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- 打印与印刷
- 激光: 激光刻蚀与激光烧蚀
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- 设计传域器与由路连接问题 接口由路 连接问题

Stretchable temperature-sensing circuits with strain suppression based on carbon nanotube transistors / Murmann, Boris

Large-Scale Integrated Flexible Tactile Sensor Array for Sensitive Smart Robotic Touch Huaqiang Wu* Jianshi Tang, *Jian Yao

Highly stable flexible pressure sensors with a quasi-homogeneous composition and interlinked interface Zhengyou Zhang 3 & Chuan Fei Guo

All-printed soft human-machine interface for robotic physicochemical sensing Wei Gao

Encoding of tactile information in hand via skin-integrated wireless haptic interface Junsheng Yu 9 6 , Lidai Wang 9 12 , Wen Jung Li 9 23 and Xinge Yu 9 1212

organic pyroelectric sensors and organic thin-film transistor electronics

An on-skin platform for wireless monitoring of flow rate, cumulative loss and temperature of sweat in real time

Virtual Texture Generated Using Elastomeric Conductive Block Copolymer in a Wireless Multimodal Haptic Glove

Three-dimensional integrated stretchable electronics

On-Skin Stimulation Devices for Haptic Feedback and Human-Machine Interfaces

A transparent bending-insensitive pressure sensor

Sungwon Lee¹², Amir Reuveny¹², Jonathan Reeder¹¹, Sunghoon Lee¹², Hanbit Jin¹², Qihan Liu³, Tomoyuki Yokota¹², Tsuyoshi Sekitani^{12,4}, Takashi Isoyama³, Yusuke Abe³, Zhigang Suo³ and Takao Someya^{12,4}

Highly-integrated, miniaturized, stretchable electronic systems based on stacked multilayer network materials

Material-Based Approaches for the Fabrication of Stretchable Electronic

Augmented tactile-perception and hapticfeedback rings as human-machine interfaces aiming for immersive interactions

Highly pixelated, untethered tactile interfaces for an ultra-flexible on-skin telehaptic system

Crosstalk-Free, High-Resolution Pressure Sensor Arrays Enabled by High-Throughput Laser Manufacturing

Yihao Li, Junyu Long, Yun Chen,* Yan Huang,* and Ni Zhao*

A Capacitive and Piezoresistive Hybrid Sensor for Long-Distance Proximity and Wide-Range Force Detection in Human-Robot Collaboration

Jie Zhao,* PingAn Hu,* and Jia Zhang* Zhe Liu

Wireless graphene-based thermal patch for obtaining temperature distribution and performing thermography Youngcheol Chae 1^* , Sunggu Yang 2^* , Jong-Hyun Ahn

A Capacitive and Piezoresistive Hybrid Sensor for Long-Distance Proximity and Wide-Range Force Detection in Human-Robot Collaboration

Jie Zhao,* PingAn Hu,* and Jia Zhang*

Soft magnetic skin for super-resolution tactile sensing with force self-decoupling Yajing Shen1,6*

Hybrid-Flexible Bimodal Sensing Wearable Glove System for Complex Hand Gesture Recognition Aaron Voon-Yew Thean Yida Li

Interactive Force Control Based on Multimodal Robot Skin for Physical Human Robot Collaboration Gordon Cheng

苗永刚

机械科学与工程

薦教授在幾米尺度上研究固体的变形和斯製,通常从微米野岭米尺度,他目前正在研究跋纳米普的机械变形与电性能 之间的耦合。碳纳米普具有优异的电性能。金属纳米普可以携带非常大的电流,作为纳米电子学中的互连,半导体纳 米管可以作为场效应晶体管进行电开关,其场效应晶体管比当前器件小500倍以上,然而,最近的实验表明,碳纳米管 的电导率在机械变形对变化了两个数量级,即金属纳米管在变形后变成半导体纳米管。碳纳米管的这种独特的机电特 性对基于纳米管的电子学的可靠性具有重大意义,因为在制造和操作过程中产生的显着电性能变化变形可能导致器件

黃教授正在开发一种岭米级连续介质理论,将服子模型直接纳入连续介质框架,以确定变形碳熔米管的原子位置。结合紧密结合计算,他的方法提供了一种有效的带额计算方法,表明金属碳熔米管在机械变形时是否变成半导体。

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Xue Feng, https://www.tsinghua.edu.cn/info/1175/87536.htm , https://www.researchgate.net/profile/Xue-Feng-14

 $Zhenan\ Bao,\quad \underline{https://baogroup.stanford.edu/people/zhenan-bao}\ ,$

Chengkuo Lee, https://www.ece.nus.edu.sg/stfpage/elelc/home.html , https://www.ece.nus.edu.sg/stfpage/elelc/publications.html

