

## Publications

---

### PUBLICATIONS

1. Rechargeable Na/Cl<sub>2</sub> and Li/Cl<sub>2</sub> batteries. *Nature*  
Zhu, G., Tian, X., Tai, H., Li, Y., Li, J., Sun, H., Liang, P., Angell, M., Huang, C., Ku, C., Hung, W., Jiang, S., Meng, et al  
2021; 596 (7873): 525-530
2. Origin of shuttle-free sulfurized polyacrylonitrile in lithium-sulfur batteries (vol 492, 229508, 2021) *JOURNAL OF POWER SOURCES*  
Huang, C., Cheng, J., Su, W., Partovi-Azar, P., Kuo, L., Tsai, M., Lin, M., Jand, S., Chan, T., Wu, N., Kaghazchi, P., Dai, H., Bieker, et al  
2021; 495
3. Origin of shuttle-free sulfurized polyacrylonitrile in lithium-sulfur batteries *JOURNAL OF POWERSOURCES*  
Huang, C., Cheng, J., Su, W., Partovi-Azar, P., Kuo, L., Tsai, M., Lin, M., Jand, S., Chan, T., Wu, N., Kaghazchi, P., Dai, H., Bieker, et al  
2021; 492
4. Carbon Nanotubes-Potent Carriers for Targeted Drug Delivery in Rheumatoid Arthritis. *Pharmaceutics*  
Kofoed Andersen, C., Khatri, S., Hansen, J., Slott, S., Pavan Parvathaneni, R., Mendes, A. C., Chronakis, I. S., Hung, S., Rajasekaran, N., Ma, Z., Zhu, S., Dai, H., Mellins, et al  
2021; 13 (4)
5. Rational Design of High Brightness NIR-II Organic Dyes with S-D-A-D-S Structure *ACCOUNTS OF MATERIALS RESEARCH*  
Yang, Q., Ma, H., Liang, Y., Dai, H.  
2021; 2 (3): 170-183
6. Selective and High Current CO<sub>2</sub> Electro-Reduction to Multicarbon Products in Near-Neutral KCl Electrolytes. *Journal of the American Chemical Society*  
Zhang, X., Li, J., Li, Y., Jung, Y., Kuang, Y., Zhu, G., Liang, Y., Dai, H.  
2021
7. In vivo NIR-II structured-illumination light-sheet microscopy. *Proceedings of the National Academy of Sciences of the United States of America*  
Wang, F., Ma, Z., Zhong, Y., Salazar, F., Xu, C., Ren, F., Qu, L., Wu, A. M., Dai, H.  
2021; 118 (6)
8. Deep learning for in vivo near-infrared imaging. *Proceedings of the National Academy of Sciences of the United States of America*  
Ma, Z., Wang, F., Wang, W., Zhong, Y., Dai, H.  
2021; 118 (1)
9. Large-Scale Inhomogeneous Fluorescence Plasmonic Silver Chips: Origin and Mechanism *CHEM*  
Hsu, L., Yen, H., Lee, M., Sheu, Y., Chen, P., Dai, H., Chen, C.  
2020; 6 (12): 3396–3408
10. Resolving the Phase Instability of a Fluorinated Ether, Carbonate-Based Electrolyte for the Safe Operation of an Anode-Free Lithium Metal Battery *ACS APPLIED ENERGY MATERIALS*  
Hagos, T., Hagos, T., Bezabih, H., Berhe, G., Abrha, L., Chiu, S., Huang, C., Su, W., Dai, H., Hwang, B.  
2020; 3 (11): 10722–33
11. Cross-Link-Functionalized Nanoparticles for Rapid Excretion in Nanotheranostic Applications. *Angewandte Chemie (Weinheim an der Bergstrasse, Germany)*  
Ma, Z., Wang, F., Zhong, Y., Salazar, F., Li, J., Zhang, M., Ren, F., Wu, A. M., Dai, H.  
2020; 132 (46): 20733-20741
12. A high-performance potassium metal battery using safe ionic liquid electrolyte. *Proceedings of the National Academy of Sciences of the United States of America*  
Sun, H., Liang, P., Zhu, G., Hung, W. H., Li, Y., Tai, H., Huang, C., Li, J., Meng, Y., Angell, M., Wang, C., Dai, H.  
2020

13. Electrochemical transformation reaction of Cu-MnO in aqueous rechargeable zinc-ion batteries for high performance and long cycle life JOURNAL OF MATERIALS CHEMISTRY A  
Fenta, F., Olbasa, B., Tsai, M., Weret, M., Zegeye, T., Huang, C., Huang, W., Zeleke, T., Sahalie, N., Pao, C., Wu, S., Su, W., Dai, et al 2020; 8 (34): 17595–607
14. Molecular engineering of dispersed nickel phthalocyanines on carbon nanotubes for selective CO(2) reduction NATURE ENERGY  
Zhang, X., Wang, Y., Gu, M., Wang, M., Zhang, Z., Pan, W., Jiang, Z., Zheng, H., Lucero, M., Wang, H., Sterbinsky, G. E., Ma, Q., Wang, et al 2020
15. Advancing nanomedicine with cross-link functionalized nanoparticles for rapid excretion. Angewandte Chemie (International ed. in English)  
Dai, H., Ma, Z., Wang, F., Zhong, Y., Salazar, F., Li, J., Zhang, M., Ren, F., Wu, A. M.  
2020
16. High-Rate and Long-Cycle Stability with a Dendrite-Free Zinc Anode in an Aqueous Zn-Ion Battery Using Concentrated Electrolytes ACS APPLIED ENERGY MATERIALS  
Olbasa, B., Fenta, F., Chiu, S., Tsai, M., Huang, C., Jote, B., Beyene, T., Liao, Y., Wang, C., Su, W., Dai, H., Hwang, B.  
2020; 3 (5): 4499–4508
17. High-Safety and High-Energy-Density Lithium Metal Batteries in a Novel Ionic-Liquid Electrolyte. Advanced materials (Deerfield Beach, Fla.)  
Sun, H., Zhu, G., Zhu, Y., Lin, M., Chen, H., Li, Y., Hung, W. H., Zhou, B., Wang, X., Bai, Y., Gu, M., Huang, C., Tai, et al  
2020: e2001741
18. A mini-review on rare-earth down-conversion nanoparticles for NIR-II imaging of biological systems NANORESEARCH  
Zhong, Y., Dai, H.  
2020
19. Hierarchical 3D Architectured Ag Nanowires Shelled with NiMn-Layered Double Hydroxide as an Efficient Bifunctional Oxygen Electrocatalyst. ACS nano  
Chala, S. A., Tsai, M. C., Su, W. N., Ibrahim, K. B., Thirumalraj, B. n., Chan, T. S., Lee, J. F., Dai, H. n., Hwang, B. J.  
2020
20. A mini-review on rare-earth down-conversion nanoparticles for NIR-II imaging of biological systems. Nanoresearch  
Zhong, Y., Dai, H.  
2020; 13 (5): 1281-1294
21. Electroreduction of CO<sub>2</sub> to Formate on a Copper-Based Electrocatalyst at High Pressures with High Energy Conversion Efficiency. Journal of the American Chemical Society  
Li, J. n., Kuang, Y. n., Meng, Y. n., Tian, X. n., Hung, W. H., Zhang, X. n., Li, A. n., Xu, M. n., Zhou, W. n., Ku, C. S., Chiang, C. Y., Zhu, G. n., Guo, et al  
2020
22. Quantification of antibody avidities and accurate detection of SARS-CoV-2 antibodies in serum and saliva on plasmonic substrates. Nature biomedical engineering  
Liu, T. n., Hsiung, J. n., Zhao, S. n., Kost, J. n., Sreedhar, D. n., Hanson, C. V., Olson, K. n., Keare, D. n., Chang, S. T., Bliden, K. P., Gurbel, P. A., Tantry, U. S., Roche, et al  
2020
23. Diagnosis and prognosis of myocardial infarction on a plasmonic chip. Nature communications  
Xu, W. n., Wang, L. n., Zhang, R. n., Sun, X. n., Huang, L. n., Su, H. n., Wei, X. n., Chen, C. C., Lou, J. n., Dai, H. n., Qian, K. n.  
2020; 11 (1): 1654
24. Carbon-coated FeCo nanoparticles as sensitive magnetic-particle-imaging tracers with photothermal and magnetothermal properties. Nature biomedical engineering  
Song, G. n., Kenney, M. n., Chen, Y. S., Zheng, X. n., Deng, Y. n., Chen, Z. n., Wang, S. X., Gambhir, S. S., Dai, H. n., Rao, J. n.  
2020
25. Highly active oxygen evolution integrated with efficient CO<sub>2</sub> to CO electroreduction. Proceedings of the National Academy of Sciences of the United States of America  
Meng, Y., Zhang, X., Hung, W., He, J., Tsai, Y., Kuang, Y., Kenney, M. J., Shyue, J., Liu, Y., Stone, K. H., Zheng, X., Suib, S. L., Lin, et al  
2019
26. Ionic Liquid Analogs of AlCl<sub>3</sub> with Urea Derivatives as Electrolytes for Aluminum Batteries ADVANCED FUNCTIONAL MATERIALS

