The MRS Awards

Endowment Fund

In order to secure the future of an awards program of high caliber, and thereby maintain this valuable extra dimension of enrichment for the professional, educational, and general communities, the Materials Research Society requires a substantial Endowment Fund. The Society is deeply grateful to those individuals, and corporate and foundation donors who have already contributed to this Fund. In order to approach self-sufficiency, however, further donations are needed. MRS earnestly solicits consideration of this need by corporations, foundations, and individuals who share our vision of this program as an investment in the future.

For further information about the Awards Endowment Fund, please contact:
Materials Research Society Awards Program
awardsprogram@mrs.org
The MRS Awards Program

The MRS Awards Program strives to acknowledge outstanding contributors to the progress of materials research, and to recognize their exciting and profound accomplishments. We seek to honor those whose work has already had a major impact in the field, those who have defined the frontiers of the field, those who are outstanding exponents of their science, and those young researchers whose work already leads to great expectations for future leadership. Not only do we honor the award recipients, we also believe that by highlighting these leaders in our field and their creative work, we will enrich the awareness of the progress and diversity of materials research, both within the materials community and in the wider community at large.

Nomination information, as well as, guidelines for proposing the creation of a new MRS award can be found by visiting mrs.org/awards

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MRS Fellow

Honoring outstanding members whose sustained and distinguished contributions to the advancement of materials research are internationally recognized. MRS Fellow is a lifetime honor. The honor is highly selective, with no more than 0.2% of the membership being honored each year.

The vitality, diversity, and opportunity of materials research are all epitomized in this group of Fellows, whose remarkable accomplishments are highlighted by their brief citations. We are confident that the examples of excellence, enterprise and dedication, displayed by this steadily growing community of MRS Fellows will serve to encourage and inspire all materials researchers, at all levels, and will also support and enhance the prestige and recognition of materials research in serving the broader community of the world.

mrs.org/fellows
Nomination Deadline August 2, 2021

2021 Recipients

Andrea Alù
The City University of New York
For seminal contributions to the realization of engineered materials and metamaterials, and their several applications in electromagnetics, photonics and acoustics.

Guillermo A. Ameer
Northwestern University
For his contributions to regenerative engineering through pioneering work developing antioxidant citrate-based polymers that are useful for musculoskeletal, cardiovascular, dermal, and urological applications, rendering them enabling technologies to improve health.

Andreas Lendlein
Helmholtz-Zentrum Hereon
For his world-renowned research on shape-memory polymers enabling different stimuli, degradability and reversible movements as well as their applications in minimally invasive surgery, regenerative medicine and robotics.

Alexandra Boltasseva
Purdue University
For her contributions to plasmonic and optical metamaterials including as plasmonic waveguides for on-chip circuitry, high-temperature nanophotonics, optical structures with extremely low refractive index, and tunable plasmonics.

Jörg F. Löffler
ETH Zürich
For pioneering contributions to novel metallic materials design that have significantly advanced the fields of bulk metallic glasses and biodegradable implant materials.

Carol Handwerker
Purdue University
For national leadership across the field of electronic materials packaging, from structure evolution in ceramics to Pb-free solder replacements, and for leadership in sustainability in materials selection and materials education.

Liangbing Hu
University of Maryland
For his pioneering advances in the area of wood nanotechnologies and ultra-high temperature manufacturing and for uncovering new materials and methods for energy storage and conversion, printed electronics and wearables.

Irene J. Beyerlein
University of California, Santa Barbara
For her influential contributions to multi-scale modeling of severe plastic deformation, twinning mechanisms in hcp metals and alloys, and mechanics of nanomaterials and laminated metallic structures.
Eric A. Stach  
University of Pennsylvania  
For the innovative development and application of in situ and operando methods for the characterization of nanoscale phenomena in materials, largely through transmission electron microscopy.

Shu Yang  
University of Pennsylvania  
For outstanding contributions to the design, synthesis, assembly, and fabrication of responsive, foldable, and buildable soft and bioinspired materials, and for pioneering research on mechanical instabilities and photonic structures.

Paolo Samorì  
Université de Strasbourg  
For highly significant contributions to the advancement of materials science by developing novel high-performance multifunctional materials and devices for technologically relevant applications in (opto)electronics, energy and sensing.

Haimei Zheng  
Lawrence Berkeley National Laboratory  
For her pioneering work in the understanding of growth, structural transformations and self-assembly of nanoscale materials and dynamic phenomena at solid-liquid interfaces by developing innovative in-situ electron microscopy techniques.

David C. Martin  
University of Delaware  
For the design, synthesis, and characterization of conjugated polymers for interfacing electronic biomedical devices with living tissue; and for service to the MRS and broader materials community.

Ying Shirley Meng  
University of California, San Diego  
For developing integrated, multiscale computational and in-situ/operando characterization approaches to measure, control and improve energy storage materials and technologies.

Franky So  
North Carolina State University  
In recognition of achievements in advancing the research and development of organic semiconductors and contributions to the commercialization of OLED technology.

Charles H. Ahn  
Yale University  
For the design, synthesis, and characterization of conjugated polymers for interfacing electronic biomedical devices with living tissue; and for service to the MRS and broader materials community.

Joshua D. Caldwell  
Vanderbilt University  
For outstanding contributions to the design, synthesis, assembly, and fabrication of responsive, foldable, and buildable soft and bioinspired materials, and for pioneering research on mechanical instabilities and photonic structures.

Pawel Keblinski  
Rensselaer Polytechnic Institute  
For highly significant contributions to the advancement of materials science by developing novel high-performance multifunctional materials and devices for technologically relevant applications in (opto)electronics, energy and sensing.

Haimei Zheng  
Lawrence Berkeley National Laboratory  
For her pioneering work in the understanding of growth, structural transformations and self-assembly of nanoscale materials and dynamic phenomena at solid-liquid interfaces by developing innovative in-situ electron microscopy techniques.
Von Hippel Award

The Von Hippel Award recognizes those qualities most prized by materials scientists and engineers—brilliance and originality of intellect—combined with vision that transcends the boundaries of conventional scientific disciplines. The award bears the name of its inaugural recipient, whose interdisciplinary and pioneering research typified the spirit of the award. Nominations of candidates from all areas of materials research are encouraged.

Arthur von Hippel 1976
Massachusetts Institute of Technology
In whose honor the premier award of the Materials Research Society is named, a pioneer in the study of dielectrics, semi-conductors, ferromagnetics, and ferroelectrics. He was an early advocate of the interdisciplinary approach to materials research, and his example substantially furthered the science of materials.

Clarence M. Zener 1982
Carnegie Mellon University
Performed the definitive work on internal friction in solids. His influence is most visibly expressed in the line of research that resulted in the invention of the Zener diode and laid the foundation for the development of semi-conductors.

