



钱宝钧纤维材料奖

QIAN BAOJUN
FIBER AWARD

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FIBER AWARD

钱宝钧纤维材料奖 QIAN BAOJUN FIBER AWARD

Prof. QIAN Baojun (1907-1996) was the founder of the research and education of fiber materials in China. He served as the president of East China Textile Institute (the predecessor of East China University), and made outstanding contributions in the field of fiber materials science. For memorizing Prof. QIAN Baojun, his students and successors around world decide to establish QIAN Baojun Fiber Award to recognize his contribution in Fiber Science and Technology. QIAN Baojun Foundation is in charge of selection of the award winners. Up to now, there are many companies in fiber and textile industry donating to QIAN Baojun Foundation for Fiber Award.

QIAN Baojun Fiber Award is conferred every two years. It includes Distinguished Achievement Award and Young Scholar Award, which will be conferred to distinguished scientists and excellent young scholars in the field of fiber-related sciences and engineering, respectively.

Distinguished Achievement Award: The winners should have been recognized distinguished professional achievement in basic or applied fiber sciences. A certificate and USD 10,000 will be awarded.

Young Scholar Award: The winners should be younger than 45, active in fiber science, and have done excellent work in the science, engineering, and technology of fibers, fiber-based materials and devices. A certificate and USD 3,000 will be awarded.

Qian Baojun (1907-1996) was born in Wuxi of Jiangsu province, China. He is one of the pioneers and founders of China's chemical fiber industry and fiber polymer science, one of the originators of China's chemical fiber professional education, and winner of the First China Engineering Science and Technology Award (Guanghua Award).

Mr. Qian graduated from the Department of Industrial Chemistry at Jinling University in the early years. In 1935, he went on to study in Britain for a "Geng Grant". In 1937, he received a master's degree in textile chemistry from the Manchester Institute of Technology. After returning to China, he engaged in fiber science research and advanced textile education. He had served as Professor of Chemical Engineering Department of Jinling University, Senior Researcher of Shanghai Institute of Public Weaving Textiles, Associate Dean and Dean of East China Textile Engineering Institute, Professor of China Textile University, and Honorary President. He had also served as a member of the 6th Shanghai People's Political Consultative Committee, member of the Third and Fifth National People's Congress, the Fourth and Fifth Central Democratic League members and so on.

At the beginning of the twentieth century, Mr. Qian initiated the research of viscose fiber made from cotton velvet in China. He had solved many technological problems for China's first 10,000-ton viscose plastic cord factory. From the 1960s, he built the specialty on chemical fiber and polymer at East China Textile Institute. Besides, he established the Chemical Fiber Research Institute and experimental base, thus making it become the earliest teaching and research base in China to cultivate high-level talents for the research and business of chemical fiber. He had studied fiber-related research areas for a long time, including chemical fiber process and its theory, fiber structure and performance, thermal mechanical analysis of fiber, macromolecular entanglement, acrylic fiber, polyacrylonitrile based carbon fiber, and gel spun high performance fiber. As a result, He had made many remarkable achievements in aforementioned fields, which had great impact both at home and abroad. He won numerous national and provincial-level scientific and technological progress awards and had repeatedly been awarded the National and Shanghai Advanced Science and Technology Workers. He had a rich academic background. He was the editorial board member of the "International Polymer Processing Journal", "International Polymer Engineering Magazine", "Polymer Journal" and "Polymer Bulletin" Editorial Committee, and consultants. He had been invited for many times to make reports at the International Chemical Fiber Conference, the International Polymer Processing Conference, the National Polymer Academic Conference, etc. He had visited many famous universities and scientific research institutions abroad to make academic reports. He is a well-known scholar both at home and abroad and deeply respected by people.

Mr. Qian was not only knowledgeable and rigorous in his study, but also tireless in teaching others and cultivating younger generation. He had pupils all over the world. He trained a group of elites for the country in the chemical fiber industry and industry. Being a model for others, he selflessly donated funds to set up "Five-Love Scholarships" (love motherland, love people, love science, love labor, and love socialism). He is also an ordinary person who loves his career and life. He had been working tirelessly till the age of ninety. The older he got, the deeper he loved. He donated his life savings to the school's Research and Teaching Award Fund.

