

Following is a list to guide authors in selecting keywords to use when writing ASABE publications. This is a list under development and is not intended to be a complete list of every possible keyword an author might use. Authors are not restricted to keywords matching this list but are encouraged to use them when appropriate. ASABE members use this same list for the automatic alert system related to the new ASABE Online Technical Library. Using these keywords will increase the chances that members interested in your topic will be made aware that it is included in the web-based collection.

Please send comments and suggestions for additions to Sandy Rutter at rutter@asabe.org. The list will be updated periodically.

January 2008

4-H	agricultural management
abatement	agricultural pollution
abrasion	agricultural products
absorbance	agricultural robot
absorption	agricultural runoff
accelerated testing	agricultural wastes
accelerometer	agricultural workers
accident prevention	agriculture
accidents	agrochemical
accuracy	agro-industrial
acetaldehyde	air
acid	air approach velocity
acidity	air assisted sprayers
acoustic	air blast
acoustic profiling	air conditioners
acoustic properties	air conditioning
acquisition	air dispersion modeling
acru2000	air drying
activated carbon	air filters
active	air flow
activity	air ionization
adaptive neuro-fuzzy inference	air jet
additives	air pollution
adhesion	air quality
adhesive	air sparging
adjustable	air speed
adjuvants	air stream
advance	air temperature
aeration	air-blast chilling
aerator	airborne
aerial	airborne imagery
aerial application	air-carrier sprayer
aerial photography	aircraft
aerial sprayers	alabama
aerial spraying	alaska
aerobic	alcohol
aerobic treatment	alfalfa
aerodynamic properties	algae
aerodynamics	algae culture
aeroponics	algorithms
aerosol sprayers	allocation
aerosols	almonds
aflatoxin	alternate
africa	alternative
aggregate	alternative substrates
agricultural	aluminium
agricultural aviation	ammonia
agricultural chemicals	ammonia emission
agricultural engineering	anaerobic
agricultural machinery industry	anaerobic digesters

anaerobic digestion
anaerobic treatment
analog
analysis
anchor
anemometers
angle
angle of incidence
animal
animal behavior
animal breeding
animal health
animal housing
animal husbandry
animal power
animal wastes
animal welfare
anthropometric dimensions
antioxidant
apex model
apparatus
apple juice
apples
application
application equipment
application rates
application to land
applicators
approach
appropriate technology
apricots
aquaculture
aquatic
arabica
area
arid
Arizona
Arkansas
arrhenius type equation
articulated
artificial
artificial neural network
ASABE
ASAE
Asia
asparagus
asphalt
assay
assessment
atlantic salmon
atmosphere
atmospheric stability
atomization
atomizers
atrazine
attachment
attenuation
aubergines
augers
Australia
automated

automated harvesting
automated sampling
automatic
automatic cluster removal
automatic control
automatic feed dispensers
automatic guidance
automatic steering
automation
automobile
autonomous navigation
autoregressive model
availability
average air temperature
avocados
axial
axles
bacillus thuringensis
bacteria
bacterial detection
bag silo
bagasse
balance
balers
bales
baling
ballast
bamboo shoots
bananas
band placement
bangladesh
bark
barking
barley
barn drying
barns
barrier
basin
basin irrigation
batch
batch driers
battery cages
beam
beam slenderness ratio
beans
bearing capacity
bearings
bed
bedders
bedding
beds
beef
beef cattle manure
beetroots
behavior
beliefs
belt
belt conveyors
bench
bending
benefit

benthic macroinvertebrates
berry
best management practices
bezier curve
bifidobacterium longum
bin wall
bins
bioassessment
biodegradable
biodegradation
biodegradation
biodeterioration
biodiesel
bioenergy
bioengineering
biofilter
biofuels
biogas
biogas potential
biokinetics
biological
biological control
biological filtration
biological indicator
biological treatment
biology
biomass
biomaterial
bioreactors
biosensor
biosolids
biotechnology
bivalvia
black currants
black pepper
blackberries
blades
blanching
blankets
blend
blockage
blowers
blueberries
BMPS
boats
body temperature
boiler
boll
bone
books
booms
border
border irrigation
bowen ratio
boxes
boysenberries
brain tumors
brakes
braking
bran
Brazil
brazil nuts

breadfruits
breakage
breakdown
briquettes
briquetting
broadleaf
broccoli
broiler
broiler houses
broilers
brooding
brown rice
bruises
bruising
brush control
brush cutters
brushes
brushing
brussels sprouts
bt
bt corn
bubble
bucket
buckets
buckwheat
buffalo
buffer
buffer strip
buffers
building
building construction
building materials
bulbs
bulk
bulk density
bulk solids
bulk storage
bulldozers
bullock
bunker
burners
burning
button mushroom
buyers' guides
bypass
byproducts
cab
cabbage
cabbages
cable
cable methods
cableways
cabs
cad
cages
calculation
calf
calibration
California
calipers
calorimeters

