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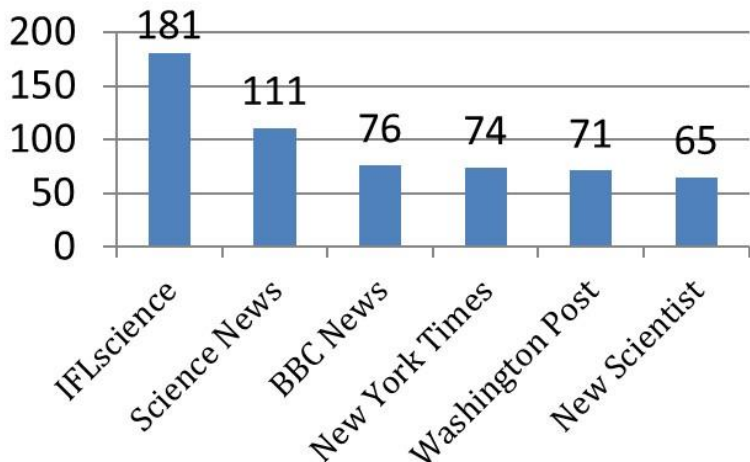


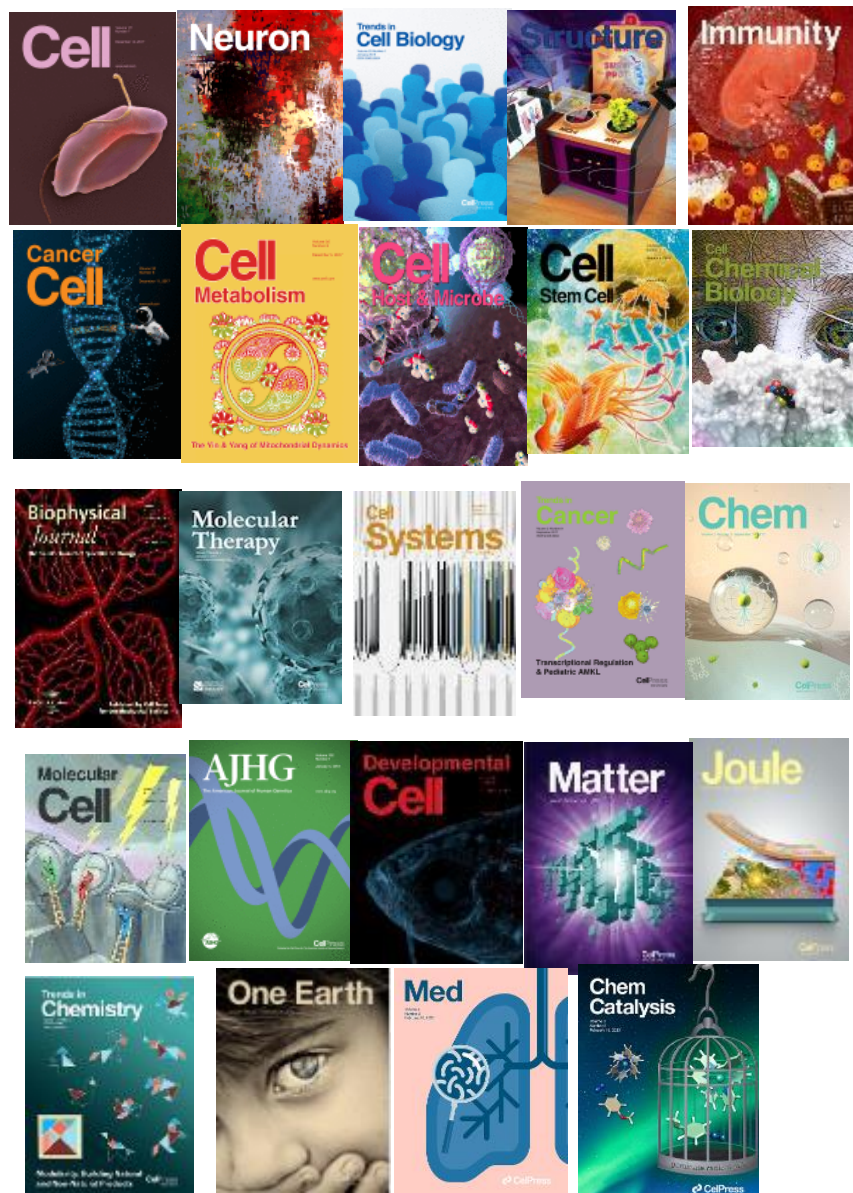
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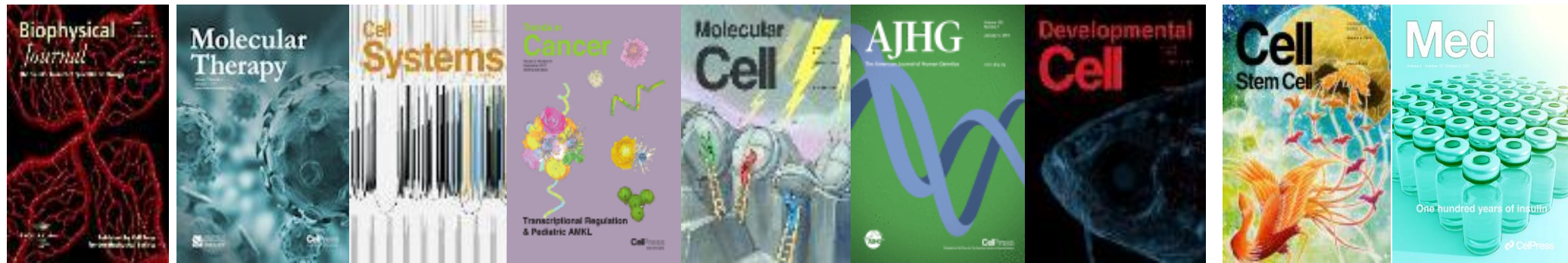
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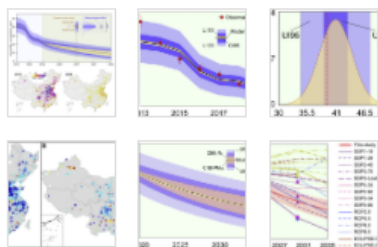
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## One Earth

