

Kwok Siong, Teh, PhD.

Director, School of Engineering

Professor, Mechanical Engineering Program

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Teaching Evaluation: <http://www.ratemyprofessors.com/ShowRatings.jsp?tid=950658>

1. EDUCATION

Ph.D. (Mechanical Engineering)	University of California, Berkeley	2004
M.S. (Mechanical Engineering)	University of Michigan, Ann Arbor	2001
B.S. (Mechanical Engineering, <i>Highest Honors</i>)	University of Illinois, Urbana Champaign	1997

2. RESEARCH INTERESTS

- Engineering design and design pedagogy focused on maker space-centered, project-based learning
- Composite/nanocomposite materials for smart structures and energy applications

3. AWARDS and HONORS

- Best Diversity Paper Award, ASEE Pacific Southwest (PSW) Conference, Boulder, 2018
- [Excellence in Teaching and Professional Achievement Award](#), SFSU, 2017
- Best Paper Award (Two-Year College Div.), ASEE Annual Conference and Exposition, 2017
- Best Paper Award (Minorities in Engr. Div.), ASEE Annual Conference and Exposition, 2015
- Best Diversity Paper Award, ASEE Pacific Southwest (PSW) Conference, San Diego, 2015
- National Science Foundation Travel Award, ICYRAM conference, Singapore, 2012
- Best Paper Award Finalist, IEEE-NEMS Conference, 2009
- American Chemical Society (ACS) Summer Research Fellowship, 2007
- Eastman Kodak Graduate Fellowship, 2001-2004
- Ford Foundation Fellowship, 1997-1998
- Procter and Gamble Scholarship, 1997

4. PROFESSIONAL EXPERIENCES

2006 – Present: School of Engineering, San Francisco State University (SFSU), San Francisco, California.

Director (8/2018 - now), *Associate Director* (2015-2018)

Professor (2017-Present), *Associate Professor* (2012-2017), *Assistant Professor* (2006-2012)

Faculty Director: (i) [Rapid Prototyping Lab](#), (ii) *Advanced Materials Research Lab*

Teaching Experiences

- Teach courses in the [design and materials curriculum](#), including engineering mechanics, dynamics, materials engineering, manufacturing, composite materials design, mechanical components design, and capstone senior design projects, to ~160 undergraduate students per semester
- Faculty Director of the [Rapid Prototyping Laboratory](#) (RPL), an engineering design teaching/research laboratory and makerspace that houses modern prototyping equipment including: Ultimaker & Creality 3D printers, OMC desktop mill, 130W, 60W & 40W laser cutters/engravers, Haas CNC Minimill, microcontrollers stations, computers with software for 3D modeling (SolidWorks, Fusion 360, CATIA V5)

Research Experiences

- Faculty director of the Advanced Materials Research Laboratory (AMRL) dedicated to research in the synthesis of composite/nanocomposite for smart structures and energy storage, using (1) Near-field electrospinning synthesis of mesoscale polymer and polymer composites, (2) Laser-assisted direct-write of polymer/metal organic framework macroporous composites, and (3) Direct-write 3D printing of carbon fiber-/particle-reinforced composites & nanocomposites

Administrative Experiences

- Manages the operations and academic affairs of the School of Engineering, which houses *four* engineering programs: civil, computer, electrical, and mechanical engineering programs.
- Oversees strategic planning, budget/HR management, curriculum planning/scheduling, student affairs (domestic and international students), faculty affairs (hiring, retention, tenure, promotion processes), ABET accreditation of all Engineering programs, outreach to industries, donor/alumni relationship and fundraising, and currently, new Engineering building construction.
- Elected member of the University Academic Senate and Engineering Advisory Board.