Sir Peter B. Hirsch 1983
University of Oxford
Is universally known for his research with the electron microscope into imperfection in the crystalline structure of materials and the relationship between structural defects and mechanical properties.

Walter L. Brown 1984
AT&T Bell Laboratories
Pioneered studies on semiconductor surface states, semiconductor radiation detectors, and the application of particle/solid interactions to the study of materials.

John W. Cahn 1985
National Bureau of Standards
Is today’s foremost scientist in the thermodynamics of phase equilibrium. He has made major contributions in solidification, crystal growth, glass formation, and the thermodynamics of surfaces and interfaces.

Minko Balkanski 1986
Université Pierre et Marie Curie
Has made major contributions to the understanding of semiconductor and other materials, particularly through his development and use of optical spectroscopies which led to an understanding of elementary excitations and band structures in these materials.

Recipients

Nomination Deadline  May 3, 2021

mrs.org/vonhippel
Theodore H. Geballe 1991
Stanford University
Has made ingenious use of chemical principles to synthesize novel materials of technological importance, has executed careful experiments on a wide range of materials to illuminate fundamental material properties and behavior, and has provided leadership in helping to formulate the modern concepts of interdisciplinary as a scientist, teacher, and administrator.

Michael F. Ashby 1992
University of Cambridge
Has made seminal contributions to subjects as diverse as dispersion hardening, grain boundary sliding, creep, fracture, sintering, cellular materials, ice mechanics, and wear.

Frederick Seitz 1993
The Rockefeller University
Has played a seminal role in establishing the modern fields of solid-state physics and materials science through his many basic books and research papers, and for his leadership as a teacher and administrator in encouraging the growth of these disciplines.

Alfred Y. Cho 1994
AT&T Bell Laboratories
Pioneered the development of molecular beam epitaxy (MBE) and its application to new devices based on quantum wells and artificially structured materials.

William W. Mullins 1995
Carnegie Mellon University
Has made profound contributions to the understanding of grain boundary motion, morphological stability, the structure of surfaces and interfaces, and flow and diffusion as stochastic phenomena.

Sir Alan H. Cottrell 1998
University of Cambridge
For seminal contributions to our understanding of intrinsic point defects, hydrogen in metals, and grain boundary segregation, especially as these effects relate to mechanical properties; for the innovative use of a wide range of novel experimental tools; and for stimulating, directing, and influencing interdisciplinary research throughout the materials community.

Larry L. Hench 1998
Imperial College of Science, Technology and Medicine
For pioneering accomplishments in the field of glass and ceramics including the demonstration of the first bioactive glass called Bioglass® and subsequent expansion of the field, demonstration of the feasibility of encapsulating nuclear waste products in glass/ceramic matrices, and development of sol-gel processing to produce ultra-high-purity optical and dielectric materials with controlled microstructures.

Richard S. Stein 1999
University of Massachusetts, Amherst
In recognition of his seminal work in the development of rappro-technical techniques for polymer characterization and property assessment, his profound contributions leading to a fundamental understanding of how polymeric materials respond to deformation in the melt and solid states, and his pioneering role in the development of graduate education in polymer materials.

Sir John B. Goodenough 1989
The University of Texas, Austin
Has made pioneering contributions within the domain of condensed matter sciences which have profoundly influenced, theoretically and experimentally, advances ranging from the quantum theory of solids, materials science and metallurgy to chemistry. He is noted for major contributions to the understanding of dislocations and strength of materials, electron theory of metals, and the properties of alloys.
Stuart S. P. Parkin 2012
IBM Almaden Research Center
For pioneering contributions to the science and technology of spintronic materials, particularly in establishing the fundamental foundations of spin-engineered magnetic heterostructures and demonstrating artificial atomically layered magnetic multilayers for applications in field sensing, magnetic memory and data storage devices.

Mildred S. Dresselhaus 2013
Massachusetts Institute of Technology
For her pioneering contributions to the fundamental science of carbon-based and other low electron density materials, her leadership in energy and science policy, and her exemplary mentoring of young scientists.

Marvin L. Cohen 2014
University of California, Berkeley
For explaining and predicting properties of materials and for successfully predicting new materials using microscopic quantum theory.

Sir Richard H. Friend 2015
University of Cambridge
For pioneering research on highly original materials phenomena and device concepts, enabled by polymeric semiconducting materials, and imprinting an indelible influence on contemporary materials science and the new field of plastic electronics.

Charles M. Lieber 2016
Harvard University
For pioneering contributions to nanoscience, defining the foundations of rational synthesis of nanoscale wires, characterization of their fundamental physical properties, and the development of applications of these materials in chemistry, biology and medicine.

C.N.R. Rao 2017
Jawaharlal Nehru Centre for Advanced Scientific Research
For his immense interdisciplinary contributions to the development of novel functional materials, including magnetic and electronic properties of transition metal oxides, nanomaterials such as fullerenes, graphene and 2-D inorganic solids, superconductivity and colossal magnetoresistance in rare-earth cuprates and manganates.

Hideo Hosono 2018
Tokyo Institute of Technology
For the discovery of high Tc iron-based superconductors, creation of transparent oxide semiconductors and inorganic electrides.

Jerry Tersoff 2019
IBM T.J. Watson Research Center
For advancing the understanding of low-dimensional and nanoscale electronic materials, surfaces and interfaces, through elegant theoretical models that highlight the essential physics controlling growth, structure and electronic properties.

Cato T. Laurencin 2020
University of Connecticut
For pioneering work in engineering of musculoskeletal tissues, for extraordinary work guiding technology and science policy, and for promoting ethnic diversity and excellence in science.
The David Turnbull Lectureship is awarded to recognize the career contribution of a scientist to fundamental understanding of the science of materials through experimental and/or theoretical research. In the spirit of the life work of David Turnbull, writing and lecturing also can be factors in the selection process.

Recipients

Thomas R. Anthony 1992
General Electric Company
For outstanding contributions to the understanding of diffusion, thermomigration, and the synthesis of diamond.

Morris Cohen 1993
Massachusetts Institute of Technology
For his contributions to the development of physical metal-lurgy, especially in the mechanism and kinetics of martensitic transformation, and for his leadership in establishing the broader discipline of materials science and engineering.

Arthur S. Nowick 1994
Columbia University
For his pioneering work in anelastic and dielectric behavior, in fast ion conductors, and in amorphous alloys, and for his excellence in teaching and writing.

Didier R. de Fontaine 1995
University of California, Berkeley
In recognition of fundamental contributions and insights in the fields of order/disorder phenomena in materials and computational techniques for phase diagrams.

Robert E. Newnham 1996
Pennsylvania State University
For pioneering the field of ceramic composites for electronic and optical applications, and in recognition of a distinguished career of guiding students, lecturing, and writing.

Merton C. Flemings 1997
Massachusetts Institute of Technology
For contributing to the foundations and technology of solidification processing and for educating a generation of materials engineers.