calorimetry
CALPUFF
calyx
canada
canal
candida rugosa lipase
cann
canola
canola
canola oil
canopy
canopy volume reduction
capacitance
capacity
capillary
capsicum
carambolas
caraway
carbon
carbon dioxide
carbon dioxide enrichment
carcass disposal
carcasses
carcinogenic problems
cardamoms
carnations
carobs
carrier
carrots
case studies
case-control study
cashews
cassava
catalytic
catching frames
catfish
cattle
cattle housing
cattle manure
cattle production
cattle slurry
cauliflowers
cause
caves
cavitation
ceilings
celeriac
celery
cell
cellulose
cellulose acetate
cement
center of gravity
center pivot irrigation
centralized anaerobic digestion
centrifugal
centrifuges
ceramics
cereals
ceres-maize
ceres-wheat

certification
CFD
CFD simulation
chaff
chains
chainsaws
chamber
change
channel erosion
channels
characteristics
characterization
charge
charging
cheese
cheese whey
chemical
chemical degradation
chemical pollution
chemical preservation
chemical properties
chemical treatment
chemigation
chemiluminescence
cherimoyas
cherries
chestnuts
chick
chicken
chickpeas
chicory
child labor
childhood cancer
children
Chile
chilis
chilling
chinese cabbage
chinese rice wine
chip
chipping
chiseling
chisels
chitting
chives
chloride mass balance
chlorophyll
chop
chop length
chopped
choppers
chopping
chromatography
chromium
chrysanthemums
chutes
cinnamon
circuit
citrumelos
citrus
citrus fruits

cladding
clamps
classification
clay
clay liner
cleaner waste
cleaners
cleaning
cleaning and sterilizing
clearance zone
clementines
climate
climate change
climate models
climate variability
climatic change
climatology
climatology
climbing devices
clod crushers
clods
clogging
closed systems
clothing
clovers
clusters
clutches
coagulation
coarse fragment
coastal areas
coatings
cob
cocoa
cocoa beans
coconuts
code
codling moth
coefficient of variation
coffee
coffee industry
cogeneration
cognitive
cohesion
coir
coix
cokriging
cold
cold storage
cold weather
cold zones
collection
collection efficiency
collectors
color
colorado
colorimetry
column
combination
combine drills
combine harvesters
combined heat and power

combing
combustion
comfort
communication
community
community development
compaction
comparison
compasses
competition
complementary relationship
complex permittivity
component
composite sampling
composite wood i-joist
composition
composting
composts
compounds
compressibility
compression
computation
computational fluid dynamics
computational methods
computed tomography
computer aided design
computer model
computer simulation
computer software
computer techniques
computer vision
computerization
computers
concaves
concentrates
concentration
conceptual
concrete
concurrent flow driers
condensation
condensers
condition
condition-based monitoring
conditioner
conditioning
conduction
cone
cone index
conferences
confined animal
confined
confinement
conical
conifers
connecticut
connection
connectors
conservation
conservation tillage
construction
consulting

consumption
contact
container
container grown plants
containers
containment
contaminated
contamination
content
content
continuous driers
continuous roll
continuous-flow reactor
contraction
contractors
control
controlled
controlled aeration
controlled atmosphere
controlled atmosphere storage
controlled droplet application
controlled environment
controlled traffic
controllers
controlling
controls
convection
convection driers
convective
conversion
converter
conveyor driers
conveyors
cook
cooked
cooked ham
cooked meats
cooking
cool climate
coolers
cooling
cooling systems
cooperation
cooperative
cooperatives
coppicing
copra
core samplers
cork
corn
corolla
correlation
corrosion
corrosion protection
corrosion resistance
corrugated
cost analysis
cost benefit analysis
cost minimization
costs
cotton

cotton ginning
cotton gins
cottonseed
cottonseed oil
coulters
count
counterflow driers
counters
couplings
course
cover crop
coverage
covering
covers
cow trainers
cowpeas
cows
cracking
cracks
crambe oil
cranberry
cranes
crashes
crates
crawler
crayfish
creep
cress
criterion
critical
critical buckling load
critical buckling moment
critical height of rops
critical shear stress
crop
crop evaporation
crop husbandry
crop management
crop models
crop production
crop residues
crop simulation
crop water requirements
crop water stress index
crop water use
CROPGRO
cropro soybean
cropping
crops
crop simulation model
cross flow
cross flow driers
cross-learning
crushers
crushing
crust
cube
cubes
cubicles
cucumbers
cucurbitaceae

culinary herbs
cultivation
cultivators
culture
cuphea
curing
current
curriculum
curtain
cushioning
cut flowers
cut foliage
cutter bars
cutters
cutting
cuttings
cycle
cyclones
cylinder
daily
dairies
dairy equipment
dairy farming
dairy farms
dairy wastes
damage
damping
dams
damsons
data
data acquisition and control
data analysis
data collection
data communication
data processing
databases
dataloggers
datalogging
date palm
dates
decanter
decision making
decision support
decision trees
deck size
decomposition
decontamination
decorticators
deep bed driers
deep litter housing
deep percolation
deep tillage
deer
deethylatrazine
defect detection
defects
deflection
deflector
defoliation
deformation
degradation

