

基于 ESI 数据库分领域热点论文简报 XVII

ESI 是基于汤森路透 Web of Science (SCIE/SSCI) 所收录的全球 12000 多种学术期刊的 1200 多万条文献记录而建立的计量分析数据库。ESI 针对 22 个专业领域, 通过论文数、论文被引频次、论文篇均被引频次、高影响论文 (高被引论文和热点论文排重后的简单和) 指标, 成为当今世界范围内普遍用以评价高校、学术机构、国家/地区国际学术水平及影响力的重要评价指标工具之一。该数据库基于 10 年内文献数据进行综合分析评价, 每两月更新一次。

热点论文: ESI 数据库统计筛选出在过去两年内发表, 且在近两月内, 被引用的次数进入其学术领域前 0.1% 的论文。

细分领域: 根据 WoS 数据库的领域划分选取了高能所发文比较集中的四个细分领域, “Physics, Particles & Fields”、“Physics, Nuclear”、“Astronomy & Astrophysics”和 “Materials Science, Multidisciplinary”。

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本次简报基于 ESI 于 2023 年 9 月 15 日更新的数据, 热点论文统计范围为 2021 年 7 月-2023 年 6 月发表的论文, 且在 2023 年 5-6 月被引用次数进入该领域前 0.1% 的论文。

论文前的黑圈数字 (如②) 表示该论文在最近 12 期热点论文简报中重复出现的次数

“Physics, Particles & Fields”热点论文 8 篇

1. ⑪ In the realm of the Hubble tension-a review of solutions *. Di Valentino, E, Mena, O, Pan, S et al. CLASSICAL AND QUANTUM GRAVITY, 38 (2021) 153001. Cited: 573.
<http://dx.doi.org/10.1088/1361-6382/ac086d>
2. ⑧ Dark Energy Survey Year 3 results: Cosmological constraints from galaxy clustering and weak lensing. Abbott, TMC, Aguena, M, Alarcon, A et al. PHYSICAL REVIEW D, 105 (2022) 23520. Cited: 110. <http://dx.doi.org/10.1103/PhysRevD.105.023520>
3. ③ Scalar Induced Gravitational Waves Review. Domenech, G UNIVERSE, 7 (2021) 398. Cited: 108. <http://dx.doi.org/10.3390/universe7110398>
4. ⑤ REVIEW OF PARTICLE PHYSICS. Workman, RL, Burkert, VD, Crede, V et al. PROGRESS OF THEORETICAL AND EXPERIMENTAL PHYSICS, 2022 (2022) 083C01. Cited: 97. <http://dx.doi.org/10.1093/ptep/ptac097>
5. ② FLAG Review 2021. Aoki, Y, Blum, T, Colangelo, G et al. EUROPEAN PHYSICAL JOURNAL C, 82 (2022) 869. Cited: 46. <http://dx.doi.org/10.1140/epjc/s10052-022-10536-1>
6. ③ New horizons for fundamental physics with LISA. Arun, KG, Belgacem, E, Benkel, R et al. LIVING REVIEWS IN RELATIVITY, 25 (2022) 4. Cited: 39.
<http://dx.doi.org/10.1007/s41114-022-00036-9>
7. Astrophysics with the Laser Interferometer Space Antenna. Amaro-Seoane, P, Andrews, J, Sedda, MA et al. LIVING REVIEWS IN RELATIVITY, 26 (2023) 2. Cited: 32.
<http://dx.doi.org/10.1007/s41114-022-00041-y>
8. Alleviating both H-0 and S-8 tensions: Early dark energy lifts the CMB-lockdown on ultralight axion. Ye, G, Zhang, J, Piao, YS et al. PHYSICS LETTERS B, 839 (2023) 137770. Cited: 8. <http://dx.doi.org/10.1016/j.physletb.2023.1377700370-2693>

“Physics, Nuclear”热点论文 2 篇

1. ⑤ Science Requirements and Detector Concepts for the Electron-Ion Collider. Khalek, RA, Accardi, A, Adam, J et al. NUCLEAR PHYSICS A, 1026 (2022) 122447. Cited: 103. <http://dx.doi.org/10.1016/j.nuclphysa.2022.122447>
2. Alleviating both H-0 and S-8 tensions: Early dark energy lifts the CMB-lockdown on ultralight axion. Ye, G, Zhang, J, Piao, YS et al. PHYSICS LETTERS B, 839 (2023) 137770. Cited: 8. <http://dx.doi.org/10.1016/j.physletb.2023.1377700370-2693>

