

Edward C. Henry Best Paper Award

<u>Article Year</u>	<u>Recipients</u>	<u>Paper Title</u>
2018	Yanhao Dong, I-Wei Chen	"Electrical and hydrogen reduction enhances kinetics in doped zirconia and ceria: II. Mapping electrode polarization and vacancy condensation in YSZ"
2017	Jan Schultheiß, Oliver Clemens, Sergey Zhukov, Heinz von Seggern, Wataru Sakamoto, Jurij Koruza	"Effect of degree of crystallographic texture on ferro- and piezoelectric properties of Ba _{0.85} Ca _{0.15} TiO ₃ piezoceramics"
2016	Hanzheng Guo Amanda Baker Jing Guo Clive A. Randall	"Cold Sintering Process: A Novel Technique for Low-Temperature Ceramic Processing of Ferroelectrics"
2015	Neamul H. Khansur Tadej Rojac Dragan Damjanovic Christina Reinhard Kyle G. Webber Justin A. Kimpton John E. Daniels	"Electric-Field-Induced Domain Switching and Domain Texture Relaxations in Bulk Bismuth Ferrite"
2014	Adam A. Heitmann George A. Rossetti, Jr.	"Thermodynamics of Ferroelectric Solid Solutions with Morphotropic Phase Boundaries"
2013	Jean-Claude M'Peko John S.C. Francis Rishi Raj	"Impedance Spectroscopy and Dielectric Properties of Flash Versus Conventionally Sintered Ytria-Doped Zirconia Electroceramics Viewed at the Microstructural Level"

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2012	Dennis P. Shay Nikolas J. Podraza Niall J. Donnelly Clive A. Randall	"High Energy Density, High Temperature Capacitors Utilizing Mn-Doped 0.8CaTiO ₃ -0.2CaHfO ₃ Ceramics"
2011	Abhijit Pramanick Dragan Damjanovic John E. Daniels Juan C. Nino Jacob L. Jones	"Origins of Electro-Mechanical Coupling in Polycrystalline Ferroelectrics During Subcoercive Electrical Loading"
2010	Paolo Colombo Gabriela Mera Ralf Riedel Gian Domenico Sorarù	"Polymer-Derived Ceramics: 40 Years of Research and Innovation in Advanced Ceramics"
2009	Abhijit Pramanick John E. Daniels Jacob L. Jones	"Subcoercive Cyclic Electrical Loading of Lead Zirconate Titanate Ceramics II: Time-Resolved X-Ray Diffraction"
2008	Neil Kidner Nicola Perry Thomas Mason Edward Garboczi	"The Brick Layer Model Revisited: Introducing the Nano-Grain Composite Model"
2007	Not awarded in 2007	
2006	Kyung-Han Seo Joon-Hyung Lee Jeong-Joo Kim Mariana I. Bertoni Brian J. Ingram	"Synthesis and Electrical Characterization of the Polymorphic Indium Tin Oxide Nanocrystalline Powders"

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	Thomas O. Mason	
2005	Steffen Schmidt Jiwei Lu Sean Keane Lia Bregante Dmitri Klenov Susanne Stemmer	"Microstructure and Dielectric Properties of Textured SrTiO ₃ Thin Films"
2004	Jong-Sook Lee Doh-Yeon Kim Jürgen Fleig Joachim Maier	"Geometry and Electrical Properties of Grain Boundaries in Manganese Zinc Ferrite Ceramics"
2003	Roger De Souza Jürgen Fleig Joachim Maier Okiver Kienzle Zaoli Zhang Wilfried Sigle Manfred Rühle	"Electrical and structural characterization of a low-angle tilt grain boundary in iron-doped Sr TiO ₃ "
2002	Rick Ubic Ian Reaney	"Structure and Dielectric Properties of Lead Pyrochlores"
2001	Klaus Prume Rainer Waser Klaus Franken Horst R. Maier	"Finite-Element Analysis of Ceramic Multilayer Capacitors: Modeling and Electrical Impedance Spectroscopy for a Nondestructive Failure Test"
2000	Xiaoping Li Wan Y. Shih	"Electromechanical Behavior of PZT-Brass Unimorphs"

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	Ilhan A. Aksay Wei-Heng Shih	Electromechanical Behavior of ZrO_2 -Glass Composites
1999	Xiaofeng Du I-Wei Chen	"Ferroelectric Thin Films of Bismuth-Containing Layered Perovskites: Part I, $Bi_4Ti_3O_{12}$, Part II, $PbBi_2Nb_2O_9$, and Part III, $SrBi_2Nb_2O_9$ and c-Oriented $Bi_4Ti_3O_{12}$ Template"
1998	Ce-Wen Nan David R. Clarke	"Effective Properties of Ferroelectric and/or Ferromagnetic Composites: A Unified Approach and Its Application"
1997	Sutin Kuharuangrong Walter Schulze	"Characterization of $Bi_{0.5}Na_{0.5}TiO_3$ - $PbTiO_3$ Dielectric Materials"
1996	Dwight Viehland Nam Kim Z. Xu David A. Payne	"Structural Studies of Ordering in the $(Pb_{1-x}Ba_x)(Mg_{1/3}Nb_{2/3})O_3$ Crystalline Solution Series"
1995	William L. Warren Duane Dimos Bruce A. Tuttle Donald M. Smyth	"Electronic and Ionic Trapping in Domain Walls in $BaTiO_3$ "
1994	Rainer Waser T. Baiatu K. Hardtl	"DC Electrical Degradation of Perovskite-type Titanates"
1993	T. Takenaka Amar S. Bhalla L.E. Cross K. Sakata	"Dielectric Piezoelectric and Pyroelectric Properties of Lead Zirconate-lead Niobate Ceramics"

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1989	K.A. Klicker J.V. Biggers R.E. Newnham	"Composites of PZT and Epoxy for Hydrostatic Transducer Applications"
1980	H.M. O'Bryan, Jr. J. Thompson, Jr.	"Phase Equilibria in TiO ₂ -Rich Region of System BaO-TiO ₂ "
1977	T.Y. Tien H.L. Stadler E.F. Gibbons P.J. Zacmanidis	"TiO ₂ as an Air-to-fuel Ratio Sensor for Automotive Exhausts"
1974	F.G Brockman K.E. Matteson R.P. White	"Nickel-zinc Ferrites"
1971	Gene Haertling	"Grain Growth and Densification of Hot-pressed Bi Containing PLZT"
1968	W.R. Bussem L.E. Cross A.K. Goswami	"Theory of High Permittivity in Fine Grained BaTiO ₃ "