2014 – 2016: Department of Mechanical Engineering, University of California at Berkeley, California.
Visiting Scholar and Graduate Student Mentor, Professor Liwei Lin's Group

- Initiated and advised research projects related to energy storage:
 - IR laser-assisted synthesis of microporous and mesoporous (i) graphene, and (ii) polymer/MOF electrode on flexible substrates for energy storage application
 - Near-field electrospinning of 3D polymer and polymer-carbon nanotube nanocomposite mesoscale structures for supercapacitor application
 - Processing of nanocomposites of vertically aligned carbon nanotubes-conducting polymer nanocomposites for hybrid supercapacitor electrode
 - Fabrication of 2D polymer/metal organic framework (MOF) composites for gas sensor and filtration (funded by the Molecular Foundry)
- Have been involved in co-mentoring 5x PhD students and 1x postdoc in this group

2004 – 2006: Booz Allen Hamilton Inc., San Francisco, California.*Lead Associate, Operations/Supply Chain Management Strategy*

- Assisted Fortune 500 pharmaceutical, healthcare, and telecommunication firms in diagnosing their supply chain and operations challenges, and devising strategies to strengthen these operations
- Guided a specialty drug manufacturer in developing alternative distribution channel strategies and deciding on a direct-to-retailer model for 10 retailers that saved \$8M annually without upfront cost
- Advised a telecommunication client in streamlining its supply chain by reducing its warehouses from 6 to 2 and consolidating services, to realize a savings of \$11M annually
- Led a *pro bono* supply chain and governance structure redesign effort for a US-based global humanitarian relief agency for its Indonesian operation post-Indian Ocean Tsunami of 2004
- Advised a top US drug wholesalers on the consolidation of its shared services among its many business units and the establishment of a governance structure for its share services
- Served as firm's recruiter for top MBA candidates, conducted first-round case interviews with potential recruits, and recommended candidates for second-round interviews

2001 (Summer): IBM T. J. Watson Research Center, Yorktown Heights, New York.*Pre-Professional Engineer, Exploratory Packaging Group*

- Investigated potential materials suitable for use as through-via interconnect materials in high-density and low-power system-on-chip (SoC), a major development aimed at replacing the central processing units (CPU) for use in mobile devices.

- Developed and optimized CMOS- and silicon-compatible, low-coefficient of thermal expansion (CTE) nanocomposites that eliminated delamination and fracture during elevated temperature operations.

1999-2000: SembCorp Marine Ltd, Singapore

Project Engineer (Offshore Engineering), Jurong Shipyard Pte Ltd

- Developed proposals and business cases during tender process for new oil rigs construction.
- In-charged of contractor selection, materials supplier selection/price negotiation, materials logistics planning, and build quality assurance for new oil rigs construction.

Mechanical Engineer (Piping), Sembawang Shipyard Pte Ltd

- Designed and led construction of crude oil process piping system on offshore platform, FPSO Kuito—built in a record-breaking 9-month period. In-charged of a successful ISO 9001 quality audit.
- Oversaw replacement and refurbishment of mechanical equipment for ship repair operations.

