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Supercoiling and looping promote DNA base accessibility and coordination among distant sites

文献标识符DOI

Jonathan M. Fogg^{1,2,3}, Allison K. Judge², Erik Stricker¹, Hilda L. Chan^{4,5} & Lynn Zechiedrich^{1,2,3,4}

文章标题

DNA in cells is supercoiled and constrained into loops and this supercoiling and looping influence every aspect of DNA activity. We show here that negative supercoiling transmits mechanical stress along the DNA backbone to disrupt base pairing at specific distant sites. Cooperativity among distant sites localizes certain sequences to superhelical apices. Base pair disruption allows sharp bending at superhelical apices, which facilitates DNA writhing to relieve torsional strain. The coupling of these processes may help prevent extensive denaturation associated with genomic instability. Our results provide a model for how DNA can form short loops, which are required for many essential processes, and how cells may use DNA loops to position nicks to facilitate repair. Furthermore, our results reveal a complex interplay between site-specific disruptions to base pairing and the 3-D conformation of DNA, which influences how genomes are stored, replicated, transcribed, repaired, and many other aspects of DNA activity.

文章摘要

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Supercoiling and looping promote DNA base accessibility and coordination among distant sites

Jonathan M. Fogg^{1,2,3}, Allison K. Judge², Erik Stricker¹, Hilda L. Chan^{4,5} & Lynn Zechiedrich^{1,2,3,4}

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NATURE COMMUNICATIONS | (2021)12:5683 | <https://doi.org/10.1038/s41467-021-25936-2> | www.nature.com/naturecommunications

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One of the properties of DNA that make it ideal as a medium for storing genetic information is its incredible stability, perhaps best illustrated by the fact that ancient DNA samples have been recovered and sequenced from over 300,000 years old ¹⁻³. Researchers have utilized the rich data density of DNA for storing digital information ^{4,5}. The bases that carry the genetic information are safely in the interior of double-helical B-form DNA, protecting them from damage. This hereditary information is passed on from one generation to the next.

施引位置

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... and a reduced genetic code. In genomes of various organisms of life, DNA is constrained into loops. DNA loops as short as ~100 bp, and loops of DNA of various lengths, Extrachromosomal DNA of lengths, some as short as 80 bp, have been detected in the cells of various organisms, including plants, humans, mice, and *C. elegans* ⁶⁻¹⁰. Supercoiling and looping both play key roles in biology. Therefore, it is important to understand how they together modulate the properties of DNA. ¹¹⁻¹³

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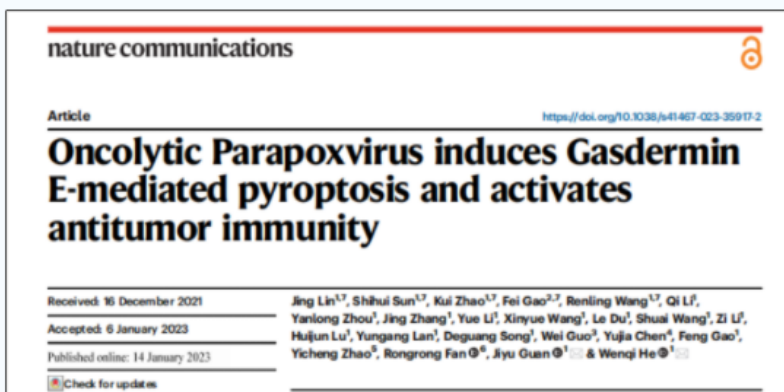
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吉林大学动物医学学院动物病理学创新团队在溶瘤病毒抗肿瘤机制研究领域取得重要进展

2023年01月16日 11:33 动物医学学院

日前，吉林大学动物医学学院动物病理学研究团队在“溶瘤病毒抗肿瘤机制”研究领域取得重要进展，并于1月14日在国际知名综合期刊《Nature Communications》上发表了题为“Oncolytic Parapoxvirus induces Gasdermin E-mediated pyroptosis and activates antitumor immunity”（溶瘤性副痘病毒诱导Gasdermin E介导的焦亡并激活抗肿瘤免疫）的研究成果。论文第一完成单位为吉林大学，动物医学学院贺文琦教授、关继羽副教授为论文的共同通讯作者，动物医学学院在读博士生林静为第一作者（Nat Commun. 2023, 14: 224）。



传统观点认为，溶瘤病毒（OV）诱导的肿瘤杀伤是由于诱导肿瘤细胞发生凋亡所致，但细胞凋亡时处于免疫静息状态的理论，与OV可触发较为强烈的抗肿瘤炎症反应现象相矛盾，这是该领域尚未阐明的科学问题。

该团队的研究发现，溶瘤性副痘病毒（ORFV）可诱导肿瘤细胞及组织发生Gasdermin E（GSDME）介导的细胞焦亡。ORFV疗法可通过抑制GSDME蛋白的泛素化降解，增强GSDME的胞内蛋白水平，进而ORFV诱导GSDME裂解活化，促进细胞焦亡发生；肿瘤细胞焦亡将CTL募集到肿瘤微环境中，同时释放炎症介质，进一步激活抗肿瘤免疫应答，重塑了免疫微环境，使“冷”肿瘤转化为“热”肿瘤，显著敏感化免疫“冷”肿瘤对免疫检查点阻断疗法的应答；利用病毒重组技术构建的毒力基因缺失重组病毒，在获得良好生物安全性的同时维持了其抗肿瘤能力（如图所示）。



吉林大学动物医学学院动物病理学研究团队在“溶瘤病毒抗肿瘤机制”研究领域取得重要进展，并于1月14日在国际知名综合期刊《Nature Communications》上发表了题为“Oncolytic Parapoxvirus induces Gasdermin E-mediated pyroptosis and activates antitumor immunity”的研究成果。论文第一完成单位为吉林大学，动物医学学院贺文琦教授、关继羽副教授为论文的共同通讯作者，动物医学学院在读博士生林静为第一作者。

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The advantage of oncolytic viruses (OV) in cancer therapy is their dual effect of directly killing tumours while prompting anti-tumour immune response. Oncolytic parapoxvirus ovis (ORFV) and other OVs are thought to induce apoptosis, but apoptosis, being the immunogenically inert compared to other types of cell death, does not explain the highly inflamed microenvironment in OV-challenged tumors ... 显示更多

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The advantage of oncolytic viruses (OV) in cancer therapy is their dual effect of directly killing tumours while prompting anti-tumour immune response. Oncolytic parapoxvirus ovis (ORFV) and other OVs are thought to induce apoptosis, but apoptosis, being the immunogenically inert compared to other types of cell death, does not explain the highly inflamed microenvironment in OV-challenged tumours. Here we show that ORFV and its recombinant therapeutic derivatives are able to trigger tumor cell pyroptosis via Gasdermin E (GSDME). This effect is especially prominent in GSDME-low tumor cells, in which ORFV-challenge pre-stabilizes GSDME by decreasing its ubiquitination and subsequently initiates pyroptosis. Consistently, GSDME depletion reduces the proportion of intratumoral cytotoxic T lymphocytes, pyroptotic cell death and the success of tumor ORFV virotherapy. In vivo, the OV preferentially accumulates in the tumour upon systemic delivery and elicits pyroptotic tumor killing. Consequentially, ORFV sensitizes immunologically 'cold' tumours to checkpoint blockade. This study thus highlights the critical role of GSDME-mediated pyroptosis in oncolytic ORFV-based antitumor immunity and identifies combinatorial cancer therapy strategies.