H. Eugene Stanley 1998
Boston University
For his insights into the statistical aspects of materials phenomena including phase transitions, pattern formation, and disordered, granular, and soft materials, and for his outstanding lecturing and writing on these topics.

Joseph E. Greene 1999
University of Illinois
For contributions to the use of non-thermal methods in the growth of thin films and the engineering of their phase, composition, and microstructure; and for excellence in teaching and writing.

Anthony G. Evans 2000
Princeton University
For outstanding contributions and leadership in bringing fundamental insights in mechanical behavior to materials engineering through research, teaching, mentoring, writing, and lecturing.

James R. Chelikowsky 2001
University of Minnesota
For his contributions to the fundamental understanding of electronic, optical, mechanical, surface and interface properties of bulk and nanostructured semiconductors, ceramics, and metals through ab initio calculations; and for excellence in teaching, lecturing, and writing.

Robert W. Cahn 2002
University of Cambridge
For service to the materials science community through writing, editing, mentoring, and fostering of international understanding, as well as for outstanding contributions to the development of physical metallurgy through research on recovery and recrystallization, rapid solidification, and intermetallic compounds.
Ellen D. Williams 2003  
*University of Maryland*

For groundbreaking research on the atomic-scale science of surfaces and for leadership, writing, teaching, and outreach that conveys her deep understanding of and enthusiasm for materials research.

Frank S. Bates 2004  
*University of Minnesota*

For pioneering contributions to the fundamental understanding of structure and properties of complex polymeric materials, particularly block copolymers and polymeric vesicles, coupled with outstanding lecturing, writing, teaching, and educational leadership.

Eugene E. Haller 2005  
*University of California, Berkeley*

For pioneering achievements and leadership in establishing the field of isotopically engineered semiconductors, for outstanding contributions to materials growth, doping and diffusion, and for excellence in lecturing, writing, and fostering international collaborations.

Austen Angell 2006  
*Arizona State University*

For pioneering contributions to the fundamental understanding of the formation, dynamics, and properties of glasses, and particularly his development of fragility as an essential tool for characterizing glass forming materials, coupled with a comprehensive understanding of the field effectively communicated through lectures and publications.

Ramamoorthy Ramesh 2007  
*University of California, Berkeley*

For his pioneering contributions to the materials science of complex oxide heterostructures and nanostructures, including multiferroics, ferroelectrics, and magnetoresistive oxides; and for his enthusiasm and leadership in conveying the excitement of this field to a broad audience.

David N. Seidman 2008  
*Northwestern University*

For research that has made major contributions to our understanding of point defects and the role they play in radiation damage, and phase transformations; unique studies of interfacial segregation; and especially for the development and fruitful use of atom-probe spectrometry; for numerous seminal publications, and excellence in education/training students and colleagues in the laboratory, classroom and conferences.

Edward J. Kramer 2009  
*University of California, Santa Barbara*

For outstanding contributions in bringing insights and understanding to flux pinning in superconductors and to the fundamentals of fracture, diffusions, interface phenomena in complex polymeric materials through research, teaching, mentoring, writing, and lecturing.

David D. Awschalom 2010  
*University of California, Santa Barbara*

For pioneering achievements and leadership in establishing the field of semiconductor spintronics, including fundamental discoveries of spin transport and coherence in the solid state, developing new experimental techniques and materials engineering for spin-based quantum information science, and for excellence in communication through lecturing and writing.

Phaedon Avouris 2011  
*IBM T. J. Watson Research Center*

For his development of nanoscience and nanotechnology through research, publications, lecturing and mentoring; in particular, for his work on carbon nanotubes, graphene and semiconductor surfaces, imaging and measuring their electronic structure and properties; modifying them chemically and physically using scanning probe techniques; and incorporating them into advanced electronic and photonic devices.

Robert Sinclair 2012  
*Stanford University*

For his original contributions to the understanding of atomic arrangements in solids and their relationship to diverse materials phenomena including martensitic transformations, dislocation interactions with interfaces, phase equilibria in complex thin-film systems, and nanoscale interactions in soft matter, for seminal contributions to in situ and high-resolution transmission electron microscopy, development of their combined use, and for passionate and dedicated teaching, advising, and academic leadership.

Robert O. Ritchie 2013  
*University of California, Berkeley*

For pioneering contributions to, and teaching us all how to think about, the mechanistic role of microstructure in governing fatigue and fracture in a variety of materials systems, and communicating his scientific insights to the world audience through eloquent lectures and seminal publications.

Rodney S. Ruoff 2014  
*Ulsan National Institute of Science and Technology*

For pioneering discoveries related to carbon materials and their innovative preparation, characterization, and mechanics.

Jacob Klein 2015  
*Weizmann Institute of Science*

For discoveries which transformed our understanding of soft matter and interfaces, through sustained research, inspirational lecturing and academic leadership.

James De Yoreo 2016  
*Pacific Northwest National Laboratory*

For discoveries that have shaped our understanding of crystallization science.

Sigurd Wagner 2017  
*Princeton University*

For groundbreaking contributions to the science and technology of thin film photovoltaics, amorphous silicon and flexible large-area electronics.

M. Stanley Whittingham 2018  
*Binghamton University (SUNY)*

For fundamental contributions to solid state ionics including the discovery of the key role of intercalation mechanisms, and the development and commercialization of rechargeable Li-ion batteries.

Paula T. Hammond 2019  
*Massachusetts Institute of Technology*

For her contributions to the science, engineering and applications of self-assembled macromolecular systems.

Sossina M. Haile 2020  
*Northwestern University*

For fundamental contributions to the electrochemical and thermochemical materials science that advance sustainable energy, for her commitment to the broader international materials community and for being an inspiring colleague and passionate mentor.
MRS Medal

The MRS Medal recognizes an exceptional achievement in materials research in the past ten years. A Medal will be awarded for a major advance, or cluster of closely related advances, in any materials-related field of research. The impact of this research on the progress of the relevant materials field will be a primary consideration in making the award.

MRS acknowledges the generosity of Professors Gwo-Ching Wang and Toh-Ming Lu for endowing this award.

mrs.org/medal

Nomination Deadline May 3, 2021

Recipients

Arthur J. Freeman 1990
Northwestern University
In recognition of his pioneering achievements in the field of monolayer and low dimensional magnetism.

Duward F. Shriver 1990
Northwestern University
In recognition of his seminal work in the synthesis, characterization, understanding and application of polymer based solid electrolyte materials.

Bernard S. Meyerson 1991
IBM T.J. Watson Research Center
In recognition of his dynamic research leading to the fabrication of high speed heterojunction bipolar transistors.

Shigeyuki Somiya 1991
Nishi Tokyo University
In recognition of his innovation and energy in pioneering the field of hydro-thermal synthesis of ceramic materials.