5. AWARDED RESEARCH GRANTS

- **National Science Foundation (NSF) Major Research Instrumentation Grant** (CMMI-1626611, \$ 472,818.00), *MRI: Acquisition of an Atomic Force Microscope to Enhance Research and Student Research Training in Engineering, Biochemistry, Biology and Physics departments at SF State University*, 2016-2019. (Role: Co-PI)
- **Department of Education (DOE) Minority Science and Engineering Improvement Program (MSEIP) Grant** (#P120A150014, \$900,000), *Accelerated STEM Pathways through Internships, Research, Engagement, and Support (ASPIRES)*, 2015-2018. (Role: Co-PI)
- **Molecular Foundry Standard Grant** (#3983, access to equipment in the Inorganic Nanostructures Facility), *Assemble facet Metal Organic Framework crystal in direct write, self-aligned polymer membrane by near field electrospinning*, 2015-2016. (Role: Co-PI)
- **National Science Foundation (NSF) Major Research Instrumentation Grant** (ECCS 1530978, \$268,577.00), *MRI: Acquisition of a Microwave Vector Network Analyzer to Enhance Research and Student Research Training in Engineering and Physics at SFSU*, 2015-2018. (Role: Co-PI)
- **National Science Foundation (NSF) Major Research Instrumentation Grant** (ECCS 1040444, \$262,634.00), *MRI: Acquisition of a Temperature-controlled Probe Station and Semiconductor Parameter Analyzer to Enhance Research and Research Training in Engineering and Physics at SFSU*, 2010-2013. (Role: Co-PI)
- **National Science Foundation (NSF) Fellowship** (\$3,000), *Principles of and Advances in Laser Micro/Nano Manufacturing Processes*, 2010. (Role: PI)
- **American Chemical Society (ACS) Petroleum Research Fund (PRF) Undergraduate New Investigator (UNI) Grant** (US\$ 50,000), *Nanostructured ZnO Energy Generator: Influence of Dimensional and Mechanical Properties*, 2009-2011. (Role: PI)
- **California State University Program in Education and Research in Biotechnology (CSUPERB) Grant** (US\$ 15,000), *Directed Migration of Cells through the Influence of Metal Oxide Nanowires on Lamellipodia, Filopodia, and Focal Adhesions*, 2009-2010. (Role: PI)
- **National Science Foundation (NSF) Major Research Instrumentation (MRI) Grant** (US\$ 783,210, CHE 0821619), *Acquisition of a FE-SEM to Enhance Research and Student Training in Biology, Chemistry, Geosciences, Physics, and Engineering at San Francisco State University*, 2008-2011. (Role: Co-PI)
- **National Science Foundation (NSF) Electronics, Photonics & Device Technologies (EPDT) Grant** (US\$ 239,999, ECCS 0802100), *An Anti-Fouling Smart Surface with Controllable Nanostructures for IC-Cooling and MEMS Applications*, 2008-2011. (Role: PI of \$50,000 sub-award)

- **American Chemical Society (ACS) Petroleum Research Fund (PRF) Summer Research Fellowship** (US\$ 8,000), *Drag Reduction in Petroleum Pipelines by Nano Ultra-Oleophobic (NUO) Surfaces*, 2007. (Role: PI)

6. TEACHING EXPERIENCES

Dr. Teh is the recipient of the inaugural College of Science and Engineering's [*Excellence in Teaching and Professional Achievement Award*](#) in 2017. He is a passionate and respected educator, and his official teaching scores have been consistently ranked within the top 5% among the faculty at SFSU. His average teaching evaluation scores for all classes is ~1.19 (1 being best, 5 being worst) vs the School of Engineering faculty average of 1.80. (Note: official teaching evaluations available upon request)

Dr. Teh has been in-charge of the following courses at SFSU:

- Engr 100: Introduction to Engineering
- Engr 200: Materials of Engineering
- Engr 201: Dynamics
- Engr 204: Engineering Mechanics
- Engr 292: SolidWorks
- Engr 364: Materials and Manufacturing Process
- Engr 464: Mechanical Design
- Engr 441: Fundamentals of Composite Materials
- Engr 690: Introduction to Micro and Nano Engineering
- Engr 696: Engineering Design Project I (Capstone Senior Design Project I)
- Engr 697: Engineering Design Project II (Capstone Senior Design Project II)
- Engr 699: Independent Research Projects (topics in Materials and Design)

7. PUBLICATIONS & PRESENTATIONS

*Denotes undergraduate student co-author, **Denotes graduate student co-author at the time of publication.

#Denotes corresponding author

Journal Articles (Peer-Reviewed)

