

AUGUST ADDISON AULT ROBERT AUSTIN MICHAEL AVALTRONI SUSHOBHAN AVASTHI ANIRUDH BADAM OLGICA BAKAJIN MARC BALDO VLADIMIR BA
BERNASEK ABHISHEK BHATTACHARJEE LEONIDAS BLERIS JOSHUA BLOOM ANDREW BOCARSLY JAMES BOEHLERT CARSTEN BOREK SIGFUS BREIDFJ
ROBERT CARLSON MICHAEL CAROLUS MARTIN CASE AMY CAUDY ROBERT CAVA CALVIN CHAN WILLIAM CHARLES JIANXIN CHEN YU CHEN MUNG CHI
DAPPRICH MARCELO DAVANCO JOHN DAVIS SAVAS DAYANIK PARU DESHPANDE G. CHARLES DISMUKES PETER DJUROVICH YORK DOBYNS ARTHUR D
RUSH NATHANIEL FISCH JASON FLEISCHER MARIAN FLORESCU CHRISTODOULAS FLOUDAS STEPHEN FORREST KALE FRANZ PETER FRAZIER MARIA
GRAVES-ABE JOHN GROVES SAURABH GUPTA LIN HAN KENNETH HANSON CHRISTOPHER HARVEY WILDA HELEN DOUGLAS HIGGINS STEPHEN HOWAR
KIM JONG KIM JUSTIN KINNEY RACHEL KIPP EMRE KOYUNCU CHRISTINA KRAML KONSTANTIN KRAVTSOV THOMAS
LOO STEPHEN LOTESTA KEVIN LOUTHERBACK BIN MA PETER MACKENZIE DAVID MACMILLAN RICHARD MAJESKI ADAM MALOOF PRASHANT MANDL
LEOD LEWIS MEIXLER ALEXANDRE MERMILLOD-BLONDIN TROY MESTLER JAMES MICHAEL JOSEPH MICHELS KIM MIDWOOD RICHARD MILES DAVID
NECATI DIANA NEGOESCU WAI-LEUNG NG CHRISTOPHER OBER COLLEEN O'LOUGHLIN YUSUF ONI DMITRY OPAITS BULENT OZBAS PATRICK PAD
MIANEK/BOLITHO H.VINCE POOR WARREN POWELL PAUL PRUCNAL ROBERT PRUD'HOMME JASON PUCHALLA XIANGFEI QI YABING QI YI QI JOSHUA
R WILLIAM RUSSEL BRADLEY SAMUELS LINDA SAPOCHAK XENIA SCHAFFER CHRISTOPH SCHANIEL STEPHAN SCHAUDER GEORGE SCHERER MIKHA
IL SHI YIGONG SHI MIKHAIL SHNEIDER KEVAN SHOKAT ANDRE SHOUSTIKOV MAX SHTEIN SCOTT SIBLEY ROBERT SILICIANO GEORGIOS SKRET
SUAREZ YIRU SUN LEE SWEM GERRY SWIEGERS ARNOLD TAMAYO DAVID TANK JACOB TARVER MARTIN TAYLOR JONAS TEGENFELDT CHRISTIAN TH
I WANG DAMIEN WEIDMANN RONALD WEISS AISLYN WIST DAVID WOOD GERARD WY SOCKI ZHEN XIE YONGNA XING XIN XU YANHUI XU AHARON YA
EI ZHUANG ANDREW ZWICKER MANOUK ABKARIAN CHIHAYA ADACHI DOUGLAS ADAMSON ILHAN AKSAY PHILIP ALBINIYAK BRUCE ALDERMAN BERT
BALDO VLADIMIR BAN ZHENAN BAO EMILY BARTON BONNIE BASSLER MEGHAN BELLAWS YAAKOV BENENSON AMIT BEN-KISH BRYSON BENNETT
EK SIGFUS BREIDFJORD ROBIN BRIMBLECOMBE JAMES BROACH VLADIMIR BULOVIC PAUL BURROWS ROBERT CALDERBANK CURTIS CALLAN SHAW
N YU CHEN MUNG CHIANG CHIA-FU CHOU STEPHEN CHOU MICHELLE CLASQUIN PHILIP COLE FORREST COLLMAN EDWARD COX DANIEL DABBS MI
K DOBYNS ARTHUR DOGARIU DANIEL DOMBECK MAITREYA DUNHAM JEFFREY DWOSKIN JEREMY ENGLAND ADAM ENGLER ANDRE ESTEVEZ-TORRES
RANZ PETER FRAZIER MARIA FRESIA HO FUNG ABRAM GABRIEL DAYUAN GAO ELLEN GAWALT NOEL GIEBINK MARIAN GINDY BASAR GIRIT CLAIRE G
AS HIGGINS STEPHEN HOWARD LOTIEN HUANG RICHARD HUANG YIFEI HUANG SUNGHWAN IHM HAZER INALTEKIN DAVID INGLIS NIRAJ JHA ANTOIN
EIN KRAVTSOV THOMAS KUHLMAN VARUN KUMAR KWANG LEE RUBY LEE IHOR LEMISCHKA FENG LI WENDI LI CHUN LIN A. JAMIE LINK JUNJIA LIU C
H DOOF PRASHANT MANDLIK SEBASTIAN MANU SETH MARDER MARGARET MARTONOSI DANA MASTROVITO MICHAEL MCALPINE DENNIS MCCARTY GE
ORGE CHARD MILES DAVID MILIUS NATHANIEL MOORMAN WILLIAM MORAN JAMES MORGAN ALEX MOROZOV KEITH MORTON JOSHUA MUNGER ANAND M
OZBAS PATRICK PADDISON VIVEK PAI SHUYANG PAN KYOUNG PARK LARRY PETERSON PETER PEUMANS LOREN PFEIFFER BENJAMIN PHILLIPS NATH
ANAL BING QI YI QI JOSHUA RABINOWITZ YEVGENY RAITES ARUN RAMAN RICHARD REGISTER MICHAEL ROMALIS JOSEPH ROY-MAYHEW WESTLEY ROZEN
BERG SCHERER MIKHAIL SCHNEIDER JEFFREY SCHWARTZ STUART SCHWARTZ JEAN SCHWARZBAUER MARTIN SEMMELHACK NILAY SETHI LI SHANG
DONG GEORGIOS SKRETAS WOLE SOBEOYEJO ERIK SORENSEN LEONE SPICCIA PAUL STEINHARDT EMANUEL STOCKMAN HOWARD STONE DAREN STOTTL
ER WELDT CHRISTIAN THERIAULT MARK THOMPSON SALVATORE TORQUATO JUI-YI TSAI SOICHIUCHIDA SCOTT ULRICH NAVEEN VERMA SIGURD WAGNER
HUI XU AHARON YAKIMOV FAN YANG YU YAO EMMA YATES JOUNG YOO YUJIAN YOU ZHAONING YU BOYANG ZHANG WEI ZHANG ZHILI ZHANG WEI ZH
ANG ALDERMAN BERT ALLEYNE CRAIG ARNOLD DAVID AUGUST ADDISON AULT ROBERT AUSTIN MICHAEL AVALTRONI SUSHOBHAN AVASTHI ANIRUDH B
H BRYSON BENNETT JAY BENZIGER STEVEN BERNASEK ABHISHEK BHATTACHARJEE LEONIDAS BLERIS JOSHUA BLOOM ANDREW BOCARSLY JAMES
K CURTIS CALLAN SHAWN CAMPAGNA HAN CAO ROBERT CARLSON MICHAEL CAROLUS MARTIN CASE AMY CAUDY ROBERT CAVA CALVIN CHAN WIL
SON X DANIEL DABBS MICHAEL DANAHY JOHANNES DAPPRICH MARCELO DAVANCO JOHN DAVIS SAVAS DAYANIK PARU DESHPANDE G. CHARLES DISM
IK ANDRE ESTEVEZ-TORRES MICHAEL FEDERLE ELIOT FEIBUSH NATHANIEL FISCH JASON FLEISCHER MARIAN FLORESCU CHRISTODOULAS FLOUDAS ST
EVEN GIRIT CLAIRE GMACHL ALEXANDER GOLTSOV TROY GRAVES-ABE JOHN GROVES SAURABH GUPTA LIN HAN KENNETH HANSON CHRISTOPHER HARV
IS NIRAJ JHA ANTOINE KAHN YIBIN KANG HIROSHI KANNO CHARLES KARNEY JANJUN KIM JONG KIM JUSTIN KINNEY RACHEL KIPP EMRE KOYUNCU
N A. JAMIE LINK JUNJIA LIU QIANG LIU SEAN LIU YUEH-LIN LOO STEPHEN LOTESTA KEVIN LOUTHERBACK BIN MA PETER MACKENZIE DAVID MACMI
L PINNE DENNIS MCCARTY GEORGE MCLENDON EUAN MCLEOD LEWIS MEIXLER ALEXANDRE MERMILLOD-BLONDIN TROY MESTLER JAMES MICHAEL
OSHUA MUNGER ANAND MURUGAN SONIA NAIDU OZGENCIL NECATI DIANA NEGOESCU WAI-LEUNG NG CHRISTOPHER OBER COLLEEN O'LOUGHLIN
ER BENJAMIN PHILLIPS NATHALIE PINKERTON MEGAN POMIANEK/BOLITHO H.VINCE POOR WARREN POWELL PAUL PRUCNAL ROBERT PRUD'HOMME