L. Eric Cross 1992
Pennsylvania State University
In recognition of his leadership and vision in the atomic scale engineering of relaxor ferroelectric materials as the prototype of self-assembling nano-composites.

Stephen J. Pennycook 1992
Oak Ridge National Laboratory
For the development and application of incoherent (Z contrast) imaging in the scanning transmission electron microscope for direct determination of the atomic scale structure and chemistry of materials and interfaces.

Donald R. Huffman 1993
University of Arizona
For the discovery of a method to produce macroscopic quantities of fullerenes, and for elucidating their properties.

Wolfgang Krätschmer 1993
Max-Planck Institute for Kernphysik
For innovative development of STM as a quantitative probe of the microscopic mechanisms of crystal growth and ordering at surfaces.

Max G. Lagally 1994
University of Wisconsin, Madison
For incisive studies of chemical effects of ultrasound and the use of sonochemistry in synthesis of unusual inorganic materials.

Kenneth S. Suslick 1994
University of Illinois, Urbana—Champaign
For seminal contributions to compositionally graded materials, using bandgap engineering, and their innovative applications in electronics and optoelectronics.

Federico Capasso 1995
AT&T Bell Laboratories
For seminal contributions to compositionally graded materials, using bandgap engineering, and their innovative applications in electronics and optoelectronics.

Rudolf M. Tromp 1995
IBM T.J. Watson Research Center
For pioneering experiments on the role of atomic structure, surface stress, and surfactants in heteroepitaxial growth.

Jerry D. Tersoff 1996
IBM T.J. Watson Research Center
For seminal contributions to the theory of strain relaxation in thin films.
Shuji Nakamura 1997
Nichia Chemical Industries Ltd.
For the development of lattice-mismatched GaN-based heteroepitaxy and its application to the creation of blue and green light-emitting diodes and short wavelength laser diodes.

William L. Johnson 1998
California Institute of Technology
For the development and fundamental understanding of bulk metallic glass forming alloys.

M. George Craford 1999
Hewlett Packard
For pioneering contributions and leadership in the development of visible-spectrum light-emitting diode materials and devices.

Stephen Forrest 1999
Princeton University
For pioneering contributions to the growth and optoelectronic applications of organic semiconductor thin films.

Dieter M. Gruen 2000
Argonne National Laboratory
For the low-pressure synthesis of nanocrystalline diamond films from fullerene precursors.

Samuel I. Stupp 2000
Northwestern University
For seminal contributions to the synthesis, structure, and theory of metal organic frameworks.

Mathew Mate 2001
IBM Almaden Research Center
For pioneering studies of friction at the atomic and molecular level.

Uzi Landman 2002
Georgia Institute of Technology
For molecular dynamics simulations elucidating the microscopic behavior of solid and liquid interfacial junctions and atomistic processes of tribology.

Charles M. Lieber 2002
Harvard University
For controlled synthesis of nanowire and nanotube materials.

C. Jeffrey Brinker 2003
Sandia National Laboratories
For his pioneering application of principles of sol-gel chemistry to the self-assembly of functional nanoscale materials.

Ivan K. Schuller 2003
University of California, San Diego
For his innovative studies of exchange bias in magnetic heterostructures and nanostructures.

Jacob N. Israelachvili 2004
University of California, Santa Barbara
For his work on adhesion and friction, which has revolutionized the understanding of molecular mechanisms responsible for these technologically vital phenomena.

Toh-Ming Lu 2004
Rensselaer Polytechnic Institute and
University of California, San Diego/Los Alamos National Laboratory
For seminal contributions to understanding mechanisms of thin-film surface and interface morphology evolution and establishing the foundations of diffraction and scattering methods for its quantitative analysis.

Reshef Tenne 2005
Weizmann Institute
For realizing that nanoclusters of layered compound materials (e.g., MoS2, WS2) can be made to fold into hollow cage structures, analogous to graphitic carbon. These structures, known as ‘Inorganic Fullerenes,’ constitute a materials class with exciting new properties.

Pulickel Ajayan 2006
Rensselaer Polytechnic Institute and
Won Bong Choi 2006
Florida International University
For important developments in the material science and applications of carbon nanotubes.

Mark Thompson 2006
University of Southern California
For development of highly efficient heavy metal phosphor complexes.

Omar M. Yaghi 2007
University of California-Los Angeles
For his pioneering work on the synthesis, structure, and theory of metal organic frameworks.

Darrell G. Schlom 2008
Cornell University and
James F. Scott 2008
Cambridge University
For fundamental contributions to the materials science of oxides underlying current and future electronic devices.

Gerbrand Ceder 2009
Massachusetts Institute of Technology
For pioneering the high-impact field of first-principles thermodynamics of batteries materials and for the development of high power density Li battery compounds.

Walter A. de Heer 2010
Georgia Institute of Technology
For his pioneering contributions to the science and technology of epitaxial graphene.

Peidong Yang 2011
University of California, Berkeley
For outstanding contributions in the creative synthesis and assembly of semiconductor nanowires and their heterostructures, and innovations in nanowire-based photonics, thermoelectrics, solar energy conversion and nanofluidic applications.

Georgia Institute of Technology
For seminal contributions in the discovery, controlled synthesis, and fundamental understanding of ZnO nanowires and nanobelts, and the design and fabrication of novel, nanowire-based nanosensors, piezotronic devices, and nanogenerators.

Jennifer A. Lewis 2012
University of Illinois at Urbana-Champaign
For pioneering contributions in the design of viscoelastic inks composed of colloidal, polymeric, and organometallic building blocks and their directed assembly into planar and 3D functional architectures.

Miquel Salmeron 2012
Lawrence Berkeley National Laboratory
For his contribution to the molecular level understanding of material surfaces under ambient conditions of gas pressure and temperature made possible by the development and application of Ambient Pressure Photo-Electron Spectroscopy (APPE), which revealed the chemical structure of liquids, catalysts surfaces and nanoparticles during environmental reaction conditions.

Alexander A. Balandin 2013
University of California, Riverside
For discovery of the extraordinary high intrinsic thermal conductivity of graphene, development of an original opothermal measurement technique for investigation of thermal properties of graphene, and theoretical explanation of the unique features of the phonon transport in graphene.

Mercouri G. Kanatzidis 2014
Northwestern University and Argonne National Laboratory
For the discovery and development of nanostructured thermoelectric materials.
Sharon C. Glotzer 2014
University of Michigan
and
Nicholas A. Kotov 2014
University of Michigan
For foundational work elucidating processes of nanoparticle self-assembly.

Richard B. Kaner 2015
University of California, Los Angeles
For the discovery of efficient methods to synthesize water dispersible conducting polymer nanofibers and their applications in sensors, actuators, molecular memory devices, catalysis, and the novel process of flash welding.