- **X. Mei, L. Lu, Y. Xie, W. Wang, Y. Tang, **K. S. Teh** (2019) "An ultra-thin carbon-fabric/graphene/poly (vinylidene fluoride) film for enhanced electromagnetic interference shielding", *Nanoscale*. DOI: 10.1039/C9NR03603B.
- G. Luo, **K. S. Teh**, **Y. Xia, **Y. Luo, Z. Li, S. Wang, L. Zhao, Z. Jiang (2019) "A novel three-dimensional spiral CoNi LDHs on Au@ ErGO wire for high performance fiber supercapacitor electrodes", *Materials Letters*. DOI: 10.1016/j.matlet.2018.11.038.
- L. Dong, **P. Zheng, **Y. Yang, **M. Zhang, Z. Xue, Z. Wang, G. Liu, P. Li, **K. S. Teh**, Y. Su, B. Cai (2018) "NO₂ gas sensor based on graphene decorated with Ge quantum dots", *Nanotechnology*. DOI: 10.1088/1361-6528/aaf3d7.
- G. Luo, **K. S. Teh**, **Y. Xia, Z. Li, **Y. Luo, L. Zhao, Z. Jiang (2018) "Construction of NiCo₂O₄@NiFe LDHs core/shell nanowires array on carbon cloth for flexible, high-performance pseudocapacitor electrodes", *Journal of Alloys and Compounds*. DOI: 10.1016/j.jallcom.2018.07.188
- **X. Li, W. Cai, **K. S. Teh**, M. Qi, X. Zang, X. Ding, Y. Cui, Y. Xie, Y. Wu, H. Ma, Z. Zhou, Q-A. Huang, J. Ye, L. Lin (2018) "High-Voltage Flexible Microsupercapacitors based on Laser-induced Graphene", *ACS Applied Materials & Interfaces*. DOI: 10.1021/acsami.8b10301.
- **W. Tang, L. Lu, **D. Xing, **H. Fang, Q. Liu, **K. S. Teh** (2018) "A carbon-fabric/polycarbonate sandwiched film with high tensile and EMI shielding comprehensive properties: An experimental study." *Composites Part B: Engineering*. DOI: 10.1016/j.compositesb.2018.06.026.