“Astronomy & Astrophysics”热点论文 35 篇

1. ⑪ In the realm of the Hubble tension—a review of solutions *. Di Valentino, E, Mena, O, Pan, S et al. CLASSICAL AND QUANTUM GRAVITY, 38 (2021) 153001. Cited: 573.
<http://dx.doi.org/10.1088/1361-6382/ac086d>
2. ⑩ A NICER View of the Massive Pulsar PSR J0740+6620 Informed by Radio Timing and XMM-Newton Spectroscopy. Riley, TE, Watts, AL, Ray, PS et al. ASTROPHYSICAL JOURNAL LETTERS, 918 (2021) L27. Cited: 326. <http://dx.doi.org/10.3847/2041-8213/ac0a81>
3. ⑩ The Radius of PSR J0740+6620 from NICER and XMM-Newton Data. Miller, MC, Lamb, FK, Dittmann, AJ et al. ASTROPHYSICAL JOURNAL LETTERS, 918 (2021) L28. Cited: 302. <http://dx.doi.org/10.3847/2041-8213/ac089b>
4. ⑥ A Comprehensive Measurement of the Local Value of the Hubble Constant with 1 km s⁻¹ Mpc⁻¹ Uncertainty from the Hubble Space Telescope and the SH0ES Team. Riess, AG, Yuan, WL, Macri, LM et al. ASTROPHYSICAL JOURNAL LETTERS, 934 (2022) L7. Cited: 271. <http://dx.doi.org/10.3847/2041-8213/ac5c5b>
5. ⑥ First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. Akiyama, K, Alberdi, A, Alef, W et al. ASTROPHYSICAL JOURNAL LETTERS, 930 (2022) L12. Cited: 248.
<http://dx.doi.org/10.3847/2041-8213/ac6674>
6. ③ The Astropy Project: Sustaining and Growing a Community-oriented Open-source Project and the Latest Major Release (v5.0) of the Core Package*. Price-Whelan, AM, Lim, PL, Earl, N et al. ASTROPHYSICAL JOURNAL, 935 (2022) 167. Cited: 247.
<http://dx.doi.org/10.3847/1538-4357/ac7c74>
7. ⑥ The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar, and APOGEE-2 Data. Abdurro'uf, Accetta, K, Aerts, C et al. ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, 259 (2022) 35. Cited: 184.
<http://dx.doi.org/10.3847/1538-4365/ac4414>
8. ⑤ Gaia EDR3 view on galactic globular clusters. Vasiliev, E and Baumgardt, H MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, 505 (2021) . Cited: 166.
<http://dx.doi.org/10.1093/mnras/stab1475>
9. ④ Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. Abdalla, E, Abellan, GF, Aboubrahim, A et al. JOURNAL OF HIGH ENERGY ASTROPHYSICS, 34 (2022) . Cited: 154. <http://dx.doi.org/10.1016/j.jheap.2022.04.002>