Robert J. Cava 2016
Princeton University
For pioneering contributions in the discovery of new classes of 3D Topological Insulators.

Joanna Aizenberg 2017
Harvard University
For developing new synthesis routes inspired by biological principles for the fabrication of advanced complex multifunctional materials and devices.

Younan Xia 2017
Georgia Institute of Technology
For seminal contributions to shape-controlled synthesis of metal nanocrystals with major impact on catalysis, plasmonics and biomedicine.

John Rogers 2018
Northwestern University
For pioneering contributions to materials for diverse classes of bio-integrated electronic systems.

Catherine J. Murphy 2019
University of Illinois at Urbana-Champaign
and
Haimei Zheng 2019
Lawrence Berkeley National Laboratory
For outstanding contributions on the study of anisotropic nanoscale materials, transformation and application.

Yi Cui 2020
Stanford University
and
Linda Nazar 2020
University of Waterloo
For outstanding contributions to advanced materials design, synthesis and characterization for energy storage, particularly Li battery technologies

Yi Cui 2020 MRS Medal Recipient
Linda Nazar 2020 MRS Medal Recipient
Innovation in Materials Characterization Award

To honor an outstanding advance in materials characterization that notably increases the knowledge of the structure, composition, in situ behavior under outside stimulus, electronic, mechanical, or chemical behavior, or other characterization feature, of materials. It is not limited to the method of characterization or the class of material observed. Impact of the advance on materials research will be the primary consideration in making the award. Nominations for this award may be made for scientists and engineers in all areas of materials research.

MRS acknowledges the generosity of Professors Gwo-Ching Wang and Toh-Ming Lu for endowing this award.

mrs.org/imca

Nomination Deadline August 2, 2021

Recipients

Warren C. Oliver 2010
Nanomechanics, Inc.

George M. Pharr 2010
Oak Ridge National Laboratory

For seminal contributions to the development of the instrumentation and analysis methods of nanoindentation for characterizing the mechanical properties of materials at the micro- and nanometer-length scales. Their work on nanoindentation has profoundly impacted all fields of materials research where mechanical behavior is important.

Tye T. Gribb 2011
DTE Research & Design LLC

Thomas F. Kelly 2011
Cameca Instruments, Inc.

David J. Larson 2011
Cameca Instruments, Inc.

Stephen J. Pennycook 2012
Oak Ridge National Laboratory

For his pioneering use of aberration-corrected Z-contrast scanning transmission electron microscopy in the characterization of materials at the atomic scale.

D. Bruce Chase 2013
University of Delaware

John F. Rabolt 2013
University of Delaware

For the highly successful conception, design, fabrication, and commercialization of an ergonomic three-dimensional local-electrode atom probe (LEAP) tomograph that enables the determination of the local composition information, on an atom-by-atom basis, of metallic, semiconducting, ceramic and organic materials, on a subnanometer scale, in direct space, with high mass resolving power and signal-to-noise ratio, permitting the determination of small concentrations of all elements.

Albert Polman 2014
University of Amsterdam, FOM Institute AMOLF, The Netherlands

For the development, application and commercialization of Angle-Resolved Cathodoluminescence Imaging Spectroscopy (ARCIS) as a new tool for optical imaging at the nanoscale, with applications in nanophotonics and materials science in general.

John M. Carpenter 2015
Argonne National Laboratory

For innovations in neutron sources that have fundamentally changed their performance and enabled opportunities for further advancement of materials that improve the quality of life.
Niels de Jonge 2016
INM–Leibniz Institute for New Materials and
Frances M. Ross 2016
IBM T.J. Watson Research Center and
Chongmin Wang 2016
Pacific Northwest National Laboratory
For seminal contributions to the imaging of specimens in liquids using transmission electron microscopy, revolutionizing the direct observation of materials processes, batteries during operation and biological structures.

Joost W.M. Frenken 2017
Advanced Research Center for Nanolithography (ARCNL)
For the development, application and commercialization of high-speed, temperature-controlled, in situ scanning probe microscopy, leading to key insights in the structure, dynamics and chemistry of surfaces and interfaces.

David G. Cahill 2018
University of Illinois at Urbana-Champaign
For developing transformative methods for characterizing the thermal transport properties of materials and their interfaces using time-domain thermoreflectance (TDTR) and related approaches.

Stig Helveg 2019
Haldor Topsoe
For pioneering atomic-scale transmission electron microscopy under reactive gas environments, leading to groundbreaking insights in catalysis, crystal growth and corrosion.

Jinghua Guo 2020
Lawrence Berkeley National Laboratory
For pioneering in situ/operando soft x-ray spectroscopy characterization of interfacial phenomena in energy, catalysis and chemical materials science.

Jianwei (John) Miao 2021
University of California, Los Angeles
For pioneering coherent diffractive imaging for a wide range of material systems and atomic electron tomography for determining atomic positions without assuming crystallinity.
Materials Theory Award

The Materials Theory Award recognizes exceptional advances made by materials theory to the fundamental understanding of the structure and behavior of materials. This award is intended to honor both those who have pioneered the development of a new theoretical approach and those who have used existing approaches to provide significant new insight into materials behavior.

MRS acknowledges the generosity of Professors Gwo-Ching Wang and Toh-Ming Lu for endowing this award.

mrs.org/mta

Nomination Deadline May 3, 2021

Recipients

Alex Zunger 2011
University of Colorado, Boulder
For his development of the inverse band structure approach to materials by design and the foundational developments of methods of first-principles theory of solids, leading to innovative and transformative studies of renewable-energy materials and nanostructures.

John Perdew 2012
Tulane University
For his pioneering contributions to the fundamental development and nonempirical approximations in density functional theory.

David J. Srolovitz 2013
University of Pennsylvania
For decisive and highly influential contributions to the theory and simulation of microstructure, morphological evolution, mechanical behavior, and the structure and dynamics of interfaces.

Long-Qing Chen 2014
The Pennsylvania State University
For his pioneering work in the development of the phase-field method and its applications in the computational modeling of mesoscale structures and their dynamics in inhomogeneous materials.

Steven G. Louie 2015
University of California, Berkeley
For his seminal contributions to the development of ab initio methods and the elucidation of many-electron effects in electronic excitations and optical properties of solids and nanostructures.

Gerbrand Ceder 2016
University of California, Berkeley, and Lawrence Berkeley National Laboratory
For seminal contributions to the emerging field of computationally guided materials exploiting high-throughput computation and promoting the development of open databases to enable widespread use.

Glenn H. Fredrickson 2017
University of California, Santa Barbara
For pioneering the development of field-theoretic computer simulation methods and their application to investigate and design self-assembling polymers and soft materials.

Giulia Galli 2018
University of Chicago
For the development of advanced first-principles simulation methods and their application to the understanding, prediction and design of complex nanostructured materials.