Oncolytic viruses are able to target tumours and thought to induce apoptosis while remodelling the tumour immune microenvironment. Here authors show in an oncolytic parapoxvirus ovis model that pyroptosis, a highly immunogenic Gasdermin-E-dependent cell death mechanism, is the dominant cell death pathway during virotherapy.

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Lin, J (Lin, Jing) ^[1]; Sun, SH (Sun, Shihui) ^[1]; Zhao, K (Zhao, Kui) ^[1]; Gao, F (Gao, Fei) ^[2]; Wang, RL (Wang, Renling) ^[1]; Li, Q (Li, Qi) ^[1]; Zhou, YL (Zhou, Yanlong) ^[1]; Zhang, J (Zhang, Jing) ^[1]; Li, Y (Li, Yue) ^[1]; Wang, XY (Wang, Xinyue) ^[1]; ...[更多内容](#)

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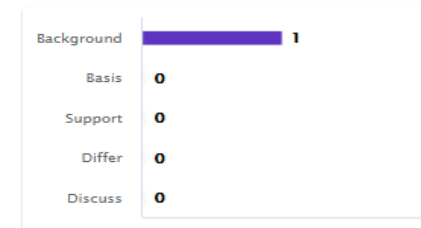
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The advantage of oncolytic viruses (OV) in cancer therapy is their dual effect of directly killing tumours while prompting anti-tumour immune response. Oncolytic parapoxvirus ovis (ORFV) and other OVs are thought to induce apoptosis, but apoptosis, being the immunogenically inert compared to other types of cell death, does not explain the highly inflamed microenvironment in OV-challenged tumors. Here we show that ORFV and its recombinant therapeutic derivatives are able to trigger tumor cell pyroptosis via Gasdermin E (GSDME). This effect is especially prominent in GSDME-low tumor cells, in which ORFV-challenge pre-stabilizes GSDME by decreasing its ubiquitination and subsequently initiates pyroptosis. Consistently, GSDME depletion reduces the proportion of intratumoral cytotoxic T lymphocytes, pyroptotic cell death and the success of tumor ORFV virotherapy. In vivo, the OV preferentially accumulates in the tumour upon systemic delivery and elicits pyroptotic tumor killing. Consequentially, ORFV sensitizes immunologically 'cold' tumors to checkpoint blockade. This study thus highlights the critical role of GSDME-mediated pyroptosis in oncolytic ORFV-based antitumor immunity and identifies combinatorial cancer therapy strategies.

Oncolytic viruses are able to target tumours and thought to induce apoptosis while remodelling the tumour immune microenvironment. Here authors show in an oncolytic parapoxvirus ovis model that pyroptosis, a highly immunogenic Gasdermin-E-dependent cell death mechanism, is the dominant cell death pathway during virotherapy.

关键词

Keywords Plus: T-CELL INFILTRATION; DFNA5 GENE; VIRUS; TUMOR; IMMUNOTHERAPY; METHYLATION; CISPLATIN; BLOCKADE; CLEAVAGE; POXVIRUS

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Abstract

The advantage of oncolytic viruses (OV) in cancer therapy is their dual effect of directly killing tumours while prompting anti-tumour immune response. Oncolytic parapoxvirus ovis (ORFV) and other OVs are thought to induce apoptosis, but apoptosis, being the immunogenically inert compared to other types of cell death, does not explain the highly inflamed microenvironment in OV-challenged tumors. Here we show that ORFV and its recombinant therapeutic derivatives are able to trigger tumor cell pyroptosis via Gasdermin E (GSDME). This effect is especially prominent in GSDME-low tumor cells, in which ORFV-challenge pre-stabilizes GSDME by decreasing its ubiquitination and subsequently initiates pyroptosis. Consistently, GSDME depletion reduces the proportion of intratumoral cytotoxic T lymphocytes, pyroptotic cell death and the success of tumor ORFV virotherapy. In vivo,




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Received: 16 December 2021

Accepted: 6 January 2023

Published online: 14 January 2023

 Check for updates

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Oncolytic viruses (OV) are compelling agents for cancer therapy, they are native or engineered viruses that selectively target and kill tumors^{1,2}. OV-executed tumor inhibition is mainly through direct oncolytic effect and immune cell-mediated tumor clearance³. As a kind of novel immunotherapy, OV-based therapy is considered to induce significant antitumor immunity, either through innate or adaptive immune cells³. Notably, a promising approach for harness-

ing cytotoxic T lymphocytes (CTL) within tumor lesions^{2,4}. Given that a majority of cancer patients were initially refractory to ICI therapy^{5,6}, the approach of combining with OVs is of great clinical significance. It is believed that tumors with high immunogenic properties recruit more CTLs into the tumor microenvironment and display more effective responses to ICIs⁷. Armed OVs expressing pro-inflammatory cytokines as well as even unmodified OVs can release tumor-

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Accession Number: WOS:000950192400003 DOI: 10.1038/s41467-023-35917-2

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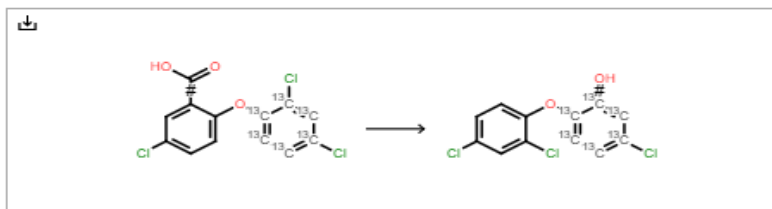
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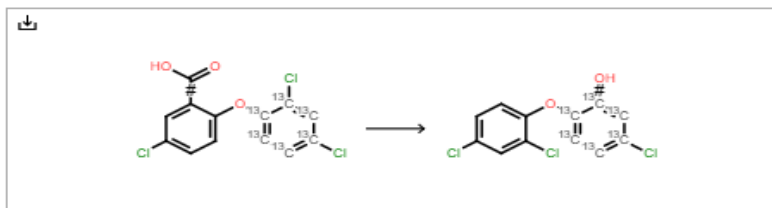


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- 2 **Turkevich in New Robes: Key Questions Answered for the Most Common Gold Nanoparticle Synthesis** 252
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 [Wuithschick, M; Birnbaum, A; \(...\); Polte, J](#)
Jul 2015 | [ACS NANO](#) 9 (7), pp.7052-7071
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This contribution provides a comprehensive mechanistic picture of the gold nanoparticle synthesis by citrate reduction of HAuCl4, known as Turkevich method, by addressing five key questions. The synthesis leads to monodisperse final particles as a result of a seed-mediated growth mechanism. In the initial phase of the synthesis, seed particles are formed onto which the residual gold is distribu
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End-to-end gold nanorod dimers provide unique plasmonic hotspots with extremely large near-field enhancements in the gaps. Thereby they are beneficial in a wide range of applications, such as enhancing the emissions from ultra-weak emitters. For practical purposes, synthesis of gold nanorod dimers with high yield, especially on the substrates, is essential. Here, we demonstrate two controllable ... 显示更多

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Jul 7 2019 | CHEMICAL COMMUNICATIONS 55 (53), pp.7707-7710

An effective strategy for regioselective modification and directional assembly of anisotropic nanoparticles is demonstrated to explore the electric field enhancement in assembled gold nanobipyramids compared with gold nanorods. The well-defined secondary plasmonic hot spots between the coupled gold nanobipyramids exhibit the capability for single molecule detection.

