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The Morton Arboretum Staff Publications and Dataset Collection

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Ex Situ Plant Conservation Supporting Species Survival in the Wild

The Trees of History: Protection and Exploitation of Veteran Trees, Proceedings of the International Congress in Torino, Italy,

Behavior of Dobzhansky-type epistatic hybridization models under varying dominance and selection: preliminary numerical simulations

Spring woodland wildflowers of the University of Wisconsin-Madison Arboretum

Trees for urban planting: diversity uniformity, and common sense

A literature review of nitrogen availability indices for use in urban landscapes

Congruence versus phylogenetic accuracy: Revisiting the incongruence length difference test

Ecosystem consequences of exotic earthworm invasion of north temperate forests

Effect of transplanting and paclobutrazol on root growth of 'Green Column' black maple and 'Summit' green ash

Effects of soil pH, root density, and tree growth regulator treatments on pin oak chlorosis

Long-term changes in Chicago region prairie vegetation in relation to fire management

Using Historic Survey Data in Conservation GIS [PowerPoint Presentation]

Pre-European Settlement Vegetation of the Chicago region

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Temporal instability in Chicago's upland old growth forests

Best management practices: Tree planting.

Distinguishing between Root System Architecture Changes and Planting Too Deep

Getting the Roots Right: The Structural Root Depth Best Management Practice

Avoiding excessive soil over the root systems of trees: A best management practice

Proceedings of Trees and Planting: Getting the Roots Right

Distinguishing urban soils with physical, chemical, and biological properties

Molecular phylogenetics of the giant genus *Croton* and tribe *Crotoneae* (Euphorbiaceae sensu stricto) using ITS and TRNL TRNF DNA sequence data

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Lindley, and a technique to prompt leaf elongation in seedlings

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Calcareous prairie fen

Relationships between soil characteristics, distribution and restoration potential of the federal threatened eastern prairie fringed orchid, *Platanthera leucophaea* (Nutt.) Lindl.

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Urban and Community Forestry in the Northeast
Carex of Northeastern Illinois and Northwestern Indiana, USA.
A Bayesian model of AFLP marker evolution and phylogenetic inference
Carex michoacana, a new species of Carex section Ouales (Cyperaceae) from Mexico
Chromosome number changes associated with speciation in sedges: A phylogenetic study in Carex section Ouales (Cyperaceae) using AFLP data
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Impacts of forest gaps on soil properties and processes in old growth northern hardwood-hemlock forests
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Pedodiversity in an old-growth northern hardwood forest in the Huron Mountains, Upper Peninsula, Michigan
The prairie-wetland vegetation continuum in the Chicago region of northeastern Illinois
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Sedges: Uses, Diversity, and Systematics of the Cyperaceae (Monographs in Systematic Botany from the Missouri Botanical Garden)
Illinois Forest Health Highlights
How far is too far? Genetic consequences of Seed Provenance Decisions in Sedges. Final report for USDA-USFWS grant FWS0603
Discoloration and decay in severed tree roots
Gaps and soil C dynamics in old growth northern hardwood-hemlock forests
Gradient analysis of an eastern sand savanna's woody vegetation, and its long-term responses to restored fire processes
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Chronological Change in Old-Growth Forests of the Chicago Region

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Big trees in the urban forest: An endangered resource worth sustaining
Phylogenetic and trait similarity to a native species predict herbivory on non-native oaks.
A meta-analysis of studies published in Arboriculture & Urban Forestry relating to organic materials and impacts on soil, tree, and environmental properties
Bare root liner production can alter tree root architecture
Causes and consequences of deep structural roots in urban trees: From nursery production to landscape establishment
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Origin, adaptive radiation and diversification of the Hawaiian lobeliads (Asterales: Campanulaceae)
Taxonomic study of the Carex tenera group (Cyperaceae)
The evolution of chromosome arrangements in Carex (Cyperaceae)
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Plant Reintroduction in a Changing Climate: Promises and Perils
Horned and Gouty Oak Galls in Illinois
Chromosome number evolves independently of genome size in a clade with nonlocalized centromeres (Carex: Cyperaceae)

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 The Jepson Manual: Vascular Plants of California
 Your ash tree and EAB
 Checklist of the spontaneous plants of The Morton Arboretum and Hidden Lake Forest Preserve
 Root management challenges in urban sites: Achieving a healthy root-crown balance
 Fifteen years of urban tree planting and establishment research
 The Schulenberg Prairie: A Benchmark in Ecological Restoration
Carex modesti (Cyperaceae), a new species from southern Tanzania
 Control of apple scab and cytospora canker with Paclobutrazol
 Diversification rates and chromosome evolution in the most diverse angiosperm genus of the temperate zone (*Carex*, Cyperaceae)
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 Habitat heterogeneity and life-history traits influence presettlement distributions of early-successional tree species in a late-successional, hemlock-hardwood landscape
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 Soil quality attributes as indicators of urban tree performance
 The relationship between structural root depth and vigor of urban trees
 The role of seed dispersal, pollination and historical effects on genetic patterns of an insular plant that has lost its only seed disperser
 Two decades of low-severity prescribed fire increases soil nutrient availability in a Midwestern, USA oak (*Quercus*) forest
 Urban Tree Growth and Longevity: Introduction

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 The Practical Science of Planting Trees
 The Practical Science of Planting Trees
 Encyclopedia of Genetics
 Root-friendly planting site design
 Root management challenges on urban sites: Human intervention in root development
 Effects of organic and inorganic fertilizers on soil quality and tree growth in a compacted urban soil.
 Report to Wolf Road Prairie Nature Preserve
 Strengthening the conservation value of tree collections for ex situ conservation
 Urban trees and forests of the Chicago region. Resource Bulletin NRS-84.
 Results of the 2011 and 2012 Municipal Ash Management Survey.
 Ability of matrix models to explain the past and predict the future of plant populations.
 Belowground effects of porous pavements—"Soil moisture and chemical properties
 Biochar and biosolids increase tree growth and improve soil quality for urban landscapes
 Hydrophobicity of sparta sand under different vegetation types in the lower Wisconsin River valley
 Identifying common practices and challenges for local urban tree monitoring programs across the United States
 Impact of tree size and container volume at planting, mulch, and irrigation on *Acer rubrum* L. growth and anchorage
 Impacts of aerated compost tea on containerized *Acer saccharum* and *Quercus macrocarpa* saplings and soil properties in sand, uncompacted loam, and compacted loam soils
 Repeated burning of eastern tallgrass prairie increases richness and diversity, stabilizing late successional vegetation.
 Restoring a midtolerant pine species as a component of late-successional forests: Results of gap-based planting trials
 Shifts in diversification rates and clade ages explain species richness in higher-level sedge taxa (Cyperaceae).
 Species coherence in the face of karyotype diversification in holocentric organisms: The case of a cytogenetically variable sedge (*Carex scoparia*, Cyperaceae)
 Tree growth and resilience to extreme drought across an urban land-use gradient
 Using phylogenomics to infer the evolutionary history of oaks
 Viability model choice affects projection accuracy and reintroduction decisions
 Burning Increases Diversity and Stabilizes Eastern Tallgrass Prairie.
 The Value of Evolutionary History: Using Phylogenetic Diversity to Identify Longterm Effects of Deer browsing on Northern Wisconsin Forest Understory Plant Communities (Poster)