Lu Sham 2019
University of California, San Diego
For pioneering contributions to the quantum theory of molecules and solids, especially the Kohn–Sham formulation of density functional theory.

Jean-Luc Bredas 2020
The University of Arizona
For seminal theoretical contributions to the design and understanding of novel molecules and materials in the fields of organic electronics and photonics.
Mid-Career Researcher Award

The Mid-Career Researcher Award recognizes exceptional achievements in materials research made by mid-career professionals. It is intended to honor an individual who is between the ages of 40 and 52 at the time of nomination. Exceptions may be made for an interruption in career progression due to family or military service. The award recipient must also demonstrate notable leadership in the materials area.

The Mid-Career Researcher Award is made possible through an endowment established by Millipore Sigma.

mrs.org/mra

Nomination Deadline August 2, 2021

Recipients

Kristi S. Anseth 2012
University of Colorado, Boulder
Exceptional achievement at the interface of materials and biology enabling new, functional biomaterials that answer fundamental questions in biology and yield advances in regenerative medicine, stem-cell differentiation, and cancer treatment.

John A. Rogers 2013
University of Illinois at Urbana-Champaign
For fundamental and applied contributions to materials, mechanics designs, and assembly techniques for stretchable/flexible electronic systems.

Lei Jiang 2014
Chinese Academy of Sciences, China
For establishing fundamental understanding of the interfacial properties of biological systems and transforming that insight into commercialized bioinspired materials with properties better than those of natural systems.

Seth R. Marder 2015
Georgia Institute of Technology
For establishing fundamental relationships between the chemical structure of organic molecules and their optical and electronic properties, thereby profoundly impacting how the scientific community designs optimized molecular structures for use in nonlinear optical applications.

Hongjie Dai 2016
Stanford University
For seminal contributions to carbon-based nanoscience and applications in nanoelectronics, renewable energy, and biological systems.

Nicola Spaldin 2017
ETH Zürich
For creating a new theoretical framework describing multiferroics and for service to the materials community.

David Mooney 2018
Harvard University
For pioneering contributions to the field of biomaterials, especially in the incorporation of biological design principles into materials and the use of biomaterials in mechanobiology, tissue engineering and therapeutics.

Hongyou Fan 2019
Sandia National Laboratories and The University of New Mexico
For outstanding contributions in nanoparticle self-assembly of functional nanomaterials and for leadership within the materials community.

Xiangfeng Duan 2020
University of California, Los Angeles
For contributions to rational design and assembly of layered materials for electronic, photonic and energy devices.

Zhenan Bao 2021
Stanford University
For pioneering contributions and conceptual developments to organic electronics and skin-inspired electronics.
The MRS Impact Award honors outstanding individuals who have displayed excellence in areas of science communication, education, advancing diversity, mentoring, or community engagement, which reflect the Society’s pursuit to advance materials science and technology to improve the quality of life.

Nomination Deadline  August 2, 2021

mrs.org/mrs-impact-award

Recipient

Lynnette D. Madsen  2017  
National Science Foundation
In recognition of her effectiveness in exemplifying technical leadership, advancing diversity, fostering mentoring and communicating persuasively to influence both large and small institutions.

Michael Falk  2018  
Johns Hopkins University
For broadened participation in STEM education in Baltimore elementary schools; for bringing attention to professional and educational climate issues faced by LGBTQ students and researchers; and for pioneering research-based methodologies for integrating computation into the Materials Science and Engineering curriculum.

Meyya Meyyappan  2019  
NASA Ames Research Center
For his lifelong dedication toward creating significant and outstanding impact to understanding nanotechnology through global outreach initiatives and for unwavering mentorship.

Takiya J. Ahmed Foskey  2020  
DuPont
For leadership, mentoring and substantive contributions toward creating and organizing educational opportunities to prepare the next generation, in particular underrepresented and economically disadvantaged youth, to strive for STEM education and careers and be role models in the future.

Amy J. Moll  2021  
Boise State University
For sustained leadership and impact in materials outreach and education, including founding the department at Boise State University, fostering excellent materials science pedagogy, and engaging the public through museum exhibits and television documentaries.
The Kavli Foundation is dedicated to advancing science for the benefit of humanity, promoting public understanding of scientific research and supporting scientists and their work.

The Kavli Foundation Early Career Lectureship in Materials Science

Nomination Deadline  May 3, 2021
Outstanding Early-Career Investigator

The MRS Outstanding Early-Career Investigator Award is intended to recognize outstanding, interdisciplinary scientific work in materials research by a young scientist or engineer. The award recipient must also show exceptional promise as a developing leader in the materials area.

Nomination Deadline August 2, 2021

Recipients

Stuart S.P. Parkin 1991
IBM Almadin Research Center
Recognizing enterprise in new materials, high Tc superconductors, and magnetic multilayers displaying oscillatory exchange coupling.

David D. Awschalom 1992
University of California, Santa Barbara
Recognizing enterprise in the field of nanostructured materials.

Charles M. Lieber 1993
Harvard University
Pioneering contributions to the understanding of novel materials through synthesis and elegant determination of complex local structure and electronic properties.

David J. Eaglesham 1994
AT&T Bell Laboratories
Creativity, leadership and experimental ingenuity in discovering an understanding of fundamental interface, surface and defect phenomena in semiconductor crystal growth.

A. Paul Alivisatos 1995
University of California, Berkeley
Leadership in materials research, notably in the field of nanocrystals.

Antonios G. Mikos 1996
Rice University
For the synthesis and processing of new biomaterials for tissue engineering, supports for cells, tissue-growth conduits, targeted cell-adhesion substrates, and cellular-response stimulants.

Christopher N. Bowman 1997
University of Colorado
For seminal contributions to the field of highly crosslinked polymers, information storage materials and computational methods in polymerization engineering.

Anne M. Mayes 1998
Massachusetts Institute of Technology
For incisive theoretical and experimental investigations of macromolecules at and near surfaces and interfaces leading to tailor-able surface properties, especially novel bio-compatible substrates.

Chad A. Mirkin 1999
Northwestern University
Pioneering and leadership role in developing a new interdisciplinary field in which complex biological macromolecules are used to assemble inorganic nanoparticle building blocks into functional meso- and macroscopic structures.

Frances M. Ross 2000
IBM T.J. Watson Research Center
For innovative and powerful experimental studies, based upon development of novel in situ electron microscopy techniques, that have provided fundamental new understanding of nucleation, growth, oxidation and etching processes in a wide range of materials systems.

Kristi S. Anseth 2001
University of Colorado
For innovative work in polymeric biomaterials for drug delivery, bone and cartilage repair, and tissue engineering, and for outstanding leadership potential in this interdisciplinary field of materials research.