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## PM<sub>2.5</sub> reductions in Chinese cities from 2013 to 2019 remain significant despite the inflating effects of meteorological conditions

 Qirui Zhong <sup>1, 2</sup>, Shu Tao <sup>1, 2, 3, 6, 8, 9</sup>, Jianmin Ma <sup>2</sup>, Junfeng Liu <sup>2</sup>, Huizhong Shen <sup>1</sup>, Guofeng Shen <sup>2</sup>, Dabo Guan <sup>4, 5</sup>, Xiao Yun <sup>2</sup>, Wenjun Meng <sup>2</sup>, Xinyuan Yu <sup>2</sup>, Hefa Cheng <sup>2</sup>, Dongqiang Zhu <sup>2</sup>, Yi Wan <sup>2</sup>, Jianying Hu <sup>2</sup>
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- National mean PM<sub>2.5</sub> decreased by 34% from 2013 to 2019 through emission mitigation
- National PM<sub>2.5</sub> reductions were overestimated because of meteorological effects
- Mitigation efforts for individual cities are related to initial pollution level and GDP
- National mean PM<sub>2.5</sub> will decrease to 24.2 μg/m<sup>3</sup> by 2035 under continuous action

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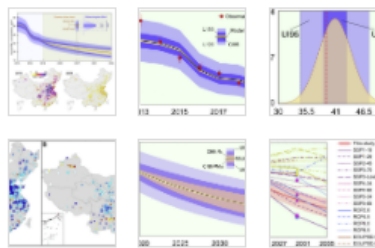
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Volume 171, Issue 6, 30 November 2017, Pages 1229-1231



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Yifan Cheng<sup>1</sup>, Robert M. Glaeser<sup>2</sup>, Eva Nogales<sup>2,3</sup>

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The Royal Swedish Academy of Sciences awarded the 2017 Nobel Prize for Chemistry to Jacques Dubochet, Joachim Frank, and Richard Henderson for “developing **cryoelectron microscopy** for the high-resolution structure determination of biomolecules in solution.” Achieving this goal, which required

## Cryo-Electron Microscopy

Cryoelectron microscopy showed that the flexible dimerization domain gets ordered when Ase1/PRC1 crosslinks two antiparallel microtubules [78], leading to the rod domains projecting from the microtubule-binding domains at a fixed angle [74,78].

