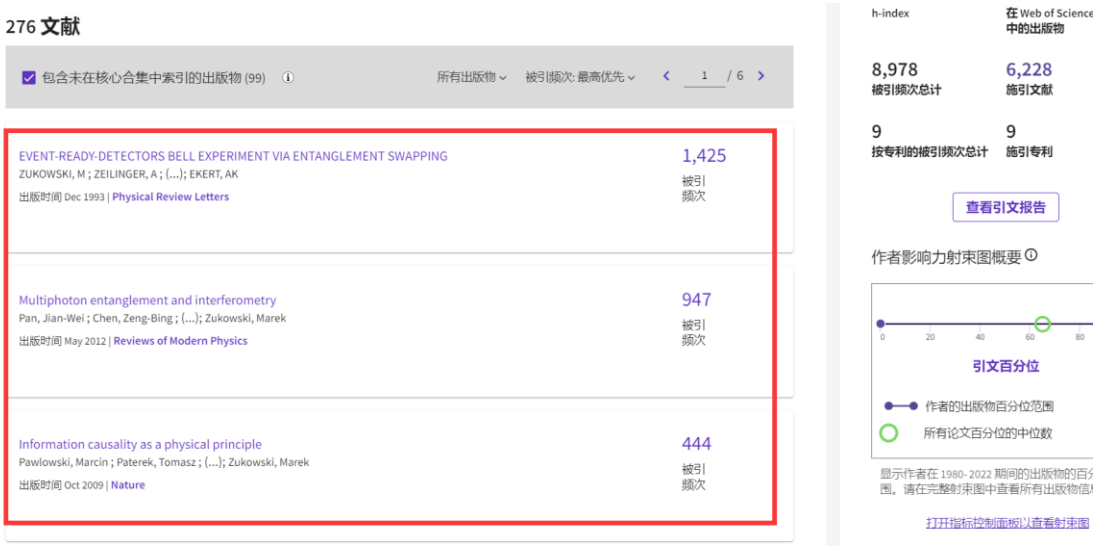
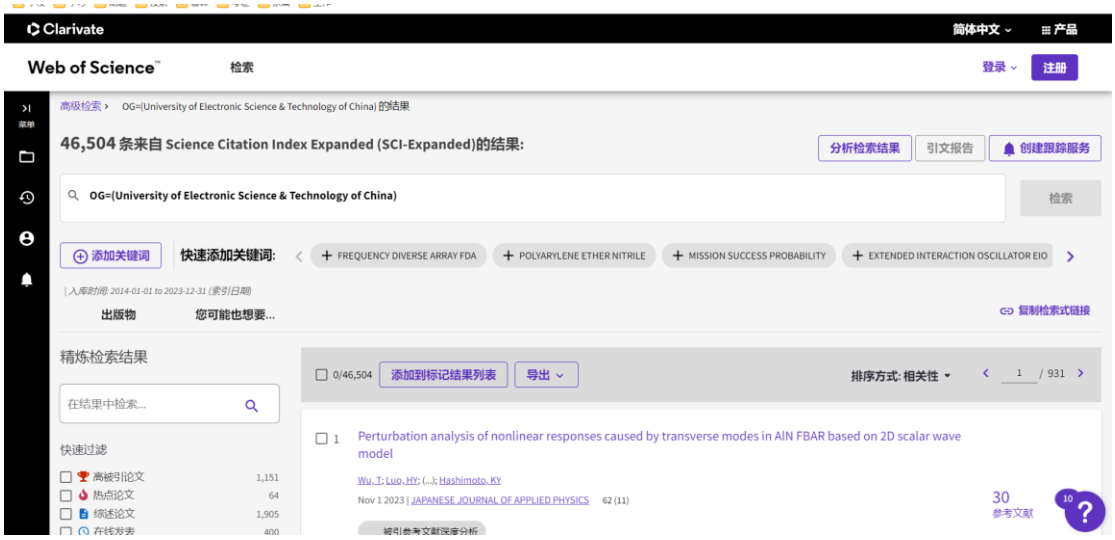
第 1 题

选取被引次数最高的三篇文章作为代表作：



第 2 题

检索结果：



第 3 题

我选择的题目是：Wireless Sensor Networks Time Sychronization（无线传感器时间同步）

插入的参考文献如下：[1-10]

References:

[1]. Hong, Y.W. and A. Scaglione, A scalable synchronization protocol for large scale sensor networks and its applications. IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, 2005. 23(5): p. 1085-1099.

