



Fengwang generator

Who is Feng Wang?

Feng Wang's homepage Feng Wang Ph. D, MIEEE, MACM, SMCCF, Associate Professor School of Computer Science Wuhan University, China Email: fengwang AT whu DOT edu DOT cn Office: Room E306, Computer School Bldg, Wuhan University Brief CV Currently I am an associate professor of School of Computer Science in Wuhan University.

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What is free piston engine generator (fpeg)?

Conventional internal combustion engine (ICE) technique is mature but the efficiency is limited. Free piston engine generator (FPEG) is regarded as a promising technology that can be applied as decarbonized range extenders attributed to its high thermal efficiency and ultimate fuel flexibility.

What is a free piston engine generator powered series hybrid powertrain?

A free piston engine generator powered series hybrid powertrain is proposed for wheel loader. The proposed powertrain reduces 10.5 % of fuel consumption compared to the ICE-based powertrain. The optimal unit commitment of multiple FPEG units are obtained with dynamic programming.

Does fpeg unit number affect powertrain performance?

A rule-based strategy called discrete power follower (DPF) is proposed. The influence of FPEG unit number on powertrain performances is studied. Energy efficiency comparison between the FPEG-based and the ICE-based series hybrid powertrains is carried out.

Papers in 2019 "Piezotronic Effect Modulated Flexible AlGaIn/ GaN High-Electron-Mobility Transistors" Jiyuan Zhu, Xingyu Zhou, Liang Jing, Qilin Hua, Weiguo Hu and Zhong Lin Wang ACS Nano 2019, 13, 13161-13168. "Defect repair for enhanced piezo-phototronic MoS₂ flexible phototransistors" Pei Lin, Laipan Zhu, Ding Li and Zhong Lin Wang Journal of Materials ...

"A blade-type triboelectric-electromagnetic hybrid generator with double frequency up-conversion mechanism for harvesting breeze wind energy", Na Yang, Yingxuan Li, Zhenlong Xu, Yongkang Zhu, Qingkai He, Ziyi Wang, Xueting Zhang, Jingbiao Liu, Chaoran Liu, Yun Wang, Maoying Zhou, Tinghai Cheng, Zhong Lin Wang, ACS Applied Materials & Interfaces, 2024, online.

Feng WANG | Cited by 26 | of Shanghai Jiao Tong University, Shanghai (SJTU) | Read 8 publications |

Contact Feng WANG ... However, the current micro-EDM pulse generator has low discharge frequency ...

A new principle of triboelectric generator (TEG) based on a fully contacted, sliding electrification process is developed, which lays a fundamentally new mechanism for designing universal, high-performance TEGs to harvest ...

The vortex generator is a simple device to induce streamwise vortex for flow separation control, thus reducing the pressure-difference drag. The fundamental characteristics of vortex generators and the corresponding parameter influence are first introduced. Then the applications of vortex generators in various fields for flow separation control ...

In this work, based on the triboelectric-electromagnetic working principle, a comprehensive strategy appropriately hybridizes a multilayered elastic structure TENG (ME-TENG) and a double-electromagnetic generator (EMG) for efficient aeolian vibration energy harvesting and vibration state monitoring. The ME-TENG with the feature of elasticity is ...

A fast response free-piston engine generator numerical model for control applications. B Jia, A Smallbone, H Feng, G Tian, Z Zuo, AP Roskilly. Applied energy 162, 321-329, 2016. 80: 2016: Effect of closed-loop controlled resonance based mechanism to start free piston engine generator: Simulation and test results.

Flexible triboelectric generator! Feng-Ru Fana,b, Zhong-Qun Tianb, Zhong Lin Wanga,n aSchool of Material Science and Engineering, Georgia Institute of Technology, Atlanta, GA 30332-0245, USA bState Key Laboratory of Physical Chemistry of Solid Surfaces, Department of Chemistry, College of Chemistry

Feng Wang received a B.A. from Fudan University, Shanghai, in 1999 and a Ph.D. from Columbia University in 2004. From 2005-2007, he has been a Miller Fellow with Miller Institute for Basic Science at Berkeley. He joined the physics faculty in fall, 2007. Research Interests We are interested in light-matter interaction in condensed matter physics, with an emphasis on novel

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The triboelectric generator (TEG) is fabricated by stacking two polymer sheets made of materials having distinctly different triboelectric characteristics, with metal films deposited on the top and bottom of the assembled structure. Once subjected to mechanical deformation, a friction between the two films, owing to the nano-scale surface ...

underway to develop a generator that can adapt to the ultra-low frequency of ocean wave vibration. Here, we designed a cylindrical triboelec-tric nanogenerator with an internal swing structure for effective water wave

energy harvesting. Based on the supporting effect of the bearing

Automatic 3D generation has recently attracted widespread attention. Recent methods have greatly accelerated the generation speed, but usually produce less-detailed objects due to limited model capacity or 3D data. Motivated by recent advancements in video diffusion models, we introduce V3D, which leverages the world simulation capacity of pre-trained video ...