From: Trends in Cell Biology, 2013

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## Cryo-EM, Part C: Analyses, Interpretation, and Case studies

Friedrich Förster, Elizabeth Villa, in *Methods in Enzymology*, 2010

## Abstract

Cryoelectron microscopy (cryo-EM) is an increasingly popular method to elucidate the structures of macromolecular complexes. However, in many applications the resolution of cryo-EM densities is limited to the low or intermediate resolution regime, that is,  $(10 \text{ \AA})^{-1}$  or worse. Therefore, unambiguous molecular interpretation of cryo-EM densities requires efficient use of additional information, such as

## Recent Advances in Electron Cryomicroscopy, Part B

Michael G. Rossmann, ... Pavel Plevka, in *Advances in Protein Chemistry and Structural Biology*, 2011

## Abstract

Cryo-electron microscopy (cryo-EM) in combination with single-particle analysis has begun to complement crystallography in the study of large macromolecules at near-atomic resolution. Furthermore, advances in cryo-electron tomography have made possible the study of macromolecules within their cellular

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Cell Reports Physical Science, 22 November 2021, ...

Juan Du, Jun-jie Shi

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Cardiovascular Revascularization Medicine, 18 June 2019, ...  
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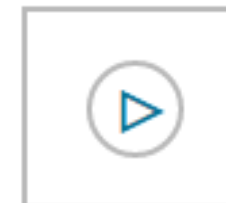
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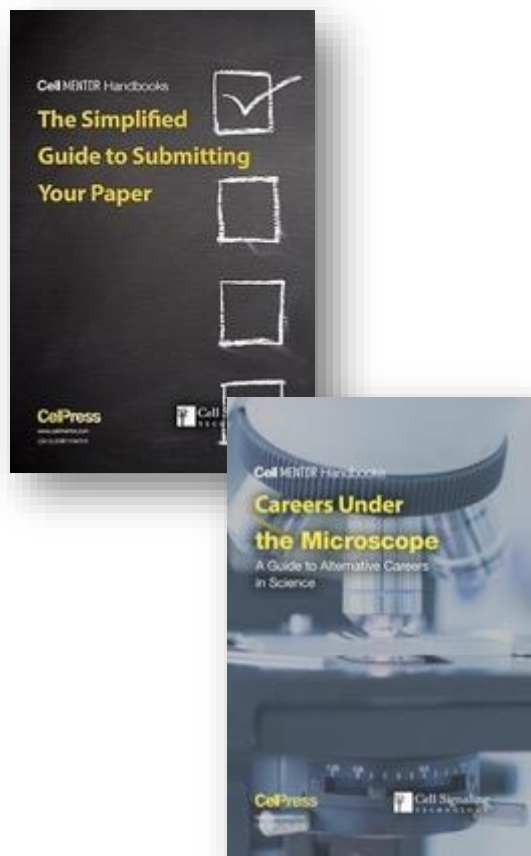


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<ul style="list-style-type: none"> <li>&gt; Funding</li> <li>&gt; Research data management</li> <li>&gt; Research collaborations</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Fundamentals of manuscript preparation</li> <li>&gt; Writing skills</li> <li>&gt; Technical writing skills</li> <li>&gt; Book writing</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Fundamentals of publishing</li> <li>&gt; Finding the right journal</li> <li>&gt; Ethics</li> <li>&gt; Open science</li> <li>&gt; Publishing in the Chemical Sciences</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Certified Peer Reviewer Course</li> <li>&gt; Fundamentals of peer review</li> <li>&gt; Becoming a peer reviewer</li> <li>&gt; Going through peer review</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Social impact</li> <li>&gt; Ensuring visibility</li> <li>&gt; Sustainable Development Goals for Researchers</li> </ul>



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