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Li, YY
5th International Conference on Information Engineering for Mechanics and Materials (ICIMM)
2015 | PROCEEDINGS OF THE 5TH INTERNATIONAL CONFERENCE ON INFORMATION ENGINEERING FOR MECHANICS AND MATERIALS 21, pp.36-39

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[Thacker, W; Herrmann, LQ; Keyser, UF](#)
Me  [单击以查找此作者的更多记录](#) ⁵ 47 参考文献
Plasmonic sensors are extremely promising candidates for label-free single-molecule analysis but require exquisite control over the physical arrangement of metallic nanostructures. Here we employ self-assembly based on the DNA origami technique for accurate positioning of individual gold nanoparticles. Our innovative design leads to strong plasmonic coupling between two 40 nm gold nanoparticles ... 显示更多
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[Wang, YQ; Yan, B and Chen, LX](#)
Mar 2013 | CHEMICAL REVIEWS 113 (3), pp.1391-1428
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- 1 Macroscopic two-dimensional monolayer films of gold nanoparticles: fabrication strategies, surface engineering and functional applications
44 被引频次
290 参考文献
Song, LP; Huang, Y; (...); Chen, J
Apr 14 2020 | NANOSCALE 12 (14) , pp.7433-7460
In the last few decades, two-dimensional monolayer films of gold nanoparticles (2D MFGS) have attracted increasing attention in various fields, due to their superior attributes of macroscopic size and accessible fabrication, controllable electromagnetic enhancement, distinctive optical harvesting and electron transport capabilities. This review will focus on the recent progress of 2D monolayer
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- 2 Single-molecule imaging in live cell using gold nanoparticles
4 被引频次
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Leduc, C; Si, S; (...); Lounis, B
2015 | BIOPHYSICAL METHODS IN CELL BIOLOGY 125 , pp.13-27
Optimal single particle tracking experiments in live cells requires small and photostable probes, which do not modify the behavior of the molecule of interest. Current fluorescence-based microscopy of single molecules and nanoparticles is often limited by bleaching and blinking or by the probe size. As an alternative, we present in this chapter the synthesis of a small and highly specific gold
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End-to-end gold nanorod dimers provide unique plasmonic hotspots with extremely large near-field enhancements in the gaps. Thereby they are beneficial in a wide range of applications, such as enhancing the emissions from ultra-weak emitters. For practical purposes, synthesis of gold nanorod dimers with high yield, especially on the substrates, is essential. Here, we demonstrate two controllable ... 显示更多

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Pardehkhorrani, R; Bonaccorsi, S; (...) ; Gooding, JJ

Jul 7 2019 | CHEMICAL COMMUNICATIONS 55 (53) , pp.7707-7710

An effective strategy for regioselective modification and directional assembly of anisotropic nanoparticles is demonstrated to explore the electric field enhancement in assembled gold nanobipyramids compared with gold nanorods. The well-defined secondary plasmonic hot spots between the coupled gold nanobipyramids exhibit the capability for single molecule detection.

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- Kang, Seongho 20
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Plasmonic-enhanced luminescence of single molecules enables imaging and detection of low quantities of fluorophores, down to individual molecules. In this work, we present two-photon excited luminescence of single gold nanoclusters, Au-18(SG)(14), in close proximity to bare gold nanorods (AuNRs). We observed 25-times enhanced emission of gold nanoclusters (AuNCs) in near infrared region, which ... 显示更多