Timothy J. Deming 2003
University of California, Santa Barbara
For his discovery of synthetic methods to produce polypeptide homopolymers and block copolymers with exquisite control of block length, sequence and secondary structure and the interdisciplinary exploitation of these materials to yield unique hydrogels and inorganic materials.
Peidong Yang 2004
University of California, Berkeley
For innovative synthesis of a broad range of nanowire and nanowire heterostructure materials, and the discovery of optically-induced lasing in individual nanowire devices.

Harold Y. Hwang 2005
University of Tokyo
For innovative work on the materials physics of transition metal oxides and the atomicscale synthesis of complex oxide heterostructures.

Teri Odom 2009
Northwestern University
For the development and characterization of nanoparticles and nanostructured arrays designed to filter and propagate plasmonic excitations with unprecedented control and sensitivity.

Mark C. Hersam 2010
Northwestern University
For pioneering research on the physics, chemistry, and engineering of nanoelectronic materials and devices, including solution-phase techniques for sorting carbon nanotubes and graphene, and for organic functionalization and nanopatterning of semiconductor surfaces.

Dmitri V. Talapin 2011
University of Chicago
For methodological developments of synthesis and self-assembly of inorganic nanocrystals and for fundamental studies transforming colloidal nanostructures into electronic and optoelectronic materials.

Markus J. Buehler 2012
Massachusetts Institute of Technology
For highly innovative and creative work in computational modeling of biological, bio-inspired, and synthetic materials, revealing how weakness is turned into strength through hierarchical material design.

Alexandra Boltasseva 2013
Purdue University & Technical University of Denmark
For pioneering research to develop novel materials for advanced plasmonic, metamaterial and transformation optics devices with potential applications in future nanoscale photonic technologies.

Henry J. Snaith 2014
University of Oxford, United Kingdom
For innovation and development of solid state dye sensitized solar cells and for his groundbreaking work in perovskite hybrid solar cells.

Karena W. Chapman 2015
Argonne National Laboratory
For contributions to understanding the coupled structure and reactivity of energy-relevant systems and for developing the incisive experimental and analytical tools needed to interrogate these complex materials systems.

Ali Javey 2015
University of California, Berkeley
For innovative contributions in integrating nanomaterials into device applications.

Dino Di Carlo 2016
University of California, Los Angeles
For pioneering methods to manufacture, measure, and manipulate microstructured materials and applying these innovations to biomedical problems.

Timothy J. White 2016
Air Force Research Laboratory
For innovations in the preparation and applications of photo-responsive materials.

Jennifer A. Dionne 2017
Stanford University
For innovating new materials and methods to visualize and control nanometer-scale optical, electronic, and chemical processes in situ.

Jonathan Rivnay 2020
Northwestern University
For innovative research on an organic semiconductor microstructure and charge transport for electronics and bioelectronics.

Huolin Xin 2021
University of California, Irvine
For development of innovative transmission electron microscopy imaging methodologies for advancing energy storage and conversion materials.

William Chueh 2018
Stanford University
For groundbreaking research on ionic and electronic charge transport and interface chemistry relevant to electrochemical devices.

Vanessa Wood 2018
ETH Zürich
For innovative work in visualizing, quantifying and explaining transport processes in material and devices.

Sheng Xu 2019
University of California, San Diego
For materials and device designs in biointegrated electronics and stretchable energy systems.

Huolin Xin 2021
University of California, Irvine
For development of innovative transmission electron microscopy imaging methodologies for advancing energy storage and conversion materials.

James M. Rondinelli 2017
Northwestern University
For pioneering advances in the theoretical understanding of atomic structure-electronic property relations of complex inorganic oxides in bulk, thin film, and superlattice geometries.
MRS Nelson “Buck” Robinson Science & Technology Award for Renewable Energy

The newest MRS award, the MRS Nelson “Buck” Robinson Science and Technology Award for Renewable Energy, recognizes an individual for the development of novel sustainable solutions for the realization of renewable sources of energy.

MRS acknowledges the generosity of Sophie Robinson for endowing this award in memory of her father, Nelson “Buck” Robinson.

mrs.org/nelson-buck-robinson-science-and-technology-award

Nomination Deadline  May 3, 2021
MRS Postdoctoral Awards

The MRS Postdoctoral Awards recognize postdoctoral scholars who are showing exceptional promise that may include, for example, excellence in scientific research, leadership, advocacy, outreach, or teaching, during their postdoc assignment.

MRS acknowledges the Jiang Family Foundation and MTI Corporation for their generous contribution to support this award.

mrs.org/postdoctoral

Fall Nomination Deadline  May 3, 2021
Spring Nomination Deadline  August 2, 2021

Recipients

Jonathan Rivnay  Fall 2014
École Nationale Supérieure des Mines de Saint-Étienne
For the development of state-of-the-art organic electronic devices for interfacing with biology, through the elucidation of structure versus electrical properties relationships.

Chao Wang  Fall 2014
Stanford University
For innovative research developing self-healing electronic materials and utilizing the self-healing concept to achieve high-performance, long lifetime electronic and energy storage devices.

Dustin W. Janes  Spring 2015
The University of Texas at Austin
For outstanding theoretical and experimental contributions to understanding transport in polymer films and membranes and novel nano- and micro-patterning methodologies, and his dedicated mentorship of graduate and undergraduate student researchers.

Yuan Yang  Spring 2015
Massachusetts Institute of Technology
For innovative research on electrochemical materials and systems to convert low-grade waste heat into electricity and exploration of new applications of batteries.

Jiamian Hu  Fall 2015
The Pennsylvania State University
For pioneering contributions to the theoretical understanding of strain-mediated electric-field-induced magnetization switching in magnetoelastic nanostructures and for designing prototypes of magnetoelastic devices.

Beata Layla Mehdi  Fall 2015
Pacific Northwest National Laboratory
For advances in in situ transmission electron microscopy instrumentation for electrochemical studies and quantitative understanding of nanoscale processes taking place in energy storage systems.

Babak Anasori  Spring 2016
Drexel University
For innovative research on 2D materials, creative and artistic ways of presenting science, dedication to and love of teaching, and student mentoring.

Shinbuhm Lee  Spring 2016
Oak Ridge National Laboratory
For the innovative development of multifunctional ionic devices via vertically aligned heterostructures, and outstanding contributions for theoretical and experimental understanding of them.

Qi Li  Fall 2016
The Pennsylvania State University
For advancing the field of polymer nanocomposites for electrical energy storage and conversion.

Yongming Sun  Fall 2016
Stanford University
For advancing the development of high-capacity battery materials.

Bert Conings  Spring 2017
Hasselt University
For innovation in hybrid perovskite photovoltaics, addressing fabrication, lifetime, and toxicity issues.

Yunlong Zi  Spring 2017
Georgia Institute of Technology
For pioneering research to improve the efficiency and wider applicability of mechanical energy harvesting systems.
Michael Saliba  Fall 2017
École Polytechnique Fédérale de Lausanne (EPFL)
For developing a family of stable, reproducible and highly efficient multi-cation perovskites for optoelectronics.