钱宝钧（1907-1996），江苏无锡人，中国化学纤维工业和纤维高分子科学的开拓者和奠基人之一，中国化纤专业教育的创建人之一，首届中国工程科学技术奖（光华奖）获得者。

钱先生早年毕业于金陵大学工业化学系，1935年考取“庚款”留学英国，1937年获曼彻斯特理工学院纺织化学系硕士学位，回国后从事纤维科学研究和高等纺织教育事业，历任金陵大学化工系教授、上海公益纺织研究所高级研究员，华东纺织工学院副院长、院长，中国纺织大学教授、名誉校长，第六届上海市政协常委、第三、五届全国人大代表、第四、五届中国民主同盟中央委员等。

钱先生在二十世纪五十年代初开创了我国以棉绒为原料的粘胶纤维研究，曾解决我国第一家万吨级粘胶帘子线厂工艺技术上的关键难题，六十年代起他在华东纺织工学院筹建化学纤维及高分子专业，并建立了化学纤维研究所及实验工厂，使之成为我国最早的培养从事化纤研究以及从事化纤工业的层次人才的教学和科研基地。长期以来，他在化学纤维成形工艺和理论、纤维结构与性能、纤维的热机械分析、大分子缠结、腈纶纤维及腈纶基碳纤维、冻胶纺高性能纤维等科研领域上取得了许多显著的、在国内外颇有影响的重要成果，并多次获国家和省部级的科技进步奖，多次被评为全国和上海市先进科技工作者。他的学术论著丰硕，曾任“国际聚合物加工杂志”、“国际聚合物工程杂志”编委，“高分子学报”和“高分子通报”编委及顾问等，多次在国际化纤会议、国际高分子加工年会、全国高分子学术年会等作大会邀请报告，出访国外著名的大学和科研机构作学术报告，是一位蜚声中外，深受人们尊重的学者。

钱先生学识渊博而治学严谨，诲人不倦而提携后学，他的学生可谓桃李逾九洲，他为国家在化纤科技界和工业界培养造就了一批又一批英才。他为人师表而无私奉献，曾捐款设五爱（爱祖国、爱人民、爱科学、爱劳动、爱社会主义）奖学金，他也是一位平易近人热爱事业和生活的普通人，他一直不倦工作至九十高龄，老而弥笃志且益坚，将毕生积蓄捐作学校的科研教学奖励基金。

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Recipients
OF
QIAN BAOJUN
FIBER AWARD
2017

Distinguished Achievement Award (杰出贡献奖)



Pieter Jan Lemstra

Plempolco BV

Distinguished Achievement Award Conferred Reason:
For their contribution to inventing gel spun UHMWPE fiber
杰出贡献奖获奖理由：发明了凝胶纺丝超高分子量聚乙烯纤维

Distinguished Achievement Award (杰出贡献奖)



Paul Smith

Central Laboratory, DSM, Geleen

Distinguished Achievement Award Conferred Reason:
For their contribution to inventing gel spun UHMWPE fiber
杰出贡献奖获奖理由：发明了凝胶纺丝超高分子量聚乙烯纤维

Young Scholar Award (青年学者奖)



Chao Gao

Department of Polymer Science and Engineering, Zhejiang University

Young Scholar Award Conferred Reason:
For his fundamental works of graphene fiber
青年学者奖获奖理由：在石墨烯纤维方面的开创性基础研究工作

Young Scholar Award (青年学者奖)



Fabien Sorin

Institute of Materials, Ecole Polytechnique Fédérale de Lausanne

Young Scholar Award Conferred Reason:
For his excellent works of multi-material optical fibers
青年学者奖获奖理由：在多材料光纤方面的杰出成果

Recipients
OF
QIAN BAOJUN
FIBER AWARD
2019

Distinguished Achievement Award
(杰出贡献奖)

Award Winner Details (获奖人信息)



Name: Darrell H. Reneker
Date of Birth: December, 1929
Position: Distinguished Professor
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Email: reneker@uakron.edu

Biography (个人简介)