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Li, YY
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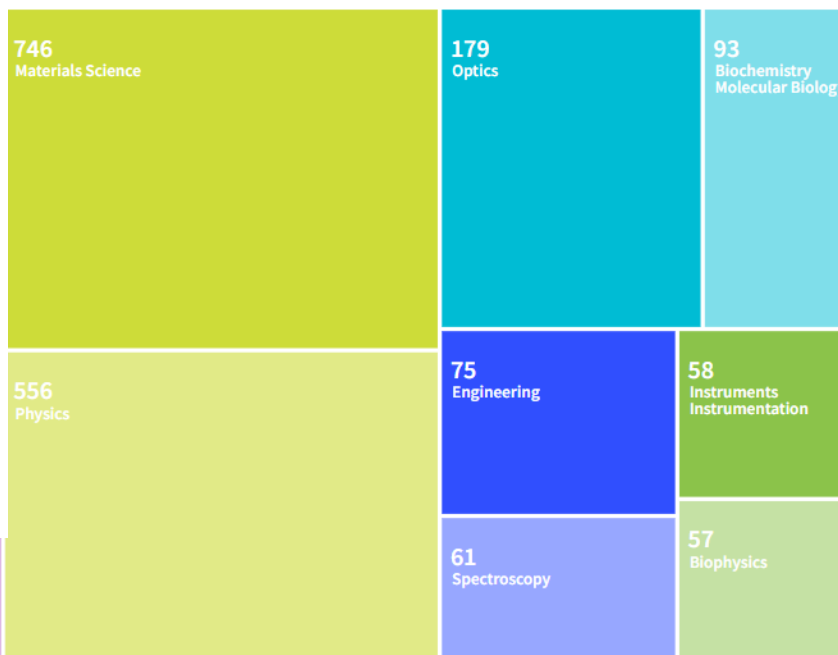
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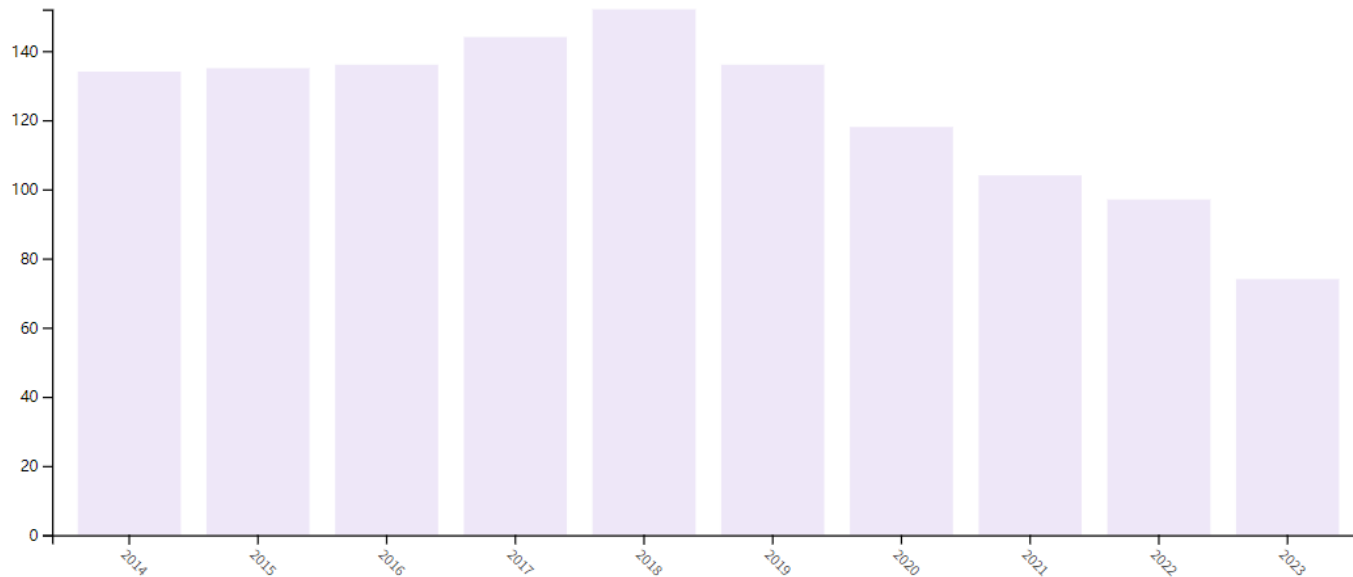
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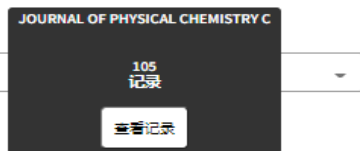
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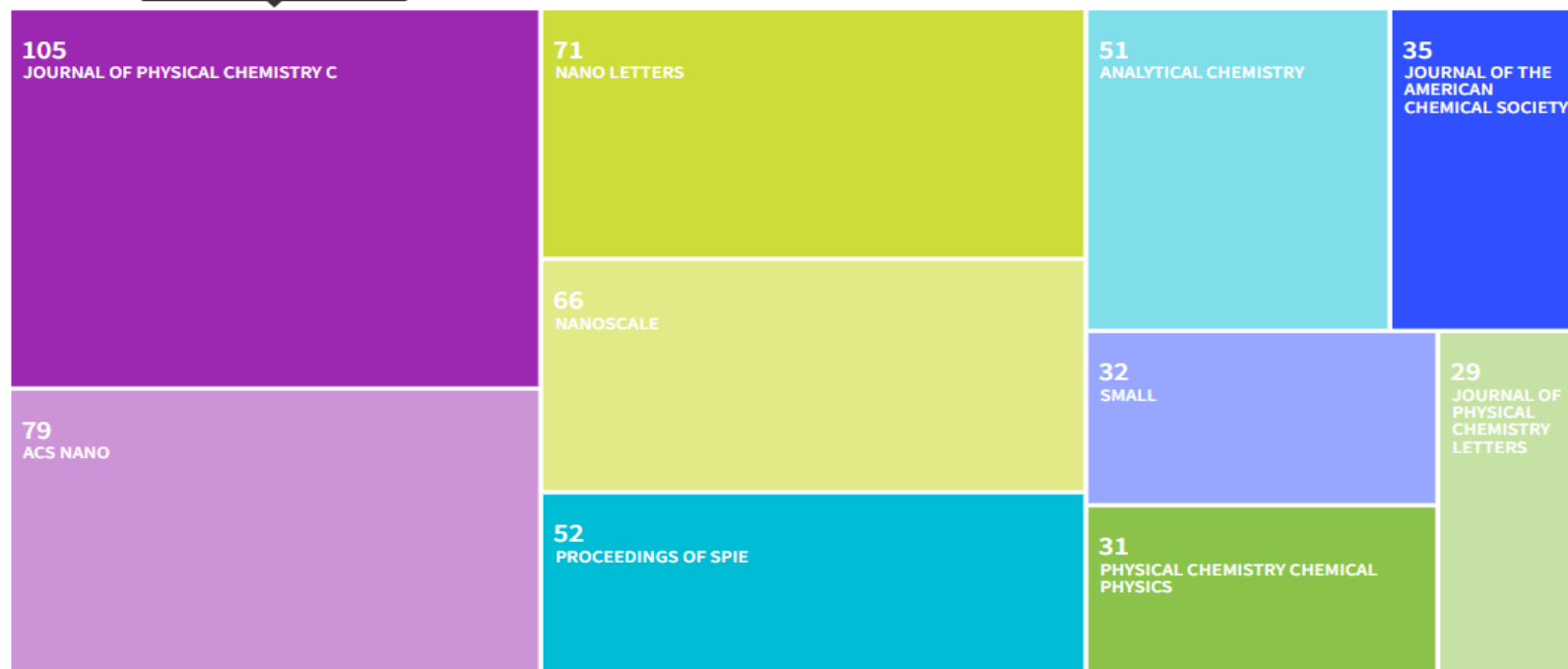
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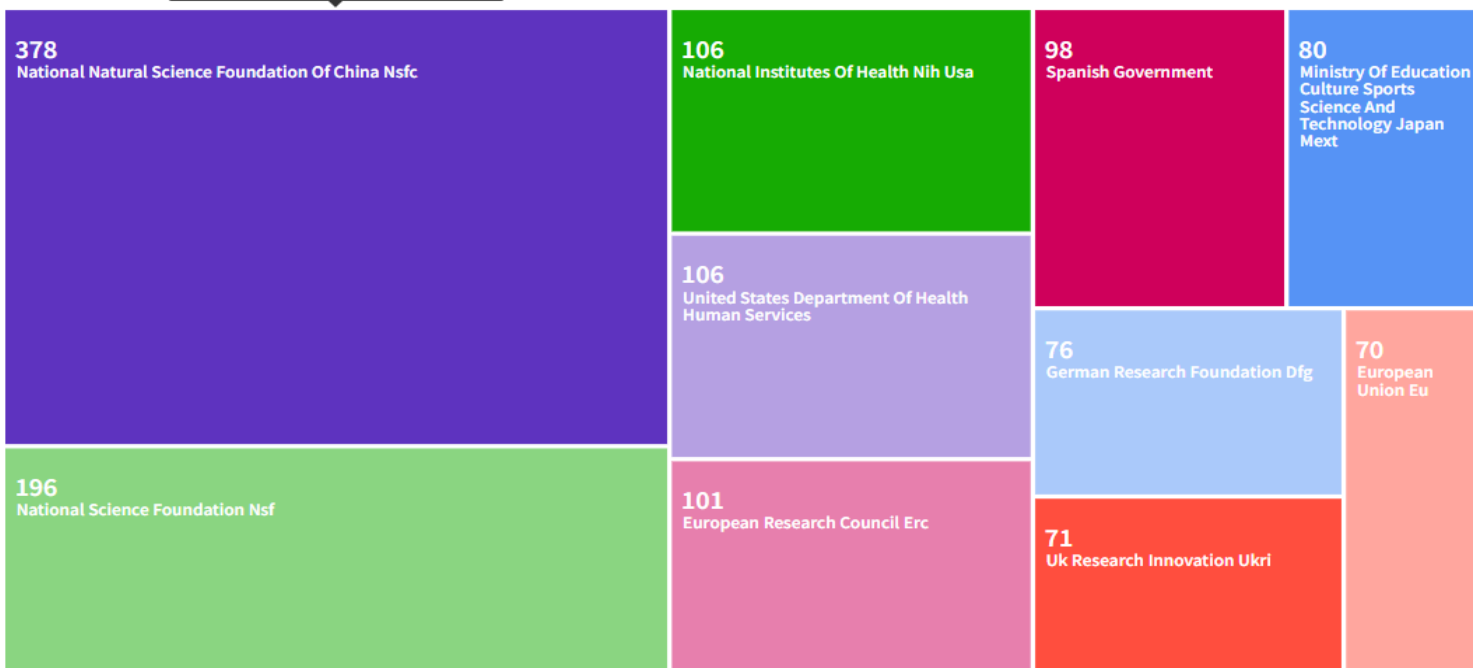
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Huo, D; Kim, MJ; (...); Xia, YN