摩擦纳米发电机,人机交互,通过简单的运动控制屏幕里面的人物移动

 $Xiao\ Dongchen,\ \underline{https://personal.ntu.edu.sg/chenxd/publication.html}\ ,$

Ravinder Dahiya, 拉文德.迪希亚 https://rsdahiya.com/publications/journals/, 丝网印刷,有机晶体管,也有很多电路方面

- · https://ieeexplore.ieee.org/document/9781508 Torsional and bending endurance analysis of screen-printed interconnects on various flexible substrates
- https://ieeexplore.ieee.org/document/9751110 丝网印刷RFID标签和硬质微芯片在纸上的混合集成,介绍了芯片引 脚如何做到基底表面的键合
- https://onlinelibrary.wiley.com/doi/10.1002/aisy.202100091 用于触觉互动、沟通和康复的智能触觉手套触觉感知机 制与感知阈值的研究,智能手套的关键要求



Ting Zhang,苏州仿生研究院, http://ting.sinano.ac.cn/

Dae-Hyeong Kim, https://www.researchgate.net/scientific-contributions/Dae-Hyeong-Kim-2134654335

Jaeha-Kim https://www.researchgate.net/profile/Jaeha-Kim-6

Sheng Xu https://xugroup.eng.ucsd.edu/publications/,

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复旦大学彭慧胜,功能性纤维材料, https://www.researchgate.net/profile/Huisheng-Peng

清华大学任天令,日常生理信号的透气性电子皮肤, https://www.researchgate.net/profile/Tianling-Ren

南方科大郭传飞,电子皮肤新概念 https://orcid.org/0000-0003-4513-3117

苏州孙旭辉, 软物质研究所, http://funsom.suda.edu.cn/funsomen/2017_4779/list.htm · https://www.researchgate.net/profile/Fuchun-Sun-2 机器人视觉,用视觉的方法解决触觉的感知。 触觉智能,https://hi.is.mpg.de/publications 分布式机器人实验室,http://groups.csail.mit.edu/dr/wiki/index.php?title=Main_Page

张珽, 触觉传感器新策略, 人机交互超级马里奥

金正赞, Jeonghvun KIM - Professor (Associate) - Kwangwoon University, Seoul - Electronics Convergence Engineering (researchgate.net), 擅长无线通信小型化设计

黄永安 https://www.researchgate.net/profile/Yongan-Huang-2 柔性/可拉伸电子制造、电动流体打印、软材料和纳米技术以及应用力学,三维保形

Darren Lipomi达伦·利波米 https://www.researchgate.net/profile/Darren-Lipomi



觉反馈手套,结合了振动触觉马达、热电装置和电触觉电极,用于再现硬度、温度和粗糙

Hao Wu ,聚合物的导电性,电极材料,与黄永安、郭伟 <u>https://link.springer.com/article/10.1007/s11431-022-2074-8</u> https://onlinelibrary.wiley.com/doi/10.1002/admt.202000093 任意曲面上曲面电子器件的制造技术保形技术

Nuria López-Ruiz、喜欢测气体、光学、丝网印刷 https://www.researchgate.net/profile/Nuria-Lopez-Ruiz https://pubs.acs.org/doi/10.1021/ac4028802 丝网印刷的柔性射频识别标签,用于氧气监测

http://groups.csail.mit.edu/drl/wiki/index.php?title=Main_Page 分布式机器人实验室,包括尺蠖移动机器人,桌 面纸张处理机器人和一组合作操作家具的机器

米拉德·莫萨莱 Milad Mosallaei 丝网印刷表征,刚度印刷 https://www.researchgate.net/profile/Milad-Mosallaei

宋彦林 https://www.researchgate.net/profile/Yanlin-Song https://onlinelibrary.wiley.com/doi/10.1002/aisy.202100253 活性有源矩阵 的电导率在机械变形对变化了两个数量级,那金属纳米管在变形后变成半导体纳米管。碳纳米管的这种独特的机电特性对基于纳米管的电子学的可靠性具有重大意义,因为在制造和操作过程中产生的患着电性能变化变形可能导致器件 抽抽

黃教授正在开发一种岭米级连续介质理论。将原子模型直接纳入连续介质框架,以确定变形砌帧米管的原子位置。结 台紧密结合计算,他的方法提供了一种有效的带膝计算方法,表明金属碳岭米管在机械变形时是否变成半导体。

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柔性电路视频

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https://www.koushare.com/video/videodetail/31125 Dae-Heyong Kim

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Xuanhe Zhao: Soft Materials Innovation for Global Health



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凯瑟琳·库亨贝克尔 https://hi.is.mpg.de/person/kjk 机械专业她的研究兴趣包括触觉界面和机器人系统的设计和控制是德国斯图加特马克斯普朗克智能系统研究所触觉智能部门的负责人智能感知的应用,虚拟场景下不切实际的用户体验

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Nanshu Lu, Strategies for body-conformable electronics

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