CELEBRATE

PRINCETON INVENTION

2010

Agenda

December 3, 2010

3–6 p.m.

Chancellor Green Rotunda

3 p.m.

Hors d'Oeuvres and Networking

4 p.m.

Remarks

Shirley M. Tilghman

*President
Princeton University*

A. J. Stewart Smith

*Dean for Research
Princeton University*

4:30–6 p.m.

Networking and Exhibits

The wonderful accomplishments we honor

today call to mind a quote attributed to the great American physicist Joseph Henry: “Seeds of great discoveries are constantly floating around us, but they only take root in minds well prepared to receive them.” Henry’s experiments on magnetism and inductance, many of them performed while he was a member of the Princeton faculty from 1832 to 1846, led to truly transformative applications—most directly and poignantly the telegraph, but also the telephone, radio, and more. Curiously, however, Henry never patented a single discovery, his passion lying almost exclusively in exploration further into the unknown—although in later years he allowed that perhaps he should have patented the telegraph instead of ceding it to Yale. Henry’s prototype telegraph still graces the remarkable display of Henry artifacts in Jadwin Hall. There you will also see the most powerful magnet of its day, capable of lifting 3,500 pounds. (Legend has it that Henry, a great teacher as well as researcher, demonstrated the magnet’s power by using it to hoist groups of undergraduates in his lectures.)

The Princeton scientists and engineers we recognize today are by contrast cognizant of the importance of developing the potential of their fundamental discoveries into technologies that will address critical societal challenges of the 21st century. Meaningful and ongoing collaboration with investors and industry is essential for success in these high-risk adventures, as is the University support provided by the offices of technology licensing and corporate and foundation relations, so today we also celebrate the partnerships that have nurtured the discoveries made at Princeton and helped to carry this new knowledge into the public realm.

A. J. Stewart Smith

Dean for Research, and Class of 1909 Professor of Physics

The Princeton scientists and engineers we celebrate today bring deep expertise, a willingness to take risks, and a determination to generate new knowledge to the challenge of addressing some of the most pressing social and economic problems of our day. I am grateful to these remarkable men and women for placing their discoveries at the service of national and international goals and laying the groundwork for transformative applications that will make our world a better place for all.

Shirley M. Tilghman

President, Princeton University

As a world-class teaching and research university, Princeton is committed to ensuring that discoveries made here reach the public domain rather than remaining cloistered within academic laboratories and libraries. The University scientists and engineers who engage in the technology transfer process share their breakthroughs with the world and also create tremendous learning opportunities for our students, providing them with first-hand, cutting-edge research experience, as well as an important education in entrepreneurship.

Christopher L. Eisgruber

Provost, Princeton University

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PRINCETON INVENTION
2010

The Princeton scholars who participate in the University's technology transfer activities play an important role in fulfilling the University's research mission. From new methods for creating solar cells and mitigating greenhouse gases to novel drug-delivery systems and computing systems, the knowledge created by these talented scholars is transferred into the marketplace, where it provides a vital foundation for the development of new applications and new industries. Collaborations with investors and companies are crucial for realizing the full potential of these inventions, and we are grateful to our partners in industry for their support and expertise.

John Ritter

Director, Office of Technology Licensing

INVENTORS FY2010

Abkarian, Manouk

- Cleaning Up Oil Spills Using Sand (D)

Adachi, Chihaya

- Phosphorescent Organic Light-Emitting Devices (P)

Adamson, Douglas

- Functional Graphene-Rubber Nanocomposites (P)
- Polymerization Method for Formation of Thermally Exfoliated Graphite Oxide-Containing Polymer (P)
- Protected Nanoparticle Formulations of Diazeniumdiolate Class of Nitric Oxide Prodrugs (D, A)
- Thermally Exfoliated Graphite Oxide (P)

Aksay, Ilhan

- Functional Graphene-Rubber Nanocomposites (P)
- Highly Conductive Standalone Functionalized Graphene Tapes (D)
- Multifunctional Graphene-Silicone Elastomer Nanocomposite (D)
- Multifunctional Graphene-Silicone Elastomer Nanocomposite, Method of Making the Same, and Uses Thereof (A)
- Polymerization Method for Formation of Thermally Exfoliated Graphite Oxide-Containing Polymer (P)
- Semiconductor-Coated Microporous Graphene Films as Shell-Core Electrodes in Dye-Sensitized Solar Cells (D)
- Semiconductor-Coated Microporous Graphene Scaffolds Useful as Shell-Core Electrodes and Their Use in Products Such as Dye-Sensitized Solar Cells (A)
- Thermally Exfoliated Graphite Oxide (P)

Albiniak, Philip

- IAP Binding Compounds (A, P)

Alderman, Bruce

- Hot Cathode Electric Wind (D)

Alleyne, Bert

- Carbene-Containing Metal Complexes as OLEDs (P)
- OLEDs Utilizing Macrocyclic Ligand Systems (P)
- Reversibly Reducible Metal Complexes as Electron-Transporting Materials for OLEDs (A)

Arnold, Craig

- Tunable Gradient Index of Fractionation Lens and System (A)

August, David

- System to Speed Up Program Execution Using Software Multi-Threaded Transactions (D)

Ault, Addison

- Chemosensory Arrays Implemented via Bayesian Analysis of a Physical Model (A)

Austin, Robert

- Apparatus and Method for Continuous Particle Separation (P)
- Bump Array Device Having Asymmetric Gaps for Segregation of Particles (A)
- Dielectrophoretic Concentration and Launching of Polarizable Particles (L)
- Electrostatically Focused Polymerase Chain Reaction (L)

- Method and Apparatus for Generating Electric Fields and Flow Distributions for Rapidly Separating Molecules (P)
- Method for Continuous Particle Separation Using Obstacle Arrays Asymmetrically Aligned to Fields (L)
- Microfluidic Device for Continuous Flow Fractionation of Particles in Fluid with a Very Large Range of Sizes (L)
- Nanochannel Arrays and Their Preparation and Use for High Throughput Macromolecular Analysis (P)
- Ratchet Bump Array (L)
- Reversibly Sealable Microstructure Sorting Devices (L)

Avaltroni, Michael

- Enhanced Bonding Layers on Titanium Materials (P)

Avasthi, Sushobhan

- Reduction of Minority Carrier Recombination at Silicon Surfaces and Contacts Using Organic Heterojunctions (A)

Badam, Anirudh

- Systems and Methods for Network Acceleration and Efficient Indexing for Caching File Systems (A)
- Wide-Area Network Acceleration for Developing World Environments (L)

Bakajin, Olgica

- Dielectrophoretic Concentration and Launching of Polarizable Particles (L)
- Electrostatically Focused Polymerase Chain Reaction (L)

Baldo, Marc

- Phosphorescent Organic Light-Emitting Devices (P)

Ban, Vladimir

- Low Pressure Vapor Phase Deposition of Organic Thin Films (A)