- Angell, M., Zhu, G., Lin, M., Rong, Y.,  
Dai, H. 2019
27. In vivo molecular imaging for immunotherapy using ultra-bright near-infrared-IIb rare-earth nanoparticles. *Naturebiotechnology* Zhong, Y., Ma, Z., Wang, F., Wang, X., Yang, Y., Liu, Y., Zhao, X., Li, J., Du, H., Zhang, M., Cui, Q., Zhu, S., Sun, et al 2019
28. Dual electrolyte additives of potassium hexafluorophosphate and tris(trimethylsilyl) phosphite for anode-free lithium metal batteries *ELECTROCHÍMICA ACTA* Hagos, T., Berhe, G., Hagos, T., Bezabih, H., Abrha, L., Beyene, T., Huang, C., Yang, Y., Su, W., Dai, H., Hwang, B. 2019; 316: 52–59
29. The Nano Research Young Innovators (NR45) Awards in nanoenergy *NANO RESEARCH* Wang, H., Dai, H. 2019; 12 (9): 1975–77
30. A safe and non-flammable sodium metal battery based on an ionic liquid electrolyte. *Naturecommunications* Sun, H., Zhu, G., Xu, X., Liao, M., Li, Y., Angell, M., Gu, M., Zhu, Y., Hung, W. H., Li, J., Kuang, Y., Meng, Y., Lin, et al 2019; 10 (1): 3302
31. Near-Infrared-II Molecular Dyes for Cancer Imaging and Surgery *ADVANCED MATERIALS* Zhu, S., Tian, R., Antaris, A. L., Chen, X., Dai, H. 2019; 31 (24)
32. Molecular Imaging in the Second Near-Infrared Window *ADVANCED FUNCTIONAL MATERIALS* Wan, H., Du, H., Wang, F., Dai, H. 2019; 29 (25)
33. An electrodeposition approach to metal/metal oxide heterostructures for active hydrogen evolution catalysts in near-neutral electrolytes *NANO RESEARCH* Kenney, M. J., Huang, J., Zhu, Y., Meng, Y., Xu, M., Zhu, G., Hung, W., Kuang, Y., Lin, M., Sun, X., Zhou, W., Dai, H. 2019; 12 (6): 1431–35
34. Light-sheet microscopy in the near-infrared II window *NATUREMETHODS* Wang, F., Wan, H., Ma, Z., Zhong, Y., Sun, Q., Tian, Y., Qu, L., Du, H., Zhang, M., Li, L., Ma, H., Luo, J., Liang, et al 2019; 16 (6): 545–+
35. Light-sheet microscopy in the near-infrared II window. *Nature methods* Wang, F., Wan, H., Ma, Z., Zhong, Y., Sun, Q., Tian, Y., Qu, L., Du, H., Zhang, M., Li, L., Ma, H., Luo, J., Liang, et al 2019
36. Concentrated Dual-Salt Electrolyte to Stabilize Li Metal and Increase Cycle Life of Anode Free Li-Metal Batteries *JOURNAL OF THE ELECTROCHEMICAL SOCIETY* Beyene, T., Bezabih, H., Weret, M., Hagos, T., Huang, C., Wang, C., Su, W., Dai, H., Hwang, B. 2019; 166 (8): A1501–A1509
37. Plasmonic gold chips for the diagnosis of Toxoplasma gondii, CMV, and rubella infections using saliva with serum detection precision *EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES* Li, X., Pomares, C., Peyron, F., Press, C. J., Ramirez, R., Geraldine, G., Cannavo, I., Chapey, E., Levigne, P., Wallon, M., Montoya, J. G., Dai, H. 2019; 38 (5): 883–90
38. Solar-driven, highly sustained splitting of seawater into hydrogen and oxygen fuels *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* Kuang, Y., Kenney, M. J., Meng, Y., Hung, W., Liu, Y., Huang, J., Prasanna, R., Li, P., Li, Y., Wang, L., Lin, M., McGehee, M. D., Sun, et al 2019; 116 (14): 6624–29
39. A general route via formamide condensation to prepare atomically dispersed metal-nitrogen-carbon electrocatalysts for energy technologies *ENERGY & ENVIRONMENTAL SCIENCE* Zhang, G., Jia, Y., Zhang, C., Xiong, X., Sun, K., Chen, R., Chen, W., Kuang, Y., Zheng, L., Tang, H., Liu, W., Liu, J., Sun, et al 2019; 12 (4): 1317–25