Dr. Reneker, who will turn to the age of 90 later this year, has been well recognized for his highly productive career. He received his B.S. degree from Iowa State University in 1951, and his Ph.D. degree from University of Chicago in 1959. He started his career at the Dupont Company. In 1969 he joined the National Institutes of Standards and Technology (NIST) and became manager of the Center for Materials Science. He used to serve as Executive Secretary of the Committee on Materials of the White House Science Office. He joined the faculty of The University of Akron as Professor of Polymer Science in 1989 and has position of distinguished professor for many years. Dr. Reneker has been regarded as a pioneer in the electrospinning technique, especially for the fabrication of nanofibers. His representative paper (title: Nanometre diameter fibres of polymer, produced by electrospinning. *Nanotechnology* 1996, 7, 216-223) initiated the study of electrospinning for nano fiber. This technique has been significantly impacted the fiber science/industry, as well as the progress of the broadly defined polymer science and technology. With his numerous publications and patents, and extensive fundamental research, many fiber technological developments and industrial products were discovered based on his electrospinning technology.

Distinguished Achievement Award Conferred Reason:

For his pioneering work in the electrospinning technique, especially for the fabrication of nanofibers
杰出贡献奖获奖理由: 在静电纺丝技术特别是利用该技术制备纳米纤维方面做出的开拓性工作

Young Scholar Award (青年学者奖)

Award Winner Details (获奖人信息)



Name: Huisheng Peng
Date of Birth: July, 1976
Position: Professor
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Email: penghs@fudan.edu.cn

Biography (个人简介)

Prof. Huisheng Peng received his BEng in Polymer Materials from Donghua University in China in 1999, MSc in Polymer Science from Fudan University in China in 2003 and PhD in Chemical Engineering from Tulane University in USA in 2006. He worked at Los Alamos National Laboratory, US Department of Energy, from 2006 to 2008. He has been appointed as a Professor at the Department of Macromolecular Science and Laboratory of Advanced Materials at Fudan University since 2008 and become a Changjiang Chair Professor since 2014. He starts and centers on the new direction of fiber electronics. He and co-workers have invented a new family of fiber-shaped energy harvesting devices including perovskite solar cells and fluidic generators, fiber-shaped energy storage devices including lithium-ion batteries, lithium-sulfur batteries and metal-air batteries, fiber-shaped light-emitting devices and fiber-shaped sensors. Professor Peng has published over 240 peer-reviewed papers and 4 books. He obtains 70 issued patents with 41 royally transferred to the industry for commercialization.

Young Scholar Award Conferred Reason:

For his fundamental works of fiber-shaped energy harvesting devices

青年学者奖获奖理由：在纤维状能源捕获器件领域做出的奠基性工作

Young Scholar Award (青年学者奖)

Award Winner Details (获奖人信息)



Name: Il-Doo Kim
Date of Birth: September, 1974
Position: Professor
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Biography (个人简介)

Il-Doo Kim is Professor of Department of Materials Science and Engineering and Head of the Advanced Nanomaterials and Energy Laboratory at the Korea Advanced Institute of Science and Technology (KAIST), and the Director of Advanced Nanosensor Research (ANR) Center for KAIST Institute. Prof. Kim currently serves as an Associate Editor of the ACS Nano. He is a member of Young Korea Academy Science and Technology (YKAST). He obtained his Ph.D. at KAIST in 2002 in the field of dielectric & ferroelectric thin films and experienced the postdoctoral research at Massachusetts Institute of Technology (MIT) with Prof. Harry L. Tuller. He returned to Korea Institute of Science and Technology (KIST) as a senior research scientist. In Feb. 2011, Prof. Kim joined the Department of Materials Science & Engineering of KAIST as an assistant professor, and he has been promoted to an associate professor and full professor in 2013 and 2018, respectively. He was a visiting scholar in Prof. Reginald M. Penner's group at the Department of Chemistry at UC Irvine in 2017. Prof. Il-Doo Kim's research group is focused on novel synthesis of various inorganic nanomaterials optimized for application in ultra-sensitive chemical sensors and high performance storage devices. His research works aim at developing new synthetic methods that rely on a modified electrospinning method to produce unique nano-building blocks such as highly porous nanofibers and open tubular structures. In addition, we rationally design multi-dimensional catalyst-functionalized nanofibers, i.e., oxide, nitride, and sulfide materials, as cost-effective and highly efficient nano-catalysts. Up to date, Prof. Kim has published over 274 articles, 5 book chapters, and holds 208 international patents. Moreover, a number of patents related to nanofiber synthesis and applications have been successfully licensed to 8 companies.

