**Hệ thống cảnh báo sớm giảm thiệt hại do thiên tai**

Do ảnh hưởng của biến đổi khí hậu, thiên tai diễn ra ngày càng bất thường, khốc liệt và không theo quy luật. Để chủ động phòng, chống có hiệu quả thì việc dự báo sớm được các hình thái diễn biến của thiên tai có ý nghĩa rất quan trọng để giảm đến mức thấp nhất thiệt hại có thể xảy ra

Để hiểu rõ hơn Cục Thông tin KH&CN quốc gia xin giới thiệu một số bài nghiên cứu đã được xuất bản chính thức và các bài viết được chấp nhận đăng trên những cơ sở dữ liệu học thuật chính thống.

**1. Sciencedirect**

1. Using the meteorological early warning model to improve the prediction accuracy of water damage geological disasters around pipelines in mountainous areas  
Science of The Total Environment 18 May 2023 Volume 889 (Cover date: 1 September 2023) Article 164334  
Bingyuan Hong, Bowen Shao, Baikang Zhu  
<https://www.sciencedirect.com/science/article/pii/S0048969723029558/pdfft?md5=8b873b062fcd03fa92afc2349a63fdef&pid=1-s2.0-S0048969723029558-main.pdf>

2. ICT for public awareness culture on hydrometeorological disaster  
International Journal of Disaster Risk Reduction 15 April 2023 Volume 92 (Cover date: 15 June 2023) Article 103690  
Dina Ruslanjari, Elok Wuri Safitri, Cahyadi Ramadhan  
<https://www.sciencedirect.com/science/article/pii/S221242092300170X/pdfft?md5=e7650a0fc8f7d67ce148fb2f8a317ff0&pid=1-s2.0-S221242092300170X-main.pdf>

3. Assessing the effectiveness of existing early warning systems and emergency preparedness towards reducing cyclone-induced losses in the Sundarban Biosphere Region, India  
International Journal of Disaster Risk Reduction 17 March 2023 Volume 90 (Cover date: May 2023) Article 103645  
Mehebub Sahana, Priyank Pravin Patel, Haroon Sajjad  
<https://www.sciencedirect.com/science/article/pii/S2212420923001255/pdfft?md5=e3e546137225af2d708191de1bbe8909&pid=1-s2.0-S2212420923001255-main.pdf>

4. Risk preference, interlinked credit and insurance contract and agricultural innovative technology adoption  
Journal of Innovation & Knowledge 5 December 2022 Volume 8, Issue 1 (Cover date: January–March 2023) Article 100282  
Haixia Wu, Jianping Li  
<https://www.sciencedirect.com/science/article/pii/S2444569X22001172/pdfft?md5=e14e3ab2faa660aa96c33a20bdab98d0&pid=1-s2.0-S2444569X22001172-main.pdf>

5. Downscaling of GPM satellite precipitation products based on machine learning method in complex terrain and limited observation area  
Advances in Space Research Available online 7 June 2023 In press, corrected proof  
Hao Wang, Zhi Li, Jie Xiang  
<https://www.sciencedirect.com/science/article/pii/S0273117723004283/pdfft?md5=f31f84d3f08d067bd7cee6c58d605fdb&pid=1-s2.0-S0273117723004283-main.pdf>

6. Evaluation of Tianji and ECMWF high-resolution precipitation forecasts for extreme rainfall event in Henan in July 2021  
Water Science and Engineering 14 November 2022 Volume 16, Issue 2 (Cover date: June 2023) Pages 122-131  
Wen-tao Li, Jia-peng Zhang, Qingyun Duan  
<https://www.sciencedirect.com/science/article/pii/S1674237022000904/pdfft?md5=360182ddc73fe326a78a7f1713f3b314&pid=1-s2.0-S1674237022000904-main.pdf>

7. Regional forecasting of significant wave height and mean wave period using EOF-EEMD-SCINet hybrid model  
Applied Ocean Research 10 May 2023 Volume 136 (Cover date: July 2023) Article 103582  
Jie Ding, Fangyu Deng, Jichao Wang  
<https://www.sciencedirect.com/science/article/pii/S0141118723001232/pdfft?md5=796ad01809d67088a42c04dfc7174319&pid=1-s2.0-S0141118723001232-main.pdf>