40. Layered double hydroxide nanosheets decorated with metal or metal oxides for oxygen evolution and reduction reactions  
Chala, S., Tsai, M., Su, W., Dai, H., Hwang, B. AMER CHEMICAL SOC.  
2019
41. Solar-driven, highly sustained splitting of seawater into hydrogen and oxygen fuels. Proceedings of the National Academy of Sciences of the United States of America  
Kuang, Y., Kenney, M. J., Meng, Y., Hung, W., Liu, Y., Huang, J. E., Prasanna, R., Li, P., Li, Y., Wang, L., Lin, M., McGehee, M. D., Sun, et al  
2019
42. Stabilizing Lithium into Cross-Stacked Nanotube Sheets with an Ultra-High Specific Capacity for Lithium Oxygen Batteries ANGEWANDTE CHEMIE-INTERNATIONAL EDITION  
Ye, L., Liao, M., Sun, H., Yang, Y., Tang, C., Zhao, Y., Wang, L., Xu, Y., Zhang, L., Wang, B., Xu, F., Sun, X., Zhang, et al  
2019; 58 (8): 2437–42
43. Magnetic "Squashing" of Circulating Tumor Cells on Plasmonic Substrates for Ultrasensitive NIR Fluorescence Detection SMALL METHODS  
Zhang, R., Le, B., Xu, W., Guo, K., Sun, X., Su, H., Huang, L., Huang, J., Shen, T., Liao, T., Liang, Y., Zhang, J. J., Dai, et al  
2019; 3 (2)
44. A theranostic agent for cancer therapy and imaging in the second near-infrared window NANORESEARCH  
Ma, Z., Wan, H., Wang, W., Zhang, X., Uno, T., Yang, Q., Yue, J., Gao, H., Zhong, Y., Tian, Y., Sun, Q., Liang, Y., Dai, et al  
2019; 12 (2): 273–79
45. Plasmonic gold chips for the diagnosis of Toxoplasma gondii, CMV, and rubella infections using saliva with serum detection precision. European journal of clinical microbiology & infectious diseases: official publication of the European Society of Clinical Microbiology  
Li, X., Pomares, C., Peyron, F., Press, C. J., Ramirez, R., Geraldine, G., Cannavo, I., Chapey, E., Levigne, P., Wallon, M., Montoya, J. G., Dai, H.  
2019
46. Molecular imaging in the second near-infrared window. Advanced functional materials  
Wan, H. n., Du, H. n., Wang, F. n., Dai, H. n.  
2019; 29 (25)
47. Effects of Concentrated Salt and Resting Protocol on Solid Electrolyte Interface Formation for Improved Cycle Stability of Anode-Free Lithium Metal Batteries. ACS applied materials & interfaces  
Beyene, T. T., Jote, B. A., Wondimkun, Z. T., Olbassa, B. W., Huang, C. J., Thirumalraj, B. n., Wang, C. H., Su, W. N., Dai, H. n., Hwang, B. J.  
2019
48. A theranostic agent for cancer therapy and imaging in the second near-infrared window. Nano research  
Ma, Z. n., Wan, H. n., Wang, W. n., Zhang, X. n., Uno, T. n., Yang, Q. n., Yue, J. n., Gao, H. n., Zhong, Y. n., Tian, Y. n., Sun, Q. n., Liang, Y. n., Dai, et al  
2019; 12: 273–79
49. Site Activity and Population Engineering of NiRu-Layered Double Hydroxide Nanosheets Decorated with Silver Nanoparticles for Oxygen Evolution and Reduction Reactions ACS CATALYSIS  
Chala, S., Tsai, M., Su, W., Ibrahim, K., Duma, A., Yeh, M., Wen, C., Yu, C., Chan, T., Dai, H., Hwang, B.  
2019; 9 (1): 117–29
50. Rechargeable aluminum batteries: effects of cations in ionic liquid electrolytes RSCADVANCES  
Zhu, G., Angell, M., Pan, C., Lin, M., Chen, H., Huang, C., Lin, J., Achazi, A. J., Kaghazchi, P., Hwang, B., Dai, H.  
2019; 9 (20): 11322–30
51. Near-Infrared-II Molecular Dyes for Cancer Imaging and Surgery. Advanced materials (Deerfield Beach, Fla.)  
Zhu, S. n., Tian, R. n., Antaris, A. L., Chen, X. n., Dai, H. n.  
2019: e1900321
52. Stabilizing lithium into cross-stacked nanotube sheets with ultra-high specific capacity for lithium oxygen battery. Angewandte Chemie (International ed. in English)  
Ye, L., Liao, M., Sun, H., Yang, Y., Tang, C., Zhao, Y., Wang, L., Xu, Y., Zhang, L., Wang, B., Xu, F., Sun, X., Zhang, et al  
2018
53. Developing a Bright NIR-II Fluorophore with Fast Renal Excretion and Its Application in Molecular Imaging of Immune Checkpoint PD-L1 ADVANCED FUNCTIONAL MATERIALS  
Wan, H., Ma, H., Zhu, S., Wang, F., Tian, Y., Ma, R., Yang, Q., Hu, Z., Zhu, T., Wang, W., Ma, Z., Zhang, M., Zhong, et al

2018; 28 (50)

54. The inaugural Nano Research Young Innovators (NR45) Award in nanobiotechnology NANO RESEARCH  
Gu, Z., Dai, H.  
2018; 11 (10): 4931–35
55. Near-Infrared IIb Fluorescence Imaging of Vascular Regeneration with Dynamic Tissue Perfusion Measurement and High Spatial Resolution ADVANCED FUNCTIONAL MATERIALS  
Ma, Z., Zhang, M., Yue, J., Alcazar, C., Zhong, Y., Doyle, T. C., Dai, H., Huang, N. F.  
2018; 28 (36)
56. Bright quantum dots emitting at 1,600 nm in the NIR-IIb window for deep tissue fluorescence imaging. Proceedings of the National Academy of Sciences of the United States of America  
Zhang, M., Yue, J., Cui, R., Ma, Z., Wan, H., Wang, F., Zhu, S., Zhou, Y., Kuang, Y., Zhong, Y., Pang, D., Dai, H.  
2018; 115 (26): 6590–95
57. Bright quantum dots emitting at similar to 1,600 nm in the NIR-IIb window for deep tissue fluorescence imaging PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA  
Zhang, M., Yue, J., Cui, R., Ma, Z., Wan, H., Wang, F., Zhu, S., Zhou, Y., Kuang, Y., Zhong, Y., Pang, D., Dai, H.  
2018; 115 (26): 6590–95
58. Molecular Cancer Imaging in the Second Near-Infrared Window Using a Renal-Excreted NIR-II Fluorophore-Peptide Probe ADVANCED MATERIALS  
Wang, W., Ma, Z., Zhu, S., Wan, H., Yue, J., Ma, H., Ma, R., Yang, Q., Wang, Z., Li, Q., Qian, Y., Yue, C., Wang, et al  
2018; 30 (22): e1800106
59. An operando X-ray diffraction study of chloroaluminate anion-graphite intercalation in aluminum batteries PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA  
Pan, C., Yuan, C., Zhu, G., Zhang, Q., Huang, C., Lin, M., Angell, M., Hwang, B., Kaghazchi, P., Dai, H.  
2018; 115 (22): 5670–75
60. Robust and conductive Magneli Phase Ti4O7 decorated on 3D-nanoflower NiRu-LDH as high-performance oxygen reduction electrocatalyst NANO ENERGY  
Ibrahim, K., Su, W., Tsai, M., Chala, S., Kahsay, A., Yeh, M., Chen, H., Duma, A., Dai, H., Hwang, B.  
2018; 47: 309–15
61. 3D NIR-II Molecular Imaging Distinguishes Targeted Organs with High-Performance NIR-II Bioconjugates ADVANCED MATERIALS  
Zhu, S., Herraiz, S., Yue, J., Zhang, M., Wan, H., Yang, Q., Ma, Z., Wang, Y., He, J., Antaris, A. L., Zhong, Y., Diao, S., Feng, et al  
2018; 30 (13): e1705799
62. A bright organic NIR-II nanofluorophore for three-dimensional imaging into biological tissues NATURE COMMUNICATIONS  
Wan, H., Yue, J., Zhu, S., Uno, T., Zhang, X., Yang, Q., Yu, K., Hong, G., Wang, J., Li, L., Ma, Z., Gao, H., Zhong, et al  
2018; 9: 1171
63. Donor Engineering for NIR-II Molecular Fluorophores with Enhanced Fluorescent Performance JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Yang, Q., Hu, Z., Zhu, S., Ma, R., Ma, H., Ma, Z., Wan, H., Zhu, T., Jiang, Z., Liu, W., Jiao, L., Sun, H., Liang, et al  
2018; 140 (5): 1715–24
64. Near-Infrared IIb Fluorescence Imaging of Vascular Regeneration with Dynamic Tissue Perfusion Measurement and High Spatial Resolution. Advanced functional materials  
Ma, Z. n., Zhang, M. n., Yue, J. n., Alcazar, C. n., Zhong, Y. n., Doyle, T. C., Dai, H. n., Huang, N. F.  
2018; 28 (36)
65. Developing a Bright NIR-II Fluorophore with Fast Renal Excretion and Its Application in Molecular Imaging of Immune Checkpoint PD-L1. Advanced functional materials  
Wan, H. n., Ma, H. n., Zhu, S. n., Wang, F. n., Tian, Y. n., Ma, R. n., Yang, Q. n., Hu, Z. n., Zhu, T. n., Wang, W. n., Ma, Z. n., Zhang, M. n., Zhong, et al  
2018; 28 (50)
66. Identification of the physical origin behind disorder, heterogeneity, and reconstruction and their correlation with the photoluminescence lifetime in hybrid perovskite thin films JOURNAL OF MATERIALS CHEMISTRY A  
Berhe, T., Cheng, J., Su, W., Pan, C., Tsai, M., Chen, H., Yang, Z., Tan, H., Chen, C., Yeh, M., Tamirat, A., Huang, S., Chen, et al  
2017; 5 (39): 21002–15