Calendar Year 2006 Staff Publications (15 records)

Influence of elm foliar chemistry for the host suitability of the Japanese beetle, *Popilla japonica*, and the gypsy moth, *Lymantria dispar*
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Getting the Roots Right
Fire chronology and windstorm effects on persistence of a disjunct oak-shortleaf pine community.
Establishing a relationship between soil aeration and fine root development of seven tree species using the steel rod technique
Exploring patterns of exotic earthworm distribution in a temperate hardwood forest in south-central New York, USA
Particulate organic matter and soil nitrogen availability in urban landscapes
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Trends of change in composition and structure of Chicago region wetland vegetation
Accelerated evolutionary rates in tropical and oceanic parmelioid lichens (Ascomycota)
The Prairie-Wetland Vegetation Continuum in the Chicago Region of Northeastern Illinois

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Tree Dek rubber surface tree pit analysis project report. The Morton Arboretum, Lisle, Illinois.
Hill's oak: The taxonomy and dynamics of a western Great Lakes endemic
Chromosomes tell half of the story: the correlation between karyotype rearrangements and genetic diversity in sedges, a group with holocentric chromosomes
Karyotype stability and predictors of chromosome number variation in sedges: A study in *Carex* section *Spirostachyae* (Cyperaceae)
MATICE: mapping transitions in continuous character evolution
The effect of broadcast nitrogen fertilization rates and placement on the growth of green ash trees
Tree encroachment impacts carbon dynamics in a sand prairie in Wisconsin
Who am I this time? The affinities and misbehaviors of Hill's oak (*Quercus ellipsoidalis*)

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The immediate and long term effect of flooding for urban forests and natural forest stands
(2018) Proposal to conserve the name *Carex fracta* against *C. amplexans* (Cyperaceae)
A microcosm study of the common night crawler earthworm (*Lumbricus terrestris*) and physical, chemical and biological properties of a designed urban soil
A novel comparative method for identifying shifts in the rate of character evolution on trees
Canopy cover and groundlayer vegetation dynamics in a fire managed eastern sand savanna
Dynamics of chromosome number and genome size variation in a cytogenetically variable sedge (*Carex scoparia* var. *scoparia*, Cyperaceae)
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Taxonomic delimitation and drivers of speciation in the Ibero-North African *Carex* sect. *Phacocystis* river-shore group (Cyperaceae)
Taxonomy, systematics, and phylogenetics [Review of the book *Plant systematics: An integrated approach*, 3rd ed., by G. Singh]

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Center for Tree Science Strategy
Tree planting—Best management practice
Tree Tools: Tree Ordinances and your community
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 Enhancing establishment of white oak and American hazelnut enrichment plants in a mesic forest using understory removal and group selection
 Evaluating restoration baselines for historically fire-protected woodlands within a northeastern Illinois prairie peninsula landscape
 Habitat associations and 150 years of compositional change in white pine-hemlock-hardwood forests based on resurvey of public land survey corners
 Impact of branch reorientation on breaking stress in *Liriodendron tulipifera* L.
 Karyotypic changes through dysploidy persist longer over evolutionary time than polyploid changes
 Leaf-out times of temperate woody plants are related to phylogeny, deciduousness, growth habit and wood anatomy
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 Native plant diversity increases herbivory to non-natives
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 The management of tree root systems in urban and suburban settings I: A review of soil influence on root growth
 Vegetation Communities of a Coal Reclamation Site in Southeastern Ohio
 The avifauna of Virua National Park, Roraima, reveals megadiversity in northern Amazonia
 Genotyping-by-sequencing as a tool to infer phylogeny and ancestral hybridization: A case study in *Carex* (Cyperaceae)
 White-tailed deer are a biotic filter during community assembly, reducing species and phylogenetic diversity
 Leaf epidermal features of *Quercus* subgenus *Cyclobalanopsis* (Fagaceae) and their systematic significance
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Assessing patterns of oak regeneration and C storage in relation to restoration-focused management, historical land use, and potential trade-offs
 Cross-specific amplification of microsatellite DNA markers in *Shorea platyclados*
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 Inferring phylogenetic history from restriction site associated DNA (RADseq)
 Chicago Wilderness region urban forest vulnerability assessment and synthesis: a report from the Urban Forestry Climate Change Response Framework Chicago Wilderness pilot project
 CW Regional Oak Recovery Plan
 Urban Forest Adaptations Strategies and Approaches
 Should Hybridization Make Us Skeptical of the Oak Phylogeny?
 EAB Resident brochure
 Thousand Cankers Disease fact sheet
 Volunteers Tree Tool
 Tree Management Plans Tree Tool
 Selecting and Planting Trees
 Grassland-forest transition in the Prairie Peninsula region of northwest Indiana as recorded by the US Public

Land Survey (1829-1835)
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 A Multi-century Tree-ring Record of Spring Flooding on the Mississippi River
 Accounting for the nested nature of genetic variation across levels of organization improves our understanding of biodiversity and community ecology
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 Long-term processes affecting restoration and viability of the federal threatened Mead's milkweed (*Asclepias meadii*)
 Making *Carex* monophyletic (Cyperaceae, tribe Cariceae): a new broader circumscription
 Molecular and morphological perspectives on the circumscription of *Carex* section *Heleoglochis* (Cyperaceae)
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 Notes on *Carex* (Cyperaceae) from China (II): a taxonomic revision of sect. *Radicales* (Kuk.) Nelmes
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 Quantifying canopy complexity and effects on productivity and resilience in late-successional hemlock-hardwood forests
 Sharing of chloroplast haplotypes among red oak species suggests interspecific gene flow between neighboring populations
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 Older than most of human history: An interview with Chuck Cannon, Chuck
 North American Botanic Garden Strategy for Plant Conservation, 2016-2020
 Rescuing plant species with extremely small populations in China: the case of the Xichou oak, *Quercus sichouensis*
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 Rescuing plant species with extremely small populations in China: the case of the Xichou oak, *Quercus sichouensis*
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 Evolutionary diversification of alpine ginger reflects the early uplift of the Himalayan–Tibetan Plateau and rapid extrusion of Indochina
 Restoration pruning of storm damaged trees
 Oak Research in 2016: a snapshot from the IOS conferences
 Lessons learned from the urban forestry climate change response framework project
 Forest adaptation resources: Climate change tools and approaches for land managers, 2nd edition