8. A deep learning method for real-time bias correction of wind field forecasts in the Western North Pacific  
Atmospheric Research 22 December 2022 Volume 284 (Cover date: 15 March 2023) Article 106586  
Wei Zhang, Yueyue Jiang, Hui Yu  
<https://www.sciencedirect.com/science/article/pii/S0169809522005725/pdfft?md5=db08c7e6350a62ba577c438bc63b7fd4&pid=1-s2.0-S0169809522005725-main.pdf>

9. Impact of extreme climates on land surface phenology in Central Asia  
Ecological Indicators 27 December 2022 Volume 146 (Cover date: February 2023) Article 109832  
Lizhou Wu, Chengyi Zhao, Jianting Zhu  
<https://www.sciencedirect.com/science/article/pii/S1470160X2201305X/pdfft?md5=9cb3204b8e7c09a77e22d847a60d368a&pid=1-s2.0-S1470160X2201305X-main.pdf>

10. Response of ecosystem gross primary productivity to drought in northern China based on multi-source remote sensing data  
Journal of Hydrology 26 November 2022 Volume 616 (Cover date: January 2023) Article 128808  
Ting Zhang, Junzhi Zhou, Bo Zhang  
<https://www.sciencedirect.com/science/article/pii/S0022169422013786/pdfft?md5=97dafd72564a753823b58205cc786f88&pid=1-s2.0-S0022169422013786-main.pdf>

11. Coalbed methane concentration prediction and early-warning in fully mechanized mining face based on deep learning  
Energy 26 November 2022 Volume 264 (Cover date: 1 February 2023) Article 126208  
Hu Wen, Li Yan, Jun Deng  
<https://www.sciencedirect.com/science/article/pii/S0360544222030948/pdfft?md5=c261e0fd68d25d4c0db638b59b1fec6c&pid=1-s2.0-S0360544222030948-main.pdf>

12. Risk perception and travel behavior under short-lead evacuation: Post disaster analysis of 2020 Beirut Port Explosion  
International Journal of Disaster Risk Reduction 4 March 2023 Volume 89 (Cover date: 15 April 2023) Article 103603  
Ghina Tahesh, Harith Abdulsattar, Chen Chen  
<https://www.sciencedirect.com/science/article/pii/S2212420923000833/pdfft?md5=2ba116f2fc48230266f1ca30f535f592&pid=1-s2.0-S2212420923000833-main.pdf>

13. Integrated disaster management experience of people with disabilities: A phenomenological research on the experience of people with orthopedic disabilities in Türkiye  
International Journal of Disaster Risk Reduction 24 February 2023 Volume 88 (Cover date: 1 April 2023) Article 103611  
Sevda Demiröz Yıldırım  
<https://www.sciencedirect.com/science/article/pii/S2212420923000912/pdfft?md5=d44de154f65eac2ca4a5f0b44838c61a&pid=1-s2.0-S2212420923000912-main.pdf>

14. Identification and early warning method of key disaster-causing factors of AE signals for red sandstone by principal component analysis method  
Ain Shams Engineering Journal 23 February 2023 Volume 14, Issue 10 (Cover date: October 2023) Article 102205  
Ansen Gao, Chengzhi Qi, Gevorg G. Kocharyan  
<https://www.sciencedirect.com/science/article/pii/S2090447923000941/pdfft?md5=d371aeddee5f3a29cb4f4e9ace7e3a13&pid=1-s2.0-S2090447923000941-main.pdf>

15. Future drought risks in the Yellow River Basin and suggestions for targeted response  
International Journal of Disaster Risk Reduction 22 May 2023 Volume 93 (Cover date: July 2023) Article 103764  
Haoyu Deng, Yunhe Yin, Mijia Yin  
<https://www.sciencedirect.com/science/article/pii/S2212420923002443/pdfft?md5=738facaf2fff7e39aea62f828eafea6d&pid=1-s2.0-S2212420923002443-main.pdf>

16. Evaluation of mechanical and electrical properties of a new sensor-enabled piezoelectric geocable for landslide monitoring  
Measurement 1 March 2023 Volume 211 (Cover date: April 2023) Article 112667  
Zhiming Liu, Guojun Cai, Heng Zhuang  
<https://www.sciencedirect.com/science/article/pii/S0263224123002312/pdfft?md5=bb7ab845de57f773781779a693ae45d5&pid=1-s2.0-S0263224123002312-main.pdf>

17. Preparedness nudging for warning apps? A mixed-method study investigating popularity and effects of preparedness alerts in warning apps  
International Journal of Human-Computer Studies 5 January 2023 Volume 172 (Cover date: April 2023) Article 102995  
Jasmin Haunschild, Selina Pauli, Christian Reuter  
<https://www.sciencedirect.com/science/article/pii/S1071581923000010/pdfft?md5=80d19a54e9a88bd98d302e890106702b&pid=1-s2.0-S1071581923000010-main.pdf>