- **X. Fang, L Dong, W. S. Zhao, H. Yan, **K. S. Teh**, G. Wang (2018) “Vibration-Induced Errors in MEMS Tuning Fork Gyroscopes with Imbalance.”, *Sensors*. DOI: 10.3390/s18061755.
- **D. Xing, L. Lu, **K. S. Teh**, Z. Wan, Y. Xie, Y. Tang (2018) “Highly flexible and ultra-thin Ni-plated carbon-fabric/polycarbonate film for enhanced electromagnetic interference shielding.”, *Carbon*. DOI: 10.1016/j.carbon.2018.02.001.
- **X. Zang, **C. Shen, **E. Kao, R. Warren, R. Zhang, **K. S. Teh**, J. Zhong, M. Wei, *B. Li, **Y. Chu, M. Sanghadasa, A. Schartzberg, and L. Lin (2018) “Titanium Disulfide Coated Carbon Nanotube Hybrid Electrodes Enable High Energy Density Symmetric Pseudocapacitors”, *Advanced Materials*, DOI: 10.1002/adma.201704754.
- **K. S. Teh** (2017) “Additive Direct-Write Microfabrication for MEMS: A Review”, *Frontiers of Mechanical Engineering (Springer)*. DOI: 10.1007/s11465-017-0484-4.
- D. Wu, **L. Deng, **X. Mei, **K. S. Teh**, **W. Cai, Q. Tan, Y. Zhao, L. Wang, L. Zhao, G. Luo, and D. Sun (2017) “Direct-write Graphene Resistors on Aromatic Polyimide for Transparent Heating Glass”, *Sensors and Actuators A: Physical*. DOI: 10.1016/j.sna.2017.10.039
- D. Wu, **Y. Sun, **K. S. Teh**, **Y. Zhu, **Y. Luo, **L. Deng, L. Zhao, G. Luo, Y. Zhao, L. Wang, and D. Sun (2017) “Investigation of Electrohydrodynamic Behaviors from Open Planar Solution under Rod-Induced Electrospinning”, *Journal of Physics D: Applied Physics*. DOI: 10.1088/1361-6463/aa8ddb.
- D. Wu, **L. Deng, **Y. Sun, **K. S. Teh**, C. Shi, Q. Tan, J. Zhao, D. Sun, and L. Lin (2017) “A High-Safety PVDF/ Al₂O₃ Composite Separator for Li-ion Battery”, *RSC Advances*. DOI: 10.1039/c7ra02681a.
- X. He, **K. S. Teh**, S. Li, L. Dong, and S. Jiang (2017) “Modeling and Experimental Verification of an Impact-Based Piezoelectric Vibration Energy Harvester with a Rolling Proof Mass”, *Sensors and Actuators A: Physical*. DOI: 10.1016/j.sna.2017.03.034.
- L. Lu, **L. Liang, **K. S. Teh**, **Y. Xie, **Z. Wan, and Y. Tang (2017) “Electrochemical Behavior of Carbon Fiber Microelectrodes Modified with Carbon Nanotubes Using a Two-Step Electroless Plating/Chemical Vapor Deposition Process”, *Sensors*. DOI:10.3390/s17040725
- L. Lu, **D. Xing, **K. S. Teh**, **H. Liu, **Y. Xie, **X. Liu, and Y. Tang (2017) “Structural Effects in a Composite Nonwoven Fabric on EMI Shielding”, *Materials and Design (Elsevier)*. DOI: 10.1016/j.matdes.2017.02.025.
- **X. Zang, J. Chang, Q. Zhou, **K. S. Teh**, A. Zettl, and L. Lin (2017) “Synthesis of Single Layer Graphene on Nickel Using a Droplet CVD Process”, *Advanced Materials Interfaces (Wiley)*. DOI: 10.1002/admi.201600783.
- **B. Zhang, L. Lu, **K. S. Teh**, **H. Wang, Z. Wan, Y. Tang (2016) “An IR Thermal Imaging Method to Investigate Spreading Process of Ethanol Solution Droplets on Carbon Fiber Mats”, *Applied Physics A (Springer)*. DOI: 10.1007/s00339-016-0560-3.
- L. Lu, **D. Xing, **Y. Xie, **K. S. Teh**, **B. Zhang, S. Chen, and Y. Tang (2016) “Electrical Conductivity Investigation of a Nonwoven Fabric Composed of Carbon Fibers and Polypropylene/Polyethylene Core/Sheath Bicomponent Fibers”, *Materials and Design*. DOI: 10.1016/j.matdes.2016.09.096.
- D. Wu, **Z. Xiao, **K. S. Teh**, **Z. Han, **G. Luo, C. Shi, D. Sun, J. Zhao, and L. Lin (2016) “High-throughput Rod-induced Electrospinning”, *Journal of Physics D: Applied Physics*. DOI: 10.1088/0022-3727/49/36/365302.
- **G. Luo, **K. S. Teh**, **Y. Liu, **X. Zang, Z. Wen, and L. Lin (2015) “Direct-Write, Self-Aligned Electrospinning on Paper for Controllable Fabrication of Three-Dimensional Structures”, *ACS Applied Materials & Interfaces*. DOI: 10.1021/acsami.5b08909.
- **R. Warren, F. Sammoura, **K. S. Teh**, **A. Kozinda, **X. Zang, and L. Lin (2015) “Electrochemically Synthesized and Vertically Aligned Carbon Nanotube-Polypyrrole Nanolayers for High Energy Storage Devices”, *Sensors and Actuators A: Physical*, Vol. 231, pp. 65-73. DOI:10.1016/j.sna.2014.07.010

- *J. Pedersen, *H. Esposito, and #**K. S. Teh** (2011) “Direct Synthesis and Characterization of Conformal Transparent Zinc Oxide Nanocrystalline Thin Films by Rapid Thermal Plasma CVD”, *Nanoscale Research Letters*, v 6, pp. 568-579. DOI: 10.1186/1556-276X-6-568.
- #**K. S. Teh**, **Y. Takahashi, **Z. Yao, and Y. W. Lu (2009) “Influence of Redox-Induced Restructuring of Polypyrrole on its Surface Morphology and Wettability”, *Sensors and Actuators A: Physical*, v 155, issue 1, pp. 113-119. DOI: 10.1016/j.sna.2009.07.006.
- #**K. S. Teh**, Y. T. Cheng and L. Lin (2005) “MEMS Fabrication Based on Nickel-Nanocomposite: Film Deposition and Characterization”, *Journal of Micromechanics and Microengineering*, v 15, pp. 2205-2215. DOI: 10.1088/0960-1317/15/12/001.
- **K. S. Teh** and L. Lin (2005) “MEMS Sensor Material Based on Polypyrrole-Carbon Nanotube Nanocomposite: Film Deposition and Characterization”, *Journal of Micromechanics and Microengineering*, v 15, pp. 2019-2027. DOI: 10.1088/0960-1317/15/11/005.
- **K. S. Teh** and L. Lin (1999) “Time-dependent Buckling Phenomena of Polysilicon Microbeams”, *Microelectronics Journal*, v 30, No. 11, pp.1169-1172. DOI: 10.1016/s0026-2692(99)00081-6.