Aug 14 2019 | CHEMICAL REVIEWS 119 (15), pp.8972-9073

This Review offers a comprehensive review of the colloidal synthesis, mechanistic understanding, physicochemical properties, and applications of one-dimensional (1D) metal nanostructures. After a brief introduction to the different types of 1D nanostructures, we discuss major concepts and methods typically involved in a colloidal synthesis of 1D metal nanostructures, as well as the current mec

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2 Gold nanorods-based hybrids with tailored structures for photoredox catalysis: fundamental science, materials design and applications



Han, C; Qi, MY; (...); Xu, YJ

Aug 2019 | NANO TODAY 27, pp.48-72

Gold nanorods (Au NRs) have received extensive attention owing to their extremely attractive applications in photoredox catalysis, plasmon-enhanced spectroscopy, biomedical technologies and optoelectronic devices. Enabled by the unique and tunable surface plasmon resonance (SPR), anisotropic Au NRs can interact with and harvest incident light covering the much of the solar spectrum. As such, th

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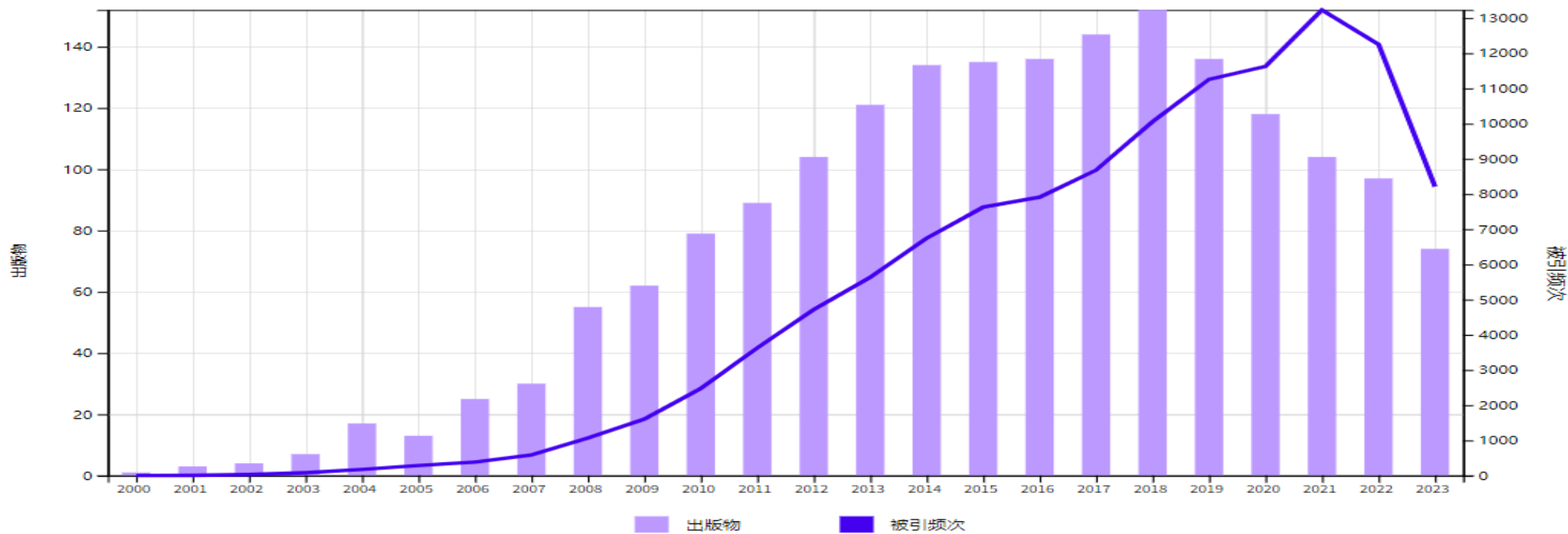
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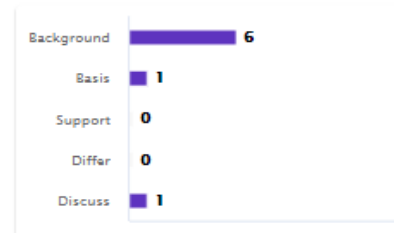
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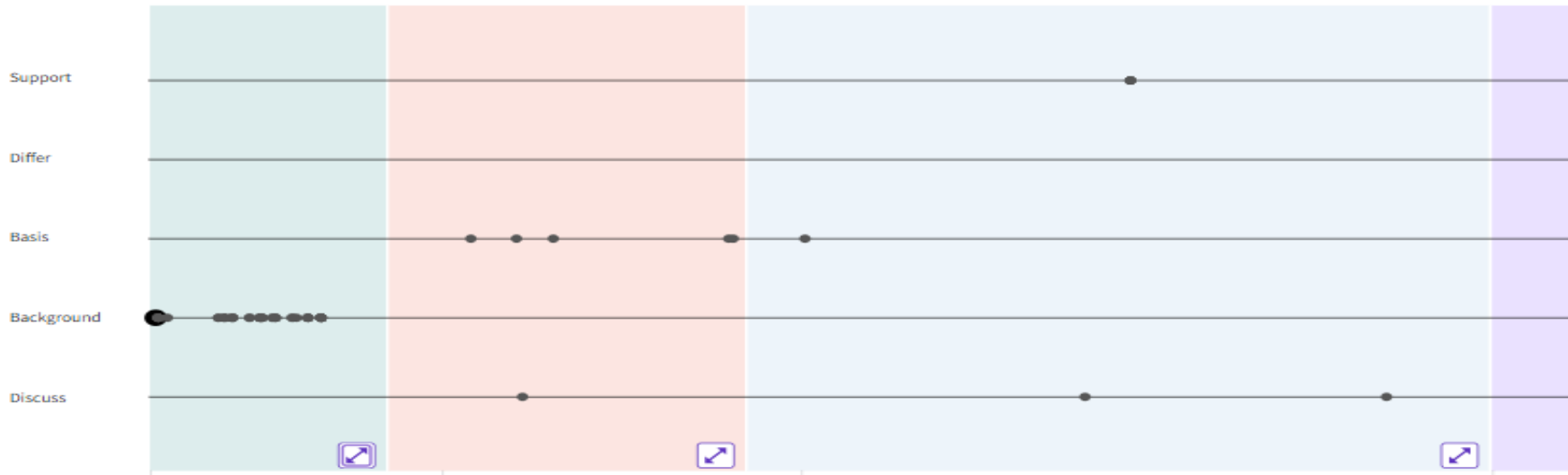
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Lu, XX; Punj, D and Orrit, M

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Pardehkhorrani, R; Bonaccorsi, S; et al

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An effective strategy for regioselective modification and directional assembly of anisotropic nanoparticles is demonstrated to explore the electric field enhancement in assembled gold nanobipyramids compared with gold nanorods. The well-defined secondary plasmonic hot spots between the coupled gold nanobipyramids exhibit the capability for single molecule detection.