Use of DNA for verification of wood legality.
 A framework for adapting urban forests to climate change
 Anchored phylogenomics of angiosperms I: Assessing the robustness of phylogenetic estimates
 Ancient, but not recent, population declines have had a genetic impact on alpine yellow-bellied toad populations, suggesting potential for complete recovery
 Chromosomal rearrangements in holocentric organisms lead to reproductive isolation by hybrid dysfunction: The correlation between karyotype rearrangements and germination rates in sedges
 Conservation genetics of rare trees restricted to subtropical montane cloud forests in southern China: a case study from *Quercus arbutifolia* (Fagaceae)
 Eastern redcedar dendrochronology links hill prairie decline with decoupling from climatic control of fire regime and reduced fire frequency
 Ecology, environment and evolutionary history influence genetic structure in five mammal species from the Italian Alps
 Evaluating forest subcanopy response to moderate severity disturbance and contribution to ecosystem-level productivity and resilience
 Finding the genomic basis of local adaptation: Pitfalls, practical solutions, and future directions
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 Mature tree transplanting: science supports best management practice
 Megaphylogenetic specimen-level approaches to the *Carex* (Cyperaceae) phylogeny using ITS, ETS, and matK sequences: Implications for classification
 Municipal tree risk assessment in the United States: Findings from a comprehensive survey of urban forest management
 Phosphorus cycling in deciduous forest soil differs between stands dominated by ecto- and arbuscular mycorrhizal trees
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 Resource stoichiometry and the biogeochemical consequences of nitrogen deposition in a mixed deciduous forest
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 Specimens at the center: An informatics workflow and toolkit for specimen-level analysis of public DNA database data
 Soil organic carbon distribution in roadside soils of Singapore
 Taking the long view: Integrating recorded, archaeological, paleoecological, and evolutionary data into ecological restoration
 Testing the accuracy of imaging software for measuring tree root volumes
 The importance of effective sampling for exploring the population dynamics of haploid–diploid seaweeds
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 Training the next generation of sedge taxonomists: School kids tackle sedge morphological diversity
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 Patterns of genomic diversification reflect differences in life history and reproductive biology between figs (*Ficus*) and the stone oaks (*Lithocarpus*)
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 A new Red List of Oaks: Informing conservation action and catalysing collaboration

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 Long Term Research in Environmental Biology: Demographic census data for thirty natural populations of American Ginseng: 1998-2016
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 Red List threat assessments for eastern Northern American ash trees
 Are there practical limits to urban tree species diversity?
 Strategies for sustainable tree planting in confined urban spaces
 Using Urban Forest Data to improve health and quality of life
 Saving Seeds: Optimally Planning Our Ex Situ Conservation Collections to Ensure Species' Evolutionary Potential
 Coordinating the IUCN red list of North American tree species: a special session at the USFS gene conservation of tree species workshop
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 Ex-situ conservation of *Quercus oglethorpensis* in living collections of arboreta and botanical gardens
 A genetic legacy of introgression confounds phylogeny and biogeography in oaks
 A time and a place for everything: phylogenetic history and geography as joint predictors of oak plastome phylogeny
 Abiotic niche partitioning and negative density dependence drive tree seedling survival in a tropical forest
 Abundance of manatees in Panama estimated from side-scan sonar
 Allopatric speciation despite historical gene flow: Divergence and hybridization in *Carex furva* and *C. lucennoiberica* (Cyperaceae) inferred from plastid and nuclear RAD-seq data
 Assessment of likelihood of failure using limited visual, basic, and advanced assessment techniques
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 Balancing selection maintains diversity in a cold tolerance gene in broadly distributed live oaks
 Banking on the future: progress, challenges and opportunities for the genetic conservation of forest trees
 Breaking RAD: an evaluation of the utility of restriction site-associated DNA sequencing for genome scans of adaptation
 Contrasting outcomes of species- and community-level analyses of the temporal consistency of functional composition
 Data quality in citizen science urban tree inventories
 Disorder in convergent floral nanostructures enhances signalling to bees
 Distribution and factors controlling soil organic carbon in the Chicago region, Illinois, USA
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 Emergent climate and CO₂ sensitivities of net primary productivity in ecosystem models do not agree with empirical data in temperate forests of eastern North America
 Farm types and farmer motivations to adapt: Implications for design of sustainable agricultural interventions in the rubber plantations of South West China
 Fine root growth response to soil-applied nitrogen and Paclobutrazol
 Floristic response to urbanization: Filtering of the bioregional flora in Indianapolis, Indiana, USA
 Ice ages leave genetic diversity 'hotspots' in Europe but not in Eastern North America
 Multiscale metrics differentiate among tallgrass prairie restorations and remnant ecosystems along a restorative continuum
 Phylogenomic inferences from reference-mapped and de novo assembled short-read sequence data using RADseq sequencing of California white oaks (*Quercus* section *Quercus*)
 Phylogenomics reveals a complex evolutionary history of lobed-leaf white oaks in western North America
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 Predicting population viability of a monocarpic perennial dune thistle using individual-based models
 Rangewide population differentiation and population substructure in *Quercus rubra* L.
 Relative influences of multiple sources of uncertainty on cumulative and incremental tree-ring-derived aboveground biomass estimates
 Relative susceptibility among arborvitae cultivars for the arborvitae leafminer (ALM)
 Responsible RAD: Striving for best practices in population genomic studies of adaptation
 Restored tallgrass prairies have reduced phylogenetic diversity compared with remnants
 SKELESIM: an extensible, general framework for population genetic simulation in R
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 Thinning effects on canopy structure and ground layer diversity in a burned mesic oak savanna
 Tissue culture using mature material for the conservation of oaks
 Towards durable multistakeholder-generated solutions: The pilot application of a problem-oriented policy learning protocol to legality verification and community rights in Peru
 Variation in urban forest productivity and response to extreme drought across a large metropolitan region