67. A high quantum yield molecule-protein complex fluorophore for near-infrared II imaging NATURE COMMUNICATIONS  
Antaris, A. L., Chen, H., Diao, S., Ma, Z., Zhang, Z., Zhu, S., Wang, J., Lozano, A. X., Fan, Q., Chew, L., Zhu, M., Cheng, K., Hong, et al  
2017; 8
68. Live imaging of follicle stimulating hormone receptors in gonads and bones using near infrared II fluorophore CHEMICAL SCIENCE  
Feng, Y., Zhu, S., Antaris, A. L., Chen, H., Xiao, Y., Lu, X., Jiang, L., Diao, S., Yu, K., Wang, Y., Herraiz, S., Yue, J., Hong, et al  
2017; 8 (5): 3703-3711
69. Diagnosis of Zika virus infection on a nanotechnology platform. Nature medicine  
Zhang, B., Pinsky, B. A., Ananta, J. S., Zhao, S., Arulkumar, S., Wan, H., Sahoo, M. K., Abeynayake, J., Waggoner, J. J., Hopes, C., Tang, M., Dai, H.  
2017
70. Validation of IgG/IgM multiplex plasmonic gold platform in French clinical cohorts for the serodiagnosis and follow-up of Toxoplasma gondii infection. Diagnostic microbiology and infectious disease  
Pomares, C., Zhang, B., Arulkumar, S., Gonfrier, G., Marty, P., Zhao, S., Cheng, S., Tang, M., Dai, H., Montoya, J. G.  
2017; 87 (3): 213-218
71. Advanced rechargeable aluminium ion battery with a high-quality natural graphite cathode NATURE COMMUNICATIONS  
Wang, D., Wei, C., Lin, M., Pan, C., Chou, H., Chen, H., Gong, M., Wu, Y., Yuan, C., Angell, M., Hsieh, Y., Chen, Y., Wen, et al  
2017; 8
72. Molecular imaging of biological systems with a clickable dye in the broad 800-to 1,700-nm near-infrared window PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA  
Zhu, S., Yang, Q., Antaris, A. L., Yue, J., Ma, Z., Wang, H., Huang, W., Wan, H., Wang, J., Diao, S., Zhang, B., Li, X., Zhong, et al  
2017; 114 (5): 962-967
73. High Coulombic efficiency aluminum-ion battery using an AlCl<sub>3</sub>-urea ionic liquid analog electrolyte PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA  
Angell, M., Pan, C., Rong, Y., Yuan, C., Lin, M., Hwang, B., Dai, H.  
2017; 114 (5): 834-839
74. High Coulombic efficiency aluminum-ion battery using an AlCl<sub>3</sub>-urea ionic liquid analog electrolyte PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA  
Angell, M., Pan, C., Rong, Y., Yuan, C., Lin, M., Hwang, B., Dai, H.  
2017; 114 (5): 834-839
75. Rational Design of Molecular Fluorophores for Biological Imaging in the NIR-II Window. Advanced materials  
Yang, Q., Ma, Z., Wang, H., Zhou, B., Zhu, S., Zhong, Y., Wang, J., Wan, H., Antaris, A., Ma, R., Zhang, X., Yang, J., Zhang, et al  
2017
76. Boosting the down-shifting luminescence of rare-earth nanocrystals for biological imaging beyond 1500 nm. Nature communications  
Zhong, Y. n., Ma, Z. n., Zhu, S. n., Yue, J. n., Zhang, M. n., Antaris, A. L., Yuan, J. n., Cui, R. n., Wan, H. n., Zhou, Y. n., Wang, W. n., Huang, N. F., Luo, et al  
2017; 8 (1): 737
77. Autoantibody profiling on a plasmonic nano-gold chip for the early detection of hypertensive heart disease. Proceedings of the National Academy of Sciences of the United States of America  
Li, X. n., Kuznetsova, T. n., Cauwenberghs, N. n., Wheeler, M. n., Maecker, H. n., Wu, J. C., Haddad, F. n., Dai, H. n.  
2017; 114 (27): 7089-94
78. Proteoliposome-based full-length ZnT8 self-antigen for type 1 diabetes diagnosis on a plasmonic platform. Proceedings of the National Academy of Sciences of the United States of America  
Wan, H. n., Merriman, C. n., Atkinson, M. A., Wasserfall, C. H., Mcgrail, K. M., Liang, Y. n., Fu, D. n., Dai, H. n.  
2017; 114 (38): 10196-201
79. Live imaging of follicle stimulating hormone receptors in gonads and bones using near infrared II fluorophore. Chemicalscience  
Feng, Y. n., Zhu, S. n., Antaris, A. L., Chen, H. n., Xiao, Y. n., Lu, X. n., Jiang, L. n., Diao, S. n., Yu, K. n., Wang, Y. n., Herraiz, S. n., Yue, J. n., Hong, et al  
2017; 8 (5): 3703-11
80. Direct Evidence for Coupled Surface and Concentration Quenching Dynamics in Lanthanide-Doped Nanocrystals. Journal of the American Chemical Society  
Johnson, N. J., He, S. n., Diao, S. n., Chan, E. M., Dai, H. n., Almutairi, A. n.