Bao, Zhenan

- Forming Closely Spaced Electrodes (P)

Barton, Emily

- Conversion of Carbon Dioxide to Organic Products (A)

Bassler, Bonnie

- Antagonist of Quorum-Sensing Receptor Controls Bacterial Pathogenicity (A)
- Compounds and Methods for Regulating Bacterial Growth and Pathogenesis (P)
- Expeditious Synthesis of DPD (P)
- Identification of Bacterial Autoinducer and Use in Treating Bacterial Pathogenicity (A)
- Small Molecule Antagonists of Bacterial Quorum-Sensing Receptors (A)

Bellows, Meghan

- C3aR Antagonists (D, A)
- Compstatin Variants through Novel De Novo Protein Design Frameworks Applied to a Complex with Complement Component C3c (A)
- Novel Inhibitors for HIV-1 gp41 (A)

Ben-Kish, Amit

- Isotropic Atomic Magnetometry (D, A)

Bennett, Bryson

- Treatment of Viral Infections by Inhibition of Fatty Acid Metabolism (L)

Benziger, Jay

- Device and Method for Organic Vapor Jet Deposition (P)

Bernasek, Steven

- Novel Method for Functionalization of Silicon Surface (D)

Bhattacharjee, Abhishek

- Inter-Core Cooperative TLB Prefetchers (A)
- Method and Apparatus for Inter-TLB Cooperation in the Translation Lookaside Buffers of Multiprocessors (D)

Bleris, Leonidas

- Molecular Circuits (A)

Bloom, Joshua

- Whole Proteome Quantification by Multiplexed Selected Ion Monitoring (D)

Bocarsly, Andrew

- Conversion of Carbon Dioxide to Organic Products (A)

Boehlert, James

- Pressure-Relieving Hazardous Waste Closure (D)

Borek, Carsten

- Near Infrared-Emitting Organic Compounds and Organic Devices Using the Same (P)

Breidjord, Sigfus

- An Integrated Serial Grinder and Imager for Quantitative Volume Reconstruction of 3-D Forms Embedded in a Range of Materials (D)

Brimblecombe, Robin

- Membranes and Photoelectrochemical Devices for Carbon-Neutral Renewable Hydrogen Generation from Water (L)

Broach, James

- Chemosensory Arrays Implemented via Bayesian Analysis of a Physical Model (A)
- Carbene-Containing Metal Complexes as OLEDs (P)
- OLEDs Utilizing Macrocyclic Ligand Systems (P)
- Reversibly Reducible Metal Complexes as Electron-Transporting Materials for OLEDs (A)

Bulovic, Vladimir

- Organic Photosensitive Optoelectronic Device with an Exciton Blocking Layer (A)

Burrows, Paul

- Low Pressure Vapor Phase Deposition of Organic Thin Films (A)
- OLEDs Doped with Phosphorescent Compounds (P)
- Transparent Contacts for Organic Devices (A, P)

Calderbank, Robert

- Instantaneous Radar Polarimetry (P)

Callan, Curtis

- Method for Characterizing How a Biological Sequence Functions (D, A)

Campagna, Shawn

- Expeditious Synthesis of DPD (P)

Cao, Han

- Nanochannel Arrays and Their Preparation and Use for High Throughput Macromolecular Analysis (P)

Carlson, Robert

- Reversibly Sealable Microstructure Sorting Devices (L)

Carolus, Michael

- Enhanced Bonding Layers on Titanium Materials (P)

Case, Martin

- IAP Binding Compounds (A)

Caudy, Amy

- Chemotherapy by Inhibition of Sedoheptulose Bisphosphatase (D, A)

Cava, Robert

- New Use of Apatite Coatings (D)

Chan, Calvin

- N-Type Doping of Electron Transport Materials (L)

Charles, William

- Broad Gain Quantum Cascade Lasers with Multiple Strongly Coupled Upper Laser States (D)

Chen, Jianxin

- Broad Gain Quantum Cascade Lasers with Multiple Strongly Coupled Upper Laser States (D)

Chen, Yu

- Structure of a Protein Phosphatase 2A Holoenzyme: Insights into Tau Dephosphorylation (L)

Chiang, Mung

- Review and Ratings Analysis (D)

Chou, Chia-Fu

- Dielectrophoretic Concentration and Launching of Polarizable Particles (L)
- Electrodynamically Focused Polymerase Chain Reaction (L)

Chou, Stephen

- Lithographic Apparatus for Fluid Pressure Imprinted Lithography (P)
- Nanochannel Arrays and Their Preparation and Use for High Throughput Macromolecular Analysis (P)
- Pattern-Free Method of Making Line Gratings (P)
- Structures for Enhancement of Local Electric Field, Light Absorption and Light Radiation, and Making of the Same (D, A)

Clasquin, Michelle

- Chemotherapy by Inhibition of Sedoheptulose Biphosphatase (D, A)

Cole, Philip

- Novel Inhibitors for HIV-1 gp41 (A)

Collman, Forrest

- Virtual Reality System for Head-Fixed Rodents (D)

Cox, Edward

- Electrodynamically Focused Polymerase Chain Reaction (L)
- Method for Characterizing How a Biological Sequence Functions (D, A)
- Site-Specific Chromosomal Integration of Large Synthetic Constructs (D)
- Method for Characterizing How a Biological Sequence Functions (A)

Dabbs, Daniel

- Highly Conductive Standalone Functionalized Graphene Tapes (D)

Danahy, Michael

- Enhanced Bonding Layers on Titanium Materials (P)

Davanco, Marcelo

- System and Method for Depositing Thin Layers on Non-Planar Substrates by Stamping (P)

Davis, John

- Apparatus and Method for Continuous Particle Separation (P)
- Microfluidic Device for Continuous Flow Fractionation of Particles in Fluid with a Very Large Range of Sizes (L)

Dayanik, Savas

- Knowledge-Gradient Policy and Algorithm for Correlated Normal Beliefs and Sequencing Experiments in Drug Discovery (A)

Deshpande, Paru

- Pattern-Free Method of Making Line Gratings (P)

Dismukes, G. Charles

- Membranes and Photoelectrochemical Devices for Carbon-Neutral Renewable Hydrogen Generation from Water (L)

- Mn_4O_4 Cubane Type Catalyst (L)
- Water Oxidation Catalyst (A)

Djurovich, Peter

- Carbene-Containing Metal Complexes as OLEDs (P)
- Near Infrared-Emitting Organic Compounds and Organic Devices Using the Same (P)
- OLEDs Utilizing Macrocyclic Ligand Systems (P)
- Reversibly Reducible Metal Complexes as Electron-Transporting Materials for OLEDs (A)

Dobyns, York

- Self-Calibration of Networks of Transceiver Arrays (D, A)

Dogariu, Arthur

- Laser-Initiated, Microwave-Driven Combustion Ignition (D, A)
- Method and Apparatus for Detecting Surface and Subsurface Properties of Materials (P)
- Local Carrier Lifetime, Bandgap and Impurity Energy Level Measurement in Semiconductors and Transparent Materials (L)

Dombeck, Daniel

- Virtual Reality System for Head-Fixed Rodents (D)

Dunham, Maitreya

- Method for Identification of Novel Physical Linkage of Genomic Sequences (L)

Dwoskin, Jeffrey

- Hardware Trust Anchors in SP-Enabled Processors (A)

England, Jeremy

- Hydrophobic Burial-Based Method for Computation of Conformational Energy Spectrum of a Protein from Its Amino Acid Sequence (D, A)

Engler, Adam

- Embryonic Stem Cell Differentiation into Endoderm Cells by Fibrillar Fibronectin Matrix Properties (D)

Estevez-Torres, Andre

- Directed Evolution Centrifugation Microfluidic Device (A)

Federle, Michael

- Expeditious Synthesis of DPD (P)

Feibush, Eliot

- Session Timer (D, L)
- Process for Administering Distributed Academic Competitions (L)

Fisch, Nathaniel

- Methods of Using Alpha Channeling Together with Transformer Recharging (D)

Fleischer, Jason

- Surface Plasmon Amplification by Degenerate Wave Mixing (D)