18. Flash floods and landslides in the city of Recife, Northeast Brazil after heavy rain on May 25–28, 2022: Causes, impacts, and disaster preparedness  
Weather and Climate Extremes 2 January 2023 Volume 39 (Cover date: March 2023) Article 100545  
J. A. Marengo, E. Alcantara, O. L. Moraes  
<https://www.sciencedirect.com/science/article/pii/S2212094722001244/pdfft?md5=ab945ba8b1cbe4ad528c9f72ab37764c&pid=1-s2.0-S2212094722001244-main.pdf>

19. Microseismic monitoring and forecasting of dynamic disasters in underground hydropower projects in southwest China: A review  
Journal of Rock Mechanics and Geotechnical Engineering 5 January 2023 Volume 15, Issue 8 (Cover date: August 2023) Pages 2158-2177  
Biao Li, Nuwen Xu, Xingguo Yang  
<https://www.sciencedirect.com/science/article/pii/S167477552300001X/pdfft?md5=8611f7aa22bd5489c00e38346ccf34cc&pid=1-s2.0-S167477552300001X-main.pdf>

20. An impact-based forecast system developed for hydrometeorological hazards  
International Journal of Disaster Risk Reduction 14 June 2023 Volume 93 (Cover date: July 2023) Article 103803  
Osvaldo Luiz Leal de Moraes  
<https://www.sciencedirect.com/science/article/pii/S2212420923002832/pdfft?md5=357b509402451cd0b27c78beaebf7e38&pid=1-s2.0-S2212420923002832-main.pdf>

21. The relation of regional earthquakes to an intraplate volcano in the northern Hainan Island, China from magnetotelluric imaging  
Tectonophysics 4 July 2023 Volume 862 (Cover date: 5 September 2023) Article 229981  
Ying Liu, Aifei Bian, Chao Chen  
<https://www.sciencedirect.com/science/article/pii/S0040195123002792/pdfft?md5=f17db618227e0cc918d008c0472abd44&pid=1-s2.0-S0040195123002792-main.pdf>

22. Response of acoustic emission and vibration monitoring data during rock block collapse in the tunnel: Small- and large-scale experiments study  
Tunnelling and Underground Space Technology 5 April 2023 Volume 137 (Cover date: July 2023) Article 105121  
Jie Hu, Haolan Pan, Qingchen Liu  
<https://www.sciencedirect.com/science/article/pii/S0886779823001414/pdfft?md5=a46ad9dd5269b80cfc3b1b728a463397&pid=1-s2.0-S0886779823001414-main.pdf>

23. Quantification of model uncertainty and variability for landslide displacement prediction based on Monte Carlo simulation  
Gondwana Research Available online 7 March 2023 In press, corrected proof  
Luqi Wang, Ting Xiao, Lichuan Chen  
<https://www.sciencedirect.com/science/article/pii/S1342937X23000801/pdfft?md5=10f10fec2a646d9507cec54e3b4040ec&pid=1-s2.0-S1342937X23000801-main.pdf>

24. Infrared radiation denoising model of “sub-region-Gaussian kernel function” in the process of sandstone loading and fracture  
Infrared Physics & Technology 1 February 2023 Volume 129 (Cover date: March 2023) Article 104583  
Kewang Cao, Furong Dong, Dongdong Niu  
<https://www.sciencedirect.com/science/article/pii/S1350449523000415/pdfft?md5=cbac9bd6d8239fbc0e623b7026377045&pid=1-s2.0-S1350449523000415-main.pdf>

25. Proposing a metric to evaluate early warning system applicable to hydrometeorological disasters in Brazil  
International Journal of Disaster Risk Reduction 4 February 2023 Volume 87 (Cover date: March 2023) Article 103579  
Osvaldo Luiz Leal de Moraes  
<https://www.sciencedirect.com/science/article/pii/S2212420923000596/pdfft?md5=ec77658bcb5adb7fd3cd93ae0a97d342&pid=1-s2.0-S2212420923000596-main.pdf>

26. Damage evolution of rock containing prefabricated cracks based on infrared radiation and energy dissipation  
Theoretical and Applied Fracture Mechanics 10 March 2023 Volume 125 (Cover date: June 2023) Article 103853  
Bo Li, Yizheng He, Yapeng Zhang  
<https://www.sciencedirect.com/science/article/pii/S0167844223001052/pdfft?md5=713b46785ee1db1152b31b768b2b75af&pid=1-s2.0-S0167844223001052-main.pdf>