Oaks Physiological Ecology. Exploring the Functional Diversity of Genus *Quercus* L.
Plant Conservation Science and Practice: The Role of Botanic Gardens
Building a tree observatory
Novel insights into karyotype evolution and whole genome duplications in legumes
International Encyclopedia of Geography: People, the Earth, Environment and Technology
Joining Forces for Genetic Conservation
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Quercus oglethorpensis W.H. Duncan: Ex-Situ Conservation Through Collaborative Cultivation
Urban Forest Sustainability

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Assessing the benefits and costs of the urban forest
Status and population fluctuations of the eastern prairie fringed orchid [*Platanthera leucophaea* (Nutt.) Lindl] in Illinois
Vegetation of New Zealand, by P. Wardle [book review]
British Plant Communities. Volume 2. Mires and Heaths, By J.S. Rodwell [book review]
Directional Variation in Little-leaf Linden (*Tilia cordata* Mill.) Crown Development
The Effect of Backfill Soil Texture and Planting Hole Shape on Root Regeneration of Transplanted Green Ash

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A new member of the clover proliferation phytoplasma group (16SrVI) associated with elm yellows in Illinois
Resistance of ulmaceae to feeding by the adult elm leaf beetle (Coleoptera: Chrysomelidae)
Population Viability in Plants: Conservation, Management, and Modeling of Rare Plants
Mead's Milkweed (*Asclepias meadii*) Recovery Plan
Twenty-year Changes in Burned and Unburned Sand Prairie Remnants in Northwestern Illinois and Implications for Management
Twenty-year Woody Vegetation Changes in Northern Flatwoods and Mesic Forest at Ryerson Conservation Area, Lake County, Illinois
Pre-European Settlement Vegetation of Kane County, Illinois
Effects of Restoration Management on the Santa Fe Prairie

Calendar Year 2018 Staff Publications (37 records)

Phylogenetic Diversity
Prescription side effects: Long-term, high-frequency controlled burning enhances nitrogen availability in an Illinois oak-dominated forest
Chicago Region Trees Initiative Master Plan 2050
Homogenization of plant diversity, composition, and structure in North American urban yards
Soil carbon stocks across tropical forests of Panama regulated by base cation effects on fine roots
Sympatric parallel diversification of major oak clades in the Americas and the origins of Mexican species diversity
In tallgrass prairie restorations, relatedness influences neighborhood-scale plant invasion while resource availability influences site-scale invasion
A New Framework for Evaluating Estimates of Symbiotic Nitrogen Fixation in Forests
Are there practical limits to urban tree diversity?
What's happening to spruces and pines?
Mulch and water before winter
Management of Invasive Plants and Pests of Illinois
Determination of Death Dates of Coarse Woody Debris of Multiple Species in the Central Hardwood Region (Indiana, USA)
BGCI and IABG's Species Recovery Manual
Implementing a new approach to effective conservation of genetic diversity, with ash (*Fraxinus excelsior*) in the UK as a case study
Next-generation conservation genetics and biodiversity monitoring
Differentiation measures for conservation genetics
Guidelines for planning genomic assessment and monitoring of locally adaptive variation to inform species conservation
Associated morphometric and geospatial differentiation among 98 species of stone oaks (*Lithocarpus*)
Linking Science and Practice for Oak Ecosystem Recovery in the Chicago Wilderness Region
The spatial structure of phylogenetic and functional diversity in the United States and Canada: An example using the sedge family (Cyperaceae)
Research Brief: Prescription side effects: Long-term, high-frequency controlled burning enhances nitrogen availability in an Illinois oak-dominated forest
Gaining a global perspective on Fagaceae genomic diversification and adaptation
The role of diversification in community assembly of the oaks (*Quercus* L.) across the continental U.S.

RAD-seq linkage mapping and patterns of segregation distortion in sedges: meiosis as a driver of karyotypic evolution in organisms with holocentric chromosomes
 A nuclear DNA barcode for eastern North American oaks and application to a study of hybridization in an Arboretum setting
 Phylogeny and biogeography of East Asian evergreen oaks (*Quercus* section *Cyclobalanopsis*; Fagaceae): Insights into the Cenozoic history of evergreen broad-leaved forests in subtropical Asia
 Integrative conservation genetics: Prioritizing populations using climate predictions, adaptive potential and habitat connectivity
 Optimizing Conservation Strategies for a Threatened Tree Species: In Situ Conservation of White Ash (*Fraxinus americana* L.) Genetic Diversity through Insecticide Treatment
 North American Crop Wild Relatives
 'Intentional Genetic Manipulation' as a conservation threat
 Drought timing and local climate determine the sensitivity of eastern temperate forests to drought
 Genome Size, Ploidy, and Base Composition of Wild and Cultivated *Acer*
 Chicago Region Trees Initiative Master Plan 2050: Executive Summary
 The Oaks of the Americas Conservation Network
 IAPT chromosome data 28
 Supporting Achievement of the Aichi Biodiversity Target 12 of the Strategic Plan for Biodiversity 2011-2020

Calendar Year 1995 Staff Publications (5 records)

Nolina cismontana (Nolinaceae), a New Species Name for an Old Taxon
 An Intensively Studied Rainforest. Review of *LaSelva: Ecology and Natural History of a Neotropical Rain Forest* [book review]
 A new species of *Zygadenus* (Liliaceae)
 U.S. National Arboretum is working toward sustainable production of pathogen free compost and mulch
 Effect of "Near-Lethal" heat stress on bud dormancy and stem cold hardiness in red-osier dogwood

Calendar Year 1967 Staff Publications (2 records)

Variation in *Amelanchier* (Rosaceae) and *Centaurium* (Gentianaceae)
Dodecatheon (Primulaceae) in Caddo Canyons

Calendar Year 1969 Staff Publications (1 record)

Bionomics of the Juniper Webworm

Calendar Year 1970 Staff Publications (3 records)

Spiranthes parasitica and *Corallorhiza wisteriana* (Orchidaceae) New to New Mexico
 The Characteristics Used in the "New Systematics" Approach to Classifying the Gramineae
 Another ice age on the way?

