detailed text protocol, allowing researchers around the globe to learn from each other easily and efficiently. This saves a lot of their time, money and laboratory resources. The fields covered include: Biology, Neuroscience, Medicine, Bioengineering, Engineering, Genetics, Cancer Research, Immunology and Infection, Chemistry, Behavior, Environment, Developmental Biology, and Biochemistry.

Limited availability

Ve science education

Educators and students use our innovative video collections in the JoVE Science Education Library to better teach and learn key concepts and fundamental techniques at the undergraduate course level. These simple, easy-to-understand video demonstrations cover a wide range of STEM subjects including Biology, Chemistry, Environmental Science, Psychology, Clinical Medicine and Engineering.

Available and can be accessed using ISU Net-ID

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Features of JoVE

- PDF text files can be downloaded
- The video may be embedded on a website
- Video can be shared through Facebook, Twitter and Linkedin

College of Engineering

 Text can be translated to: Chinese, French, German, Japanese, and Spanish



Accessing JoVE

- Visit <u>https://www.jove.com/</u>
- Click LOG IN (top right corner)
- Choose Continue with Shibboleth

Sign Up

New to JoVE? Start your free trial

I Have a Trial Code.

Continue with Shibboleth

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Accessing JoVE

- Select Iowa State University as the institution
- Choose Okta to sign
- Login with ISU Net-IDClick Science Education at the top right corner for accessing video demonstration

College of Engineering

- Select Engineering
- Select your discipline
- Link to a short video showing the login steps

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MERLOT

- Access is free, but need to setup a user ID
- Includes discipline-specific learning materials and learning exercises
- Integrates a variety of material types: Animation, assessment tool, case study, presentations etc.
- Project began in 1997; Originally developed by California State Uni. Center for distributed learning
- Modelled after the NSF funded project, "Authoring Tools and An Educational Object Economy (EOE)

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DICIPLINE-SPECIFIC MATERIALS (Quantities)

- <u>Aerospace and Aeronautical Engineering</u> (273)
- Agricultural and Biological Engineering (57)
- Audio Engineering (5)
- Biomedical Engineering (61)
- Chemical Engineering (216)
- <u>Civil Engineering</u> (609)
- Computer Engineering (195)
- Electrical Engineering (1084)
- Engineering Science (25)

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DICIPLINE-SPECIFIC MATERIALS (Quantities)

- Environmental Engineering (159)
- Geological Engineering (254)
- Industrial and Systems (120)
- Manufacturing Engineering (97)
- Materials Science and Engineering (375)
- Mechanical Engineering (864)
- <u>Mining Engineering</u> (5)
- <u>Nuclear Engineering</u> (67)
- Ocean Engineering (14)
- Petroleum Engineering (20)

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The MERLOT system provides access to curated online learning and support materials and content creation tools, led by an international community of educators, learners and researchers.

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Search keywords, title, URL, ISBN, or author

Advanced Material Search | Advanced Member Search | ISBN Search

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College of Engineering

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