27. Earthquake disaster preparedness training programme for hearing-impaired children: a randomized quasi-experimental trial  
International Journal of Disaster Risk Reduction 25 April 2023 Volume 92 (Cover date: 15 June 2023) Article 103716  
Liang Wang, Li Gao, Xianqiong Feng  
<https://www.sciencedirect.com/science/article/pii/S2212420923001966/pdfft?md5=9bdc85347bec69caaf7f9b0c1c605f35&pid=1-s2.0-S2212420923001966-main.pdf>

28. An introduction to “Application of Novel High-Tech Methods to Geological Hazard Research”  
Natural Hazards Research 13 May 2023 Volume 3, Issue 2 (Cover date: June 2023) Pages 353-357  
Chong Xu  
<https://www.sciencedirect.com/science/article/pii/S2666592123000483/pdfft?md5=3ab2dbf51004bb2c257c83a5e8234354&pid=1-s2.0-S2666592123000483-main.pdf>

29. AdaBoost-driven multi-parameter real-time warning of rock burst risk in coal mines  
Engineering Applications of Artificial Intelligence 4 July 2023 Volume 125 (Cover date: October 2023) Article 106591  
Rui Wang, Shaojie Chen, Tongbin Zhao  
<https://www.sciencedirect.com/science/article/pii/S0952197623007753/pdfft?md5=419f655ead7083f206aeb77bd62e1815&pid=1-s2.0-S0952197623007753-main.pdf>

30. Disparity between evacuation intention and actual evacuation behavior during a heavy rain induced disaster event in Japan: Exploring the role of everyday awareness of disaster preparedness  
International Journal of Disaster Risk Reduction 28 April 2023 Volume 92 (Cover date: 15 June 2023) Article 103729  
Tsuyoshi Hatori, Ryo Moriwaki, Keiichi Shingu  
<https://www.sciencedirect.com/science/article/pii/S2212420923002091/pdfft?md5=8fa7921d275e0052bd16115d08b9c390&pid=1-s2.0-S2212420923002091-main.pdf>

31. Improving flood early warning systems in Kabbe, Namibia: A situational analysis approach  
International Journal of Disaster Risk Reduction 22 May 2023 Volume 93 (Cover date: July 2023) Article 103765  
Deolfa Jose Moises, Olivia Kunguma  
<https://www.sciencedirect.com/science/article/pii/S2212420923002455/pdfft?md5=a406179f2967f5fa987446f5de9aa6f4&pid=1-s2.0-S2212420923002455-main.pdf>

32. Interactions between disaster risk reduction and intangible culture among indigenous communities in Benguet, Philippines  
International Journal of Disaster Risk Reduction 14 June 2023 Volume 94 (Cover date: August 2023) Article 103801  
Abner Lawangen, Jessica Kate Roberts  
<https://www.sciencedirect.com/science/article/pii/S2212420923002819/pdfft?md5=0e4ffa01c5b2dd9d7e16d6184bf86313&pid=1-s2.0-S2212420923002819-main.pdf>

33. Making peace with disaster: A study of earthquake disaster communication through manuscripts and oral traditions  
Progress in Disaster Science April 2023 Volume 18 Article 100287  
Fakhriati Fakhriati, Daratullaila Nasri, Kustini Kustini  
<https://www.sciencedirect.com/science/article/pii/S2590061723000145/pdfft?md5=98925f33546568e0598304152b1c94bb&pid=1-s2.0-S2590061723000145-main.pdf>

34. Mechanical strain signal based early warning for failure of different prismatic lithium-ion batteries  
Journal of Power Sources 8 July 2023 Volume 580 (Cover date: 1 October 2023) Article 233397  
Siqi Chen, Xuezhe Wei, Minggao Ouyang  
<https://www.sciencedirect.com/science/article/pii/S0378775323007735/pdfft?md5=af6ef9ccf78456ea7f8219a931eef46d&pid=1-s2.0-S0378775323007735-main.pdf>

35. Disaster mortalities and the Sendai Framework Target A: Insights from Zimbabwe  
World Development 24 January 2023 Volume 165 (Cover date: May 2023) Article 106196  
Emmanuel Mavhura, Komal Raj Aryal  
<https://www.sciencedirect.com/science/article/pii/S0305750X23000141/pdfft?md5=a0e42434e607aad4c7a0908ed75bbd03&pid=1-s2.0-S0305750X23000141-main.pdf>