degree day
dehumidification
dehydration
deisopropylatrazine
delaware
delimiting
demand
dendrometers
denitrification
density
density grids
deposit
deposition
depreciation
depth
dermatology
desalinization
descriptors
deserts
desiccants
design
design calculations
desorption
detachment
detection
detector
detention
deterioration
determination
develop
developing
development
device
dewatering
dexterity
diagnosis
diameter
diaphragm
dibbers
dibble
dielectric constant
dielectric loss factor
dielectric properties
diesel emission
diesel engines
diesel fuel
diesel oil
differential pressure tank
differential scanning calorimetry
differentiation
diffusion
diffusivity
digesters
digestibility
digestion
digger
digital
digital elevation model
dilatancy
dill
dimensional

dimensions
direct sowing
direction
directories
dirt tare
discharge
discolored
discrete fourier transform
discrete wavelet transform,
discriminate
discs
disease control
diseases
disinfectants
disinfection
disk
dispensers
dispersion
displacement
disposal
dissolved oxygen
distances
distillation
distillers dried grain solubles
distributed generation
distribution
distributors
ditches
domestic
double
draft
draft animal
draft control
drag
drain layers
drain pipes
drainage
drainage channels
drainage systems
drainage water
drainmod
drains
drawbar power
drawbars
driers
drift
drilling
drills
drinkers
drinking water
drip
driver
drives
droplet size
droplet studies
droplets
drought
drums
dry feeding
dryer
drying
drying air
drying schedules
dryland
DSSAT
dual fuel
dual wavelength
dual-wavelength sorting
ducks
duckweed
ducts
durability
duration
durians
durum
dust
dust control
dust extractors
dusting
dye plants
dynamic air velocity
dynamic analysis
dynamic flux chamber
dynamics
dynamometers
e. coli
e. coli O157:H7
earth
earth moving equipment
earth tube
earthworms
eco-friendly
ecology
economic analysis
economic evaluation
economics
economy
ecosystem
eddy correlation
edible fungi
education
EFDC
effect
effective thermal conductivity
effectiveness
effects
efficiency
effluents
egg production
egg shape
eggs
eggshell
Egypt
el niño southern oscillation
elastic
elasticity
electric current
electric fences
electric motors
electric power
electrical conductivity
electrical equipment

electrical safety
electricity
electricity generators
electricity supplies
electrification
electro hydraulic
electrochemical sensor
electrokinetics
electromagnetic field
electromigration
electronic nose
electronics
electroplasmolysis
electrostatic charging
elevators
emblems
emergence
emergency
emission
emissions
emitter
emitters
employment
end effector
endives
energy
energy balance
energy budget
energy conservation
energy consumption
energy conversion
energy recovery
energy requirements
energy resources
energy sources
engineer
engineering
engines
enhanced morris method
enrichment
ENSO
entanglement
environment
environmental
environmental control
environmental impact
environmental protection
environmental sampling
enzymatic dry-grind processing
enzymatic process
enzyme
epic model
equation
equilibrium
equine
equipment
equipment performance
equity
ergonomics
erodibility
erosion

erosion control
error
erucic acid
escherichia coli
essential oil plants
ester
esterification
esters
estimating
estimation
estrus
ET estimation methods
ethanol
ethylene
Europe
European
eutrophication
evaluation
evaporation
evaporative
evaporative cooling
evapotranspiration
excavators
exchange
exclusion
exhaust
exhaust gases
expander
expansion
experience
experiment
expert systems
exploratory
explosion
exposure
extended kalman filter
extension
extra
extraction
extractors
extraneous matter
extruder
extrusion
faba beans
facility
factories
factors
failure
fallow
family
fans
farm
farm buildings
farm dairy
farm equipment
farm machinery
farm management
farm model
farm roads
farm safety
farm size

farm workers
farmers
farmers' attitudes
farming
farming systems
farms
farmstead
farmyard manure
farrowing
farrowing room
fatalities
fatigue
fats
fattening
fatty acid
fatty acid methyl esters
fault detection
feasibility studies
feature
fecal bacteria
fecal coliform
fecal contamination
feces
feed additives
feed dispensers
feed intake
feed mechanisms
feed troughs
feeder mixer wagons
feeding
feedlot emissions
feedlot surface
feedlots
feeds
felling
fences
fennel
fenugreek
fermentation
fertigation
fertility
fertilization
fertilizer distributors
fertilizers
fiber
fiber optic
fiber plants
fiber quality
field crops
field drying
field experimentation
fields
figs
filling
film
filter strips
filters
filtration
fine
finite difference
finite element

finite element analysis
finland
fire fighting
fire prevention
firebreaks
fires
firmness
first-order mass transfer
fish
fish farming
fish farms
fish ponds
fishes
flail
flame cultivators
flap
flax
flexible
floating cover
flood
flood control
flood irrigation
flooding
floor cooling
floors
florida
flour
flow
flow index
flow meters
flowers
flowing
flue-cured
fluent
fluid mechanics
fluidized bed drying
fluidized beds
flume
fluorescence
fluorescent lamps
fluorinated phenols
fluorometry
fluxes
flies
foam
fodder
fodder crops
fogging
foliar spraying
food
food matrices
food pathogens
food safety
food safety inspection
footing
forage
forage blowers
forage conditioners
forced air drying
forced-air cooling
forces

