

Virtual Video Issue: A New Way To Look at the Most-Accessed Articles in *ACS Nano* and *Nano Letters*

Welcome to a special virtual video issue from *ACS Nano* and *Nano Letters*! This collection of videos and research papers highlights some of the most-accessed articles from 2010 from both journals.

Moving into web publication has afforded options such as video abstracts and other multimedia, web-enhanced objects, and easy access to related information, such as supporting material and relevant articles from across a range of journals. Since we access most of our information in electronic form, why limit authors to the written page, when they could instead tell you about their paper while you read it in a virtual setting? With this idea in mind, we have created our first virtual video issue with author-created videos side-by-side with their electronic articles.

The authors of the 20 most-accessed peer-reviewed articles from *ACS Nano* and *Nano Letters* were each invited to create a video highlighting their work.¹ ACS Publications teamed up with SciVee TV (www.scivee.tv) to bring you these videos with added article synchronization features (see Figure 1). These are the papers that you, the readers, were already most interested in reading, but now we have let the authors tell you about their papers in their own words.^{2–21}

You will notice themes across the topics within this issue such as graphene, the subject of the 2010 Nobel Prize in Physics, DNA sequencing, supercapacitors, and photocatalysts, demonstrating both the broad reach of *ACS Nano* and *Nano Letters* and the broad interests of our readers.



Figure 1. Jessie Baker (pictured) describes her *Nano Letters* article "Device-Scale Perpendicular Alignment of Colloidal Nanorods".⁶

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ACS Nano and Nano Letters strive to bring you the most exciting and important articles in nanoscience and nanotechnology, with impact in communities ranging from physics to chemistry, to biology, to engineering and materials, and to medicine and toxicology.

We hope you enjoy the videos, and we look forward to hearing from you.

Heather L. Tierney
Managing Editor



Paul S. Weiss
Editor-in-Chief



REFERENCES AND NOTES

1. Most-accessed articles were chosen from peer-reviewed research articles that were both accessed and published within the 12-month period from December 2009 to November 2010.
2. American Chemical Society. Virtual Issues—ACS Nano (ACS Publications). <http://pubs.acs.org/page/ancac3/vi/index.html>
3. Zhang, J.; Bang, J. H.; Tang, C.; Kamat, P. V. Tailored TiO₂-SrTiO₃ Heterostructure Nanotube Arrays for Improved Photoelectrochemical Performance. *ACS Nano* **2010**, *4*, 387–395.
4. De Paoli Lacerda, S. H.; Park, J. J.; Meuse, C.; Pristiniski, D.; Becker, M. L.; Karim, A.; Douglas, J. F. Interaction of Gold Nanoparticles with Common Human Blood Proteins. *ACS Nano* **2010**, *4*, 365–379.
5. Zhang, H.; Lv, X.; Li, Y.; Wang, Y.; Li, J. P25-Graphene Composite as a High Performance Photocatalyst. *ACS Nano* **2010**, *4*, 380–386.
6. Baker, J. L.; Widmer-Cooper, A.; Toney, M. F.; Geissler, P. L.; Alivisatos, A. P. Device-Scale Perpendicular Alignment of Colloidal Nanorods. *Nano Lett.* **2010**, *10*, 195–201.
7. Wang, S.; Ang, P. K.; Wang, Z.; Tang, A. L. L.; Thong, J. T. L.; Loh, K. P. High Mobility, Printable, and Solution-Processed Graphene Electronics. *Nano Lett.* **2010**, *10*, 92–98.
8. Yang, N.; Zhai, J.; Wang, D.; Chen, Y.; Jiang, L. Two-Dimensional Graphene Bridges Enhanced Photoinduced Charge Transport in Dye-Sensitized Solar Cells. *ACS Nano* **2010**, *4*, 887–894.
9. Lee, Y.; Bae, S.; Jang, H.; Sukjae, J.; Zhu, S.-E.; Sim, S. H.; Song, Y. I.; Hongt, B. H.; Ahn, J.-H. Wafer-Scale Synthesis and Transfer of Graphene Films. *Nano Lett.* **2010**, *10*, 490–493.
10. Xia, F.; Farmer, D. B.; Lin, Y.; Avouris, P. Graphene Field-Effect Transistors with High On/Off Current Ratio and Large Transport Band Gap at Room Temperature. *Nano Lett.* **2010**, *10*, 715–718.
11. Hu, L.; Pasta, M.; La Mantia, F.; Cui, L.; Jeong, S.; Deshazer, H. D.; Choi, J. W.; Han, S. M.; Cui, Y. Stretchable, Porous, and Conductive Energy Textiles. *Nano Lett.* **2010**, *10*, 708–714.
12. Postma, H. W. Ch. Rapid Sequencing of Individual DNA Molecules in Graphene Nanogaps. *Nano Lett.* **2010**, *10*, 420–425.
13. Wang, D.; Kou, R.; Choi, D.; Yang, Z.; Nie, Z.; Li, J.; Saraf, L. V.; Hu, D.; Zhang, J.; Graff, G. L.; Liu, J.; Pope, M. A.; Aksay, I. A. Ternary Self-Assembly of Ordered Metal Oxide–Graphene Nanocomposites for Electrochemical Energy Storage. *ACS Nano* **2010**, *4*, 1587–1595.
14. Matyba, P.; Yamaguchi, H.; Eda, G.; Chhowalla, M.; Edman, L.; Robinson, N. D. Graphene and Mobile Ions: The Key to All-Plastic, Solution-Processed Light-Emitting Devices. *ACS Nano* **2010**, *4*, 637–642.
15. Yang, Y.; McDowell, M. T.; Jackson, A.; Cha, J. J.; Hong, S. S.; Cui, Y. New Nanostructured Li₂S/Silicon Rechargeable Battery with High Specific Energy. *Nano Lett.* **2010**, *10*, 1486–1491.
16. Wu, Q.; Xu, Y.; Yao, Z.; Liu, A.; Shi, G. Supercapacitors Based on Flexible Graphene/Polyaniline Nanofiber Composite Films. *ACS Nano* **2010**, *4*, 1963–1970.
17. Hu, L.; Kim, H. S.; Lee, J.-Y.; Peumans, P.; Cui, Y. Scalable Coating and Properties of Transparent, Flexible, Silver Nanowire Electrodes. *ACS Nano* **2010**, *4*, 2955–2963.
18. Yan, X.; Cui, X.; Li, B.; Li, L. Large, Solution-Processable Graphene Quantum Dots as Light Absorbers for Photovoltaics. *Nano Lett.* **2010**, *10*, 1869–1873.
19. Ismach, A.; Druzgalski, C.; Penwell, S.; Schwartzberg, A.; Zheng, M.; Javey, A.; Bokor, J.; Zhang, Y. Direct Chemical Vapor Deposition of Graphene on Dielectric Surfaces. *Nano Lett.* **2010**, *10*, 1542–1548.
20. An, X.; Simmons, T.; Shah, R.; Wolfe, C.; Lewis, K. M.; Washington, M.; Nayak, S. K.; Talapatra, S.; Kar, S. Stable Aqueous Dispersions of Noncovalently Functionalized Graphene from Graphite and their Multifunctional High-Performance Applications. *Nano Lett.* **2010**, *10*, 4295–4301.
21. Marcano, D. C.; Kosynkin, D. V.; Berlin, J. M.; Sinitskii, A.; Sun, Z.; Slesarev, A.; Alemany, L. B.; Lu, W.; Tour, J. M. Improved Synthesis of Graphene Oxide. *ACS Nano* **2010**, *4*, 4806–4814.