Conference Proceedings (Peer-Reviewed)

- *V. Delaplaine, *R. Colin, *P. Leung, *D. Ceron, **A. David, A. G. Enriquez, W. Pong, Z. Jiang, C. Chen, **K. S. Teh**, H. Mahmoodi, H. Jiang, and X. Zhang, “Introducing Emerging Computer Engineering Research to Community College Students through a Summer Internship Project on Development of a Mobile Gesture Recognition System,” In *Proceedings of 2019 ASEE Annual Conference and Exposition*, Tampa, FL, June 16-19, 2019.
- *M. Gee, *A. A. Lal, *A. Hercules, **T. Sheaves, A. G. Enriquez, C. Chen, H. Jiang, Z. Jiang, W. Pong, H. Shahnasser, **K. S. Teh**, and X. Zhang, “Research Experience for Community College Students: Design and Optimization of Non-Volatile Latch using Anti-Fuse Memory Technology,” In *Proceedings of 2019 ASEE Annual Conference and Exposition*, Tampa, FL, June 16-19, 2019.
- *A. Bituin, *K. Kyain, *Y. Ordonez, **A. Maxwell, **W. L. Tang, A. G. Enriquez, N. Langhoff, W. Pong, C. Chen, **K. S. Teh**, X. Zhang, H. Mahmoodi, H. Jiang, and Z. Jiang, “Engaging Community College Students in Cutting-Edge Research in Topology Optimization,” In *Proceedings of 2019 ASEE Annual Conference and Exposition*, Tampa, FL, June 16-19, 2019.
- *V. Miftakhov, *C. D. Prato, *S. Tornoe, *K. Lim, **A. Attaran, A. Enriquez, C. Chen, H. Jiang, Z. Jiang, W. Pong, H. Shahnasser, **K. S. Teh**, X. Zhang, and H. Mahmoodi, “Research Experience for Community College Students: Design and Optimization of Nan-Volatile Latch using Resistive Memory Technology,” In *Proc. of the American Society for Engineering Education 2018 Pacific Southwest Conference (ASEE/PSW-2018)*, Boulder, CO, March 25-27, 2018.
- *C. Amaro, *P. Silva, *A. Davies, *J. Marin, *J. Caballero, A. Enriquez, **J. Liang, C. Chen, W. Pong, H. Shahnasser, Z. Jiang, H. Mahmoodi, H. Jiang, **K. S. Teh** and X. Zhang, "Integrating Structural Engineering Research into Internship Experiences for Community College Students," In *Proc. of the American Society for Engineering Education 2018 Pacific Southwest Conference (ASEE/PSW-2018)*, Boulder, CO, March 25-27, 2018.
- *K. Chang-Kam, *K. Abad, *R. Colin, *C. Tolentino, *C. Malloy, **A. David, A. Enriquez, W. Pong, Z. Jiang, C. Chen, **K. S. Teh**, H. Mahmoodi, H. Jiang, and X. Zhang, "Engaging Community College Students in Emerging Human-Machine Interfaces Research through Design and Implementation of a Mobile Application for Gesture Recognition", In *Proc. of the American Society for Engineering Education 2018 Pacific Southwest Conference (ASEE/PSW-2018)*, Boulder, CO, March 25-27, 2018.
- *J. Mercurio, **K. Yamada, *A. Choi, *A. Iqbal, *J. I. Guzman, A. Enriquez, X. Zhang, W. Pong, Z. Jiang, C. Chen, **K. S. Teh**, H. Mahmoodi and H. Jiang, "Inspiring Community College Students in Electrical and Computer Engineering Research through Live Digit Recognition using NVidia's Jetson TX1", In *Proc. of the American Society for Engineering Education 2018 Pacific Southwest Conference (ASEE/PSW-2018)*, Boulder, CO, March 25-27, 2018.