2017; 139 (8): 3275–82

81. Near-infrared fluorophores for biomedical imaging NATURE BIOMEDICAL ENGINEERING Hong, G., Antaris, A. L., Dai, H. 2017; 1 (1)
82. A novel quantitative microarray antibody capture (Q-MAC) assay identifies an extremely high HDV prevalence amongst HBV infected Mongolians. Hepatology Chen, X., Oidovsambuu, O., Liu, P., Grosely, R., Elazar, M., Winn, V. D., Fram, B., Boa, Z., Dai, H., Dashtseren, B., Yagaanbuyant, D., Genden, Z., Dashdorj, et al 2016
83. High Performance, Multiplexed Lung Cancer Biomarker Detection on a Plasmonic Gold Chip ADVANCED FUNCTIONAL MATERIALS Liu, B., Li, Y., Wan, H., Wang, L., Xu, W., Zhu, S., Liang, Y., Zhang, B., Lou, J., Dai, H., Qian, K. 2016; 26 (44): 7994-8002
84. 3D Graphitic Foams Derived from Chloroaluminate Anion Intercalation for Ultrafast Aluminum-Ion Battery. Advanced materials Wu, Y., Gong, M., Lin, M., Yuan, C., Angell, M., Huang, L., Wang, D., Zhang, X., Yang, J., Hwang, B., Dai, H. 2016; 28 (41): 9218-9222
85. Facile Synthesis of [101]-Oriented Rutile TiO<sub>2</sub> Nanorod Array on FTO Substrate with a Tunable Anatase-Rutile Heterojunction for Efficient Solar Water Splitting ACS SUSTAINABLE CHEMISTRY & ENGINEERING Sutiono, H., Tripathi, A. M., Chen, H., Chen, C., Su, W., Chen, L., Dai, H., Hwang, B. 2016; 4 (11): 5963-5971
86. Hybrid anisotropic nanostructures for dual-modal cancer imaging and image-guided chemo-thermo therapies. Biomaterials Zhang, R., Cheng, K., Antaris, A. L., Ma, X., Yang, M., Ramakrishnan, S., Liu, G., Lu, A., Dai, H., Tian, M., Cheng, Z. 2016; 103: 265-277
87. Traumatic Brain Injury Imaging in the Second Near-Infrared Window with a Molecular Fluorophore. Advanced materials Zhang, X., Wang, H., Antaris, A. L., Li, L., Diao, S., Ma, R., Nguyen, A., Hong, G., Ma, Z., Wang, J., Zhu, S., Castellano, J. M., Wyss-Coray, et al 2016; 28 (32): 6872-6879
88. Multiplexed Anti-Toxoplasma IgG, IgM, and IgA Assay on Plasmonic Gold Chips: towards Making Mass Screening Possible with Dye Test Precision JOURNAL OF CLINICAL MICROBIOLOGY Li, X., Pomares, C., Gonfrier, G., Koh, B., Zhu, S., Gong, M., Montoya, J. G., Dai, H. 2016; 54 (7): 1726-1733
89. IN VIVO VASCULAR IMAGING OF TRAUMATIC BRAIN INJURY IN THE SECOND NEAR-INFRARED WINDOW Zhang, X., Wang, H., Antaris, A., Li, L., Diao, S., Ma, R., Nguyen, A., Hong, G., Ma, Z., Wang, J., Zhu, S., Castellano, J., Wyss-Coray, et al MARY ANN LIEBERT, INC. 2016: A48
90. A small-molecule dye for NIR-II imaging NATURE MATERIALS Antaris, A. L., Chen, H., Cheng, K., Sun, Y., Hong, G., Qu, C., Diao, S., Deng, Z., Hu, X., Zhang, B., Zhang, X., Yaghi, O. K., Alamparabil, et al 2016; 15 (2): 235-?
91. A mini review on nickel-based electrocatalysts for alkaline hydrogen evolution reaction NANORESEARCH Gong, M., Wang, D., Chen, C., Hwang, B., Dai, H. 2016; 9 (1): 28-46
92. A small-molecule dye for NIR-II imaging. Nature materials Antaris, A. L., Chen, H. n., Cheng, K. n., Sun, Y. n., Hong, G. n., Qu, C. n., Diao, S. n., Deng, Z. n., Hu, X. n., Zhang, B. n., Zhang, X. n., Yaghi, O. K., Alamparabil, et al 2016; 15 (2): 235-42
93. In Vivo Fluorescence Imaging in the Second Near-Infrared Window Using Carbon Nanotubes IN VIVO FLUORESCENCE IMAGING: METHODS AND PROTOCOLS Hong, G., Dai, H., Bai, M. 2016; 1444: 167-81
94. Visible to Near-Infrared Fluorescence Enhanced Cellular Imaging on Plasmonic Gold Chips. Small Koh, B., Li, X., Zhang, B., Yuan, B., Lin, Y., Antaris, A. L., Wan, H., Gong, M., Yang, J., Zhang, X., Liang, Y., Dai, H.

2016; 12 (4): 457-465

95. Single Chirality (6,4) Single-Walled Carbon Nanotubes for Fluorescence Imaging with Silicon Detectors SMALL  
Antaris, A. L., Yaghi, O. K., Hong, G., Diao, S., Zhang, B., Yang, J., Chew, L., Dai, H.  
2015; 11 (47): 6325-6330
96. Fluorescence Imaging In Vivo at Wavelengths beyond 1500 nm ANGEWANDTE CHEMIE-INTERNATIONAL EDITION  
Diao, S., Blackburn, J. L., Hong, G., Antaris, A. L., Chang, J., Wu, J. Z., Zhang, B., Cheng, K., Kuo, C. J., Dai, H.  
2015; 54 (49): 14758-14762
97. Energy Migration Engineering of Bright Rare-Earth Upconversion Nanoparticles for Excitation by Light-Emitting Diodes ADVANCED MATERIALS  
Zhong, Y., Rostami, I., Wang, Z., Dai, H., Hu, Z.  
2015; 27 (41): 6418-?
98. Highly active and durable methanol oxidation electrocatalyst based on the synergy of platinum-nickel hydroxide-graphene NATURE COMMUNICATIONS  
Huang, W., Wang, H., Zhou, J., Wang, J., Duchesne, P. N., Muir, D., Zhang, P., Han, N., Zhao, F., Zeng, M., Zhong, J., Jin, C., Li, et al  
2015; 6
99. Carbon Nanomaterials for Biological Imaging and Nanomedicinal Therapy CHEMICAL REVIEWS  
Hong, G., Diao, S., Antaris, A. L., Dai, H.  
2015; 115 (19): 10816-10906
100. Blending Cr<sub>2</sub>O<sub>3</sub> into a NiO-Ni Electrocatalyst for Sustained Water Splitting. Angewandte Chemie (International ed. in English)  
Gong, M., Zhou, W., Kenney, M. J., Kapusta, R., Cowley, S., Wu, Y., Lu, B., Lin, M., Wang, D., Yang, J., Hwang, B., Dai, H.  
2015; 54 (41): 11989-11993
101. Biological imaging without autofluorescence in the second near-infrared region NANORESEARCH  
Diao, S., Hong, G., Antaris, A. L., Blackburn, J. L., Cheng, K., Cheng, Z., Dai, H.  
2015; 8 (9): 3027-3034
102. Ultra-active water electrolysis with Ni-based catalysts  
Gong, M., Zhou, W., Dai, H.  
AMER CHEMICAL SOC.2015
103. Cytokine detection and simultaneous assessment of rheumatoid factor interference in human serum and synovial fluid using high-sensitivity protein arrays on plasmonic gold chips BMCBIOTECHNOLOGY  
Valentina, M., Jan, F., Peder, N. L., Bo, Z., Dai Hongjie, H. J., Pernille, K.  
2015; 15
104. Aligned-Braided Nanofibrillar Scaffold with Endothelial Cells Enhances Arteriogenesis. ACS nano  
Nakayama, K. H., Hong, G., Lee, J. C., Patel, J., Edwards, B., Zaitseva, T. S., Paukshto, M. V., Dai, H., Cooke, J. P., Woo, Y. J., Huang, N. F.  
2015; 9 (7): 6900-6908
105. Aligned-Braided Nanofibrillar Scaffold with Endothelial Cells Enhances Arteriogenesis ACS NANO  
Nakayama, K. H., Hong, G., Lee, J. C., Patel, J., Edwards, B., Zaitseva, T. S., Paukshto, M. V., Dai, H., Cooke, J. P., Woo, Y. J., Huang, N. F.  
2015; 9 (7): 6900-6908
106. Diketopyrrolopyrrole (DPP)-Based Donor-Acceptor Polymers for Selective Dispersion of Large-Diameter Semiconducting Carbon Nanotubes SMALL  
Lei, T., Lai, Y., Hong, G., Wang, H., Hayoz, P., Weitz, R. T., Chen, C., Dai, H., Bao, Z.  
2015; 11 (24): 2946-2954
107. Nickel-coated silicon photocathode for water splitting in alkaline electrolytes NANORESEARCH  
Feng, J., Gong, M., Kenney, M. J., Wu, J. Z., Zhang, B., Li, Y., Dai, H.  
2015; 8 (5): 1577-1583
108. An ultrafast rechargeable aluminium-ion battery. Nature  
Lin, M., Gong, M., Lu, B., Wu, Y., Wang, D., Guan, M., Angell, M., Chen, C., Yang, J., Hwang, B., Dai, H.  
2015; 520 (7547): 325-328
109. An ultrafast rechargeable aluminium-ion battery NATURE  
Lin, M., Gong, M., Lu, B., Wu, Y., Wang, D., Guan, M., Angell, M., Chen, C., Yang, J., Hwang, B., Dai, H.