force-to-weight ratio
forecast
forest outflow
forest roads
forest trees
forestry
forestry machinery
forestry workers
forests
forging
fork lifts
forming
formula
forward speed
foundation
four wheel
Four-H
foxes
frame
frames
free
free stall
free-space transmission
freeze
freezing
frequency
fresh
friction
front
front mounting
frost
frost protection
frozen conditions
fruit
fruit crops
fruit harvesting
fruit trees
fruits
fruit-set
FTIR spectroscopy
fuel consumption
fuel crops
fuel injection
fuel oils
fuels
fuelwood
fumigate
fumigation
function
fungi
fungicides
fungus
furbearing animals
furnaces
furnished cages
furrow irrigation
furrow openers
furrows
fusarium
future
fuzzy c-means

fuzzy logic
FWA
FWD
FYM
gabor energy
gabor wavelets
gamma radiation
gannies
gardens
garlic
gas chromatography
gas exchange
gases
gasification
gates
gauges
gears
generation
generators
genetic
genetic programming
geographical distribution
geographical information systems
geometric
geometry
Georgia
geostatistics
geothermal energy
gerbera
germany
germination
gin
ginger
ginning
GIS
glass
glazing
GLEAMS
glioma
global positioning systems
globe artichokes
glossaries
glycerin
goat housing
goats
gooseberries
GPS
grabs
graders
gradient
grading
grafting
grain
grain bin
grain legumes
grain storage
granular
granules
grapefruits
grapes
graphic

grasses
grassland yield
grasslands
gravity
grazing
green
green AMPT
green manures
greenhouse crops
greenhouses
grind
grinders
gripper
gross traction
ground
ground drive
ground pressure
grounding
groundnuts
groundwater
grouzers
growing media
growth
growth chambers
growth rate
growth stage
guards
guavas
guidance
gully
H₂O
H₂S
hail
hail protection
haircoat
hairs
half-cooling time
ham
hammer
hammermill
hand
hand tools
handbooks
handicapped persons
handles
handling
handling machinery
hardening
hardness
harrowing
harrows
harvest
harvest timing
harvester
harvesters
harvesting
harvesting date
harvesting losses
harvesting robot
hatcheries
haulm destruction

haulm strippers
Hawaii
hay
hay bale
haymaking
hazard abatement
hazards
hazelnuts
header
health
health hazards
health protection
health screenings
hearing
heat
heat and mass transfer
heat balance
heat conservation
heat consumption
heat exchangers
heat flow
heat lamps
heat loss
heat production
heat pumps
heat recovery
heat stress
heat transfer
heat transfer model
heat treatment
heaters
heating
heating systems
height
helicopters
hemp
herbicides
hermetic
heterogeneous
high
high resolution
high temperature driers
hillside
hiring
hispanic
history
hitches
hoeing
hoes
hog
holly
home
homogeneous
honey
honeydew melons
hoppers
hops
horizontal
horse
horseradish
horses

horticultural crops
horticulture
house
housing
housing systems
HSPF
human
human power
humid
humid
humidifiers
humidity
humidity gauges
husking
husks
hyacinths
hybrid variability
hydraulic
hydraulic conductivity
hydraulic design
hydraulic engineering
hydraulic equipment
hydraulic performance
hydraulic power systems
hydraulic vane pump
hydraulics
hydrogen
hydrogen sulfide
hydrologic
hydrologic cycle
hydrologic model
hydrologic modeling
hydrology
hydrolysis
hydroponics
hydrostatic
hydrothermal
hydrothermal process
hydroxyatrazine
hygrometers
hyperspectral
hyperspectral imagery
hysteresis
ice cream
Idaho
identification
illinois
Illness
illumination
image
image classification
image processing
image processors
image segmentation
image texture
imagery
imaging
imaging spectroscopy
impact
impedance
impeller

implement carriers
implements
improvement
incinerator
inclined
incorporation
increment
incubators
index
India
Indian mustard
Indiana
indicator
Indonesia
induction
industrial
industry
infestation
infiltration
infiltrimeters
inflation pressure
information
information systems
infrared driers
infrared radiation
infusion
ingestion
injection
injectors
injury
inlet
innovation adoption
inoculation
inoculum
insect control
insect pests
insect traps
insecticides
insects
inspection
installation
instrumentation
instruments
insulating materials
insulation
intake
integrated
intensity
interaction
interception
intercropping
interest
interface
interior
intermittent
internal
internal object
international
internet
interrill erosion
intervention

intrafarm transport
inverse modeling
inversion
investment
ionization
Iowa
iron
irradiation
IRRI
irrigation
irrigation channels
irrigation equipment
irrigation requirements
irrigation scheduling
irrigation systems
irrigation water
irrigation water balance
ISO Standard
isolation
isotherms
isotopes
issues
jackfruits
janssen's equation
japan
japanese quails
Java
jerusalem artichokes
jet
job
joint
jojoba
juice
jute
kale
Kansas
kenaf
Kentucky
Kenya
kernels
kidney beans
kilns
kinematic
kinetic energy
kinetics
kiwifruits
knapsack sprayers
kneeload
knives
kohlrabi
kriging
kumquats
labor
labor requirements
laboratory
lactic acid
lactose
ladders
lagoon effluent
lagoon leachate
lagoons