36. Thinking beyond ‘outbreak’: The contentious politics of the science of early warning and overdose epidemic  
International Journal of Drug Policy 17 June 2023 Volume 118 (Cover date: August 2023) Article 104083  
Nancy D. Campbell  
<https://www.sciencedirect.com/science/article/pii/S0955395923001317/pdfft?md5=44afe6907e251b339c466de568df1f43&pid=1-s2.0-S0955395923001317-main.pdf>

37. Comprehensive early warning method of microseismic, acoustic emission, and electromagnetic radiation signals of rock burst based on deep learning  
International Journal of Rock Mechanics and Mining Sciences 7 July 2023 Volume 170 (Cover date: October 2023) Article 105519  
Yangyang Di, Enyuan Wang, Jiajie Yao  
<https://www.sciencedirect.com/science/article/pii/S1365160923001934/pdfft?md5=32748947bb0be42f1037d3faf68171e0&pid=1-s2.0-S1365160923001934-main.pdf>

38. Consideration of compound drivers and impacts in the disaster risk reduction cycle  
iScience 25 January 2023 Volume 26, Issue 3 (Cover date: 17 March 2023) Article 106030  
Bart J. J. M. van den Hurk, Christopher J. White, Jakob Zscheischler  
<https://www.sciencedirect.com/science/article/pii/S2589004223001074/pdfft?md5=7e1c7eaef5b12836159b081e99c68567&pid=1-s2.0-S2589004223001074-main.pdf>

39. Components of health system preparedness in disaster risk communication in Iran: A qualitative study  
International Journal of Disaster Risk Reduction 5 December 2022 Volume 84 (Cover date: January 2023) Article 103462  
Arezoo Dehghani, Zohreh Ghomian, Amir Kavousi  
<https://www.sciencedirect.com/science/article/pii/S2212420922006811/pdfft?md5=672a718fdb328a3d329b706c0af995c5&pid=1-s2.0-S2212420922006811-main.pdf>

40. Characteristics and dynamic analysis of the February 2021 long-runout disaster chain triggered by massive rock and ice avalanche at Chamoli, Indian Himalaya  
Journal of Rock Mechanics and Geotechnical Engineering 14 May 2022 Volume 15, Issue 2 (Cover date: February 2023) Pages 296-308  
Tiantian Zhang, Yueping Yin, Kaushal Raj Gnyawali  
<https://www.sciencedirect.com/science/article/pii/S1674775522000956/pdfft?md5=095d1221653cf470b439369612a8a10f&pid=1-s2.0-S1674775522000956-main.pdf>

41. Error-correction-based data-driven models for multiple-hour-ahead river stage predictions: A case study of the upstream region of the Cho-Shui River, Taiwan  
Journal of Hydrology: Regional Studies 13 April 2023 Volume 47 (Cover date: June 2023) Article 101378  
Wen-Dar Guo, Wei-Bo Chen, Chih-Hsin Chang  
<https://www.sciencedirect.com/science/article/pii/S2214581823000654/pdfft?md5=bb5efaff0469cad5e46823016728458a&pid=1-s2.0-S2214581823000654-main.pdf>

42. Factors of cyclone disaster deaths in coastal Bangladesh  
Heliyon Available online 20 July 2023 In press, journal pre-proof Article e18417  
Edris Alam  
<https://www.sciencedirect.com/science/article/pii/S2405844023056256/pdfft?md5=0efddb63f69da03799ea32ccd6a5a2a6&pid=1-s2.0-S2405844023056256-main.pdf>

43. Early warning, adaptation to extreme weather, and attenuation of economic losses: Empirical evidence from pastoral China  
International Journal of Disaster Risk Reduction 26 January 2023 Volume 86 (Cover date: 15 February 2023) Article 103563  
Jianjun Tang, Anran Liu, Huanguang Qiu  
<https://www.sciencedirect.com/science/article/pii/S2212420923000432/pdfft?md5=d4eae7df6d3f34be6fd59f0357909269&pid=1-s2.0-S2212420923000432-main.pdf>

44. Transmission line tower failure warning based on FBG strain monitoring and prediction model  
Electric Power Systems Research 27 September 2022 Volume 214, Part A (Cover date: 1 January 2023) Article 108827  
Li Zhang, Jiangjun Ruan, Yongqing Deng  
<https://www.sciencedirect.com/science/article/pii/S037877962200880X/pdfft?md5=130362e3ddb4289a5d9b2a1aabd4b819&pid=1-s2.0-S037877962200880X-main.pdf>