Florescu, Marian

- Non-Crystalline Materials Having Complete Photonic, Electronic or Phononic Band Gaps (A)

Floudas, Christodoulas

- C3aR Antagonists (D, A)
- Compstatin Variants through Novel De Novo Protein Design Frameworks Applied to a Complex with Complement Component C3c (A)
- Novel Inhibitors for HIV-1 gp41 (A)

Forrest, Stephen

- Controlled Growth of Larger Heterojunction Interface Area for Organic Photosensitive Devices (A, P)
- Device and Method for Organic Vapor Jet Deposition (P)
- Low Pressure Vapor Phase Deposition of Organic Thin Films (A)
- Method and Apparatus for Depositing Materials (P)
- Method and Apparatus for Depositing Materials Using a Dynamic Pressure (A)
- Method for Controlling Electrodeposition of an Entity and Devices Incorporating the Immobilized Entity (A)
- Near Infrared-Emitting Organic Compounds and Organic Devices Using the Same (P)
- OLED with Improved Light Outcoupling (A)
- OLEDs Doped with Phosphorescent Compounds (P)
- OLEDs Utilizing Macrocyclic Ligand Systems (P)
- Organic Devices Having a Fiber Structure (P)
- Organic Laser (P)
- Organic Light-Emitting Device with a Phosphor-Sensitized Fluorescent Emission Layer (P)
- Organic Photosensitive Optoelectronic Device with an Exciton Blocking Layer (A)
- Organic Photovoltaic Devices (A, P)

- Phosphorescent Organic Light-Emitting Devices (P)
- Process and Apparatus for Organic Vapor Jet Deposition (P)
- Solar Cells (A, P)
- Solid State Photosensitive Devices that Employ Isolated Photosynthetic Complexes (P)
- System and Method for Depositing Thin Layers on Non-Planar Substrates by Stamping (P)
- Transparent Contacts for Organic Devices (A, P)

Franz, Kale

- Voltage Tunability of Quantum Cascade Lasers (A)

Frazier, Peter

- Knowledge-Gradient Policy and Algorithm for Correlated Normal Beliefs and Sequencing Experiments in Drug Discovery (A)

Fresia, Maria

- A Scheme for Lossy Joint Source-Channel Coding at the Application Layer (A)

Fung, Ho Ki

- C3aR Antagonists (D, A)
- Novel Inhibitors for HIV-1 gp41 (A)

Gao, Dayuan

- Lung-Targeting Dual-Drug Delivery System (D, A)

Gawalt, Ellen

- Enhanced Bonding Layers on Titanium Materials (P)

Giebink, Noel

- Organic Laser (P)

Gindy, Marian

- Formation of siRNA Nanoparticles Using Flash NanoPrecipitation (D)

Girit, Basar

- An Integrated Serial Grinder and Imager for Quantitative Volume Reconstruction of 3-D Forms Embedded in a Range of Materials (D)

Gmachi, Claire

- Broad Gain Quantum Cascade Lasers with Multiple Strongly Coupled Upper Laser States (D)
- Single-Mode Quantum Cascade Lasers Employing Folded Fabry-Perot Cavity (D, A)
- Voltage Tunability of Quantum Cascade Lasers (A)

Goltsov, Alexander

- Method and Apparatus for Detecting Surface and Subsurface Properties of Materials (P)
- Local Carrier Lifetime, Bandgap and Impurity Energy Level Measurement in Semiconductors and Transparent Materials (L)

Graves-Abe, Troy

- Forming Closely Spaced Electrodes (P)

Groves, John

- An Efficient Catalytic Method to Produce Chlorine Dioxide (D)
- Drug Diversification via Highly Selective Metal-Catalyzed Halogenation of Complex Compounds (D)

Gupta, Saurabh

- Genetically Programmable Pathogen Sense and Destroy (D)

Han, Lin

- Hybrid Dielectric Material for Thin-Film Transistors (A)

Hanson, Kenneth

- Near Infrared-Emitting Organic Compounds and Organic Devices Using the Same (P)

Harvey, Christopher

- Virtual Reality System for Head-Fixed Rodents (D)

Helen, Wilda

- Embryonic Stem Cell Differentiation into Endoderm Cells by Fibrillar Fibronectin Matrix Properties (D)

Higgins, Douglas

- Identification of Bacterial Autoinducer and Use in Treating Bacterial Pathogenicity (A)

Howard, Stephen

- Instantaneous Radar Polarimetry (P)

Huang, Richard

- Method and Apparatus for Generating Electric Fields and Flow Distributions for Rapidly Separating Molecules (P)
- Method for Continuous Particle Separation Using Obstacle Arrays Asymmetrically Aligned to Fields (L)

Huang, Yifei

- Amorphous Silicon-Based Non-Volatile Storage Device and Display Architecture (A)
- Novel Amorphous Silicon-Based Non-Volatile Storage Device and Its Application to a Novel Display Architecture (D)

Ihm, Sunghwan

- Systems and Methods for Network Acceleration and Efficient Indexing for Caching File Systems (A)
- Wide-Area Network Acceleration for Developing World Environments (L)

Inaltekin, Hazer

- Review and Ratings Analysis (D)

Inglis, David

- Apparatus and Method for Continuous Particle Separation (P)
- Microfluidic Device for Continuous Flow Fractionation of Particles in Fluid with a Very Large Range of Sizes (L)

Jha, Niraj

- Method and System for a Run-Time Reconfigurable Computer Architecture (A)

Kahn, Antoine

- Remote Doping of Organic Thin-Film Transistors (D, A)
- N-Type Doping of Electron Transport Materials (L)

Kang, Yibin

- Treatment of Bone Metastasis by Disrupting Stromal Notch Signaling Induced by Tumor-Derived Jagged1 (D, A)

Kanno, Hiroshi

- Organic Light-Emitting Device with a Phosphor-Sensitized Fluorescent Emission Layer (P)

Karney, Charles

- DEGAS 2 (D)

Kim, Janjun

- System to Speed Up Program Execution Using Software Multi-Threaded Transactions (D)

Kim, Jongbok

- Lamination as a Modular Approach for Building Organic and Polymer Solar Cells (L)

Kinney, Justin

- Method for Characterizing How a Biological Sequence Functions (D, A)

Kipp, Rachel

- IAP Binding Compounds (A, P)

Koyuncu, Emre

- Inhibitors of Long- and Very Long-Chain Acyl-CoA Synthetases and Other Enzymes Involved in Long-Chain Fatty Acid Metabolism as Broad Spectrum Anti-Virals (D, L)
- Inhibitors of Long- and Very Long-Chain Fatty Acid Metabolism as Broad Spectrum Anti-Virals (A)
- Treatment of Viral Infections by Modulation of Host Cell Enzymes Involved in Lipid Droplet and Cholesterol Metabolism (D)

Kraml, Christina

- Identification of Bacterial Autoinducer and Use in Treating Bacterial Pathogenicity (A)

Kravtsov, Konstantin

- Optical Counter-Phase System and Method of RF Interference Cancellation (A)
- Parameter Offset Method of Closed Loop Control of Optical Counter-Phase-Modulation RF Interference Cancellation (A)

Kuhlman, Thomas

- Site-Specific Chromosomal Integration of Large Synthetic Constructs (D, L)

Kumar, Varun

- Formation of siRNA Nanoparticles Using Flash NanoPrecipitation (D)
- Protected Nanoparticle Formulations of Diazenium-diolate Class of Nitric Oxide Prodrugs (D, A)

Lee, Kwang Seok

- Post-Processing Treatment of Conductive Polymers to Enhance Electrical Conductivity (A)
- Dichoroacetic Acid Treatment of Conductive Polymers to Enhance Electrical Conductivity (L)

Lee, Ruby

- Hardware Trust Anchors in SP-Enabled Processors (A)

Lemischka, Ihor

- Embryonic Stem Cell Self-Maintenance and Renewal Reporter (P)

Li, Feng

- Embryonic Stem Cell Self-Maintenance and Renewal Reporter (P)

Li, Wendi

- Structures for Enhancement of Local Electric Field, Light Absorption and Light Radiation, and Making of the Same (D, A)