Calendar Year 1972 Staff Publications (3 records)

A New Variety of *Salvia betuliifolia* (Labiatae)
 A New Species of *Gibasis* (Ckommelinaceae) from Northern New Mexico
 Variation within *Calochortus venustus* (Liliaceae)

Calendar Year 1976 Staff Publications (1 record)

A Revision of *Eriogonum* (Polygonaceae) subgenus *Pterogonum*

Calendar Year 1978 Staff Publications (2 records)

Kane County Natural Area Survey
 Phytosociological and ordination analyses of the tree stratum of the beech-maple forest type

Calendar Year 1979 Staff Publications (2 records)

The Date of the Linnaean Index in John Martyn's *Historia plantarum rariorum*
 The Identity of *Cornus citrifolia* Weston

Calendar Year 1981 Staff Publications (4 records)

Proceedings of the Sixth North American Prairie Conference
 Hunting policies on nature preserves and natural areas in eleven Midwestern states
 A Correction Involving *Rhamnus citrifolia* (Weston)
 Endangered and threatened vertebrate animals and vascular plants of Illinois

Calendar Year 1983 Staff Publications (2 records)

The Tallgrass Prairie Orchids *Platanthera leucophaea* (Nutt.) Lindl. and *Cypripedium candidum* Muhl. ex Willd.: Some Aspects of Their Status, Biology, and Ecology, and Implications Toward Management
 Catastrophic wind disturbance in an old-growth hemlock-hardwood forest, Wisconsin

Calendar Year 1989 Staff Publications (5 records)

An Approach to Delineation and Quality Assessment of Wetlands in the Chicago Region
Effects of land use stochastic events on the heart-leaved plantain (*Plantago cordata* Lam.) in an Illinois stream system
Bluff Springs Fen Nature Preserve: Checklist of Vascular Plant Taxa
Fostering environmental awareness: an education role for public gardens?
Endangered and Threatened Wildlife and Plants; Determination of Threatened Status for Eastern and Western Prairie Fringed Orchids

Calendar Year 1985 Staff Publications (4 records)

Aluminum Effects on Rooting Habits of Sugar Maple & On the Nutrient Balance of Sugar Maple, Red Maple, & Red Oak Growth in Sand Culture
Nelson Lake Baseline Study
The prairie fringed orchids: a pollinator-isolated species pair
Recommended Shrubby *Potentilla* Cultivars for the Midwest

Calendar Year 1986 Staff Publications (8 records)

New County Records for the Flora of Illinois
Earthworm Bioassay Procedures to Evaluate the Extent of Aerially Dispersed Lead and Cadmium in an Urban Arboretum
New and Noteworthy Macrolichens from Missouri
Shrub layer response to death of *Ulmus americana* in southeastern Wisconsin lowland forests
Endangered Plant Inventory And Monitoring Strategies at Indiana Dunes National Lakeshore
Bluff City Fen: Communities, Vegetation History, and Management
Strip-Mine Reclamation Using Dredged Material
Baseline Population and Community Status for Rare Plant Taxa at Lookout Point and Wabash Breaks Dry Gravel Prairies, Tippecanoe Co., Indiana

Calendar Year 1987 Staff Publications (13 records)

Post-settlement changes in tree composition of southeastern Wisconsin forested wetlands
Relationship of vegetation layers to soils in southeastern Wisconsin forested wetlands
A comparison of floodplain and basin forested wetlands and soils of southeastern Wisconsin
Response of wetland herbaceous communities to gradients of light and substrate following disturbance by thermal pollution
Wolffia papulifera Thompson (Lemnaceae) new to Michigan
A Taxonomic revision of *Vauquelinia* (Rosaceae)
Revegetation of a *Taxodium-Nyssa* forested wetland following complete vegetation destruction
Landscape Heterogeneity and Disturbance
Tree Inventory, Tree Appraisal, and Soil Resource Inventory of a Portion of the Northwestern University Campus, Evanston, Illinois
Establishment of a Native Midwestern Wetland Plant Community Through Relocation of Marsh Topsoil
Punctelia perreticulata, a distinct lichen species
Macrolichens of DuPage County, Illinois
Des Plaines River Wetlands Demonstration Project: Seed Bank Study, Preliminary Results

Calendar Year 1988 Staff Publications (7 records)

Sumacs: Spectacle in Autumn
The Illinois Status of *Liatris scariosa* (L.) Wild. VAR. *Nieuwlandii* Lunell: A New Threatened Species for Illinois
Status and restoration of *Plantago cordata* in the southern Lake Michigan Region
Species-area parameter estimation: testing the null model of lack of relationship
Conidial nuclei in three species of Diatrypaceae and *Diaporthe vaccinii*
Evolutionary aspects of ascospore and conidium ontogeny in *Scolecocetreria cucurbitula*
Natural Area Assessment in Chicago Region

Calendar Year 1990 Staff Publications (5 records)

Evaluating Vegetative Communities by Edaphic Conditions at the West Chicago Prairie, West Chicago, Illinois
Effects of anthropogenic disturbances on endangered and threatened plants at the Indiana Dunes National Lakeshore
The history of *Murdannia keisak* (Commelinaceae) in the southeastern United States
The relationship of light and plant geometry to self-thinning of an aquatic annual herb, *Murdannia keisak* (Comelinaceae)
A New Status for *Quercus shumardii* Buckl. Var. *acerifolia*

Calendar Year 1991 Staff Publications (13 records)

Quantitative Methods in Landscape Ecology

Wolf Road Prairie--How can it survive?

The Human Impact on the Natural Environment, by A. Goudie [book review]

Rarely seen endangered plants, rediscoveries, and species new to Illinois

Plant Canopies: Their Growth, Form and Function, by G. Russell, B. Marshall, and P.G. Jarvis [book review]

Monitoring for Conservation and Ecology by F. B. Goldsmith [book review]

British Plant Communities. Volume 1. Woodlands and Scrub, by J.S. Rodwell [book review]

Some aspects of the status and ecology of seven rare wetland plant species in the Chicago region of northeastern Illinois

Population structure, biomass allocations, and phenotypic plasticity in *Murdannia keisak* (Commelinaceae)

Effects of site, landscape features, and fire regime on vegetation patterns in presettlement southern Wisconsin

The effect of low oxygen stress on disease development of *Phytophthora cinnamomi* in *Quercus suber* roots

Soil Aeration and Tree Health: Correlating Soil Oxygen Measurements With the Decline of Established Oaks

Diversity of Springtail Insects in Restored Prairie

Calendar Year 1993 Staff Publications (10 records)

British Plant Communities. Volume 3. Grassland and Montane Communities, by J.S. Rodwell [book review]

Propagation of rare plants from historic seed collections--implications for rare species restoration and herbarium management

Recovery Planning and reintroduction of the federally threatened Pitcher's thistle (*Cirsium pitcheri*) in Illinois

Ecological benefits of the Conservation Reserve Program

The effect of water stress on infection and canker development of *Botryosphaeria stevensii*, *Hypoxylon mediterraneum*, and *Coryneum* sp on cork oak.