- *R. Yedinak, *O. Granados, *V. Tran, *M. Vieyra, **A. Maxwell, A. Enriquez, W. Pong, C. Chen, **K. S. Teh**, X. Zhang, H. Mahmoodi, H. Jiang, Z. Jiang (2018), "Engaging Community College Students in Civil Engineering Research of Structural Health Monitoring using Acoustic Sensors", In *Proc. of the American Society for Engineering Education 2018 Pacific Southwest Conference (ASEE/PSW-2018)*, Boulder, CO, March 25-27, 2018.
- A. Enriquez, N. Langhoff, W. Pong, H. Mahmoodi, X. Zhang, **K. S. Teh**, C. Chen, and Z. Jiang "Developing a Summer Research Internship Program for Underrepresented Community College Engineering Students", In *Proceedings of 2017 ASEE Annual Conference and Exposition*, Columbus, OH, June 24-28, 2017.
- *J. Yan, *J. Dalton, *B. Doronila, *K. Chang-Kam, *V. Melara, *C. Thomas, **Ian Donovan, **K. Bholla, A. Enriquez, W. Pong, Z. Jiang, C. Chen, **K. S. Teh**, H. Mahmoodi, H. Jiang, K. Okada, and X. Zhang "Engaging Community College Students in Computer Engineering Research through Design and Implementation of a Versatile Gesture Control Interface", *Proceedings of 2017 ASEE Pacific Southwest Conference (ASEE/PSW-2017)*, Tempe, AZ, April 20-22, 2017.
- *A. Furlanic, *P. Thomas, *P. Armas, *R. Medina, **J. Lok, A. Enriquez, W. Pong, C. Chen, **K. S. Teh**, X. Zhang, H. Mahmoodi, and Z. Jiang "Engaging Community College Students in Earthquake Engineering Research with Smart Wearable Devices", *Proceedings of 2017 ASEE Pacific Southwest Conference (ASEE/PSW-2017)*, Tempe, AZ, April 20-22, 2017.
- *B. Leung, *Y. T. Huang, *F. Lorenzo, *S. Rodriguez, *J. Young, **A. Attaran, A. Enriquez, C. Chen, Z. Jiang, W. Pong, H. Shahnasser, **K. S. Teh**, X. Zhang, and H. Mahmoodi "Engaging Undergraduate Students in Research: Efficient Logic Design in Nano-Scale using Spin Transfer Torque Memory", *Proceedings of 2017 ASEE Pacific Southwest Conference (ASEE/PSW-2017)*, Tempe, AZ, April 20-22, 2017.
- *T. Mitchell, *S. Sharp, *M. Carlson, *J. Piccolotti, *G. Ramirez, *J. Caballero, A. Enriquez, W. Pong, C. Chen, Z. Jiang, H. Mahmoodi, X. Zhang, **K. S. Teh** "3D Printing of Short-Fiber Composites as an Effective Tool for Undergraduate Education in Composite Materials", *Proceedings of 2017 ASEE Pacific Southwest Conference (ASEE/PSW-2017)*, Tempe, AZ, April 20-22, 2017.
- **X. Li, Y. Cui, M. Qi, **H. Wu, **Y. Xie, **X. Zang, **D. Wen, **K. S. Teh**, J. Ye, Z. Zhou, Q. A. Huang, W. Cai, and L. Lin "A 1000-Volt Planar Micro-Supercapacitor by Direct-Write Laser Engraving of Polymers", *Proceedings of 28th Annual IEEE International Conference on Micro Electro Mechanical Systems (IEEE-MEMS)*, Las Vegas, NV, USA, January 22-26, 2017.
- **G. Luo, **K. S. Teh**, **Y. Liu, **X. Zang, D. Wu, Z. Wen, and L. Lin "High Aspect-Ratio 3D Microstructures via Near-Field Electrospinning for Energy Storage Applications", *Proceedings of 27th Annual IEEE International Conference on Micro Electro Mechanical Systems (IEEE-MEMS)*, Shanghai, China, January 24-28, 2016. (***Selected for Oral Presentation***)
- A. Enriquez, W. Pong, H. Shahnasser, H. Mahmoodi, C. Chen, X. Zhang, **K. S. Teh**, and N. Langhoff "Assessing the Impact of Research Experiences on the Success of Underrepresented Community College Engineering Students", *Proceedings of 2015 ASEE Annual Conference and Exposition*, Seattle, Washington, June 2015. (***Best Paper Award in Minorities in Engineering Division***)
- A. Enriquez, N. Langhoff, W. Pong, N. Ozer, H. Mahmoodi, C. Chen, H. Shahnasser, **K. S. Teh**, X. Zhang, and E. Cheng "Expanding the Community College Engineering Educational Pipeline Through Collaborative Partnerships", *Proceedings of American Society for Engineering Education (ASEE) 2015 Pacific Southwest Conference*, San Diego, USA, April 9-11, 2015. (***Best Diversity Paper Award***)
- *M. Kinsler, *C. McGill, *G. Rodriguez, *W. Berrios, *J. Chow, A. Enriquez, P. Grams, X. Zhang, H. Mahmoodi, W. Pong, and **K. S. Teh** "3D Printing as an Enabling Platform for Cross-Disciplinary Undergraduate Engineering Education and Research", *Proceedings of American Society for Engineering Education (ASEE) 2015 Pacific Southwest Conference*, San Diego, April 9-11, 2015.
- *T. Martinez, *A. Flores-Renteria, *J. Flores, *J. Chun, C. Chen, **H. Ryan, W. Pong, N. Ozer, H. Shahnasser, H. Mahmoodi, A. Enriquez, A. Cheng, **K. S. Teh**, and X. Zhang "Engaging Community College Students in Earthquake Engineering Research on Real-Time Hybrid Simulation", *Proceedings of*

