

جبهه های داغ تحقیق نمایه شده در وب او ساینس در سال ۲۰۲۰

به گزارش شرکت کلریویت آنالیتیک و آکادمی علوم چین جبهه های داغ تحقیق در سال ۲۰۲۰ به شرح مندرج در جدول ذیل است. این داده های از ESI مستخرج شده اند.

Twenty noteworthy topics among the 100 hottest Research Fronts are:

Hot Research Fronts	Field of Science
The jasmonate signaling mechanism for regulation of plant growth and defense	Agricultural, Plant and Animal Sciences
Application of unmanned aerial systems in crop phenotyping	Agricultural, Plant and Animal Sciences
The environmental character, human exposure and health risk of endocrine disruptors	Ecology and Environmental Sciences
Phosphorus loads and pollution and health risk of cyanobacterial blooms	Ecology and Environmental Sciences
CESM and RCP8.5-based studies of climate change	Geosciences
Heavy Metal Contamination of Urban Soils in China: source and risk assessment	Geosciences
Efficacy and safety of infliximab biosimilar	Clinical Medicine
Role of pericyte degeneration in Alzheimer disease	Clinical Medicine
Plasmid-mediated polymyxin resistance gene	Biological Sciences
Cas13: a new CRISPR system targeting RNA	Biological Sciences
Solar steam generation	Chemistry and Materials Sciences
Molecular machines	Chemistry and Materials Sciences
New deep-UV nonlinear optical materials	Physics
Studies of Majorana fermions in condensed matter physics	Physics
Multi-messenger observations of a binary neutron star merger GW170817	Astronomy and Astrophysics
Observational and theoretical research on binary black-hole mergers	Astronomy and Astrophysics
Data security in the cloud computing environment	Mathematics, Computer Science and Engineering
State of charge estimation of lithium-ion batteries used in electric vehicles	Mathematics, Computer Science and Engineering
Decomposition analysis method for energy and carbon emissions	Economics, Psychology and other Social Sciences
fMRI method for brain functional structure and connection pattern	Economics, Psychology and other Social Sciences

Ten noteworthy topics among the 37 emerging Research Fronts are:

Emerging Research Fronts	Field of Science
The mechanism of rice OsAUX1 gene in promoting root hair elongation under low phosphorus conditions	Agricultural, Plant and Animal Sciences
Effects of environmental pollutants on gut microbiota	Ecology and Environmental Sciences
Effects of thermal damage on mechanical behavior of rock	Geosciences
Clinical outcomes of percutaneous coronary intervention in patients with stable coronary artery disease	Clinical Medicine
Circular RNA as a novel biomarker for cancer	Biological Sciences
Difunctionalization of unactivated alkenes via distal functional group migration strategy	Chemistry and Materials Sciences
Studies of B-physics anomalies	Physics
Investigations of dark matter in the early universe within 21 cm line observations	Astronomy and Astrophysics
Application of convolutional neural network in magnetic resonance image processing	Mathematics, Computer Science and Engineering
Industry 4.0 and its applications	Economics, Psychology and other Social Sciences

Source: <https://clarivate.com/news/clarivate-analytics-and-the-chinese-academy-of-sciences-release-annual-joint-report-to-identify-137-research-fronts/>