Young Scholar Award Conferred Reason:

For his excellent works of multi-component ceramic nanofibers

青年学者奖获奖理由：在多组分无机陶瓷纳米纤维领域做出的卓越研究工作

Recipients
OF
QIAN BAOJUN
FIBER AWARD
2021

Distinguished Achievement Award (杰出贡献奖)

Award Winner Details (获奖人信息)



Name: Richard B. Kaner
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Position: Distinguished Professor
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Biography (个人简介)

Prof. Richard Kaner received a Ph.D. from the University of Pennsylvania in 1984 working with Prof. Alan MacDiarmid (Nobel Laureate 2000, deceased). After postdoctoral research at Berkeley, he joined the University of California, Los Angeles (UCLA) in 1987, earned tenure in 1991, became a full professor in 1993, a Distinguished Professor in 2012 and was appointed to the Dr. Myung Ki Hong Endowed Chair in Materials Innovation in 2017. He has published over 440 papers in top peer reviewed journals and holds 60 U.S. patents. According to the most recent Clarivate Analytics/Thomson-Reuters rankings, he is among the world's most highly cited authors. Professor Kaner has received awards from the Dreyfus, Fulbright, Guggenheim, Packard and Sloan Foundations along with the Materials Research Society Medal, the Royal Society of Chemistry Centenary Prize, the Chemical Pioneer Award from the American Institute of Chemistry and the American Chemical Society's Buck-Whitney Research Award, Tolman Medal, Award in the Chemistry of Materials and the Award in Applied Polymer Science for his work on refractory materials including new synthetic routes to ceramics, intercalation compounds, superhard metals, graphene and conducting polymers. He has been elected a Fellow of the American Association for the Advancement of Science (AAAS), the American Chemical Society (ACS), the American Physical Society (APS), the European Academy of Sciences (EurASc), the Materials Research Society (MRS) and the Royal Society of Chemistry (FRSC).

Distinguished Achievement Award Conferred Reason:

For his pioneering work of conducting polymer nanofibers
杰出贡献奖获奖理由: 在导电聚合物纳米纤维领域的开拓性工作

Young Scholar Award (青年学者奖)

Award Winner Details (获奖人信息)



Name: Yan Lu
Date of Birth: September, 1976
Position: Professor
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Biography (个人简介)

Prof. Yan Lu studied Polymer Materials at China Textile University and received her BSc. in 1998. She received MSc. in Material Science at Donghua University (China) in 2001. In 2005, she received her PhD with Summa Cum Laude in macromolecular chemistry at Dresden University of Technology, Germany. After that, she worked first as postdoc then research scientist in Physical Chemistry at University of Bayreuth. Since 2009, she joined Helmholtz-Zentrum Berlin für Materialien und Energie (HZB) as a group leader in Colloid Chemistry. She received "Dr. Hermann-Schnell-Stipendium" by the German Chemical Society (GDCh) in 2011. She was selected as top female researchers (W2/W3-Programme) in Helmholtz Association in 2015. Since 2017, she has been a professor in Institute of Chemistry at University of Potsdam. She has been also selected as member of Integrative Research Institute for the Sciences (IRIS) Adlershof of the Humboldt-Universität zu Berlin in 2017. Since 2019, she is the head of Department for Electrochemical Energy Storage at HZB. She and her co-workers have invented functional organic/inorganic hybrid materials based on polymeric colloidal particles with versatile applications, such as catalysts, energy storage materials (including Li-S batteries, supercapacitors, aqueous Li-ion batteries, etc.) and optical devices. Professor Lu has published over 140 peer-reviewed papers and 3 book chapters with citation number of over 11400. With the help of colloidal material chemistry theory, she used organic/inorganic hybrid strategies to focus on solving the challenges of flexible fiber-based batteries and high-performance all-solid-state batteries.

