

## SUBJECT INDEX — VOLUME 4

*Journal of Women and Minorities in Science and Engineering*

Page Numbers for Issues:

**Issue 1**, 1–89; **Issues 2&3**, 91–320; **Issue 4**, 321–407

- African American
  - high school students
    - mathematics, achievement in, 141
    - science and mathematics, achievement in, 297
  - middle school students
    - science and mathematics, achievement in, 183
  - university students, calculus, 381
- American Indian
  - high school students, mathematics, achievement in, 141
- Asian
  - high school students
    - mathematics, achievement in, 141
    - science and mathematics, achievement in, 297
- Asian-American
  - engineering students, response bias in survey of, 1
- Australia
  - physics, high school students, achievement in, 113
- Computer science
  - programs in engineering colleges, 15
- Curriculum
  - algebra, college students, 269
- Education
  - science
    - elementary school girls, 235
    - English Language Learners, K–12, 341
    - instruction practices in urban middle school, 283
    - middle school, 321, 333
    - performance-based approach, 235
    - student achievement, 195
    - technology, teachers attitudes about, 249
- Elementary students
  - girls, attitudes about science, 235
  - science assessments of, gender and racial/ethnic differences, 129
  - science education of, English Language Learners, 341
- Employment
  - faculty in the sciences, 357

## Engineering

- Asian-American undergraduate students, 1
- Spatial Visualization Skill Training, effects on gender and retention, 371

## Equity

- curriculum development and, 269
- conditional equity metrics, 141
- metric, 91
- public policy and, 309
- physics education and, Australian high school students, 113
- mathematics education and, 91
- science education and, 91, 195
- statewide systemic initiatives, evaluation of, 161
- systemic reform, assessment of progress, 91

## Faculty in sciences, 397

## Gender

- American women scientists, 43
- differences in science assessments, 129
- issues, academic women in biology, 69
- faculty in sciences, 397
- science assessments and, 129
- Spatial Visualization Skill Training in engineering and, 371

## Hawaii

- Algebra Learning Project, 269

## High school students

- mathematics, achievement in, 141, 297
- science, achievement in
  - African-American, 195, 297
  - Anglo-European, 195, 297
  - Asian, 195, 297
  - Hispanic, 195, 297
- science education, English Language Learners, 341

## Hispanic

- high school students
  - mathematics, achievement in, 141, 297
  - science, achievement in, 195, 297
- undergraduates, calculus, 381

## Mathematics

- African-American high school students, achievement in, 141, 297
- algebra, university students, 269
- Asian high school students, achievement in, 141, 297
- calculus, university students, 381
- Hispanic high school students, achievement in, 141
- equity, systemic reform in, 91

## Middle school students

- science, achievement in
  - African-American, 183, 217

- White female, 217
- White male, 217
- science education
  - English Language Learners, 341
  - girls, 321
  - perceptions of instruction, peer interest, adult support, 333
- Physics
  - university students, confidence in, 27
  - high school students, achievement in, 113
- Science
  - achievement in, measured by omitted test data, 183
  - assessments, gender and racial/ethnic differences on, 129
  - education, middle school girls, 321
  - education, K–12, English Language Learners, 341
  - high school students, achievement in,
    - African-American, 297
    - Asian, 297
    - Hispanic, 297
  - middle school students, achievement in,
    - African-American, 183, 217
    - White female, 217
    - White male, 217
  - middle school students, perceptions of instruction, peer interest, adult support, 333
  - American women scientists, 43
  - attitudes about, elementary school girls, 235
  - equitable instruction in, urban middle schools, 283
  - systemic reform and equity in, 91
- Socioeconomic status, achievement in science, 195
- State Systemic Initiative, Ohio, 183, 217, 333
- Technology
  - teachers attitudes about, 249
- Test data
  - use of to evaluate achievement in science, 183
- Undergraduates
  - calculus, 381
  - engineering, Asian-American, 1
  - engineering, Spatial Visualization Skill Training, 371