lagrangian
lake
lakes
lakeshore
lambs
laminar entrained flow reactor
laminated
lamps
land
land clearance
land improvement
land levelers
landsat
landscape
land-use
lasers
latching valve
latent heat
lateral
lateral stability
Latin
Latin America
latino
lawns and turf
layer
laying hens
L-dopa
leachate
leaching
leaf
leaf area
leafy vegetables
leakage
lean NO_x trap
least squares
least-squares support vector machines
leaves
leeks
legislation
legumes
leisure
lemons
length
lentils
lettuces
leveling
levers
LIDAR
life
life support
lifting
light
light emitting diodes
light intensity
light transmission
lighting
lima beans
limb
lime
limes
line

linear
linear classifier
linear discrimination
liners
linings
linkages
linseed
lint
lint cleaner
lint value
liquid
liquid fertilizers
liquid manures
liquid swine manure
litchi
litter
litter treatment
litter-based manure
livestock
livestock farming
load management
loaders
loading
loads
location
lodging
loganberries
logging
logic
logs
long term
longans
longitudinal
long-term waste applications
long-wave radiation
loosening
loquats
loss factor
losses
lotus
Louisiana
low cost
low pressure
low temperature drying
low volume sprayers
low volume spraying
LSPIV
lubricants
lubrication
lucerne
lucerne pellets
lugs
lumber
lupins
lycium chinense mill
lying behavior
lysimeters
macadamia
mace
macerators
machine

machine milking
machine vision
machinery
machinery cooperatives
machinery requirements
magnesium
magnetic field
magnetic properties
magnetic resonance imaging
Maine
maintenance
maize
maize canopy
maize pathogens
Malaysia
management
mandarins
mangoes
mangosteens
manipulability
manual operation
manufacture
manure ammonia volatilization and
incorporation system
manure management
manure spreaders
manure transport
manures
mapping
maps
markers
market
marketing
marrows
maryland
mass
mass flow
mass spectrometer
mass transfer
massachusetts
mastitis
materials
mathematical modeling
mathematical models
mathematical simulation
mathematics
mats
maturity
MAVIS
mealiness
measurement
measuring
meat
mechanical
mechanical harvest
mechanical properties
mechanics
mechanism
mechanization
mechanized
media

medicinal plants
mediterranean
melons
membranes
metabolism
metabolites
metals
meteorological modeling
meteorology
metering
meters
methane
methane production
methanol
method
methodology
methyl
methyl
metolachlor
metric
Mexico
Michigan
microbeads
microbial
microchannel
microclimate
microcomputer
microfluidic
microirrigation
micronization
microorganisms
microprocessors
micropropagation
microrelief
microscopy
microsprinkler
microstrip patch array antenna
microwave
microwave dielectric properties
microwave driers
microwave radiation
microwave sensing
middle east
migrant
milk
milk cooling
milk meters
milk pipelines
milk production
milk sampling
milking
milking machines
milking parlors
milking robots
mill
milled rice
millets
milling
mine spoil
minimum tillage
mining

mink
Minnesota
minority
miscanthus
Mississippi
Missouri
mist application
mist blowers
mist irrigation
misting
mists
mixed
mixed flow
mixers
mixing
mixture
mobile units
mobility
mobility number
model
model calibration
model performance
model validation
modeling
models
modernization
modification
modified
modified atmosphere storage
modulus of elasticity
moisture
moisture absorption
moisture content
moisture density
moisture meters
moisture movement
moisture specific volume
mold
moldboard
mole
mole drainage
monitoring
monitors
Montana
morphology
mortality
motion
motion resistance
motors
mountain areas
mounted implements
movement
moving
mower conditioners
mowers
mowing
mucuna
muffler
mulberries
mulch layers
mulches

mulching
multicrop
multipass
multiphase contaminant transport
multiple
multiple substrates
multiresolution representation
multi-span
multi-spectral
multispectral imagery
municipal
mushroom houses
mushroom production
mushrooms
mustard
nail
nailed
nanoparticle measurement
nanoparticles
narrow row
natural
near-infrared
near-infrared reflectance spectroscopy
near-infrared spectroscopy
Nebraska
nectarines
need
nematicides
nematodes
Nepal
net traction
nets
netting
network
neural networks
Nevada
new
New Hampshire
New Jersey
New Mexico
New York
NH₃ concentration
Nigeria
NIR
NIR spectroscopy
NIRS
nitrate
nitrate control
nitrate pollution
nitrification
nitrogen
nitrogen content
nitrogen loss
nitrogen uptake
nitrous oxide
no till
no tillage
NO₃-N
noise
noise abatement
noise pollution
non-composted substrate
nondestructive
non-immobilized cells
nonlinear
nonlinear regression
nonpoint
nonpoint-source pollution
noodles
North America
North Carolina
North Dakota
NO_x emissions
nozzles
NPS
nuclear
nuclear magnetic resonance
numerical
numerical modeling
nurseries
nursery production
nut
nut crops
nutria
nutrient film techniques
nutrient solutions
nutrient transport
nutrients
nutrition
nuts
oats
object-oriented
obstacle avoidance
obstructions
occupational
occupational disorders
occupational health
octanol-water partition coefficient
odor
odor abatement
odor dispersion
odor emission
odors
off road vehicles
off-flavors
Ohio
oil palms
oil plants
oil stability index
oils
oilseeds
Oklahoma
okras
olfactometers
olives
onions
online
onset temperature
OPE3
operation
operation on slopes
operator comfort