Regeneration of Girdling Roots After Removal

The Influence of Backfill Soil Amendments of Establishment of Container-Grown Shrubs

John T. Curtis : fifty years of Wisconsin plant ecology

The landscape below ground : proceedings of an International Workshop on Tree Root Development in Urban Soils

Long-Term Grazing Effects on Sand Prairie and Grassland Bird Habitat at the Savanna Army Depot: With Recommendations for Management and Recovery

Calendar Year 1994 Staff Publications (10 records)

Restoration of Endangered Species: Conceptual Issues, Planning, and Implementation

Gaps in GAP

Screening three *Cercis* species for resistance to *Verticillium* Wilt

The identification of *Armillaria* species in California

First report of *Phytophthora cactorum* causing root and collar rot of apple in NE Spain

Role of glutathione on recovery of red-osier dogwood plants from "Near-Lethal" heat stress

Root Growth Response to Fertilizers

North American Conference on Savannas and Barrens

Landscape pattern and structure of oak savanna, woodland, and barrens in Northeastern Illinois at the time of European settlement

Results of a Systematic Search for *Thismia americana* Pfeiffer in Illinois

Calendar Year 1996 Staff Publications (19 records)

Science and Ecosystem Management in the National Parks

Restoring Diversity: Strategies For Reintroduction Of Endangered Plants

Urban Forestry Laboratory Exercises for Elementary, Middle and High School Students

Corridors for wildlife (letter to Editor)

Our nation's lands. Review of: These American Lands: Parks, Wilderness, and the Public Lands by D. Zaslowsky and T.H. Watkins

Temporal change in vegetation structure in a fire-managed prairie fen.

Principles and Practice of Plant Conservation, by D.R. Given [book review]

Recovery plan for the leafy prairie clover *Dalea foliosa* (Leafy Prairie-clover) (Gray) Barneby

The effect of flooding and *Phytophthora* root rot on ornamental cherry

Differential resistance to *Entomosporium* leafspot disease and hydrogen cyanide potential in photinia

High and low performing crabapples during abnormally high disease pressure

Environmental factors influencing the distribution of the lichen *Lobaria oregana* and *L. pulmonaria*

Lichen pendants for transplant and growth experiments

Effect of formaldehyde-enriched mists on Douglas fir (*Pseudotsuga menziesii*) and lichen (*Lobaria pulmonaria*)

When the Roots Go Round and Round

Replacing Soil in the Root Zone of Mature Trees for Better Growth

GIS and Environmental Modeling: Progress and Research Issues

Evaluation and Classification of Savanna, Woodland, and Barrens Natural Areas in Northern Illinois

Vegetation Composition, Structure, and Temporal Change in a Midwestern Silt-Loam Mesic Savanna

Calendar Year 1997 Staff Publications (9 records)

Endangered species: "Hot Spots"
Saving pieces of Nature at The Morton Arboretum
Rare plant reintroduction. Review of Restoring Diversity: Strategies for Reintroduction of Endangered Plants, by D.A. Falk, C.I. Millar, and M. Olwell [book review]
Managing Habitats for Conservation, by W.J. Sutherland and D.A. Hill [book review]
Seasonal growth dynamics of *Lobaria pulmonaria*
Rooting Responses of Three Oak Species to Low Oxygen Stress
The Effect of Low Oxygen Stress on *Phytophthora cinnamomi* Infection and Disease of Cork Oak Roots
Principles and Practice of Planting Trees and Shrubs
Restoration Ecology of Lupine (*Lupinus Perennis*) in the North Unit of Illinois Beach State Park: Two-Year Results

Calendar Year 1999 Staff Publications (11 records)

Species richness indices spreadsheet for graminoid and herbaceous plant communities
Eastern Prairie Fringed Orchid *Platanthera leucophaea* (Nut tall) Lindley Recovery Plan
A new hybrid of *Spiraea* (Rosaceae) from Oregon
Dutch Elm Disease in the Chicago Area 1970-1996
Botryosphaeria dothidea breaks endodormancy and reduces cold hardiness in *Cercis canadensis*
Evaluation of new elms from China for stress tolerance
Application of potassium silicate reduces feeding damage to sargent crabapple leaf tissues by adult Japanese beetles
Savannas, Barrens, and Rock Outcrop Plant Communities of North America
Proceedings of the National Seminar on Indonesian Plant Conservation. Upt Balai Pengembangan Kebun Raya Lembaga Ilmu Pengetahuan Indonesia
Ten years in a backyard prairie
Establishing Recovery Targets for Illinois Plants

Calendar Year 1998 Staff Publications (20 records)

Scientists study forest patterns and change at Ryerson Woods
Chicago Botanic Garden and The Morton Arboretum: Team players in Chicago Wilderness
Management and Restoration Ecology of the federal threatened Meads milkweed, *Asclepias meadii* (Asclepiaceae)
Genetic variability in the federal threatened Meads milkweed, *Asclepias meadii* Torrey (Asclepiaceae) determined by allozyme electrophoresis
Vegetation composition, structure, and chronological change in a decadent midwestern North American savanna remnant
Propagation techniques used in establishing a greenhouse population of *Astragalus tennesseensis* Gray.
Diversity and abundance of springtails (Insecta:Collembola) in native and restored tallgrass prairies
Species status for *Quercus acerifolia*
Taxonomic status of *Quercus acerifolia* (Fagaceae) and a morphological comparison of four members of the *Quercus shumardii* complex
Plant Health is Rooted in Prevention
Current DED outbreaks are caused by the same old fungi, but one has a new name
How much did the severe outbreak of scab on crabapple in 1995 influence scab levels in 1996?
Comparison of cultural and morphological characters and ITS sequences in anamorphs of *Botryosphaeria* and related taxa
In vitro effect of formaldehyde on Douglas-fir pollen
Stem cold hardiness, leaf heat tolerance, growth and performance of six Japanese maples (*Acer palmatum*) for Northern Illinois
Application of processed fiber for nursery crop production
Tree Growth After Trenching and Compensatory Crown Pruning
The landscape below ground II : proceedings of a second International Workshop on Tree Root Development in Urban Soils
Illinois Small Community Tree Programs: Attitudes, Status, and Needs
Landscape Vegetation Pattern, Composition, and Structure of DuPage County, Illinois, as Recorded by the U.S. Public Land Survey (1821-1840)

Calendar Year 2000 Staff Publications (10 records)