Lin, Chun

- Carbene-Containing Metal Complexes as OLEDs (P)
- OLEDs Utilizing Macrocyclic Ligand Systems (P)
- Reversibly Reducible Metal Complexes as Electron-Transporting Materials for OLEDs (A)

Link, A. James

- A Method for Isolating Peptides with High Affinity to Anti-Apoptotic Proteins (D)
- Reconstitution and Engineering of Apoptotic Protein Interactions on the Bacterial Cell Surface (A)

Liu, Junjia

- Antimicrobial and Antitubercular Compounds (A)
- Design, Synthesis and Evaluation of New Antitubercular, Pleuromutilin-Like Compounds (D)

Liu, Qiang

- Single-Mode Quantum Cascade Lasers Employing Folded Fabry-Perot Cavity (D, A)

Liu, Sean

- Inhibition of Glycerol-3-Phosphate Acyltransferase (GPAT) and Associated Enzymes for Treatment of Viral Infections (D, A, L)

Loo, Yueh-Lin

- Post-Processing Treatment of Conductive Polymers to Enhance Electrical Conductivity (A)
- Stable and Reversible Switching in the Visible Extending into the Near-Infrared in Water-Dispersible Polyaniline (D)
- Water-Dispersible Polyaniline Films Capable of Undergoing Stable and Reversible Polyelectrochromic Transitions (A)

- Dichoroacetic Acid Treatment of Conductive Polymers to Enhance Electrical Conductivity (L)
- Lamination as a Modular Approach for Building Organic and Polymer Solar Cells (L)
- Stable and Reversible Switching (L)

Lotesta, Stephen

- Antimicrobial and Antitubercular Compounds (A)
- Design, Synthesis and Evaluation of New Antitubercular, Pleuromutilin-Like Compounds (D)

Loutherback, Kevin

- Bump Array Device Having Asymmetric Gaps for Segregation of Particles (A)
- Ratchet Bump Array (L)

Ma, Bin

- Carbene-Containing Metal Complexes as OLEDs (P)
- OLEDs Utilizing Macrocyclic Ligand Systems (P)
- Reversibly Reducible Metal Complexes as Electron-Transporting Materials for OLEDs (A)

Mackenzie, Peter

- Carbene-Containing Metal Complexes as OLEDs (P)
- OLEDs Utilizing Macrocyclic Ligand Systems (P)
- Reversibly Reducible Metal Complexes as Electron-Transporting Materials for OLEDs (A)

MacMillan, David

- Organo-Cascade Catalysis: One-Pot Production of Chemical Libraries (A)

Majeski, Richard

- Fast-Equilibrating First Wall for Plasma-Material Interaction Experiments (D)

Maloof, Adam

- An Integrated Serial Grinder and Imager for Quantitative Volume Reconstruction of 3-D Forms Embedded in a Range of Materials (D)

Mandlik, Prashant

- Hybrid Dielectric Material for Thin-Film Transistors (A)

Manu, Sebastian

- Broadband Detection of Bacteria Using Antimicrobial Peptides Immobilized on an Electrical Sensing Device (D)

Marder, Seth

- Remote Doping of Organic Thin-Film Transistors (D, A)

Martonosi, Margaret

- Inter-Core Cooperative TLB Prefetchers (A)
- Method and Apparatus for Inter-TLB Cooperation in the Translation Lookaside Buffers of Multi-processors (D)

Mastrovito, Dana

- EPICS MDSplus Bridge (D)

McAlpine, Michael

- Broadband Detection of Bacteria Using Antimicrobial Peptides Immobilized on an Electrical Sensing Device (D)
- Flexible Piezoelectric Structures and Methods of Making Same (A)
- Piezoelectric Ribbons Printed onto Rubber for Flexible Energy Conversion (A)
- Piezoelectric-Rubber Hybrid Assemblies (Piezo-Rubber) for Converting Mechanical Movement Energy, Vibration and/or Hydraulic Energy into Electricity (D)

McCarty, Dennis

- Transparent Contacts for Organic Devices (A, P)

McLendon, George

- IAP Binding Compounds (A, P)

McLeod, Euan

- Tunable Gradient Index of Fractionation Lens and System (A)

Meixler, Lewis

- Plasma Synthesis of Hydrogen Peroxide (D)

Mermillod-Blondin, Alexandre

- Tunable Gradient Index of Fractionation Lens and System (A)

Mestler, Troy

- Directed Evolution Centrifugation Microfluidic Device (A)

Michael, James

- Laser-Initiated, Microwave-Driven Combustion Ignition (D, A)

Michels, Joseph

- Method and Apparatus for Depositing Materials (P)

Midwood, Kim

- Enhanced Bonding Layers on Titanium Materials (P)

Miles, Richard

- Doppler Radar REMPI (L)
- Laser-Initiated, Microwave-Driven Combustion Ignition (D, A)
- Local Carrier Lifetime, Bandgap and Impurity Energy Level Measurement in Semiconductors and Transparent Materials (L)
- Method and Apparatus for Detecting Surface and Subsurface Properties of Materials (P)
- Method and Apparatus for Remotely Monitoring Properties of Gases and Plasmas (P)
- Surface and Sub-Surface Spectroscopy by Radar REMPI (L)

Milius, David

- Highly Conductive Standalone Functionalized Graphene Tapes (D)

Moorman, Nathaniel

- Inhibitors of the Cell-Coded mTOR Kinase with Anti-Viral Activity (D, A, L)
- Inhibitors of the Cellular Unfolded Response with Anti-Viral Activity (D)

Moran, William

- Instantaneous Radar Polarimetry (P)

Morgan, James

- Session Timer (L)

Morozov, Alex

- Chemosensory Arrays Implemented via Bayesian Analysis of a Physical Model (A)

Morton, Keith

- Bump Array Device Having Asymmetric Gaps for Segregation of Particles (A)
- Ratchet Bump Array (L)

Munger, Joshua

- Treatment of Viral Infections by Inhibition of Fatty Acid Metabolism (L)

Murugan, Anand

- Method for Characterizing How a Biological Sequence Functions (D, A)

Naidu, Sonia

- New Use of Apatite Coatings (D)

Necati, Ozgencil

- Review and Ratings Analysis (D)

Negoescu, Diana

- Knowledge-Gradient Policy and Algorithm for Correlated Normal Beliefs and Sequencing Experiments in Drug Discovery (A)

Ng, Wai-Leung

- Identification of Bacterial Autoinducer and Use in Treating Bacterial Pathogenicity (A)

Ober, Christopher

- Large-Scale Morphogenic Materials (LSMM) (D)

O'Loughlin, Colleen

- Antagonist of Quorum-Sensing Receptor Controls Bacterial Pathogenicity (A)
- Small Molecule Antagonists of Bacterial Quorum-Sensing Receptors (A)

Oni, Yusuf

- An Implantable Biomedical Device for the Localized Treatment of Cancer by Hyperthermia and Drug Release (D)

Opaits, Dmitry

- Hot Cathode Electric Wind (D)

Ozbas, Bulent

- Functional Graphene-Rubber Nanocomposites (P)

Paddison, Patrick

- Embryonic Stem Cell Self-Maintenance and Renewal Reporter (P)

Pai, Vivek

- Wide-Area Network Acceleration for Developing World Environments (L)
- HashCache: An Efficient Indexing Mechanism for Caching Filesystems (L)
- Systems and Methods for Network Acceleration and Efficient Indexing for Caching File Systems (A)

Pan, Shuyang

- Multifunctional Graphene-Silicone Elastomer Nanocomposite (D)
- Multifunctional Graphene-Silicone Elastomer Nanocomposite, Method of Making the Same, and Uses Thereof (A)

Park, Kyoung Soo

- Systems and Methods for Network Acceleration and Efficient Indexing for Caching File Systems (A)
- Wide-Area Network Acceleration for Developing World Environments (L)
- HashCache: An Efficient Indexing Mechanism for Caching Filesystems (L)

Peterson, Larry

- Systems and Methods for Network Acceleration and Efficient Indexing for Caching File Systems (A)
- Wide-Area Network Acceleration for Developing World Environments (L)
- HashCache: An Efficient Indexing Mechanism for Caching Filesystems (L)