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	Li, Y. Y.	2015	Progress in Synthesis and Application of Water-solubl...	5th International Conference on Inf...	2023/10/21	Conference Proceedings
	Lu, X. X.; Punj, D.; Orrit, ...	2022	Controlled synthesis of gold nanorod dimers with end...	Rsc Advances	2023/10/21	Journal Article
	Pardehkhorrām, R.; Bon...	2019	Intrinsic and well-defined second generation hot spot...	Chemical Communications	2023/10/21	Journal Article
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Progress in Synthesis and Application of Water-soluble Fluorescent Gold Nanoparticles

Y. Y. Li

5th International Conference on Information Engineering for Mechanics and Materials (ICIMM) Hohhot, PEOPLES R CHINA Jul 25-26 2015

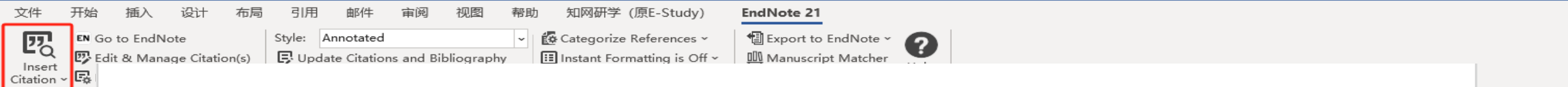
Publisher: Atlantis Press 2015 Pages: 36-39

Water-soluble fluorescent gold nanoparticles have been attracting great attention due to their excellent optical, electronic, catalytic and biological application in recent years. In this paper, recent research progress in the preparation methods such as using small single molecule and macromolecule to synthesize water-soluble fluorescent gold nanoparticles are presented. The applications of water-soluble fluorescent gold nanoparticles are also reviewed in catalysis, detection of metal ions, sensors and biological applications.

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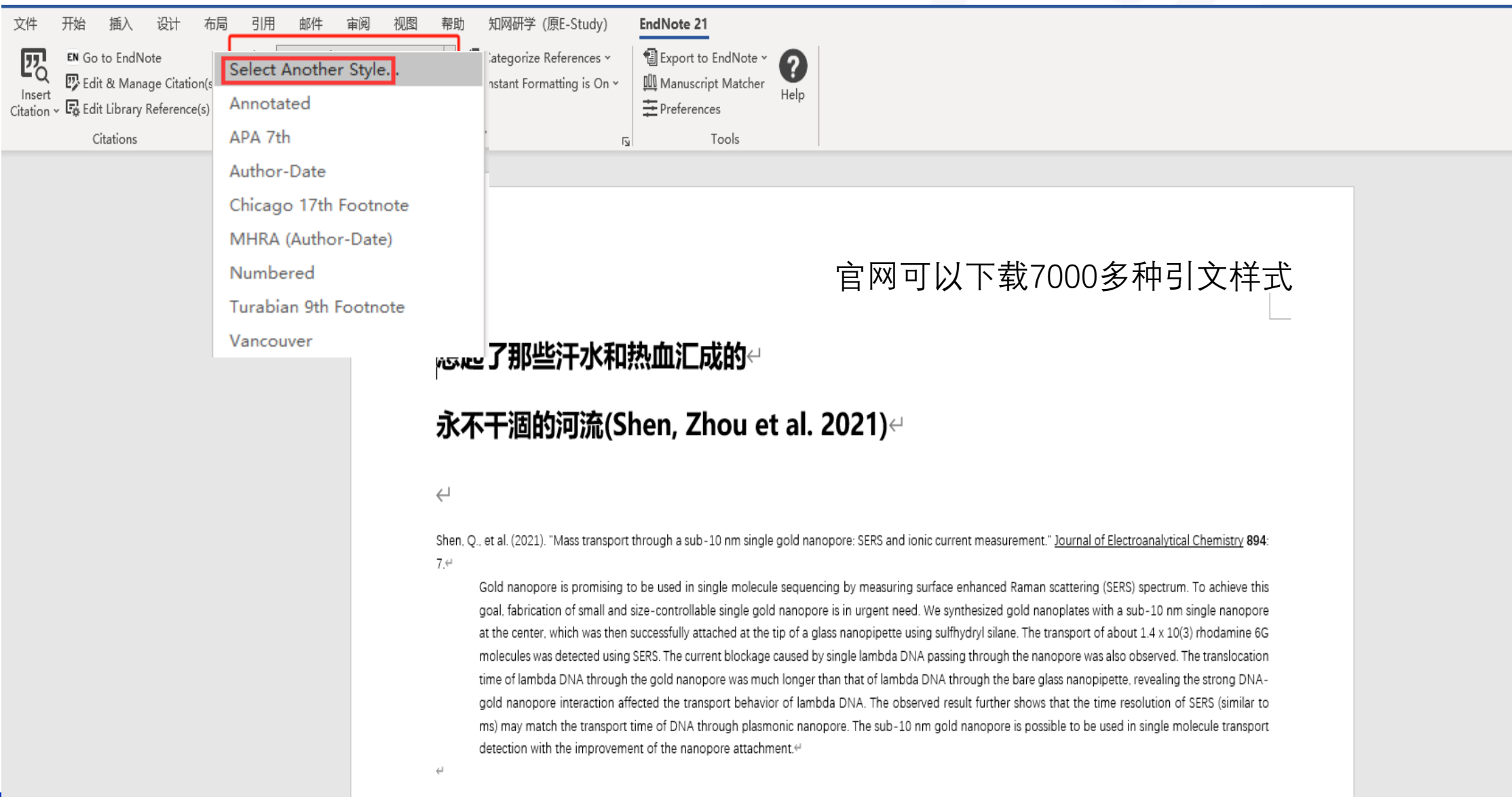
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Shen, Q., et al. (2021). "Mass transport through a sub-10 nm single gold nanopore: SERS and ionic current measurement." *Journal of Electroanalytical Chemistry* 894: 7.←

Gold nanopore is promising to be used in single molecule sequencing by measuring surface enhanced Raman scattering (SERS) spectrum. To achieve this goal, fabrication of small and size-controllable single gold nanopore is in urgent need. We synthesized gold nanoplates with a sub-10 nm single nanopore at the center, which was then successfully attached at the tip of a glass nanopipette using sulfhydryl silane. The transport of about 1.4×10^3 rhodamine 6G molecules was detected using SERS. The current blockage caused by single lambda DNA passing through the nanopore was also observed. The translocation time of lambda DNA through the gold nanopore was much longer than that of lambda DNA through the bare glass nanopipette, revealing the strong DNA-gold nanopore interaction affected the transport behavior of lambda DNA. The observed result further shows that the time resolution of SERS (similar to ms) may match the transport time of DNA through plasmonic nanopore. The sub-10 nm gold nanopore is possible to be used in single molecule transport detection with the improvement of the nanopore attachment.←