- 2015; 520 (7547): 325-?
110. Highly Active and Stable Hybrid Catalyst of Cobalt-Doped FeS<sub>2</sub> Nanosheets-Carbon Nanotubes for Hydrogen Evolution Reaction. *Journal of the American Chemical Society*  
Wang, D., Gong, M., Chou, H., Pan, C., Chen, H., Wu, Y., Lin, M., Guan, M., Yang, J., Chen, C., Wang, Y., Hwang, B., Chen, et al  
2015; 137 (4): 1587-1592
111. Graphene nanoribbons under mechanical strain. *Advanced materials*  
Chen, C., Wu, J. Z., Lam, K. T., Hong, G., Gong, M., Zhang, B., Lu, Y., Antaris, A. L., Diao, S., Guo, J., Dai, H.  
2015; 27 (2): 303-309
112. Energy Migration Engineering of Bright Rare-Earth Upconversion Nanoparticles for Excitation by Light-Emitting Diodes. *Advanced materials (Deerfield Beach, Fla.)*  
Zhong, Y. n., Rostami, I. n., Wang, Z. n., Dai, H. n., Hu, Z. n.  
2015; 27 (41): 6418-22
113. Single Chirality (6,4) Single-Walled Carbon Nanotubes for Fluorescence Imaging with Silicon Detectors. *Small (Weinheim an der Bergstrasse, Germany)*  
Antaris, A. L., Yaghi, O. K., Hong, G. n., Diao, S. n., Zhang, B. n., Yang, J. n., Chew, L. n., Dai, H. n.  
2015; 11 (47): 6325-30
114. Fluorescence Imaging In Vivo at Wavelengths beyond 1500 nm. *Angewandte Chemie (International ed. in English)*  
Diao, S. n., Blackburn, J. L., Hong, G. n., Antaris, A. L., Chang, J. n., Wu, J. Z., Zhang, B. n., Cheng, K. n., Kuo, C. J., Dai, H. n.  
2015; 54 (49): 14758-62
115. A mini review of NiFe-based materials as highly active oxygen evolution reaction electrocatalysts *NANORESEARCH*  
Gong, M., Dai, H.  
2015; 8 (1): 23-39
116. Top-Down Patterning and Self-Assembly for Regular Arrays of Semiconducting Single-Walled Carbon Nanotubes *ADVANCED MATERIALS*  
Wu, J., Antaris, A., Gong, M., Dai, H.  
2014; 26 (35): 6151-?
117. Top-down patterning and self-assembly for regular arrays of semiconducting single-walled carbon nanotubes. *Advanced materials*  
Wu, J., Antaris, A., Gong, M., Dai, H.  
2014; 26 (35): 6151-6156
118. Through-skull fluorescence imaging of the brain in a new near-infrared window *NATURE PHOTONICS*  
Hong, G., Diao, S., Chang, J., Antaris, A. L., Chen, C., Zhang, B., Zhao, S., Atochin, D. N., Huang, P. L., Andreasson, K. I., Kuo, C. J., Dai, H.  
2014; 8 (9): 723-730
119. Tumor Metastasis Inhibition by Imaging-Guided Photothermal Therapy with Single-Walled Carbon Nanotubes *ADVANCED MATERIALS*  
Liang, C., Diao, S., Wang, C., Gong, H., Liu, T., Hong, G., Shi, X., Dai, H., Liu, Z.  
2014; 26 (32): 5646-?
120. Diketopyrrolopyrrole (DPP)-based donor-acceptor polymers for scalable and selective dispersion of large-diameter carbon nanotubes  
Lei, T., Lai, Y., Hong, G., Wang, H., Dai, H., Bao, Z.  
AMER CHEMICAL SOC. 2014
121. Recent advances in zinc-air batteries *CHEMICAL SOCIETY REVIEWS*  
Li, Y., Dai, H.  
2014; 43 (15): 5257-5275
122. A plasmonic chip for biomarker discovery and diagnosis of type 1 diabetes. *Nature medicine*  
Zhang, B., Kumar, R. B., Dai, H., Feldman, B. J.  
2014; 20 (8): 948-953
123. Ultrathin WS<sub>2</sub> Nanoflakes as a High-Performance Electrocatalyst for the Hydrogen Evolution Reaction *ANGEWANDTE CHEMIE-INTERNATIONALE EDITION*  
Cheng, L., Huang, W., Gong, Q., Liu, C., Liu, Z., Li, Y., Dai, H.  
2014; 53 (30): 7860-7863