Structural composition and species richness indices for upland forests of the Illinois Chicago Region
Eclectic Ecology. Review of Landscape Ecological Analysis: Issues and Applications [book review]
Conservation in Highly Fragmented Landscapes, by M.W. Schwartz [book review]
Inhibition of fungal pathogens of woody plants by the plant growth regulator paclobutrazol
The effect of Biobarrier on mycorrhizae in oak and sweetgum
Root Growth of *Quercus crassifolia*, *Q. crassipes* and *Fraxinus uhdei* in Two Different Soil Types

The Elms : breeding, conservation, and disease management
Mycorrhizal Fungi and Cold-assisted Symbiotic Germination of the Federally Threatened Eastern Prairie Fringed Orchid, *Platanthera leucophaea* (Nuttall) Lindley
Twenty-Year Woody Vegetation Changes in Northeastern Illinois Upland Forests
Vegetation Change After Thirteen Years of Fire Management of a Northeastern Illinois Oak Woodland

Calendar Year 2002 Staff Publications (8 records)

Tree & Shrub Handbook: Selection, Care, Pests, Diseases
Recovery Plan for the Pitcher's Thistle (*Cirsium pitcheri*)
Variation in field susceptibility of native and exotic ash species to anthracnose
Differential Resistance to *Botryosphaeria ribis* Among *Cercis* Taxa
Clonal Population Structure of the Federal Threatened Mead's Milkweed, as Determined by RAPD Analysis, and its Conservation Implications
Crossing Effects on Seed Viability and Experimental Germination of the Federal Threatened *Platanthera leucophaea* (Orchidaceae)
Reintroducing Pitcher's Thistle
Pre-European Settlement Vegetation of Cook County, Illinois

Calendar Year 1982 Staff Publications (1 record)

Carex X deamii Herm. (Cyperaceae) in Illinois

Calendar Year 1984 Staff Publications (2 records)

The Vascular Flora of Iroquois County, Illinois: A Thesis Presented to The Faculty of the Department of Biology
Northeastern Illinois University
Sibiraea laevigata: a promising dwarf shrub

Calendar Year 2001 Staff Publications (3 records)

Diseases of Woody Ornamentals in Nurseries
Restoration of The Federally Threatened Mead's Milkweed (*Asclepias meadii*)
Historic Landscape Vegetation Pattern, Composition, and Structure of Will County, Illinois, as Recorded by the U.S. Public Land Survey (1821-1838)

Calendar Year 2019 Staff Publications (60 records)

Global patterns in fine root decomposition: climate, chemistry, mycorrhizal association and woodiness
East Asian origins of European holly oaks (*Quercus* section *Ilex* Loudon) via the Tibet-Himalaya
Timing and ecological priority shaped the diversification of sedges in the Himalaya
Demography and destiny: The syngameon in hyperdiverse systems
Major Asian Lineages of the Family Fagaceae
Comment on "Eocene Fagaceae from Patagonia and Gondwanan legacy in Asian rainforests"
Microbes to Bobcats: Biological Refugia of Appalachian Reclaimed Coal Mines
BGCI Technical Review: The role of botanic gardens in urban greening and conserving urban biodiversity
The Role of Gardens in Integrated Conservation Practice: The Case of Conserving *Quercus Brandegeei* in Baja California Sur, Mexico
The Morton Arboretum's Oak Conservation Efforts in Latin America
Ancient events and climate adaptive capacity shaped distinct chloroplast genetic structure in the oak lineages
A tale of worldwide success: Behind the scenes of *Carex* (Cyperaceae) biogeography and diversification
Genomic Identity of White Oak Species in an Eastern North American Syngameon
Different responses of absorptive roots and arbuscular mycorrhizal fungi to fertilization provide diverse nutrient acquisition strategies in Chinese fir
Drone-based photogrammetry for the construction of high-resolution models of individual trees
Conservation Gap Analysis of Native U.S. Oaks
The benefits of trees for livable and sustainable communities
Plant phylogenetic history explains in-stream decomposition at a global scale
Intersecting urban forestry and botanical gardens to address big challenges for healthier trees, people, and cities
Intraspecific Fine-Root Trait-Environment Relationships across Interior Douglas-Fir Forests of Western Canada
Rapid plant speciation associated with the last glacial period: reproductive isolation and genetic drift in sedges
Biogeochemical recuperation of lowland tropical forest during succession
Pattern of Diversity among Pistillate Scales of the Western Himalayan *Carex* spp. (Cyperaceae):
Morphological and molecular inferences
"Pharaoh's Dance": the Oak Genomic Mosaic
Population Genetics of *Quercus macrocarpa*
Inference of biogeographic history by formally integrating distinct lines of evidence: genetic, environmental niche and fossil
'Intentional Genetic Manipulation' as a conservation threat
Toward the Metacollection: Coordinating conservation collections to safeguard plant diversity

Plant Collections Network Multisite Quercus Collection
 Post-Conference Tour October 25-26, 2018 San Francisco Bay Area
 Global mycorrhizal plant distribution linked to terrestrial carbon stocks
 Physical and Functional Constraints on Viable Belowground Acquisition Strategies
 Impact of Planting Depth on *Fraxinus pennsylvanica* 'Patmore' Growth, Stability, and Root System Morphology
 Why are white oak trees dying?
 What's in an Arboretum?
 The biophysics, ecology, and biogeochemistry of functionally diverse, vertically and horizontally heterogeneous ecosystems: the Ecosystem Demography model, version 2.2 – Part 1: Model description
 How do climate change experiments alter plot-scale climate?
 Tree Seedling Root Architecture Alteration by Tap Root Pruning
 Species Variation in Root Tolerance of Soil Compaction and Poor Drainage
 Landscape Below Ground IV: Introduction to a Special Issue
 Mature Tree Transplanting: Science Supports Best Management Practice
 Strategies for Sustainable Tree Planting in Confined Urban Spaces
 Pervasive decreases in living vegetation carbon turnover time across forest climate zones
 Lifetime reproductive success of northern elephant seals (*Mirounga angustirostris*)
 Testing for changes in biomass dynamics in large-scale forest datasets
 Performance of tropical forest seedlings under shade and drought: an interspecific trade-off in demographic responses
 Correlated evolution of morphology, gas exchange, growth rates and hydraulics as a response to precipitation and temperature regimes in oaks (*Quercus*)
 How sensitive are climatic niche inferences to distribution data sampling? A comparison of Biota of North America Program (BONAP) and Global Biodiversity Information Facility (GBIF) datasets
 Genomic landscape of the global oak phylogeny
 Spatio-temporal heterogeneity in extracellular enzyme activities tracks variation in saprotrophic fungal biomass in a temperate hardwood forest
 Forest Health Issues 2019: An Overview
 Fine-root traits are linked to species dynamics in a successional plant community
 Global meta-analysis reveals different patterns of root tip adjustments by angiosperm and gymnosperm trees in response to environmental gradients
 Community-level economics spectrum of fine roots driven by nutrient limitations in subalpine forests
 New guidance for ex situ gene conservation: Sampling realistic population systems and accounting for collection attrition
 Conifer responses to a stilet feeding invasive herbivore and induction with methyl jasmonate: impact on the expression of induced defences and a native folivore
 How are nitrogen availability, fine-root mass, and nitrogen uptake related empirically? Implications for models and theory
 Effects of climate on the growth response and anatomical tradeoffs of red and white oak
 Forecasting tree phenology and climate vulnerability by leveraging botanic garden collections and citizen science observations
 The benefits of trees for livable and sustainable communities [Poster]

