



BIOMEDICAL ENGINEERING

- ✂ **Biomaterials, Drug Delivery and Drug Discovery**
Coulombe, Darling, Desai, Doyle, Hoffman-Kim, Jay, Kofron, Mathiowitz, Morgan, Raimondo, Shukla, Srivastava, Tripathi, Wong, Xu
- ✂ **Biomedical Optics and Biophotonics**
Lee, Nurmikko, Pacifici, Toussaint, Xu
- ✂ **Biomolecular Engineering and Nanomedicine**
Dawson, Desai, Hurt, Mathiowitz, Palmore, Raimondo, Shukla, Tripathi
- ✂ **Biosensors and Bioplatfroms**
Borton, Coulombe, Lee, Morgan, Pacifici, Palmore, Rose, Rosenstein, Shukla, Tripathi, Wong, Xu
- ✂ **Mechanobiology and Motion Sciences**
Coulombe, Crisco, Darling, Dawson, Desai, Fleming, Jay, Kesari, Morgan, Srivastava, Toussaint, Wong
- ✂ **Neuroengineering and Brain-Computer Interfaces**
Borton, Hochberg, Lee, Nurmikko, Simeral
- ✂ **Repair and Regenerative Medicine**
Coulombe, Darling, Dawson, Desai, Fleming, Hoffman-Kim, Kofron, Morgan, Raimondo, Shukla
- ✂ **Tissue Engineering and Stem Cell Technology**
Coulombe, Darling, Dawson, Desai, Harris, Hoffman-Kim, Kofron, Palmore, Raimondo, Shukla, Srivastava

CHEMICAL AND ENVIRONMENTAL ENGINEERING

- ✂ **Alternative and Sustainable Fuels**
Goldsmith, Kulaots, Lin, Palmore, Peterson, Suuberg, Zeng
- ✂ **Biochemical Sensing**
Dawson, Pacifici, Palmore, Shukla, Tripathi, Xu
- ✂ **Biomaterials, Nanomaterials, and Composite Materials**
Abriola, Coulombe, Dawson, Desai, Hurt, Kesari, Pacifici, Padture, Pennell, Sheldon, Raimondo, Shukla, Tripathi, Wong, Xu
- ✂ **Carbon and Graphene-Based Materials**
Hurt, Kulaots, Lin, Padture, Sheldon, Suuberg, Xu
- ✂ **Catalysis and Reaction Kinetics**
Goldsmith, Kulaots, Peterson, Suuberg, Zeng
- ✂ **Computational Chemistry and Atomistic Modeling**
Goldsmith, Peterson, Qi, van de Walle
- ✂ **Electrochemical Energy Conversion**
Lin, Palmore, Peterson, Qi, Sheldon, Zeng
- ✂ **Environmental Processes**
Abriola, Dawson, Ibarra, Kulaots, Pennell, Suuberg, Wilhelmus
- ✂ **Environmental Remediation**
Abriola, Dawson, Goldsmith, Hurt, Kulaots, Pennell, Suuberg, Zeng
- ✂ **Environmental Exposure and Human Health**
Abriola, Coulombe, Hurt, Ibarra, Pennell, Suuberg, Wong

ELECTRICAL AND COMPUTER ENGINEERING

- ✂ **Computer Architecture and Embedded Systems**
Reda, Rosenstein, Simeral, Zhou
- ✂ **Computer Vision, Image and Medical Image Processing**
Felzenszwalb, Kimia, Reda, Taubin, Toussaint, Zhou, Zia
- ✂ **Digital Fabrication**
Gonsheer, Taubin
- ✂ **Electronic Materials and Devices**
Beresford, Caretta, Larson, Mittleman, Nurmikko, Pacifici, Padture, Paine, Qi, Xu, Zaslavsky, Zhou, Zia
- ✂ **Energy-Efficient and Thermal-Aware Computing Systems**
Reda, Rosenstein, Zhou
- ✂ **Energy Science (inc. Energy-Efficient Computing, Energy-Harvesting & Photovoltaics)**
S. Kim, Larson, Pacifici, Padture, Reda, Xu, Zaslavsky, Zhou, Zia
- ✂ **Integrated Circuit Design**
Larson, Reda, Rosenstein, Zhou
- ✂ **Mixed-Signal Electronics and Analog/Digital Design**
Larson, Reda, Rosenstein, Zaslavsky, Zhou
- ✂ **Molecular Informatics**
Doyle, Reda, Rose, Rosenstein
- ✂ **Nanophotonics, Plasmonics and THz**
Mittleman, Nurmikko, Pacifici, Toussaint, Xu, Zia
- ✂ **Neuroengineering and Brain-Computer Interfaces**
Borton, Hochberg, Larson, Nurmikko, Simeral
- ✂ **Robotics and Industrial Automation**
Ayanian, Kimia, Taubin, Zhou
- ✂ **Sensor Networks, Smart Cameras, Networked Systems, and Signal Processing**
Ayanian, Felzenszwalb, Gray, Kimia, Pacifici, Reda, Rose, Rosenstein, Taubin, Xu, Zaslavsky, Zhou
- ✂ **Wireless Communication and Power Transmission**
Borton, Larson, Mittleman, Nurmikko, Rose