Young Scholar Award Conferred Reason:

For her excellent work of organic/inorganic hybrid fibers
 青年学者奖获奖理由: 在有机 / 无机杂化纤维领域的出色工作

Young Scholar Award (青年学者奖)

Award Winner Details (获奖人信息)



Name: Yaopeng Zhang
Date of Birth: July, 1977
Position: Professor
Organization: State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, College of Materials Science and Engineering, Donghua University
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Biography (个人简介)

Prof. Yaopeng Zhang received his Ph.D in Materials Science from Donghua University (DHU) in 2002. From 2004 to 2007 he was a postdoctoral research fellow at the Kawamura Institute of Chemical Research, Japan. He served as a visiting scholar at Akita University in 2010 and at Stony Brook University in 2016, respectively. He has been appointed as a Professor at the College of Materials Science and Engineering (CMSE) at DHU Since 2012. He had been the deputy director of the State Key Laboratory for Modification of Chemical Fibers and Polymer Materials, the vice dean of CMSE, DHU. Since 2018, he is the head of Textile Industry Key Laboratory for Cellulose fibers. His research focus is on silk materials for biomedical and bioelectronic applications. He exfoliated single molecular layer silk nanoribbons from silk and invented a feeding strategy to modify silk, resulting in the large-scale fabrication of functional silk. He has been Textile Academic Research Leader, Shanghai Academic Research Leader, Dawn Scholar and Shanghai Rising-Star Scholar. He has received 4 second prizes from Central Military Sci. & Tech. Committee, Ministry of Education, China, Shanghai Municipal Government, etc., one first prize of Shanghai Medical Science and Technology Award, and 2 awards from Hong Kong Sengma Foundation. Professor Zhang has published over 100 peer-reviewed papers and 2 book chapters. He obtains 43 issued patents with 10 transferred or licensed to industry for commercialization.

Young Scholar Award Conferred Reason:

For his excellent work of silk fibers
 青年学者奖获奖理由: 在蚕丝领域的出色工作

Recipients
OF
QIAN BAOJUN
FIBER AWARD
2023

Distinguished Achievement Award
(杰出贡献奖)

Award Winner Details (获奖人信息)



Name: Stephen, Z. D. Cheng
Date of Birth: August 3, 1949
Position: Professor
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Biography (个人简介)

Prof. Stephen Z. D. Cheng received his Ph.D. degree at Rensselaer Polytechnic Institute at Troy, New York, in 1985. His research interests are in the area of chemistry, physics, and engineering of polymers and advanced functional materials including ordered structure, morphology, phase transition thermodynamics, kinetics, and molecular motions. His recent interests in particular are focusing on nanohybrid materials with different molecular chemical structures and physical topologies, architectures, and interactions and their assemblies in the bulk, solution, and thin films. He is also active in developing researches of high-performance polymer fibers, conducting polymers, photovoltaics, polymer optics, and photonics. He is the recipient of Presidential Young Investigator Award (1991), John H. Dillon Medal (APS, 1995), Mettler-Toledo Award (NATAS, 1999), TA-Instrument Award (ICTAC, 2004), PMSE Cooperative Research Award (ACS, 2005), Polymer Physics Prize (APS, 2013), International Cooperation Awards of Shanghai (2015), and other awards and recognitions. Cheng has been a Fellow of AAAS and APS and an Honorable Fellow of Chinese Chemical Society. He has been elected as a member of the National Academic of Engineering of US (2008).

Distinguished Achievement Award Conferred Reason:

For his insightful use of the theory of metastability to understand structure and dynamics of high-performance polymer fibers

杰出贡献奖获奖理由: 具有洞察力地运用高分子亚稳态理论研究理解高性能聚合物纤维结构与动力学

Young Scholar Award (青年学者奖)

Award Winner Details (获奖人信息)



Name: Christian Müller
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Position: Professor
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Biography (个人简介)

Christian Müller is a Professor in Polymer Science at Chalmers University of Technology. He received an ERC Starting Grant in 2014 became a SSF Future Research Leader in 2016. He has been a Wallenberg Fellow and since 2021 he is a Wallenberg Scholar. Prior to Chalmers, where he works since 2012, he completed post-doctoral stays at ICMAB-CSIC in Barcelona and Linköping University. He holds a Dr. Sc. in Materials Science from ETH Zürich (2008) and a M.Sci. in Natural Sciences from Cambridge University (2004). Christian Müller is a materials scientist. His core expertise lies in combining classical polymer science with organic electronics. His group focuses on the physical chemistry of organic semiconductors, polymer blends and composites, and develops new plastic materials for use in the fields of wearable electronics and energy technology ranging from solar cells and thermoelectrics to power cables.