Calendar Year 2020 Staff Publications (34 records)

Uncovering the genomic signature of ancient introgression between white oak lineages (*Quercus*)
 Fine-root morphological trait variation in tropical forest ecosystems: an evidence synthesis.
 Plant diversity increases in an urban wildland after four decades of unaided vegetation development in a post-industrial site
 Can a Botanic Garden Metacollection Better Conserve Wild Plant Diversity? A Case Study Comparing Pooled Collections with an Ideal Sampling Model
 Biodiversity bottlenecks
 Large trees establish more rapidly when transplanted bare root
 The oak syngameon: more than the sum of its parts
 Each Year in the Forest: Spring
 Genetic biodiversity conservation post 2020: suggestions on the wording of biodiversity goals, feasible indicators, and technical definitions.
 Taxonomic similarity does not predict necessary sample size for ex situ conservation: a comparison among five genera
 Post-2020 goals overlook genetic diversity
 Oaks: an evolutionary success story
 Collaboration and Conservation: The Nationally Accredited Multisite Quercus Collection
 Open Science principles for accelerating trait-based science across the Tree of Life
 TRY plant trait database – enhanced coverage and open access
 Changes in Tree Root Architecture Resulting from Field Nursery Production Practices

Each Year in the Forest: Winter
 Conceptualizing social-ecological drivers of change in urban forest patches
 Genetic diversity targets and indicators in the CBD post-2020 Global Biodiversity Framework must be improved
 The fungal collaboration gradient dominates the root economics space in plants
 Trees of Panama: A complete checklist with every geographic range
 Mycorrhizal Association Better Predicts Tree Effects on Soil Than Leaf Habit
 How Oak Trees Evolved to Rule the Forests of the Northern Hemisphere
 Climate and phylogenetic history structure morphological and architectural trait variation among fine root orders
Amyntas spp. impacts on seedlings and forest soils are tree species-dependent
 A new classification of *Carex* (Cyperaceae) subgenera supported by a HybSeq backbone phylogenetic tree
 Botanic garden solutions to the plant extinction crisis
 Illustrated Glossary Supplement to Flora of the Chicago Region
 Conservation Through Collaboration: Ensuring Genetic Diversity in Garden Collections
 Proposed species extinction target fails to capture the diversity in biodiversity
 Grafting has enormous ex-situ conservation potential
 Strain Patterns Across the Root-Stem Transition Zone in Urban Trees
 Grafting has enormous ex-situ conservation potential
 The Landscape Below Ground IV: Proceedings of the Fourth International Workshop on Tree Root Development in Urban Soils

Datasets

Forest Ecology (9 records)

Arboretum Land Use Core Analysis
 Arboretum Phenology and Climate Response
 Coastal Pines Tree Cores
 Chicago Urban Forest Study (CUFS) Tree Cores
 Flatwoods Tree Cores
 Invasive Species Phenology (IMSA SIR 2017)
 Timing of stem growth for Oaks from around the world
 Phenology of Oaks from around the world
 LaRue Pine Hills Tree Cores

Clean Lakes Grant Datasets (14 records)

Data: Inflow
 Data: Marmo
 Data: Meadow
 Data: Overflow
 Data: Sterling
 Elm Collection Water Table and Meadow Lake Staff Gauge
 Elm Collection Water Table Elevations
 Elm Collection Water Wells Particle Size Analysis
 Lakes: Staff Gauge Data
 Meadow Lake Erosion Survey
 Meadow Lake Erosion Slopes
 Storm Event Water Sample
 Survey Data
 Waterfowl Survey

Morton Forestry Plots (3 records)

Morton Forestry Plots: Minirhizotrons and Roots
 Morton Forestry Plots: Phenocams and Leaves
 Morton Forestry Plots: Dendrometer Bands and Woody Stems

Undergraduate Research Fellows/Research Experience for Undergraduates

2018 Undergraduate Research Fellow Cohort (4 records)

Ecosystem model simulations of effects of soil and fire on prairie-forest ecosystem states
 Summer 2018 Forestry Plots: Leaf Habit versus Mycorrhizal Fungi Association: A Framework for Predicting Temperate Tree Species Effects on Soil
 Species richness protects prairie species from vole herbivory
 Foliar Nutrient Concentrations of Understory Plants in a Chronically Fertilized Lowland Tropical Wet Forest in Costa Rica

2019 Research Experience for Undergraduates Cohort

(4 records)

The Impacts of Fine Root Mass and Soil Nitrogen Availability on Nitrogen Uptake Rate in Trees
Comparison of growth and recovery in response to drought stress across wood types
Using Open Source Data to Identify Conservation Priorities at Large Spatial Scales
Tree Growth Data

2020 Research Experience for Undergraduates Cohort (14 records)

U.S Wild Harvested Tree Species: A Conservation Snapshot
Exploring Remotely Sensed Data as an Indicator of Phenological Sensitivity in Oaks
Exploring Barriers to Recruitment of Transplanted Seedlings of the Endangered *Quercus Brandegeei*
The Effects of Forest Type on Ground Beetle Abundance and Diversity
Sap flow variation in response to environmental factors in American sycamores
Tree growth in response to slope in a Highway Setting
Sampling to capture the most genetic diversity when population sizes vary in a rare species
Early Detection and Rapid Response: Tree of Heaven (*Ailanthus altissima*) Monitoring
Demography of an Endangered Oak
[Tree Conservation Ecology Group - Population Distribution of *Quercus brandegeei*]
A Robust Computer Vision Algorithm for Tracking Tree Branches
2020 Research Experiences for Undergraduates (REU) Symposium: Keynote Speaker: Dr. Tanisha Williams
2020 Research Experiences for Undergraduates (REU) Symposium: Introduction by Chuck Cannon
Trait variation of gymnosperm fine roots