

Authors



.....
Open Hardware:

A O B
B S

April 2021



A

• $\frac{1}{2} \int_{-\infty}^{\infty} \delta(x) dx = \frac{1}{2}$

• $\int_{-\infty}^{\infty} \delta(x) dx = 1$

• $\int_{-\infty}^{\infty} \delta(x) dx = 1$



ien e is not moving fast enough

... t ... f ... f ... f ... e ...
... t ... e ... t ... all hands on deck ... e ... e ... e ... f ... e ... t ... f ... e ...
... f ... e ... t ... e ... n ... n ... n ... n ... e ... n ... e ... t ...
... n ... n ... n ... n ... e ... t ... e ... f ... t ... n ... t ... f ... n ... t ... e ...
... n ... n ... n ... n ... e ... t ... e ... f ... t ... n ... t ... f ... n ... t ... e ...

... e ... e ... n ... n ... n ... n ... e ... t ... e ... n ... t ... n ...
... e ... e ... (... t ... e ...) ... n ... e ... n ... e ... n ...
... e ... e ... n ... t ... e ... f ... n ... e ... n ... t ... t ... n ...
... e ... e ... n ... t ... e ... t ... n ... e ... n ... f ... t ... e ... t ... n ... e ...
... e ... n ... n ... e ... e ... n ... t ... e ... t ...
A ... e ... n ... n ... e ... t ... e ... e ... t ... e ... n ... n ... n ...
... e ... t ... n ... n ... n ... t ... e ... e ... n ... t ... n ...
... e ... t ... n ... e ... f ... n ... e ... e ... n ... n ... n ... f ... f ...
... e ... t ... f ... f ... n ... t ... f ... n ... f ... e ... f ...



Building Support for local production capacity through small-batch manufacturing and production can significantly reduce these barriers and diversify supply chains.

C S : T D A H W I T S , a P O Ha a N

"We are facing wicked problems related to energy, the environment, and inequality. The complexity of these problems dictates the complexity of the science we need to address them. We do not have time to waste. If scientists are encouraged to work together on their shared infrastructure, it will be easier for them to work together on our shared planet. Open source hardware is one way to win some time."

Open hardware accelerates the process of science and addressing challenges



R

1. [Open Hardware Definition \(English\)](#). [OSHWA](#).

2. [What is Open Hardware?](#). [WIRED](#).

3. [Open hardware accelerates the process of science and addressing challenges](#). [Issues in Science and Technology](#), 34(1).

4. [Open Source Science: Public Money, Public Hardware](#). [Science and Public Policy](#), 43(1).

5. [Increasing Access to the Results of Federally Funded Scientific Research](#). [Addressing Societal and Scientific Challenges through Citizen Science and Crowdsourcing](#).



1. A. J. & L. () *Journal of microscopy*, 264()

2. A. & L. () *PLoS biology*, 15()

3. A. & L. () *Nature methods*, 4()

4. A. & L. () *PloS one*, 9()

5. A. & L. () *Frontiers in cellular neuroscience*, 8()

6. A. & L. () *Wilson International Center for Scholars*. Woodrow

7. A. & L. () *PloS one*, 8()

8. A. & L. () *PloS one*, 9()

9. A. & L. () *Journal of laboratory automation*, 21()

10. A. () *Open hardware is economically efficient and generates a massive return on public investment*

11. A. *Open Source Science: Public Money, Public Hardware.*

12. A. () *HardwareX*, 8()

13. A. *Open hardware is economically efficient*

14. A. () *Open Source Science: Public Money, Public Hardware.*

15. A. () *Open Science Hardware contributes to aligning the research agenda with societal needs.*

- 4 A & I. () *Journal of Radiological Protection*, 36()
- Open source hardware can unleash the core American spirit of creativity and innovation. I. t
- The Open Hardware Community Responds to COVID-19 Shortages. I. t
- Woodrow Wilson International Center for Scholars.
- Hardware. Gathering for Open Science
- Lessons from 17th Century Scientific Experiments: Data Commons Need Open Hardware I. t
- Open hardware provides a better chance for scientific reproducibility I. t
- Open hardware provides a better chance for scientific reproducibility
- The best public investment in R&D? Think open. I. t
- Journal of Open Hardware, 1()

C son