FLUIDS AND THERMAL SCIENCES

- ✂ **Biomechanics, Biophysics, Biocomotion and Bio-Inspired Robotics**
Breuer, Dawson, Harris, Kesari, Powers, Rodriguez, Wilhelmus, Zenit
- ✂ **Fluid-Structure Interaction**
Bazilevs, Breuer, Harris, Karniadakis, Powers, Rodriguez, Wilhelmus, Zenit
- ✂ **Interfacial Dynamics and Surface Science**
Abriola, Desai, Harris, Kesari, Powers, Xu, Zenit
- ✂ **Micro and Nano-scale Mechanics and Dynamics**
Breuer, Dawson, Powers, Toussaint
- ✂ **Soft Matter, Complex Fluids, and Colloidal Sciences**
Abriola, Dawson, Desai, Harris, Henann, Hurt, Karniadakis, Kesari, Powers, Rodriguez, Shukla, Wong, Xu, Zenit

MATERIALS SCIENCE

- ✂ **Biomaterials**
Breuer, Coulombe, Dawson, Desai, Palmore, Raimondo, Shukla, Srivastava, Wong, Xu, Zenit
- ✂ **Electronic and Magnetic Materials**
Caretta, Chason, S. Kim, Kingon, Pacifici, Padture, Paine, Qi, Sheldon, van de Walle, Xu
- ✂ **Energy Materials**
Ibarra, Lin, Pacifici, Padture, Palmore, Paine, Peterson, Qi, Sheldon, Srivastava, van de Walle, Zia
- ✂ **High Temperature Materials**
Hurt, Padture, Qi, Sheldon, van de Walle
- ✂ **Thin Films**
Caretta, Chason, Desai, S. Kim, Pacifici, Padture, Paine, Qi, Sheldon, Shukla, Xu

SOLID MECHANICS

- ✂ **Biomaterials, Biomechanics, and Biophysics**
Bazilevs, Blume, Breuer, Clifton, Coulombe, Dawson, Desai, Kesari, Powers, Rodriguez, Srivastava, Zenit
- ✂ **Computational Mechanics**
Abriola, Bazilevs, Bessa, Curtin, Henann, Kesari, Rodriguez
- ✂ **Mechanics of Materials for Energy Storage**
Curtin, Guduru, K.S. Kim, Qi, Padture, Sheldon, Srivastava
- ✂ **Mechanics of Soft Materials (e.g. gels, polymers, granular matter)**
Blume, Clifton, Henann, Kesari, K.S. Kim, Powers, Rodriguez, Srivastava, Zenit
- ✂ **Mechanics of Thin Films and Surface Engineering**
Caretta, Chason, Guduru, K.S. Kim, Padture, Peterson, Qi, Sheldon, van de Walle
- ✂ **Nano and Micro-mechanics**
Bessa, Breuer, Chason, Clifton, Curtin, Kesari, K.S. Kim, Padture, Qi, Sheldon, Toussaint, Xu

STRUCTURAL MATERIALS

- ✂ **Structural Materials**
Bazilevs, Bessa, Clifton, Curtin, Guduru, Kesari, K.S. Kim, Padture, Sheldon, Srivastava, van de Walle, Xu

INNOVATION MGMT. AND DESIGN ENGINEERING

- ✂ **Appropriate Technology**
Altringer, Breuer, Duane, Gonsheer, Hazeltine, Kofron, Manfredi, Morales
- ✂ **Engineering Education**
Altringer, Gray, Harris, Kofron, Manfredi, Morales, Stuopis
- ✂ **Entrepreneurial Networks and Early Stage Enterprise Growth**
Ansari, Chaltas, Desai, Donohue, Duane, Harry, Kingon, Larson, McHugh, Ozkazanc-Pan, Suuberg, Warshay
- ✂ **Social Entrepreneurship, Inclusion, & Innovation**
Ansari, Gonsheer, Hazeltine, Kingon, Kofron, Morales, Ozkazanc-Pan, Warshay