10. ③ First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. Akiyama, K, Alberdi, A, Alef, W et al. *ASTROPHYSICAL JOURNAL LETTERS*, 930 (2022) L17. Cited: 144. <http://dx.doi.org/10.3847/2041-8213/ac6756>
11. ③ Challenges for Λ CDM: An update. Perivolaropoulos, L and Skara, F *NEW ASTRONOMY REVIEWS*, 95 (2022) 101659. Cited: 132. <http://dx.doi.org/10.1016/j.newar.2022.101659>
12. ④ The LOFAR Two-metre Sky Survey V. Second data release. Shimwell, TW, Hardcastle, MJ, Tasse, C et al. *ASTRONOMY & ASTROPHYSICS*, 659 (2022) A1. Cited: 116. <http://dx.doi.org/10.1051/0004-6361/202142484>
13. ② New Determinations of the UV Luminosity Functions from z similar to 9 to 2 Show a Remarkable Consistency with Halo Growth and a Constant Star Formation Efficiency. Bouwens, RJ, Oesch, PA, Stefanon, M et al. *ASTRONOMICAL JOURNAL*, 162 (2021) 47. Cited: 115. <http://dx.doi.org/10.3847/1538-3881/abf83e>
14. ⑧ Dark Energy Survey Year 3 results: Cosmological constraints from galaxy clustering and weak lensing. Abbott, TMC, Aguena, M, Alarcon, A et al. *PHYSICAL REVIEW D*, 105 (2022) 23520. Cited: 110. <http://dx.doi.org/10.1103/PhysRevD.105.023520>
15. ③ Scalar Induced Gravitational Waves Review. Domenech, G *UNIVERSE*, 7 (2021) 398. Cited: 108. <http://dx.doi.org/10.3390/universe7110398>
16. ③ 2021 Census of Interstellar, Circumstellar, Extragalactic, Protoplanetary Disk, and Exoplanetary Molecules. McGuire, BA *ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES*, 259 (2022) 30. Cited: 97. <http://dx.doi.org/10.3847/1538-4365/ac2a48>
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20. ③ Two Remarkably Luminous Galaxy Candidates at z & AP; 10-12 Revealed by JWST. Naidu, RP, Oesch, PA, van Dokkum, P et al. *ASTROPHYSICAL JOURNAL LETTERS*, 940 (2022) L14. Cited: 84. <http://dx.doi.org/10.3847/2041-8213/ac9b22>
21. ③ Early Results from GLASS-JWST. III. Galaxy Candidates at z similar to 9-15*. Castellano, M, Fontana, A, Treu, T et al. *ASTROPHYSICAL JOURNAL LETTERS*, 938 (2022) L15. Cited: 70. <http://dx.doi.org/10.3847/2041-8213/ac94d0>

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23. CASA, Common Astronomy Software Applications for Radio Astronomy. Bean, B, CASA Team, Bhatnagar, S et al. PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC, 134 (2022) 114501. Cited: 68. <http://dx.doi.org/10.1088/1538-3873/ac9642>
24. ③ Discovery and properties of ultra-high redshift galaxies ($9 < z < 12$) in the JWST ERO SMACS 0723 Field. Adams, NJ, Conselice, CJ, Ferreira, L et al. MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, 518 (2023) . Cited: 62. <http://dx.doi.org/10.1093/mnras/stac3347>
25. ② A Comprehensive Study of Galaxies at z similar to 9-16 Found in the Early JWST Data: Ultraviolet Luminosity Functions and Cosmic Star Formation History at the Pre-reionization Epoch. Harikane, Y, Ouchi, M, Oguri, M et al. ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES, 265 (2023) 5. Cited: 54. <http://dx.doi.org/10.3847/1538-4365/acaaa9>
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29. First Look at $z > 1$ Bars in the Rest-frame Near-infrared with JWST Early CEERS Imaging. Guo, YC, Jogee, S, Finkelstein, SL et al. ASTROPHYSICAL JOURNAL LETTERS, 945 (2023) L10. Cited: 31. <http://dx.doi.org/10.3847/2041-8213/acacfb>
30. CEERS Key Paper. I. An Early Look into the First 500 Myr of Galaxy Formation with JWST. Finkelstein, SL, Bagley, MB, Ferguson, HC et al. ASTROPHYSICAL JOURNAL LETTERS, 946 (2023) L13. Cited: 31. <http://dx.doi.org/10.3847/2041-8213/acade4>
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32. The Physical Conditions of Emission-line Galaxies at Cosmic Dawn from JWST/NIRSpec Spectroscopy in the SMACS 0723 Early Release Observations. Trump, JR, Haro, PA, Simons,

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33. BEYONDPLANCK XIII. Intensity foreground sampling, degeneracies, and priors. Andersen, KJ, Herman, D, Aurlen, R et al. ASTRONOMY & ASTROPHYSICS, 675 (2023) A13. Cited: 13. <http://dx.doi.org/10.1051/0004-6361/202243186>
34. BEYONDPLANCK IX. Bandpass and beam leakage corrections. Svalheim, TL, Zonca, A, Andersen, KJ et al. ASTRONOMY & ASTROPHYSICS, 675 (2023) A9. Cited: 12. <http://dx.doi.org/10.1051/0004-6361/202243080>
35. Alleviating both H-0 and S-8 tensions: Early dark energy lifts the CMB-lockdown on ultralight axion. Ye, G, Zhang, J, Piao, YS et al. PHYSICS LETTERS B, 839 (2023) 137770. Cited: 8. <http://dx.doi.org/10.1016/j.physletb.2023.1377700370-2693>