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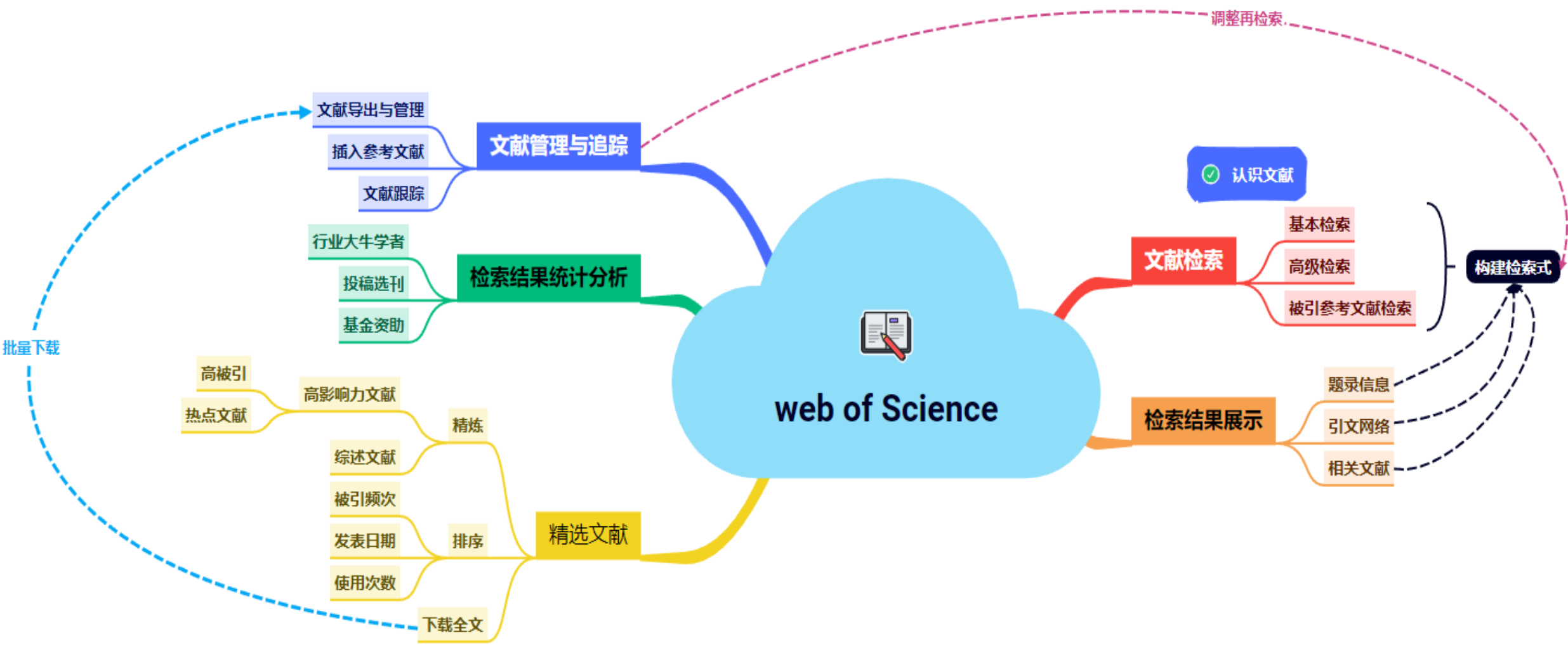
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<input type="checkbox"/> Das, Surajit Kumar	2019	A QUASI EXPERIMENTAL STUDY OF THE TREATMENT OF ACUTE INTERNAL HAEMORRHOIDS WITH MICRONISED FLAVONOIDS AND SCLEROTHERAPY IN A TEACHING HOSPITAL OF TRIPURA Journal of Evolution of Medical and Dental Sciences-Jemds 添加到文献库: 26 Apr 2019 上次更新日期: 23 Oct 2023 在 Web of Science™ 中查看 → 来源文献记录, Related Records, 被引频次: 0	全文	



6

Subtitle six

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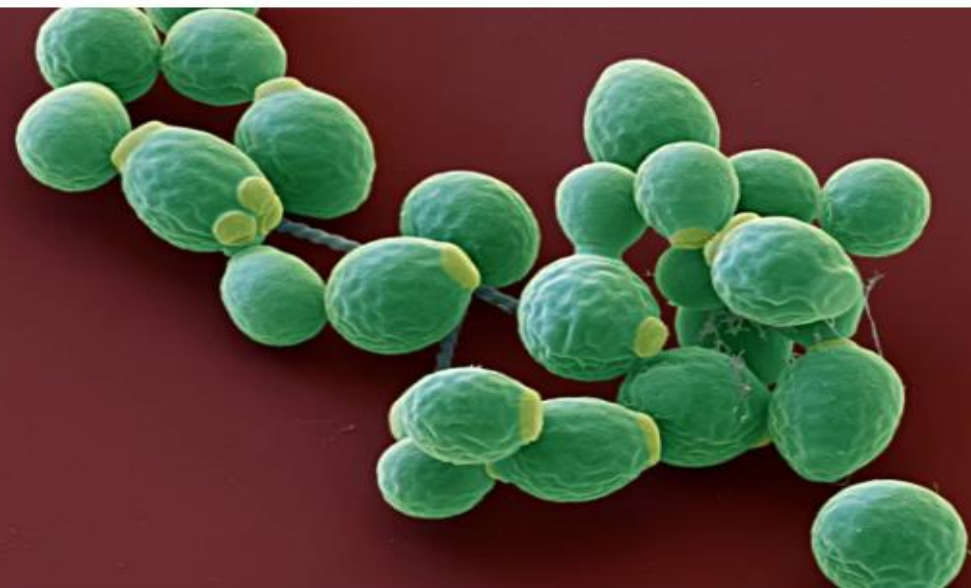
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An overabundant 'mycobiota' might be involved in triggering harmful immune responses.



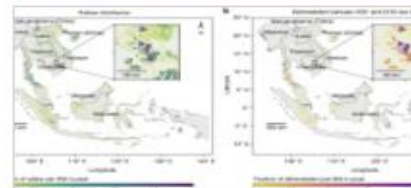
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'Human challenge' results suggest that such trials could be used to test vaccines when Zika incidence is low.



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Satellite data used to generate high-resolution maps across Southeast Asia show that rubber-related deforestation is at least twofold to threefold higher than suggested by



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<input type="checkbox"/> CANADIAN JOURNAL OF AGRICULTURAL ECONOMICS-REVUE CANADIENNE D AGROECONOMIE	0008-3976	1744-7976	AGRICULTURAL ECONOMICS & POLICY - SCIE	1,456	9.0	Q1	2.77	7.22 %
<input type="checkbox"/> FOOD POLICY	0306-9192	1873-5657	AGRICULTURAL ECONOMICS & POLICY - SCIE	10,574	6.5	Q1	1.84	42.55 %
<input type="checkbox"/> Applied Economic Perspectives and Policy	2040-5790	2040-5804	AGRICULTURAL ECONOMICS & POLICY - SCIE	2,389	5.8	Q1	1.82	20.94 %
<input type="checkbox"/> Annual Review of Resource Economics	1941-1340	1941-1359	AGRICULTURAL ECONOMICS & POLICY - SCIE	1,665	5.8	Q1	1.69	9.09 %
<input type="checkbox"/> China Agricultural Economic Review	1756-137X	1756-1388	AGRICULTURAL ECONOMICS & POLICY - SCIE	1,613	5.1	Q1	1.47	2.80 %
<input type="checkbox"/> AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS	0002-9092	1467-8276	AGRICULTURAL ECONOMICS & POLICY - SCIE	10,052	4.2	Q2	1.60	20.81 %
<input type="checkbox"/> AGRICULTURAL ECONOMICS	0169-5150	1574-0862	AGRICULTURAL ECONOMICS & POLICY - SCIE	5,467	4.1	Q2	1.05	30.00 %
<input type="checkbox"/> AQUACULTURE ECONOMICS & MANAGEMENT	1365-7305	1551-8663	AGRICULTURAL ECONOMICS & POLICY - SCIE	1,126	3.9	Q2	1.36	16.13 %