Young Scholar Award Conferred Reason:

For his development of new polymeric materials for use in the fields of wearable electronics and energy technology

青年学者奖获奖理由: 开发新型聚合物材料用于可穿戴电子和能源技术领域

Young Scholar Award (青年学者奖)

Award Winner Details (获奖人信息)



Name: Shuguang Yang
Date of Birth: Jul. 6, 1979
Position: Professor
Organization: Donghua University
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Telephone: 86-18801730295
Email: shgyang@dhu.edu.cn

Biography (个人简介)

Prof. Shuguang Yang received his BS in 2002 at Wuhan University and his PhD in 2007 at Institute of Chemistry, Chinese Academy of Sciences. After research assistant at Peking University and postdoc at The University of Akron, he joined Donghua University (DHU) and was appointed as a full professor of College of Materials Science and Engineering in 2010. He has serviced as Associate Director of Center for Advanced Low-dimension Materials (CALM) since 2016. His research interests involve polymer complexes, fluoropolymers, adaptive fibers, and separation membrane, and he published 140 peer-reviewed research papers and obtained 14 patents. He is the recipient of CAS President Excellent Award (2007), Sangma Faculty Awards (2018), and CCS Polymer Innovation Paper Award (2019).

Young Scholar Award Conferred Reason:

For his new exploration to use polymer complexes to produce multifunctional and adaptive fiber materials

青年学者奖获奖理由: 利用高分子复合物制备多功能和自适应性纤维的前沿新探索

Distinguished Achievement Finalist

(杰出贡献提名奖)

Award Winner Details (获奖人信息)



Name: Seeram Ramakrishna
Date of Birth: Jun. 15, 1964
Position: Professor
Organization: National University of Singapore
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Biography (个人简介)

Professor Seeram Ramakrishna, FREng, Everest Chair is a world leading Highly Ranked Scholar-Lifetime in 'electrospinning' and 'nanofibers' at the National University of Singapore, which is ranked among the top eight universities in the world. He is named among the World's Most Influential Minds (Thomson Reuters); Top 1% Highly Cited Researchers in material science as well as cross-field categories (Clarivate Analytics); and among the top 25 scientists in Nanoscience & Nanotechnology (Ioannidis | Stanford University c-score). His publications to date have an H-index of 185 and 168,523 citations. He is an elected Fellow of UK Royal Academy of Engineering (FREng); AAAS; ASM International; ASME; and AIMBE, USA. He is an Editorial board member of several journals including NPJ Urban Sustainability; Circular Economy; Materials Circular Economy; Current Opinion in Biomedical Engineering; eScience; and Advanced Fiber Materials.

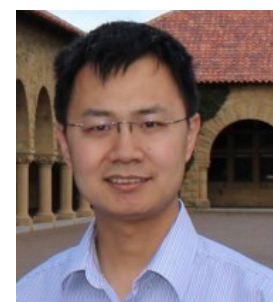
Distinguished Achievement Nominee Award Conferred Reason:

For his outstanding contributions to developing electrospinning technique
杰出贡献提名奖获奖理由: 在发展静电纺丝技术中做出杰出贡献

Young Scholar Finalist

(青年学者提名奖)

Award Winner Details (获奖人信息)



Name: Hui Wu
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Position: Professor
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Biography (个人简介)

Hui Wu is a tenured professor at the School of Materials Science and Engineering, Tsinghua University. He obtained his Ph.D. degree in the Department of Materials Science and Engineering at Tsinghua University in 2009 and joined in Stanford University as a postdoctoral fellow. After that, he worked as a PI in Tsinghua University since 2013. Prof. Wu's research focuses on developing new methods for mass production of ceramic nanofiber materials, and further extending their functions and applications. Dr. Wu has authored/co-authored more than 200 scientific papers in peer refereed journals, and these papers have been cited for more than 40,000 times. In recent 5 years, he published more than 80 high-quality papers as corresponding author in high impact journals, including Nature Energy, Science Advances, Nature Communications and Advanced Materials. Dr. Wu was awarded the National Science Fund for Distinguished Young Scholars, Project of Thousand Youth Talents and the Chief Scientist of 973 Program Youth Project, MIT Technology Review 35 Innovators Under 35 (TR35 award). He won the 10 Outstanding Young Scientist Awards (Ministry of Education) in the year of 2019.

Young Scholar Award Conferred Reason:

For his excellent work in industrial-scale production of ceramic fibers
青年学者提名奖获奖理由: 在陶瓷纤维工业规模生产中做出重要贡献