American Society for Engineering Education (ASEE) 2015 Pacific Southwest Conference, San Diego, USA, April 9-11, 2015.

- *R. Melgar, *A. Nash, *M. Sun, *C. T. Yoc, **M. Amir, C. Chen, A. Enriquez, H. Jiang, H. Mahmoodi, W. Pong, H. Shahnasser, **K. S. Teh**, and X. Zhang “Teaching Brain-inspired Visual Signal Processing via Undergraduate Research Experience”, *Proceedings of American Society for Engineering Education (ASEE) 2015 Pacific Southwest Conference*, San Diego, USA, April 9-11, 2015.
- *N. Ettetdgui, *J. Cooney, *B. Labar, *E. Frimpong, *G. Szeto, A. Enriquez, **K. S. Teh**, C. Chen, H. Mahmoodi, W. Pong, H. Shahnasser, and X. Zhang “Engaging Community College Students in Engineering Research through Design and Implementation of a Cyber-Physical System for Myoelectric-Controlled Robot Car”, *Proceedings of American Society for Engineering Education (ASEE) 2015 Pacific Southwest Conference*, San Diego, USA, April 9-11, 2015.
- F. Sammoura, **K. S. Teh**, **A. Kozinda, **X. Zang, and L. Lin “A Hybrid Supercapacitor Using Vertically Aligned CNT-Polypyrrole Nanocomposite”, *Proceedings of 25th Annual IEEE International Conference on Micro Electro Mechanical Systems (IEEE-MEMS)*, San Francisco, USA, January 26-30, 2014.
- **K. S. Teh**, *J. Pedersen, and *H. Esposito “Rapid Thermal Plasma Deposition of Transparent Nanocrystalline ZnO Thin Films and the Effects of Annealing”, *Proceedings of International Conference on Nano/Micro Engineered and Molecular Systems*, Kyoto, Japan, March 5-8, 2012.
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