Peumans, Peter

- Method for Controlling Electrodeposition of an Entity and Devices Incorporating the Immobilized Entity (A)
- Organic Photosensitive Optoelectronic Device with an Exciton Blocking Layer
- Organic Photovoltaic Devices (A, P)
- Solar Cells (A, P)
- Solid State Photosensitive Devices that Employ Isolated Photosynthetic Complexes (P)

Pfeiffer, Loren

- Molecular Beam Epitaxy Machine (D)

Phillips, Benjamin

- Process for Administering Distributed Academic Competitions (L)

Pinkerton, Nathalie

- Lung-Targeting Dual-Drug Delivery System (D, A)

Pomianek-Bolitho, Megan

- Identification of Bacterial Autoinducer and Use in Treating Bacterial Pathogenicity (A)

Poor, H. Vincent

- A Scheme for Lossy Joint Source-Channel Coding at the Application Layer (A)
- Joint Channel Estimation, Equalization and Data Detection for OFDM Systems in the Presence of Very High Mobility (D)
- Review and Ratings Analysis (D)
- Space-Time Block-Coded Spatial Modulation (STBC-SM) (D)
- System and Method for Synchronizing Phases and Frequencies of Devices in Multi-User Wireless Communications Systems (A)

Powell, Warren

- Knowledge-Gradient Policy and Algorithm for Correlated Normal Beliefs and Sequencing Experiments in Drug Discovery (A)

Prucnal, Paul

- Optical Counter-Phase System and Method of RF Interference Cancellation (A)
- Parameter Offset Method of Closed Loop Control of Optical Counter-Phase-Modulation RF Interference Cancellation (A)

Prud'homme, Robert

- Formation of siRNA Nanoparticles Using Flash NanoPrecipitation (D)
- Functional Graphene-Rubber Nanocomposites (P)
- Lung-Targeting Dual-Drug Delivery System (D, A)
- Multifunctional Graphene-Silicone Elastomer Nanocomposite (D)
- Multifunctional Graphene-Silicone Elastomer Nanocomposite, Method of Making the Same, and Uses Thereof (A)
- Polymerization Method for Formation of Thermally Exfoliated Graphite Oxide-Containing Polymer (P)
- Protected Nanoparticle Formulations of Diazeniumdiolate Class of Nitric Oxide Prodrugs (D, A)
- Thermally Exfoliated Graphite Oxide (P)

Puchalla, Jason

- Bump Array Device Having Asymmetric Gaps for Segregation of Particles (A)
- Ratchet Bump Array (L)

Qi, Xiangfei

- System and Method for Depositing Thin Layers on Non-Planar Substrates by Stamping (P)

Qi, Yabing

- Remote Doping of Organic Thin-Film Transistors (D, A)

Qi, Yi

- Flexible Piezoelectric Structures and Methods of Making Same (A)
- Piezoelectric Ribbons Printed onto Rubber for Flexible Energy Conversion (A)
- Piezoelectric-Rubber Hybrid Assemblies (Piezo-Rubber) for Converting Mechanical Movement Energy, Vibration and/or Hydraulic Energy into Electricity (D)

Rabinowitz, Joshua

- Chemotherapy by Inhibition of Sedoheptulose Bisphosphatase (D, A)
- Inhibition of Glycerol-3-Phosphate Acyltransferase (GPAT) and Associated Enzymes for Treatment of Viral Infections (D, A, L)
- Inhibitors of Long- and Very Long-Chain Acyl-CoA Synthetases and Other Enzymes Involved in Long-Chain Fatty Acid Metabolism as Broad Spectrum Anti-Virals (D, L)
- Inhibitors of Long- and Very Long-Chain Fatty Acid Metabolism as Broad Spectrum Anti-Virals (A)
- Treatment of Viral Infections by Modulation of Host Cell Enzymes Involved in Lipid Droplet and Cholesterol Metabolism (D)
- Treatment of Viral Infections by Inhibition of Fatty Acid Metabolism (L)

Raitses, Yevgeny

- A Catalyst Wire Feed Arc Discharge for Synthesis of Carbon Nanotubes and Graphene Particles (D)

Raman, Arun

- System to Speed Up Program Execution Using Software Multi-Threaded Transactions (D)

Register, Richard

- Functional Graphene-Rubber Nanocomposites (P)

Romalis, Michael

- Isotropic Atomic Magnetometry (D, A)

Roy-Mayhew, Joseph

- Highly Conductive Standalone Functionalized Graphene Tapes (D)

- Semiconductor-Coated Microporous Graphene Films as Shell-Core Electrodes in Dye-Sensitized Solar Cells (D)
- Semiconductor-Coated Microporous Graphene Scaffolds Useful as Shell-Core Electrodes and Their Use in Products Such as Dye-Sensitized Solar Cells (A)

Rozen, Westley

- An Integrated Serial Grinder and Imager for Quantitative Volume Reconstruction of 3-D Forms Embedded in a Range of Materials (D)

Ruettinger, Wolfgang

- Mn₄O₄ Cubane Type Catalyst (L)

Russel, William

- Pattern-Free Method of Making Line Gratings (P)

Samuels, Bradley

- An Integrated Serial Grinder and Imager for Quantitative Volume Reconstruction of 3-D Forms Embedded in a Range of Materials (D)

Sapochak, Linda

- Transparent Contacts for Organic Devices (A, P)

Schafer, Xenia

- Embryonic Stem Cell Self-Maintenance and Renewal Reporter (P)

Schaniel, Christoph

- Embryonic Stem Cell Self-Maintenance and Renewal Reporter (P)

Schauder, Stephan

- Compounds and Methods for Regulating Bacterial Growth and Pathogenesis (P)

Scherer, George

- New Use of Apatite Coatings (D)

Schwartz, Jeffrey

- Enhanced Bonding Layers on Titanium Materials (P)
- Reduction of Minority Carrier Recombination at Silicon Surfaces and Contacts Using Organic Heterojunctions (A)

Schwartz, Stuart

- Self-Calibration of Networks of Transceiver Arrays (D, A)

Schwarzbauer, Jean

- Embryonic Stem Cell Differentiation into Endoderm Cells by Fibrillar Fibronectin Matrix Properties (D)
- Enhanced Bonding Layers on Titanium Materials (P)

Semmelhack, Martin

- Expeditious Synthesis of DPD (P)
- IAP Binding Compounds (A, P)
- Identification of Bacterial Autoinducer and Use in Treating Bacterial Pathogenicity (A)

Sethi, Nilay

- Treatment of Bone Metastasis by Disrupting Stromal Notch Signaling Induced by Tumor-Derived Jagged1 (D, A)

Shang, Li

- Method and System for a Run-Time Reconfigurable Computer Architecture (A)

Shen, Lin

- Novel Inhibitors for HIV-1 gp41 (A)

Shenk, Thomas

- Choice of Cell Type for Propagation of HCMV Controls Its Mode of Entry and Interaction with Epithelial Cells (L)
- Cytomegalovirus Surface Protein Complex for Use in Vaccines and as a Drug Target (A, P)
- Human Cytomegalovirus UL128 and UL130 Proteins as Subunit Vaccine Candidates and Novel Drug Targets (L)
- Inhibition of Glycerol-3-Phosphate Acyltransferase (GPAT) and Associated Enzymes for Treatment of Viral Infections (D, A, L)
- Inhibitors of Long- and Very Long-Chain Acyl-CoA Synthetases and Other Enzymes Involved in Long-Chain Fatty Acid Metabolism as Broad Spectrum Anti-Virals (D, L)
- Inhibitors of the Cell-Coded mTOR Kinase with Anti-Viral Activity (D, A, L)
- Treatment of Viral Infections by Inhibition of Fatty Acid Metabolism (L)
- Treatment of Viral Infections by Modulation of Host Cell Enzymes Involved in Lipid Droplet and Cholesterol Metabolism (D)
- Inhibitors of Long- and Very Long-Chain Fatty Acid Metabolism as Broad Spectrum Anti-Virals (A)
- Inhibitors of the Cell-Coded mTOR Kinase with Anti-Viral Activity (A)