Jieun Yang  Fall 2017
Rutgers, The State University of New Jersey
For creative research in chemically exfoliated 2D materials and tireless dedication to mentoring women in science and engineering.

Arnab Banerjee  Spring 2018
Oak Ridge National Laboratory
For groundbreaking experiments providing evidence of topological excitations in a two-dimensional magnet, moving toward lossless qubits in quantum computing.

Jie Xu  Spring 2018
Stanford University
For applying polymer physics concepts to realize integrated, intrinsically stretchable transistors for skin electronics.

James Bullock  Fall 2018
University California, Berkeley
For the development of dopant-free, selective contacts for high-efficiency Si photovoltaics.

Minah Lee  Fall 2018
Stanford University
For the development of sustainable organic materials to achieve high-performance energy storage devices and understanding their redox mechanisms.

Kaifu Bian  Spring 2019
Sandia National Laboratories
For advancing the understanding of nanoparticle assemblies under stress.

Nicholas Jackson  Spring 2019
Argonne National Laboratory
For foundational theoretical and computational contributions to the study of structure and transport in charged polymers and organic semiconductors.

Rachel E. Carter  Fall 2019
U.S. Naval Research Laboratory
For contributions to the design of safe battery materials and systems, leadership of students and advocacy for women scientists and engineers.

Yasutaka Nagaoka  Fall 2019
Brown University
For contributions to the assembly of nanocrystal superstructures.

Tian Li  Spring 2020
University of Maryland
For the innovative and pioneering research in wood nanotechnology and nanocellulose toward energy, water and sustainability.

Xianwen Mao  Spring 2020
Cornell University
For developing fabrication strategies and operando imaging techniques for nanoscale electrochemical materials systems important for environmental and energy applications.

Edoardo Baldini  Fall 2020
Massachusetts Institute of Technology
For implementing novel laser techniques to identify and control collective excitations in quantum materials leading to major advances in the field of excitonics and phononics.

Chengwei Wang  Fall 2020
University of Maryland
For developing a novel high temperature sintering technique for rapid screening and discovery of high performance ceramics for energy and other applications.

Yang Liu  Spring 2021
The Pennsylvania State University
For the pioneering research in ferroelectric polymers to achieve high piezoelectric responses, and outstanding contributions to understanding of relaxor ferroelectricity in polymers.

Yu Jun Tan  Spring 2021
National University of Singapore
For developing stretchable, self-healing materials for smart electronics.
MRS Bulletin
Postdoctoral Publication Prize

MRS is pleased to present the inaugural MRS Bulletin Postdoctoral Publication Prize!

The MRS Bulletin Postdoctoral Publication Prize recognizes postdoctoral researchers for their intellectual merit and the impact of their research and scholarship. Candidates should have an interest in scientific publications and/or science writing and communications, and show promise for future scientific contributions in the broad materials field.

MRS Bulletin acknowledges the Jiang Family Foundation and MTI Corporation for their generous contribution to support this award.

mrs.org/bulletin-prize

Nomination Deadline  July 31, 2021

Recipient

Andy Tay Kah Ping 2017
Stanford University
For his combination of outstanding academic credentials, scientific publications and science communication efforts.

Hortense Le Ferrand 2018
of Nanyang Technological University
For her excellent academic credentials, high-quality scientific publications, science writing and science communications efforts, and potential for future scientific leadership in the materials field.

Ognjen Ilic 2019
University of Minnesota
For his outstanding academic achievements, high quality of scientific publications, demonstrated passion for science communication, science outreach efforts to the general public, and clear potential to become a leader in the field of materials research.

Ritu Raman 2020
Massachusetts Institute of Technology (MIT)
For her diverse research experience, outstanding academic achievements, high quality of scientific publications, extensive outreach efforts, and dedication to mentorship and professional service.
MRS Woody White Service Award

MRS is pleased to present the inaugural Woody White Service Award!

The MRS Woody White Service Award honors outstanding individuals who have embodied the MRS Mission, Vision and Values for an egalitarian interdisciplinary community advancing materials science and technology to improve the quality of life. It may be given in recognition of long-term, impactful service to the Society, as well as for special projects/programs that significantly impacted the Society.

mrs.org/woody-white

Nomination Deadline August 2, 2021
MRS Communications Lecture

The 2020 MRS Communications Lecture recognizes excellence in the field of materials research through work published in MRS Communications. It is intended to honor the authors of an outstanding paper published in the journal during the award year.

mrs.org/mrc-lecture

Nomination Deadline  January 25, 2021

Recipient

David C. Martin 2016
University of Delaware
“Molecular design, synthesis, and characterization of conjugated polymers for interfacing electronic biomedical devices with living tissue”
Published April 15, 2015
MRS Communications Volume 5, Issue 2

Sharon C. Glotzer 2017
University of Michigan
“Rational design of nanomaterials from assembly and reconfigurability of polymer-tethered nanoparticles” with Ryan L. Marson and Trung Dac Nguyen
Published July 23, 2015
MRS Communications Volume 5, Issue 3

Clara Santato 2018
Polytechnique Montréal
“Natural melanin pigments and their interfaces with metal ions and oxides: emerging concepts and technologies” with Eduardo Di Mauro, Ri Xu, and Guido Soliveri
Published May 11, 2017
MRS Communications Volume 7, Issue 2

Timothy J. Bunning 2019
Air Force Research Laboratory
“Dynamic Optical Properties of Gold Nanoparticles/Cholesteric Liquid-Crystal Arrays”
Published April 26, 2018
MRS Communications Volume 8, Issue 2

Grace X. Gu 2020
University of California, Berkeley
“Artificial Intelligence for Materials Design and Additive Manufacturing”
Published March 27, 2019
MRS Communications Volume 9, Issue 2

Sossina M. Haile 2021
University of California, Berkeley
“Insensitivity of the extent of surface reduction of ceria on termination: Comparison of (001), (110), and (111) faces” with Weizi Yuan
Published September 30, 2020
MRS Communications Volume 10, Issue 4

mrs.org/mrc-lecture

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mrs.org/mrc-lecture

Nomination Deadline January 25, 2021
MRS Gold and Silver Awards are intended to honor and encourage graduate students whose academic achievements and current materials research display a high level of excellence and distinction. MRS seeks to recognize students of exceptional ability showing promise for significant future achievement in materials research.

Arthur Nowick Graduate Student Award
This award honors the late Dr. Arthur Nowick and his lifelong commitment to teaching and mentoring students in materials science. The award will be presented to a GSA finalist who shows particular promise as a future teacher and mentor at each Meeting.

MRS acknowledges the generous contribution for the Nowick Award to the MRS Foundation from Joan Nowick in memory of her husband Dr. Arthur Nowick.

mrs.org/gsa