operators
optic
optical
optical properties
optimal
optimization
optimization models
oranges
orchard sprayers
orchards
orchidaceae
order
Oregon
organic
organic farming
organic matter
organic soils
organization
orientation
orifice
ornamental bulbs
ornamental plants
ornamental woody plants
oscillating
osmosis
outdoor
outlet
outlier
oven
overland
overload protection
overseas
overturning
oxidation
oxygen
oysters
ozone
package
packaging
packaging materials
packing
pad
paints
Pakistan
pallets
PAM
panax
panel
papaya
paper
parallel
parallel model
parameters
paraplow
parboiled
parlor
parsley
parsnips
partial least squares
particle counts
particle size

particles
passion fruits
pasture legumes
pastures
patents
pathogens
pattern testing
patterns
pavement
pawpaws
peaches
peak flow
peanut
peanut pods
pears
peas
peat
pecans
pectins
peeling
pelleting
pellets
penetration
penetrometers
penman-monteith
Pennsylvania
pens
pepper
perches
perforated
performance
performance testing
performance tests
periphyton
perlite
permeability
permittivity
persimmons
personal protective equipment
perturbation
pest
pest control
pest control equipment
pesticides
ph
phase
phase angle
phase shift
Philippine
phosphates
phospholipid
phosphorous
phosphorus
phosphorus leaching
photo
photocatalytic reaction
photoelectric cells
photography
photosynthesis
photovoltaic cells
physical

physical models
physical properties
physicochemical properties
physiological
physiology
phytotron
picker
picking
picking platforms
pickup
piezometers
pig farming
pig housing
pig manure
pig slurry
pigeon peas
piglet
pigmentation
pigs
pineapples
pines
pinus taeda l.
pipe bend
pipe drainage
pipeline economics
pipelines
piper
pipes
pistachio nuts
pistachios
piston
placement
planning
plant diseases
plant growth
plant growth modeling
plant oils
plant pathogens
plant protection
plant residues
plantations
planters
planting
plants
plasma
plastic cladding
plastic film
plastic tunnels
plastics
plate
plate count
plot
plowing
plows
PLS
PLS regression
plume dispersion
plums
plywood
pneumatic
pneumatic power

pod
pod brightness
poinsettias
poisson's ratio
pole
pole frame
policy
pollination
pollinator
pollution
pollution allocation
pollution control
pollutograph
poly
polyacrylamide
polyethylene
polyethylene film
polymer
polypropylenes
polyurethanes
pome fruits
pomegranates
ponds
popcorn
poplars
population
pork
porosity
porous
porous media
porous medium
portable
position
positioning
post-frame
postharvest treatment
posts
pot plants
potatoes
potential
pothole
pots
poultry
poultry housing
poultry manure
powder
power
power requirement
power steering
power takeoffs
power tiller
power use
powered
practices
prawns
precipitation
precision
precision agriculture
precision farming
precleaners
precooling

predatory mites
prediction
predictive microbiology
preliminary settling
preservation
preservatives
presses
pressing
pressure
pressure gauges
prices
principal component analysis
principle
prisms
probabilistic neural network
probability
probes
problems
process
processing
produce simulator
producing
product
production
productivity
profession
program
progress
propagation
properties
proportion
protected cultivation
protective clothing
protective coatings
protective structure
protein
protein modification
proximal sensing
proxy
prunes
pruning
pruning implements
pruning trash
psychological
psychrometers
PTO
public
puddling
pulp
pulsation
pulsators
pulse irrigation
pummelos
pumping
pumpkins
pumps
punch
puncture
purification
pyrolysis
QUAL2E

quality
quality controls
quality sensing
quantification
questionnaires
quick
quickbird imagery
quinces
rabbit housing
rabbits
radar
radial
radiation
radiators
radio
radio frequency
radioactive
radiometers
radishes
rain
rain gages
rain shelters
raindrop
rainfall
rainfall simulators
raisin
rakes
rambutans
random
rangeland
rape
rapeseed
rapeseed oil
rapid
raspberries
rates
ratio
reactive distillation
real time
real-time sensors
reaper
receiving water
recharge
recirculation
reclamation
recognition
reconditioning
recorder
recording instruments
recovery
recycling
red currants
reduction
reels
reference crop evaporation
reflectance
reflectance spectra
reflection
reflective
reflectometry
refrigeration

region
regional
regression
regression analysis
regulation
rehabilitation
reinforcement
relative humidity
relaxation
release
reliability
remote control
remote sensing
removal
renewable
repairing
replacement
reports
requirement
research
reservoirs
residential floors
residue
resistance
resistance to air flow
resistance to penetration
resistivity
resonance
resource
respiration
respiratory
respiratory diseases
response
restoration
restraint of animals
retardant
retention
retrofit
retting
reversible
reviews
rewetting
rheological properties
rheology
rhizomucor miehei lipase
rhode island
rhododendron
rhubarb
rice
rice hill
rice husks
rice mill
rice seed
rice straw
ride
ridgers
ridges
ridging
rigid
rigid wheel
rill