Shi, Lei

- Lung-Targeting Dual-Drug Delivery System (D, A)

Shi, Yigong

- IAP Binding Compounds (A, P)
- PP2A and PME (L)
- Structural Mechanism of Demethylation and Inactivation of Protein Phosphatase 2A (L)
- Structure and Mechanism of the Phosphotyrosyl Phosphatase Activator (PTPA) (L)
- Structure of a Protein Phosphatase 2A Holoenzyme: Insights into Tau Dephosphorylation (L)
- Structure of Protein Phosphatase 2A Core Enzyme Bound to Tumor-Inducing Toxins (L)
- Structure of the Protein Phosphatase 2A Holoenzyme (L)

Shneider, Mikhail

- Laser-Initiated, Microwave-Driven Combustion Ignition (D, A)
- Method and Apparatus for Detecting Surface and Subsurface Properties of Materials (P)
- Method and Apparatus for Remotely Monitoring Properties of Gases and Plasmas (P)
- Doppler Radar REMPI (L)
- Local Carrier Lifetime, Bandgap and Impurity Energy Level Measurement in Semiconductors and Transparent Materials (L)

Shokat, Kevan

- Compounds and Methods for Regulating Bacterial Growth and Pathogenesis (P)

Shoustikov, Andre

- OLEDs Doped with Phosphorescent Compounds (P)

Shtein, Max

- Device and Method for Organic Vapor Jet Deposition (P)
- Method and Apparatus for Depositing Materials (P)
- Method and Apparatus for Depositing Materials Using a Dynamic Pressure (A)
- Organic Devices Having a Fiber Structure (P)
- Process and Apparatus for Organic Vapor Jet Deposition (P)

Sibley, Scott

- OLEDs Doped with Phosphorescent Compounds (P)

Skretas, Georgios

- Bacterial Ligand-Binding Sensor (P)

Soboyejo, Wole

- An Implantable Biomedical Device for the Localized Treatment of Cancer by Hyperthermia and Drug Release (D)

Sorensen, Erik

- Antimicrobial and Antitubercular Compounds (A)
- Design, Synthesis and Evaluation of New Antitubercular, Pleuromutilin-Like Compounds (D)

Spiccia, Leone

- Membranes and Photoelectrochemical Devices for Carbon-Neutral Renewable Hydrogen Generation from Water (L)

Steinhardt, Paul

- Non-Crystalline Materials Having Complete Photonic, Electronic or Phononic Band Gaps (A)

Stockman, Emanuel

- Laser-Initiated, Microwave-Driven Combustion Ignition (D, A)

Stone, Howard

- Cleaning Up Oil Spills Using Sand (D)
- Lung-Targeting Dual-Drug Delivery System (D, A)

Stotler, Daren

- DEGAS 2 (D)

Sturm, James

- Amorphous Silicon-Based Non-Volatile Storage Device and Display Architecture (A)
- Apparatus and Method for Continuous Particle Separation (P)
- Bump Array Device Having Asymmetric Gaps for Segregation of Particles (A)
- Forming Closely Spaced Electrodes (P)
- Large-Scale Morphogenic Materials (LSMM) (D)
- Method and Apparatus for Generating Electric Fields and Flow Distributions for Rapidly Separating Molecules (P)
- Method for Continuous Particle Separation Using Obstacle Arrays Asymmetrically Aligned to Fields (L)
- Microfluidic Device for Continuous Flow Fractionation of Particles in Fluid with a Very Large Range of Sizes (L)

- Novel Amorphous Silicon-Based Non-Volatile Storage Device and Its Application to a Novel Display Architecture (D)
- Ratchet Bump Array (L)
- Reduction of Minority Carrier Recombination at Silicon Surfaces and Contacts Using Organic Heterojunctions (A)

Suarez, John

- Optical Counter-Phase System and Method of RF Interference Cancellation (A)
- Parameter Offset Method of Closed Loop Control of Optical Counter-Phase-Modulation RF Interference Cancellation (A)

Sun, Yiru

- Near Infrared-Emitting Organic Compounds and Organic Devices Using the Same (P)
- OLED with Improved Light Outcoupling (A)

Swem, Lee

- Antagonist of Quorum-Sensing Receptor Controls Bacterial Pathogenicity (A)
- Small Molecule Antagonists of Bacterial Quorum-Sensing Receptors (A)

Swiegers, Gerry

- Membranes and Photoelectrochemical Devices for Carbon-Neutral Renewable Hydrogen Generation from Water (L)

Tamayo, Arnold

- Near Infrared-Emitting Organic Compounds and Organic Devices Using the Same (P)

Tank, David

- Virtual Reality System for Head-Fixed Rodents (D)

Tarver, Jacob

- Stable and Reversible Switching (L)
- Stable and Reversible Switching in the Visible Extending into the Near-Infrared in Water-Dispersible Polyaniline (D)
- Water Dispersible Polyaniline Films Capable of Undergoing Stable and Reversible Polyelectrochromic Transitions (A)

Taylor, Martin

- Novel Inhibitors for HIV-1 gp41 (A)

Tegenfeldt, Jonas

- Dielectrophoretic Concentration and Launching of Polarizable Particles (L)
- Nanochannel Arrays and Their Preparation and Use for High Throughput Macromolecular Analysis (P)

Theriault, Christian

- An Implantable Biomedical Device for the Localized Treatment of Cancer by Hyperthermia and Drug Release (D)

Thompson, Mark

- Reversibly Reducible Metal Complexes as Electron-Transporting Materials for OLEDs (A)
- Transparent Contacts for Organic Devices (A)

Torquato, Salvatore

- Non-Crystalline Materials Having Complete Photonic, Electronic or Phononic Band Gaps (A)

Tsai, Jui-Yi

- Carbene-Containing Metal Complexes as OLEDs (P)
- OLEDs Utilizing Macrocyclic Ligand Systems (P)
- Reversibly Reducible Metal Complexes as Electron-Transporting Materials for OLEDs (A)

Uchida, Soichi

- Solar Cells (A, P)

Ulrich, Scott

- Antagonist of Quorum-Sensing Receptor Controls Bacterial Pathogenicity (A)
- Small Molecule Antagonists of Bacterial Quorum-Sensing Receptors (A)

Verma, Naveen

- Integrated Circuits for Instrumentation and Communication over Thin-Film Electronics (D)

Wagner, Sigurd

- Hybrid Dielectric Material for Thin-Film Transistors (A)

Wan, Jiandi

- Lung-Targeting Dual-Drug Delivery System (D, A)

Wan, Wenjie

- Surface Plasmon Amplification by Degenerate Wave Mixing (D)

Wang, Dai

- Cytomegalovirus Surface Protein Complex for Use in Vaccines and as a Drug Target (A, P)
- Choice of Cell Type for Propagation of HCMV Controls Its Mode of Entry and Interaction with Epithelial Cells (L)
- Human Cytomegalovirus UL128 and UL130 Proteins as Subunit Vaccine Candidates and Novel Drug Targets (L)

Weidmann, Damien

- Chemical Detection Based on Laser Spectroscopic Sensing of Anomalous Molecular/Atomic Dispersion (D)

Weiss, Ronald

- Genetically Programmable Pathogen Sense and Destroy (D)
- Molecular Circuits (A)

Wist, Aislyn

- IAP Binding Compounds (A, P)

Wood, David

- Bacterial Ligand-Binding Sensor (P)

Wysocki, Gerard

- Chemical Detection Based on Laser Spectroscopic Sensing of Anomalous Molecular/Atomic Dispersion (D)

Xie, Zhen

- Molecular Circuits (A)

Xing, Yongna

- Structural Mechanism of Demethylation and Inactivation of Protein Phosphatase 2A (L)
- Structure of Protein Phosphatase 2A Core Enzyme Bound to Tumor-Inducing Toxins (L)
- Structure of the Protein Phosphatase 2A Holoenzyme (L)

Xu, Xin

- System and Method for Depositing Thin Layers on Non-Planar Substrates by Stamping (P)

Xu, Yanhui

- Structure of a Protein Phosphatase 2A Holoenzyme: Insights into Tau Dephosphorylation (L)
- Structure of the Protein Phosphatase 2A Holoenzyme (L)