[2]. Wu, Y.C., Q. Chaudhari and E. Serpedin, Clock Synchronization of Wireless Sensor Networks.

IEEE SIGNAL PROCESSING MAGAZINE, 2011. 28(1): p. 124-138.
[3]. Simeone, O., et al., Distributed synchronization in wireless networks. IEEE SIGNAL PROCESSING MAGAZINE, 2008. 25(5): p. 81-97.
[4]. Elson, J., et al., Fine-grained network time synchronization using reference broadcasts, in USENIX ASSOCIATION PROCEEDINGS OF THE FIFTH SYMPOSIUM ON OPERATING SYSTEMS DESIGN AND IMPLEMENTATION. 2002: 5th Symposium on Operation Systems Design and Implementation (OSDI 02). p. 147-163.
[5]. Chen, C., D.X. Wang and L.G. Xiao, Genetic Based Time Synchronization Optimize Algorithm for Wireless Sensor Networks, in PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON LOGISTICS, ENGINEERING, MANAGEMENT AND COMPUTER SCIENCE, Z. Zhixian, C. Guiran and L. Zhen, Z. Zhixian, C. Guiran and L. Zhen^Editors. 2014: International Conference on Logistics Engineering, Management and Computer Science (LEMCS). p. 1-4.
[6]. Sichitiu, M.L., et al., Simple accurate time synchronization for wireless sensor networks, in WCNC 2003: IEEE WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE RECORD, VOLS 1-3. 2003: IEEE Wireless Communications and Networking Conference. p. 1266-1273.
[7]. Sivrikaya, F. and B. Yener, Time synchronization in sensor networks: A survey. IEEE NETWORK, 2004. 18(4): p. 45-50.
[8]. He, J.P., et al., Time Synchronization in WSNs: A Maximum-Value-Based Consensus Approach. IEEE TRANSACTIONS ON AUTOMATIC CONTROL, 2014. 59(3): p. 660-675.
[9]. Su, W.L. and I.F. Akyildiz, Time-diffusion synchronization protocol for wireless sensor networks. IEEE-ACM TRANSACTIONS ON NETWORKING, 2005. 13(2): p. 384-397.
[10]. Elson, J. and K. Römer, Wireless sensor networks:: A new regime for time synchronization. ACM SIGCOMM COMPUTER COMMUNICATION REVIEW, 2003. 33(1): p. 149-154.

第 4 题

我选择的题目是：Wireless Sensor Networks Time Sychronization（无线传感器时间同步）

What are the research directions of core patents in the field of Wireless Sensor Networks Time Sychronization

Summary

Based on the query about the research directions of core patents in the field of Wireless Sensor Networks Time Synchronization, the abstracts provide relevant insights to address this topic.

* **Scientometric analysis of sensor research and patents** reveals that new directions in sensor research are driving technological trajectories of wireless sensor networks [1] .
* The **core technologies** in wireless sensor networks include power consumption, monitoring applications, routing, data transmission, and sensor nodes [2] .
* A study on **IoT patents** identifies trends and clusters, providing insights into technological paths and trends in IoT [3] .
* **Patent analysis of 5G technology** offers an understanding of development trends, technical hot spots, and leading players in the 5G domain [4] .
* **Technology management methods** have been developed to detect important technologies in the industry by analyzing massive numbers of documents, including patents [5] .

Therefore, the research directions of core patents in the field of Wireless Sensor Networks Time Synchronization can be inferred from the insights provided in the abstracts. These include the development of new sensor technologies driving technological trajectories, core technologies in wireless sensor networks, trends and clusters in IoT patents, analysis of 5G technology patents, and technology management methods for analyzing patents [1] [2] [3] [4] [5] .

Experimental quantum teleportation
Bouwmeester, D ; Pan, JW ; (...); Zeilinger, A
Published Dec 1997 | Nature
4,076 Times Cited

Entanglement of the orbital angular momentum states of photons
Mair, A ; Vaziri, A ; (...); Zeilinger, A
Published Jul 2001 | Nature
2,470 Times Cited

NEW HIGH-INTENSITY SOURCE OF POLARIZATION-ENTANGLED PHOTON PAIRS
KWIAT, PG ; MATTLE, K ; (...); SHIH, YH
Published Dec 1995 | Physical Review Letters
2,392 Times Cited