Biosketch. Ph.D Department of Materials and Engineering, Tsinghua University, Beijing, China July 2010
B.S. Department of Materials and Engineering, Tsinghua University, Beijing, China July 2005; Research Area. Piezoelectronics of ZnO nanowires.

An olfactory pattern generator for on-demand combinatorial control of receptor activities. G Si, J Baron, Y Feng, ADT Samuel. bioRxiv, 2021.05. 31.446433, 2021. 1: 2021: Attractor neural networks with double well synapses. Y Feng, N Brunel. PLOS Computational Biology 20 (2), e1011354, 2024.

%0 Conference Proceedings %T Guiding Variational Response Generator to Exploit Persona %A Wu, Bowen %A Li, MengYuan %A Wang, Zongsheng %A Chen, Yifu %A Wong, Derek F. %A Feng, Qihang %A Huang, Junhong %A Wang, Baoxun %Y Jurafsky, Dan %Y Chai, Joyce %Y Schluter, Natalie %Y Tetreault, Joel %S Proceedings of the 58th Annual ...

Fortran95 programming language is used to optimize and improve the solution algorithm of the home-made transient analysis code, named TCROSS, for SFR sodium heated OTSG, which is modified into the JFNK algorithm for solving large sparse nonlinear matrices. The sodium heated once-through steam generator (OTSG) is a vital barrier separating sodium and ...

A power-efficient integrated lithium niobate electro-optic comb generator. K Zhang, W Sun, Y Chen, H Feng, Y Zhang, Z Chen, C Wang. Communications Physics 6 (1), 17, 2023. 70: 2023: Integrated lithium niobate microwave photonic processing engine.

Moist-electric generators (MEGs) that can directly harvest electricity from ubiquitous moisture are some of the most fascinating and promising candidates to supply renewable and clean power for next-generation portable electronics. However, the lack of necessary wearable properties such as air permeability a

Papers in 2018 "Piezotronic Transistor Based on Topological Insulators" Gongwei Hu, Yan Zhang, Lijie Li and Zhong Lin Wang ACS Nano 2018, 12, 779-785 "Structure and Dimension Effects on the Performance of Layered Triboelectric Nanogenerators in Contact-Separation Mode" Xing Yin, Di Liu, Linglin Zhou, Xinyuan Li, Chunlei Zhang, Ping Cheng, Hengyu Guo, Weixing Song, Jie ...

Feng Wang*; Wataru Ueda*, High Catalytic Efficiency of Nanostructured Molybdenum Trioxide in the Benzylolation of Arenes and an Investigation of the Reaction Mechanism. Chemistry-a European Journal 2009, 15(3), 742-753. ...

At present, the two main methods of capturing solar energy for human benefit are solar photovoltaic and solar thermal processes 1,2,3,4,5. Photovoltaic cells, which generate electricity by exciting ...

This is a simple, low-cost, readily scalable fabrication process of generator that can convert random mechanical energy in our living environment into electricity using conventional flexible/foldable polymer materials. This technology has a great potential for scaling up to power mobile and personal electronics used in environmental monitoring ...

Prof. WANG Feng obtained his BE (2001) and PhD (2006) degrees in Materials Science and Engineering from Zhejiang University. His PhD thesis was focused on the synthesis and characterization of lanthanide-doped fluoride ...

Papers in 2023 "Conformable multifunctional space fabric by metal 3D printing for collision hazards protection and monitoring", Yanshuo Sun, Chengyu Li, Zijie Xu, Yaxing Cao, Hengrui Sheng, Zhong Lin Wang, and Leo N.Y. Cao, ACS Applied Materials & Interface, 2023, online. "Mechanism for Generating H₂O₂ at Water-Solid Interface by Contact-Electrification", Andy ...

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