“Materials Science, Multidisciplinary”热点论文 347 篇

1. ⑨ Single-Junction Organic Photovoltaic Cell with 19% Efficiency. Cui, Y, Xu, Y, Yao, HF et al. ADVANCED MATERIALS, 33 (2021) 2102420. Cited: 871. <http://dx.doi.org/10.1002/adma.202102420>
2. ⑩ Lipid nanoparticles for mRNA delivery. Hou, XC, Zaks, T, Langer, R et al. NATURE REVIEWS MATERIALS, 6 (2021) . Cited: 767. <http://dx.doi.org/10.1038/s41578-021-00358-0>
3. ⑥ Single-junction organic solar cells with over 19% efficiency enabled by a refined double-fibril network morphology. Zhu, L, Zhang, M, Xu, JQ et al. NATURE MATERIALS, 21 (2022) . Cited: 705. <http://dx.doi.org/10.1038/s41563-022-01244-y>
4. ⑨ Functional Hydrogels as Wound Dressing to Enhance Wound Healing. Liang, YP, He, JH, Guo, BL et al. ACS NANO, 15 (2021) . Cited: 687. <http://dx.doi.org/10.1021/acsnano.1c04206>
5. ⑥ Emerging S-Scheme Photocatalyst. Zhang, LY, Zhang, JJ, Yu, HG et al. ADVANCED MATERIALS, 34 (2022) 2107668. Cited: 634. <http://dx.doi.org/10.1002/adma.202107668>
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9. ⑦ In situ Irradiated XPS Investigation on S-Scheme TiO₂@ZnIn₂S₄ Photocatalyst for Efficient Photocatalytic CO₂ Reduction. Wang, LB, Cheng, B, Zhang, LY et al. SMALL, 17 (2021) 2103447. Cited: 397. <http://dx.doi.org/10.1002/sml.202103447>
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13. ⑨ Design concept for electrocatalysts. Wang, Y, Zheng, XB, Wang, DS et al. NANO RESEARCH, 15 (2022) . Cited: 318. <http://dx.doi.org/10.1007/s12274-021-3794-0>
14. ⑤ Dimensional Design and Core-Shell Engineering of Nanomaterials for Electromagnetic Wave Absorption. Wu, ZC, Cheng, HW, Jin, C et al. ADVANCED MATERIALS, 34 (2022) 2107538. Cited: 311. <http://dx.doi.org/10.1002/adma.202107538>
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17. ⑧ Flexible Sandwich-Structured Electromagnetic Interference Shielding Nanocomposite Films with Excellent Thermal Conductivities. Zhang, YL, Ruan, KP, Gu, JW et al. SMALL, 17 (2021) 2101951. Cited: 288. <http://dx.doi.org/10.1002/sml.202101951>
18. ⑦ Rational Design and General Synthesis of Multimetallic Metal-Organic Framework Nano-Octahedra for Enhanced Li-S Battery. Li, WT, Guo, XT, Geng, PB et al. ADVANCED MATERIALS, 33 (2021) 2105163. Cited: 282. <http://dx.doi.org/10.1002/adma.202105163>
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20. 5 Advances in the Synthesis of 2D MXenes. Wei, Y, Zhang, P, Soomro, RA et al. ADVANCED MATERIALS, 33 (2021) 2103148. Cited: 279. <http://dx.doi.org/10.1002/adma.202103148>
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29. 6 Stability challenges of electrocatalytic oxygen evolution reaction: From mechanistic understanding to reactor design. Chen, FY, Wu, ZY, Adler, Z et al. JOULE, 5 (2021) . Cited: 237. <http://dx.doi.org/10.1016/j.joule.2021.05.005>
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31. 5 Heterogeneous 2D/3D Tin-Halides Perovskite Solar Cells with Certified Conversion Efficiency Breaking 14%. Yu, BB, Chen, ZH, Zhu, YD et al. ADVANCED MATERIALS, 33 (2021) 2102055. Cited: 236. <http://dx.doi.org/10.1002/adma.202102055>
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