Yakimov, Aharon

- Organic Photovoltaic Devices (A, P)

Yang, Fan

- Controlled Growth of Larger Heterojunction Interface Area for Organic Photosensitive Devices (A, P)

Yao, Yu

- Broad Gain Quantum Cascade Lasers with Multiple Strongly Coupled Upper Laser States (D)
- Voltage Tunability of Quantum Cascade Lasers (A)

Yates, Emma

- Antimicrobial and Antitubercular Compounds (A)

Yoo, Joung Eun

- Post-Processing Treatment of Conductive Polymers to Enhance Electrical Conductivity (A)
- Stable and Reversible Switching in the Visible Extending into the Near-Infrared in Water-Dispersible Polyaniline (D)
- Water Dispersible Polyaniline Films Capable of Undergoing Stable and Reversible Polyelectrochromic Transitions (A)
- Dichoroacetic Acid Treatment of Conductive Polymers to Enhance Electrical Conductivity (L)

You, Yujian

- OLEDs Doped with Phosphorescent Compounds (P)

Yu, Zhaoning

- Nanochannel Arrays and Their Preparation and Use for High Throughput Macromolecular Analysis (P)

Zhang, Boyang

- System and Method for Synchronizing Phases and Frequencies of Devices in Multi-User Wireless Communications Systems (A)

Zhang, Wei

- Method and System for a Run-Time Reconfigurable Computer Architecture (A)

Zhang, Zhili

- Method and Apparatus for Detecting Surface and Subsurface Properties of Materials (P)
- Local Carrier Lifetime, Bandgap and Impurity Energy Level Measurement in Semiconductors and Transparent Materials (L)

Zhao, Wei

- Remote Doping of Organic Thin-Film Transistors (D, A)

Zheng, Jie

- Forming Closely Spaced Electrodes (P)

Zhong, Yu Lin

- Novel Method for Functionalization of Silicon Surface (D)

Zhuang, Lei

- Lithographic Apparatus for Fluid Pressure Imprinted Lithography (P)

Zwicker, Andrew

- Process for Administering Distributed Academic Competitions (L)

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ARK THOMPSON SALVATORE TORQUATO JUL-YI TSAI SOICHI UCHIDA SCOTT ULRICH NAVEEN VERMA SIGURD WAGNER JIANDI WAN WENJIE WAN DA
AN YANG YU YAO EMMA YATES JOUNG YOO YUJIAN YOU ZHAONING YU BOYANG ZHANG WEI ZHANG ZHILI ZHANG WEI ZHAO JIE ZHENG YU ZHONG L
RAIG ARNOLD DAVID AUGUST ADDISON AULT ROBERT AUSTIN MICHAEL AVALTRONI SUSHOBHAN AVASTHI ANIRUDH BADAM OLGICA BAKAJIN MARC
ENZIGER STEVEN BERNASEK ABHISHEK BHATTACHARJEE LEONIDAS BLERIS JOSHUA BLOOM ANDREW BOCARSLY JAMES BOEHLERT CARSTEN BOR
AMPAGNA HAN CAO ROBERT CARLSON MICHAEL CAROLUS MARTIN CASE AMY CAUDY ROBERT CAVA CALVIN CHAN WILLIAM CHARLES JIANXIN CHE
ANAHY JOHANNES DAPPRICH MARCELO DAVANCO JOHN DAVIS SAVAS DAYANIK PARU DESHPANDE G. CHARLES DISMUKES PETER DJUROVICH YORK
MICHAEL FEDERLE ELIOT FEIBUSH NATHANIEL FISCH JASON FLEISCHER MARIAN FLORESCU CHRISTODOULAS FLOUDAS STEPHEN FORREST KALE FR
LEXANDER GOLTISOV TROY GRAVES-ABE JOHN GROVES SAURABH GUPTA LIN HAN KENNETH HANSON CHRISTOPHER HARVEY WILDA HELEN DOUGLA
IBIN KANG HIROSHI KANNO CHARLES KARNEY JANJUN KIM JONG KIM JUSTIN KINNEY RACHEL KIPP EMRE KOYUNCU CHRISTINA KRAML KONSTANT
U SEAN LIU YUEH-LIN LOO STEPHEN LOTESTA KEVIN LOUTHERBACK BIN MA PETER MACKENZIE DAVID MACMILLAN RICHARD MAJESKI ADAM MALC
CLENDON EUAN MCLEOD LEWIS MEIXLER ALEXANDRE MERMILLOD-BLONDIN TROY MESTLER JAMES MICHAEL JOSEPH MICHELS KIM MIDWOOD RI
ONIA NAIDU OZGENCL NECATI DIANA NEGOESCU WAI-LEUNG NG CHRISTOPHER OBER COLLEEN O'LOUGHLIN YUSUF ONI DMITRY OPAITS BULENT
INKERTON MEGAN POMIANEK/BOLITHO H.VINCE POOR WARREN POWELL PAUL PRUCNAL ROBERT PRUD'HOMME JASON PUCHALLA XIANGFEI QI YA
WOLFGANG RUETTINGER WILLIAM RUSSEL BRADLEY SAMUELS LINDA SAPOCHAK XENIA SCHAFER CHRISTOPH SCHANIEL STEPHAN SCHAUDER GEOR
HEN THOMAS SHENK LEI SHI YIGONG SHI MIKHAIL SHNEIDER KEVAN SHOKAT ANDRE SHOUSTIKOV MAX SHTEIN SCOTT SIBLEY ROBERT SILICIAN
AMES STURM JOHN SUAREZ YIRU SUN LEE SWEM GERRY SWIEGERS ARNOLD TAMAYO DAVID TANK JACOB TARVER MARTIN TAYLOR JONAS TEGENF
AN WENJIE WAN DAI WANG DAMIEN WEIDMANN RONALD WEISS AISLYN WIST DAVID WOOD GERARD WYSOCKI ZHEN XIE YONGNA XING XIN XU YAN
HENG YU ZHONG LEI ZHUANG ANDREW ZWICKER MANOUK ABKARIAN CHIHAYA ADACHI DOUGLAS ADAMSON ILHAN AKSAY PHILIP ALBINIAC BRUCE
LGICA BAKAJIN MARC BALDO VLADIMIR BAN ZHENAN BAO EMILY BARTON BONNIE BASSLER MEGHAN BELLOWES YAAKOV BENENSON AMIT BEN-KIS
OEHLERT CARSTEN BOREK SIGFUS BREIDFJORD ROBIN BRIMBLECOMBE JAMES BROACH VLADIMIR BULOVIC PAUL BURROWS ROBERT CALDERBAN
HARLES JIANXIN CHEN YU CHEN MUNG CHIANG CHIA-FU CHOU STEPHEN CHOU MICHELLE CLASQUIN PHILIP COLE FORREST COLLMAN EDWARD CO
ETER DJUROVICH YORK DOBYNS ARTHUR DOGARIU DANIEL DOMBECK MAITREYA DUNHAM JEFFREY DWOSKIN JEREMY ENGLAND ADAM ENGLER AN
ORREST KALE FRANZ PETER FRAZIER MARIA FRESIA HO FUNG ABRAM GABRIEL DAYUAN GAO ELLEN GAWALT NOEL GIEBINK MARIAN GINDY BASAR
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HRISTINA KRAML KONSTANTIN KRAVTSOV THOMAS KUHLMAN VARUN KUMAR KWANG LEE RUBY LEE IHOR LEMISCHKA FENG LI WENDI LI CHUN LIN
ICHARD MAJESKI ADAM MALOOF PRASHANT MANDLIK SEBASTIAN MANU SETH MARDER MARGARET MARTONOSI DANA MASTROVITO MICHAEL MCA
ICHELS KIM MIDWOOD RICHARD MILES DAVID MILIUS NATHANIEL MOORMAN WILLIAM MORAN JAMES MORGAN ALEX MOROZOV KEITH MORTON JO
NI DMITRY OPAITS BULENT OZBAS PATRICK PADDISON VIVEK PAI SHUYANG PAN KYOUNG PARK LARRY PETERSON PETER PEUMANS LOREN PFEIFFER

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