3 ESI辅助确定研究前沿

Indicators



Top Papers by Research Fronts

Results List
Research Fronts

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Map View by Top / Hot / Highly Cited Papers Hide Visualization

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Total: 539	Research Fronts	Top Papers	Meal Year
1	MULTIFUNCTIONAL FOOD PACKAGING FILMS BASED; PH-SENSITIVE (HALOCHROMIC) SMART PACKAGING FILMS BASED; INTELLIGENT PACKAGING FILMS BASED; PH-RESPONSIVE COLOR INDICATOR FILMS BASED; SMART PACKAGING FILMS BASED	44	2
2	VITAMIN D DEFICIENCY AGGRAVATES COVID-19; VITAMIN D SUPPLEMENTATION COULD REDUCE RISK; HIGH-DOSE VITAMIN D SUPPLEMENTATION; STANDARD-DOSE VITAMIN D SUPPLEMENTATION; VITAMIN D SUPPLEMENTATION	41	
3	ORGANIC POULTRY FEED; BIOLOGICAL CURCUMIN NANOPARTICLES; POULTRY FEED; BIOLOGICAL SELENIUM NANOPARTICLES; ORGANIC POULTRY PRODUCTION	31	2

3 研究前沿报告



《2022研究前沿》报告

报告遴选展示了110个热点前沿和55个新兴前沿，涵盖自然科学和社会科学的11大学科领域2022年12月27日

2022 研究前沿 RESEARCH FRONTS

《2022研究前沿热度指数》

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2022 研究前沿热度指数

《2022研究前沿》报告英文版 (2022 Research Fronts)

报告遴选展示了110个热点前沿和55个新兴前沿，涵盖自然科学和社会科学的11大学科领域2022年12月27日

2022 RESEARCH FRONTS

《2022研究前沿热度指数》英文版 (Active Fields, Leading Countries)

报告遴选展示了110个热点前沿和55个新兴前沿，涵盖自然科学和社会科学的11大学科领域2022年12月27日

2022 Research Fronts: Active Fields, Leading Countries

2022年12月27日 —— 科睿唯安与中国科学院今天联合发布《2022研究前沿》报告，遴选和展示了11大学科领域中的110个热点前沿和55个新兴前沿。今年是双方连续第九年携手发布《研究前沿》系列报告。

《2022研究前沿》以科睿唯安Essential Science Indicators™ (ESI) 数据库中的12610个研究前沿为起点。今年的报告基于2016-2021年的论文数据分析。在今天的报告中，研究人员还对32个重点研究前沿和1个前沿群进行了详细解读。

在今年报告遴选出的众多热点前沿和新兴前沿中，与去年相同有超过三分之一的研究前沿与新冠有关，如在报告中重点解读的新兴前沿群——“COVID-19疫苗副作用和对突变株有效性”。一些研究前沿与近年获得诺贝尔奖的研究领域息息相关，如重点解读的新兴前沿——“GW190814 引力波事件中2.6 倍太阳质量天体的性质研究”。

在《研究前沿》报告中，定义一个被称作研究前沿的专业领域的方法，源自于科学研究之间存在的某种特定的共性。这种共性可能来自于实验数据，也可能来自于研究方法，或者概念和假设，并反映在研究人员在论文中引用其他同行的工作这一学术行为之中。通过持续跟踪全球最重要的科研和学术论文，研究分析论文被引用的模式和聚类，特别是成簇的高被引论文频繁地共同被引用的情况，可以发现研究前沿。当一族高被引论文共同被引用的情形达到一定的活跃度和连贯性时，就形成一个研究前沿。

研究前沿的分析提供了一个独特的视角来揭示科学研究的脉络。研究前沿的分析不依赖于对文献的人工标引和分类，而是基于研究人员的相互引用而形成的知识之间和人之间的联络。通过对该

1. 热点前沿及重点热点前沿解读

1.1 农业科学、植物学和动物学领域 Top 10 热点前沿发展态势

农业科学、植物学和动物学领域位列前十的热点前沿（表1）主要分布在食品科学与工程、植物基因组、植物抗性机理和动物疫病传播研究等四个子领域。其中，食品科学与工程领域热点前沿数量最多，有4个，分别研究油凝胶对食品脂肪的替代、乳酸发酵在新型果蔬功能饮料中的应用、用于肉类新鲜度监测的智能 pH 传感包装膜及3D 打印食品。植物基因组子领域有3个热点前沿，分别是茶树基因组研究、植物泛基因组研究与应用、新一代植物基因组编辑系统研究。植物抗性机理子领域有2个热点前沿，分别是硫化氢在调控植物适应非生物胁迫中的作用，以及植

物 NLR（核苷酸结合富含亮氨酸重复序列）免疫受体在免疫调控中的作用。动物疫病传播子领域有1个热点前沿，研究新型冠状病毒对家养动物的感染及其传播。

与往年相比，上述四个子领域均有多个研究主题多次入选 Top 10 热点前沿。植物基因组子领域中，植物泛基因组研究在2021年入选，2022年又取得了新进展，更强调其应用。同样地，植物基因组编辑也在2018年、2021年入选，每年都有新进展。这表明两项研究主题处于蓬勃发展阶段，突破性成果不断涌现。动物疫病传播子领域近两年也持续出现热点，去年入选的是猪圆环病毒3型研究，

2022年入选的是新型冠状病毒的感染与传播。植物抗性机理研究子领域一直以来都是热点研究领域，在不同方向上不断产出新成果，2013年以来相继入选的热点前沿依次有：植物病原卵菌 RXLR 效应蛋白与植物免疫力的下降（2013年）、植物天然免疫的分子诱导机制（2015年）、植物先天免疫机制（2016年）、调控植物生长和防御的茉莉酸信号传导机制（2019年）及植物抗逆的系统信号传导（2021年）等。在食品科学与工

程子领域，2016年以来不断有相关热点前沿入选 Top 10，包括食品检测、食品污染防控、食品功能包装膜及果蔬食品加工等。

表1 农业科学、植物学和动物学领域 Top 10 热点前沿

排名	热点前沿	核心论文数	被引频次	核心论文群引出年度
1	新型冠状病毒对家养动物的感染及其传播	41	5819	2020.4
2	硫化氢在调控植物适应非生物胁迫中的作用	34	1267	2019.9
3	油凝胶在食品脂肪替代中的应用研究	25	1518	2019.4
4	乳酸发酵在新型果蔬功能饮料开发中的应用	15	1369	2019.3
5	茶树基因组研究及功能基因分析	16	1187	2019.3
6	植物 NLR (核苷酸结合富含亮氨酸重复序列) 免疫受体在免疫调控中的作用	41	2975	2019.2
7	新一代植物基因组编辑系统 CRISPR/Cpf1	19	1217	2019.2
8	植物泛基因组研究与应用	18	1925	2019.1
9	用于肉类新鲜度监测的基于植物抗氧化物的智能 pH 传感包装膜	34	2475	2019
10	3D 打印食品研究	24	1837	2019

研究前沿 2022 >>>



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