ring
riparian
riparian buffer system
ripeness
ripening
ripping
riprap
risk
risk assessment
river
roads
roadside
robot analysis
robot navigation
robot synthesis
robotic
robotic weeding
robots
rock bed
rocks
rockwool
roll
roller
rollers
rolling resistance
rollover protective structures
roofs
roost
root crops
root growth
root vegetables
root zone
root zone water quality model
roots
ROPS
rose hips
rosemary
roses
rotary
rotary tillers
rotating
rotational speed
rotors
rough rice
roughness
round
row covers
rowcrops
rubber
rubber tracks
rubberized roller
rumen
runoff
rural
rural health
rusle
rye
RZWQM
safety
safety at work
safety cabs

safety day camp
safety devices
safety education
safflower
saffron
sage
saline
salinity
salmonella
salt
sample
samplers
sampling
sampling technique
sand
sap flow
satellite imagery
satellites
satsumas
Saudi Arabia
saving
sawdust
saws
SBSE
scab
scale
scanners
scarifiers
scattering
scheduling
SCN
scrapers
screening
screens
screw
scrubber
sealing
seasonal
seasonal variation
seats
seaweed
sediment
sediment oxygen demand
sedimentation
seed broadcasters
seed cleaners
seed collection
seed dressers
seed drills
seed germination
seed treatment
seedbed preparation
seedling emergence
seedling production
seedlings
seeds
seepage
selection
selective
self propelled machines
self-organizing map

semi arid
semiconducting polymer sensor
sensing
sensitivity
sensitivity analysis
sensor fusion
sensors
separation
separation efficiency
separators
septic
sericulture
series
series model
service life
servicing
sesame
settling
sewage sludge
shade
shading
shafts
shaker
shaking
shallots
shallow
shallow groundwater
shape
shares
shear
shearing
shearing machines
shears
sheds
sheep
sheep housing
shelf life
shelled peanuts
shellers
shellfish
shelling
shelters
ship
shipping
shock absorbers
short-wave radiation
shredding
shrimp
shutters
sickness
sieves
signals
silage
silage additives
silage making
silhouette value
silkworms
silo bag
silos
silt
simulated rainfall

simulation
simulation models
single
sinkage
sisal
site preparation
site specific
sitophilus oryzae
size
sizer
sizing
skidders
skidding
skin
slatted
slaughter
slip
slopes
sloping land
slot
sludges
slurries
slurry separation
slurry spreaders
slurry tankers
small
small farms
small scale
snow
snowmelt
social
society
soft
software
soil
soil amendments
soil bins
soil compaction
soil conservation
soil erosion
soil erosion modeling
soil frost
soil heating
soil injectors
soil mechanics
soil moisture
soil physical properties
soil physics
soil pollution
soil properties
soil sampling
soil sensing
soil solarization
soil strength
soil structure
soil surveys
soil types
soil vapor extraction
soil water
soil water content
soil water movement

soil water potential
soilless culture
soils
solar collectors
solar drying
solar energy
solar heating
solar radiation
solid
solubility
soluble solids content
solute
solution
somatic cell
sonic
sorghum
sorghum stalks
sorption
sorters
sorting
sound
source
South Africa
south carolina
south dakota
sowing
sowing depth
soy protein
soy sauce
soybean oil
soybeans
space science
spacing
spades
spare parts
spatial variability
spatial yield variability
spatially variable
specific
specifications
spectral analysis
spectral bands
spectral response patterns
spectrometer
spectrometry
spectrophotometers
spectrophotometry
spectroscopy
spectrum
speed
spices
spillways
spinach
spinner
splines
spoilage
spray boom
spray booms
spray deposition
spray drift
sprayers

spraying
spraying equipment
sprays
spreaders
spreading
springs
sprinkler irrigation
sprinklers
squashes
stability
stability ratio
stabilizers
stables
stack
stage
staging
stalk
stalls
standardization
standards
starch
starch
static mixer
static reactor
static test
station
stationary
statistical analysis
statistics
steam
steel
steering
stems
stereo
stereoscopic
stereovision
sterilization
stickiness
stiffness
stir bar sorbtive extraction
stirling
stomata
stone
stone fruits
stone pickers
storage
storage losses
storage quality
stored products pests
stores
storm
stover
strain
strain gages
strategy
stratified
straw
straw walkers
strawberries
stray
stray voltage

stream
stream restoration
streambank
streambank erosion
streamflow
strength
stress
stress analysis
stresses
stressor analysis
strip mine
stripping
strips
structural components
structures
stubble
student
study
study design
stumps
submerged
submerged culture
submerged flow
subsoil
subsoilers
subsoiling
substrates
subsurface
subsurface drainage
subsurface drip irrigation
subsurface irrigation
subtropical crops
subtropical fruits
subtropics
suction
sudan
sugar
sugarbeet
sugarcane
sulfur
sulfur dioxide
summer
sunflower seeds
sunflowers
superheated
supplement
supply
supports
surface
surface area
surface drainage
surface energy balance
surface irrigation
surface plasmon resonance
surface roughness
surge irrigation
surveys
susceptibility
suspension seats
suspension systems
suspensions