124. Ultrafast fluorescence imaging *in vivo* with conjugated polymer fluorophores in the second near-infrared window NATURE COMMUNICATIONS  
Hong, G., Zou, Y., Antaris, A. L., Diao, S., Wu, D., Cheng, K., Zhang, X., Chen, C., Liu, B., He, Y., Wu, J. Z., Yuan, J., Zhang, et al  
2014; 5
125. Ultrafast high-capacity NiZn battery with NiAlCo-layered double hydroxide ENERGY & ENVIRONMENTAL SCIENCE  
Gong, M., Li, Y., Zhang, H., Zhang, B., Zhou, W., Feng, J., Wang, H., Liang, Y., Fan, Z., Liu, J., Dai, H.  
2014; 7 (6): 2025-2032
126. Ly108 expression distinguishes subsets of invariant NKT cells that help autoantibody production and secrete IL-21 from those that secrete IL-17 in lupus prone NZB/W mice. Journal of autoimmunity  
Tang, X., Zhang, B., Jarrell, J. A., Price, J. V., Dai, H., Utz, P. J., Strober, S.  
2014; 50: 87-98
127. Near-infrared II fluorescence for imaging hindlimb vessel regeneration with dynamic tissue perfusion measurement. Circulation. Cardiovascular imaging  
Hong, G., Lee, J. C., Jha, A., Diao, S., Nakayama, K. H., Hou, L., Doyle, T. C., Robinson, J. T., Antaris, A. L., Dai, H., Cooke, J. P., Huang, N. F.  
2014; 7 (3): 517-525
128. Near-Infrared II Fluorescence for Imaging Hindlimb Vessel Regeneration With Dynamic Tissue Perfusion Measurement. Circulation. Cardiovascular imaging  
Hong, G., Lee, J. C., Jha, A., Diao, S., Nakayama, K. H., Hou, L., Doyle, T. C., Robinson, J. T., Antaris, A. L., Dai, H., Cooke, J. P., Huang, N. F.  
2014; 7 (3): 517-525
129. Graphite Oxide Nanoparticles with Diameter Greater than 20 nm Are Biocompatible with Mouse Embryonic Stem Cells and Can Be Used in a Tissue Engineering System. Small  
Wang, I. E., Robinson, J. T., Do, G., Hong, G., Gould, D. R., Dai, H., Yang, P. C.  
2014; 10 (8): 1479-1484
130. Dependence of the Absorption and Optical Surface Plasmon Scattering of MoS<sub>2</sub> Nanoparticles on Aspect Ratio, Size, and Media ACS NANO  
Yadgarov, L., Choi, C. L., Sedova, A., Cohen, A., Rosentsveig, R., Bar-Elli, O., Oron, D., Dai, H., Tenne, R.  
2014; 8 (4): 3575-3583
131. Fe-N bonding in a carbon nanotube-graphene complex for oxygen reduction: an XAS study PHYSICAL CHEMISTRY CHEMICAL PHYSICS  
Zhou, J., Duchesne, P. N., Hu, Y., Wang, J., Zhang, P., Li, Y., Regier, T., Dai, H.  
2014; 16 (30): 15787-15791
132. Through-skull fluorescence imaging of the brain in a new near-infrared window. Nature photonics  
Hong, G. n., Diao, S. n., Chang, J. n., Antaris, A. L., Chen, C. n., Zhang, B. n., Zhao, S. n., Atochin, D. N., Huang, P. L., Andreasson, K. I., Kuo, C. J., Dai, H. n.  
2014; 8 (9): 723-30
133. Ultrafast fluorescence imaging *in vivo* with conjugated polymer fluorophores in the second near-infrared window. Nature communications  
Hong, G., Zou, Y., Antaris, A. L., Diao, S., Wu, D., Cheng, K., Zhang, X., Chen, C., Liu, B., He, Y., Wu, J. Z., Yuan, J., Zhang, et al  
2014; 5: 4206-?
134. Nanoscale nickel oxide/nickel heterostructures for active hydrogen evolution electrocatalysis. Nature communications  
Gong, M., Zhou, W., Tsai, M., Zhou, J., Guan, M., Lin, M., Zhang, B., Hu, Y., Wang, D., Yang, J., Pennycook, S. J., Hwang, B., Dai, et al  
2014; 5: 4695-?
135. Nanoscale nickel oxide/nickel heterostructures for active hydrogen evolution electrocatalysis. Nature communications  
Gong, M., Zhou, W., Tsai, M., Zhou, J., Guan, M., Lin, M., Zhang, B., Hu, Y., Wang, D., Yang, J., Pennycook, S. J., Hwang, B., Dai, et al  
2014; 5: 4695-?
136. Plasmonic micro-beads for fluorescence enhanced, multiplexed protein detection with flow cytometry CHEMICAL SCIENCE  
Zhang, B., Yang, J., Zou, Y., Gong, M., Chen, H., Hong, G., Antaris, A. L., Li, X., Liu, C., Chen, C., Dai, H.  
2014; 5 (10): 4070-4075
137. Self-assembly of semiconducting single-walled carbon nanotubes into dense, aligned rafts. Small  
Wu, J., Jiao, L., Antaris, A., Choi, C. L., Xie, L., Wu, Y., Diao, S., Chen, C., Chen, Y., Dai, H.  
2013; 9 (24): 4142-4148
138. Self-Assembly of Semiconducting Single-Walled Carbon Nanotubes into Dense, Aligned Rafts SMALL

- Wu, J., Jiao, L., Antaris, A., Choi, C. L., Xie, L., Wu, Y., Diao, S., Chen, C., Chen, Y., Dai, H.  
2013; 9 (24): 4142-4148
139. Biological Imaging Using Nanoparticles of Small Organic Molecules with Fluorescence Emission at Wavelengths Longer than 1000 nm. *Angewandte Chemie (International ed. in English)*  
Tao, Z., Hong, G., Shinji, C., Chen, C., Diao, S., Antaris, A. L., Zhang, B., Zou, Y., Dai, H.  
2013; 52 (49): 13002-13006
140. WS<sub>2</sub> nanoflakes from nanotubes for electrocatalysis *NANORESEARCH*  
Choi, C. L., Feng, J., Li, Y., Wu, J., Zak, A., Tenne, R., Dai, H.  
2013; 6 (12): 921-928
141. High-performance silicon photoanodes passivated with ultrathin nickel films for water oxidation. *Science*  
Kenney, M. J., Gong, M., Li, Y., Wu, J. Z., Feng, J., Lanza, M., Dai, H.  
2013; 342 (6160): 836-840
142. High-Performance Silicon Photoanodes Passivated with Ultrathin Nickel Films for Water Oxidation *SCIENCE*  
Kenney, M. J., Gong, M., Li, Y., Wu, J. Z., Feng, J., Lanza, M., Dai, H.  
2013; 342 (6160): 836-840
143. HREM analysis of graphite-encapsulated metallic nanoparticles for possible medical applications. *Ultramicroscopy*  
Sinclair, R., Li, H., Madsen, S., Dai, H.  
2013; 134: 167-174
144. An advanced ni-fe layered double hydroxide electrocatalyst for water oxidation. *Journal of the American Chemical Society*  
Gong, M., Li, Y., Wang, H., Liang, Y., Wu, J. Z., Zhou, J., Wang, J., Regier, T., Wei, F., Dai, H.  
2013; 135 (23): 8452-8455
145. Biodistribution, pharmacokinetics and toxicology of Ag<sub>2</sub>S near-infrared quantum dots in mice *BIOCARTERIALS*  
Zhang, Y., Zhang, Y., Hong, G., He, W., Zhou, K., Yang, K., Li, F., Chen, G., Liu, Z., Dai, H., Wang, Q.  
2013; 34 (14): 3639-3646
146. Chemical sorting, functionalization, and assembly of carbon nanotube for biological and nanoelectronics applications  
Dai, H.  
AMER CHEMICAL SOC.2013
147. Strongly coupled inorganic/nanocarbon hybrid materials for advanced electrocatalysis  
Dai, H.  
AMER CHEMICAL SOC.2013
148. Strongly coupled inorganic/graphitic-nanocarbon hybrid materials for energy storage  
Dai, H.  
AMER CHEMICAL SOC.2013
149. High-resolution, serial intravital microscopic imaging of nanoparticle delivery and targeting in a small animal tumor model *NANOTODAY*  
Smith, B. R., Zavaleta, C., Rosenberg, J., Tong, R., Ramunas, J., Liu, Z., Dai, H., Gambhir, S. S.  
2013; 8 (2): 126-137
150. Ultra-Low Doses of Chirality Sorted (6,5) Carbon Nanotubes for Simultaneous Tumor Imaging and Photothermal Therapy *ACS NANO*  
Antaris, A. L., Robinson, J. T., Yaghi, O. K., Hong, G., Diao, S., Luong, R., Dai, H.  
2013; 7 (4): 3644-3652
151. Strongly Coupled Inorganic/Nanocarbon Hybrid Materials for Advanced Electrocatalysis *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*  
Liang, Y., Li, Y., Wang, H., Dai, H.  
2013; 135 (6): 2013-2036
152. Multiplexed cytokine detection on plasmonic gold substrates with enhanced near-infrared fluorescence *NANORESEARCH*  
Zhang, B., Price, J., Hong, G., Tabakman, S. M., Wang, H., Jarrell, J. A., Feng, J., Utz, P. J., Dai, H.  
2013; 6 (2): 113-120