45. High resolution monitoring and probabilistic prediction of meteorological drought in a Mediterranean environment  
Weather and Climate Extremes 24 March 2023 Volume 40 (Cover date: June 2023) Article 100558  
Miguel Ángel Torres-Vázquez, Amar Halifa-Marín, Marco Turco  
<https://www.sciencedirect.com/science/article/pii/S037877962200880X/pdfft?md5=130362e3ddb4289a5d9b2a1aabd4b819&pid=1-s2.0-S037877962200880X-main.pdf>

46. Landslide surface horizontal displacement monitoring based on image recognition technology and computer vision  
Geomorphology 5 April 2023 Volume 431 (Cover date: 15 June 2023) Article 108691  
Wang Xin, Chengzhi Pu, Ke Liu  
<https://www.sciencedirect.com/science/article/pii/S0169555X23001113/pdfft?md5=c38d7a407392cf7f26f5b2782c09c934&pid=1-s2.0-S0169555X23001113-main.pdf>

47. The variation of natural carrying capacity and its research progress adapting to decision-making application in China  
Fundamental Research Available online 20 June 2023 In press, journal pre-proof  
Jie Fan, Jianxiong Wu, Baoyin Liu  
<https://www.sciencedirect.com/science/article/pii/S2667325823001851/pdfft?md5=7361093e7f105fa982bbb1940abad307&pid=1-s2.0-S2667325823001851-main.pdf>

48. Community perspectives to improve flood management and socio-economic impacts of floods at Central Indus River, Pakistan  
International Journal of Disaster Risk Reduction 30 April 2023 Volume 92 (Cover date: 15 June 2023) Article 103718  
Irfan Ashraf, Sajid Rashid Ahmad, Mehreen Khan  
<https://www.sciencedirect.com/science/article/pii/S221242092300198X/pdfft?md5=9118279990c2ce00fcd51006500c90b0&pid=1-s2.0-S221242092300198X-main.pdf>

49. Time of emergence in climate extremes corresponding to Köppen-Geiger classification  
Weather and Climate Extremes 28 June 2023 Volume 41 (Cover date: September 2023) Article 100593  
Meng Zhang, Yanhong Gao  
<https://www.sciencedirect.com/science/article/pii/S2212094723000464/pdfft?md5=3ad6820c25d6f6925bc175a91274abac&pid=1-s2.0-S2212094723000464-main.pdf>

50. Reviewing the multi-hazard concept. Application to volcanic islands  
Earth-Science Reviews 6 December 2022 Volume 236 (Cover date: January 2023) Article 104286  
Marta López-Saavedra, Joan Martí  
<https://www.sciencedirect.com/science/article/pii/S0012825222003701/pdfft?md5=abe2af0595bd54630e20f27f0f41aac1&pid=1-s2.0-S0012825222003701-main.pdf>

51. A context-aware hybrid deep learning model for the prediction of tropical cyclone trajectories  
Expert Systems with Applications 15 June 2023 Volume 231 (Cover date: 30 November 2023) Article 120701  
Sahar Farmanifard, Ali Asghar Alesheikh, Mohammad Sharif  
<https://www.sciencedirect.com/science/article/pii/S0957417423012034/pdfft?md5=a39453624e19dc3679ecf261107d569b&pid=1-s2.0-S0957417423012034-main.pdf>

52. Coastal morphodynamic emulator for early warning short-term forecasts  
Environmental Modelling & Software 17 May 2023 Volume 165 (Cover date: July 2023) Article 105729  
Willian Weber de Melo, José Pinho, Isabel Iglesias  
<https://www.sciencedirect.com/science/article/pii/S1364815223001159/pdfft?md5=40f3075b01872a59b3de07bf35aa5843&pid=1-s2.0-S1364815223001159-main.pdf>

53. Real-time prediction of earthquake potential damage: A case study for the January 8, 2022 MS 6.9 Menyuan earthquake in Qinghai, China  
Earthquake Research Advances 8 December 2022 Volume 3, Issue 1 (Cover date: January 2023) Article 100197  
Jindong Song, Jingbao Zhu, Shanyou Li  
<https://www.sciencedirect.com/science/article/pii/S2772467022000884/pdfft?md5=c1b2e0d4a586db09a7fb7f29a34f9136&pid=1-s2.0-S2772467022000884-main.pdf>

     Nguồn: Cục Thông tin khoa học và công nghệ quốc gia