sustainable
SWAT
swedes
sweep
sweet peas
sweet potatoes
sweet sorghum
sweetcorn
swine
swine lagoon liquid
swine manure
switchgrass
symbols
system
table
Taiwan
tamarillos
tamarinds
tandem
tangelos
tank irrigation
tanks
tare
target
taro
tassel emergence
TDR
tea
teach
teacup liner
teacups
teats
technical
technique
technology
technology transfer
tedders
teenage
telemetry
temperate fruits
temperate small fruits
temperature
temperature gages
temperature humidity index (thi)
temperature prediction
temporal
tenderness
Tennessee
tensile
tensile strength
tensiometers
tension
terminology
terraces
terrain
test procedure
test reports
test rigs
testing
tests
texas

texture
TFM
Thailand
theory
thermal
thermal conductivity
thermal defoliation
thermal diffusivity
thermal properties
thermal screens
thermochemical
thermochemical conversion
thermocouples
thermodynamics
thermogravimetric analysis
thermometers
thermoregulation
thermostats
thin layer
thin layer drying
thinners
thinning
three dimensional
three point
threshing
threshing drums
threshing machines
throughput
tilapia
tile
tile drainage
tile drains
tillage
tillage systems
tiller
timbers
time
time domain reflectometry
tines
tire pressure
tires
tissue culture
titanium dioxide
TMDL
tobacco
tomato management
tomatoes
tomography
tool carriers
tools
topography
toppers
torque
torsion
total maximum daily load
tourism
tower driers
trace metals
tracer
tracked vehicles
tracking

tracks
traction
tractive efficiency
tractors
traditional
traffic
trafficability
trailers
training
trajectory
tramlining
transducers
transesterification
transfer
transient
transient airflow pattern
transition
transmission
transmissions
transpiration
transplanters
transplanting
transponders
transport
transportation
transportation costs
transporters
traps
trash
tray driers
treatment
tree plantation nursery
tree shakers
trees
trellis
trench cutters
trends
triaxial
tribology
trickle irrigation
trimmers
triticale
trolleys
tropical climate
tropical crops
tropical fruits
tropics
troughs
trucks
truss
tsetse
tubers
tubes
tubing
tulips
tunnel driers
tunnel sprayers
tunnels
turbines
turbulence
turf

turkeys
turmeric
turning
turnips
turnover
twin probe method
two dimensional
two stage
two wheel
type
udders
ultralow volume sprayers
ultralow volume spraying
ultrasonics
ultrasound
ultraviolet
ultraviolet radiation
uncertainty
underground structures
unheated
uniformity
united states of america
universal
university
unloaders
unloading
unsaturated
unshelled peanuts
unsupervised classification
uptake
uranium
urban
urban storm water
urea
US
USDA
USE
USLE
Utah
utility
utilization
UV
V-belt
vacuum
vacuum cooling
vacuum drying
valencia peanuts
validation
value
valves
vanes
vanilla
vapor pressure
vaporization
variability
variable rate application
variables
variance-based method
variation
variety
variogram

vegetables
vegetation
vegetation indices
vegetative
vehicles
velocity
velvet bean
ventilated bin driers
ventilation
ventilation rate
vents
vermiculture
vermont
vertical
VFA
viability
vibrating
vibration
vibratory
video cameras
village
vine
vineyards
virginia
virtual
VIS
viscoelasticity
viscosity
visibility
visible and near-infrared spectroscopy
vision
visual
viticulture
vitreous
VOC
voice recognition
volatile
volatile fatty acids
volatilization
voltage
volume
vortex
wafer
wafering
walking
walking tractors
wall load
wall pressure
walls
walnuts
washing
Washington
wasp
waste disposal
waste heat utilization
waste management
waste treatment
waste utilization
waste water
waste water treatment
wastes
wastewater irrigation
water
water balance
water balance method
water budget
water conservation
water core
water distribution
water filters
water flow
water harvesting
water harvesting capacity
water management
water pollution
water potential
water quality
water resistance
water stress
water supply
water table
water table depth
water use efficiency
waterbed
waterbody
watercress
watermelons
watershed
wave
wavelet
wavelet analysis
wavelet transform
wear
weather
weather data
weather stations
weed control
weed stress
weeders
weeding
weeds
weevil
weigh
weighers
weighing
weight
weight loss
weight measurement
welding
welfare
wells
welsh onions
WEPP
west virginia
wet feeding
wetlands
wetting
wheat
wheel load
wheel slip
wheels
whey

white currants
whole grain
wide span
width
wild fruits
willows
winches
wind
wind damage
wind effects
wind loads
wind machines
wind power
wind protection
wind speed
wind tunnels
windbreaks
windmills
window
windrowers
windrowing
windrows
winter
winter hydrology
wire
wirework
Wisconsin
women
wood
wood chips

wood frame
wood residues
wood truss
woods
woody plants
work capacity
work study
workability
workable days
workers
working conditions
world
wrappings
Wyoming
X-radiation
X-ray
xylanase
yams
yards
yield estimation
yield limiting factors
yield loss
yield map
yield monitor
yields
youth
youth education
zeolites
zone
zooplankton