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Modelling macroscopic brain dynamics with brain-inspired computing architectures

Brain-inspired computing architectures are the result of the recent advances in fields as diverse as neuroscience, nanotechnology and computer science. Here, Furber and Temple review the current state of the art and discuss the potential of these architectures for exploring principles of brain function.

Steve Furber & Steve Temple

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Particle deceleration by solution-processed reversible interpolymer with fully-restored silicon for efficient tandem solar cells

Achieving controllable charge transport in solution-processed polymer solar cells is challenging. Here, Lee et al. report a reversible interpolymer with a large optical bandgap and electron-withdrawing efficiency for the tandem solar cell, which delivers a power conversion efficiency of 11.7% through the optical and charge recombination engineering.

Chulyeon Lee, Jin Young Kim & Kilwon Cho

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Tempered Hebb reconfirmed

Hebb's original rule has important analytic properties, but is unstable. Here, Gütig et al. show that a timing-based rule with soft bounds for synaptic weight growth and decay is stable for all input statistics and can learn to detect temporally correlated inputs.

Gerrit S. Hilscher, Zhong Yun Lin & Yuyi Jiang

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Real-time self-powered dosimeter for high-speed fluorescence neural imaging

Real-time dosimetry is crucial for the safe and effective use of optogenetics. Here, Lee et al. report a self-powered dosimeter for real-time monitoring of light exposure during optogenetic experiments, which can be used to control the light dose delivered to the brain.

Hyun Wang, Sungho Jo & Byeo Dong

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Carbon brush-mediated dopamine detection reveals cancer progression-induced changes in mouse oral cavity

Carbon brushes are commonly used in motors and generators. Here, Hashimoto et al. show that carbon brushes can also be used as electrochemical sensors for detecting dopamine in the oral cavity, which may be useful for early diagnosis of oral cancer.

Kazuki Hashimoto, Kenji Ito & Yoshio Ishimura

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Cancer-catalyzed enantioselective synthesis of γ-butyrolactones via radical diversification of allenoic acid

Cancer cells have been shown to exhibit altered metabolic pathways. Here, Zhang et al. report that cancer cell lysates can catalyze the enantioselective synthesis of γ-butyrolactones from allenoic acid, and that the same reaction is not observed in normal cell lysates. The authors report a 2-carboxy-allenoyl-asymmetric functionalization of 2,3-butadienoic acid catalyzed by cancer cell lysates.

Ming-Lei Zhang, Hai-Yu Li & Jian-He Xie

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Exciton brain: monolayer semiconductor quantum dots as a platform for illuminating biological neural networks

Recently, the use of optogenetics to control neural activity has become widespread. Here, Lin et al. report the use of quantum dots as a platform for optical stimulation of neurons, which can be used to control neural activity in a non-genetic manner.

Zhiping Lin, Yuan Xue & Yang-Yu Xu

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Copper-catalyzed enantioselective synthesis of γ-butyrolactones via radical diversification of allenoic acid

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Organocatalytic enantioselective [3+ 2]cycloaddition reaction of N-acyl-5-(1,3-thiazolyl) imines and α,β-unsaturated aldehydes

Recently, it has been shown that some transition metal complexes can be used to control the activity of enzymes. Here, Yang et al. report the use of a ruthenium complex to control the activity of a protease in cultured cancer cells and zebrafish embryos.

Yi-Long Yang, Tao Liu & Yi-Long Yang

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DNA computing-based cytosine to adenine base editing

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Water adsorbers balancing metal–sulfonyl in bound catalytic activity

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Solar hydrothiocatalyst for methane hydrocarbons in enclosed

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Low-emission permanent clinker precursor production combined with electrolytic capture of calcium from waste cement

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