153. Single-Walled Carbon Nanotube Surface Control of Complement Recognition and Activation ACS NANO  
Andersen, A. J., Robinson, J. T., Dai, H., Hunter, A. C., Andresen, T. L., Moghimi, S. M.  
2013; 7 (2): 1108-1119
154. Advanced zinc-air batteries based on high-performance hybrid electrocatalysts. Nature communications  
Li, Y., Gong, M., Liang, Y., Feng, J., Kim, J., Wang, H., Hong, G., Zhang, B., Dai, H.  
2013; 4: 1805-?
155. High-resolution, serial intravital microscopic imaging of nanoparticle delivery and targeting in a small animal tumor model. Nano today  
Smith, B. R., Zavaleta, C. n., Rosenberg, J. n., Tong, R. n., Ramunas, J. n., Liu, Z. n., Dai, H. n., Gambhir, S. S.  
2013; 8 (2)
156. An integrated Peptide-antigen microarray on plasmonic gold films for sensitive human antibody profiling. PloS one  
Zhang, B., Jarrell, J. A., Price, J. V., Tabakman, S. M., Li, Y., Gong, M., Hong, G., Feng, J., Utz, P. J., Dai, H.  
2013; 8 (7): e71043
157. Advanced zinc-air batteries based on high-performance hybrid electrocatalysts. Nature communications  
Li, Y., Gong, M., Liang, Y., Feng, J., Kim, J., Wang, H., Hong, G., Zhang, B., Dai, H.  
2013; 4: 1805-?
158. Imaging state of charge and its correlation to interaction variation in an LiMn<sub>0.75</sub>Fe<sub>0.25</sub>PO<sub>4</sub> nanorods-graphene hybrid  
CHEMICAL COMMUNICATIONS  
Zhou, J., Wang, J., Hu, Y., Regier, T., Wang, H., Yang, Y., Cui, Y., Dai, H.  
2013; 49 (17): 1765-1767
159. Experimentally Engineering the Edge Termination of Graphene Nanoribbons ACSNANO  
Zhang, X., Yazyev, O. V., Feng, J., Xie, L., Tao, C., Chen, Y., Jiao, L., Pedramrazi, Z., Zettl, A., Louie, S. G., Dai, H., Crommie, M. F.  
2013; 7 (1): 198-202
160. An integrated peptide-antigen microarray on plasmonic gold films for sensitive human antibody profiling. PloS one  
Zhang, B., Jarrell, J. A., Price, J. V., Tabakman, S. M., Li, Y., Gong, M., Hong, G., Feng, J., Utz, P. J., Dai, H.  
2013; 8 (7)
161. Strongly coupled inorganic-nano-carbon hybrid materials for energy storage CHEMICAL SOCIETY REVIEWS  
Wang, H., Dai, H.  
2013; 42 (7): 3088-3113
162. Multifunctional in vivo vascular imaging using near-infrared II fluorescence NATUREMEDICINE  
Hong, G., Lee, J. C., Robinson, J. T., Raaz, U., Xie, L., Huang, N. F., Cooke, J. P., Dai, H.  
2012; 18 (12): 1841-?
163. Near infrared imaging and photothermal ablation of vascular inflammation using single-walled carbon nanotubes. Journal of the American Heart Association  
Kosuge, H., Sherlock, S. P., Kitagawa, T., Dash, R., Robinson, J. T., Dai, H., McConnell, M. V.  
2012; 1 (6)
164. Chirality Enriched(12,1)and(11,3)Single-Walled Carbon Nanotubes for Biological Imaging JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Diao, S., Hong, G., Robinson, J. T., Jiao, L., Antaris, A. L., Wu, J. Z., Choi, C. L., Dai, H.  
2012; 134 (41): 16971-16974
165. Engineering manganese oxide/nanocarbon hybrid materials for oxygen reduction electrocatalysis NANORESEARCH  
Feng, J., Liang, Y., Wang, H., Li, Y., Zhang, B., Zhou, J., Wang, J., Regier, T., Dai, H.  
2012; 5 (10): 718-725
166. Oxygen Reduction Electrocatalyst Based on Strongly Coupled Cobalt Oxide Nanocrystals and Carbon Nanotubes JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Liang, Y., Wang, H., Diao, P., Chang, W., Hong, G., Li, Y., Gong, M., Xie, L., Zhou, J., Wang, J., Regier, T. Z., Wei, F., Dai, et al  
2012; 134 (38): 15849-15857
167. Graphene hybrid nanomaterials for electrochemical energy storage and conversion

- Wang, H., Liang, Y., Li, Y., Yang, Y., Cui, Y., Dai, H.  
AMER CHEMICAL SOC.2012
168. Shape Matters: Intravital Microscopy Reveals Surprising Geometrical Dependence for Nanoparticles in Tumor Models of Extravasation NANO LETTERS  
Smith, B. R., Kempen, P., Bouley, D., Xu, A., Liu, Z., Melosh, N., Dai, H., Sinclair, R., Gambhir, S. S.  
2012; 12 (7): 3369-3377
169. Rechargeable Li-O<sub>2</sub> batteries with a covalently coupled MnCo<sub>2</sub>O<sub>4</sub>-graphene hybrid as an oxygen cathode catalyst ENERGY & ENVIRONMENTAL SCIENCE  
Wang, H., Yang, Y., Liang, Y., Zheng, G., Li, Y., Cui, Y., Dai, H.  
2012; 5 (7): 7931-7935
170. In Vivo Fluorescence Imaging in the Second Near-Infrared Window with Long Circulating Carbon Nanotubes Capable of Ultrahigh Tumor Uptake JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Robinson, J. T., Hong, G., Liang, Y., Zhang, B., Yaghi, O. K., Dai, H.  
2012; 134 (25): 10664-10669
171. Flexible Control of Block Copolymer Directed Self-Assembly using Small, Topographical Templates: Potential Lithography Solution for Integrated Circuit Contact Hole Patterning ADVANCED MATERIALS  
Yi, H., Bao, X., Zhang, J., Bencher, C., Chang, L., Chen, X., Tiberio, R., Conway, J., Dai, H., Chen, Y., Mitra, S., Wong, H. P.  
2012; 24 (23): 3107-3114
172. Family of Enhanced Photoacoustic Imaging Agents for High-Sensitivity and Multiplexing Studies in Living Mice ACS NANO  
de la Zerda, A., Bodapati, S., Teed, R., May, S. Y., Tabakman, S. M., Liu, Z., Khuri-Yakub, B. T., Chen, X., Dai, H., Gambhir, S. S.  
2012; 6(6):4694-4701
173. An oxygen reduction electrocatalyst based on carbon nanotube-graphene complexes NATURE NANOTECHNOLOGY  
Li, Y., Zhou, W., Wang, H., Xie, L., Liang, Y., Wei, F., Idrobo, J., Pennycook, S. J., Dai, H.  
2012; 7 (6): 394-400
174. Short channel field-effect transistors from highly enriched semiconducting carbon nanotubes NANORESEARCH  
Wu, J., Xie, L., Hong, G., Lim, H. E., Thendie, B., Miyata, Y., Shinohara, H., Dai, H.  
2012; 5 (6): 388-394
175. An ultrafast nickel-iron battery from strongly coupled inorganic nanoparticle/nanocarbon hybrid materials NATURE COMMUNICATIONS  
Wang, H., Liang, Y., Gong, M., Li, Y., Chang, W., Mefford, T., Zhou, J., Wang, J., Regier, T., Wei, F., Dai, H.  
2012; 3
176. Ag<sub>2</sub>S Quantum Dot: A Bright and Biocompatible Fluorescent Nanoprobe in the Second Near-Infrared Window ACS NANO  
Zhang, Y., Hong, G., Zhang, Y., Chen, G., Li, F., Dai, H., Wang, Q.  
2012; 6 (5): 3695-3702
177. In Operando X-ray Diffraction and Transmission X-ray Microscopy of Lithium Sulfur Batteries JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Nelson, J., Misra, S., Yang, Y., Jackson, A., Liu, Y., Wang, H., Dai, H., Andrews, J. C., Cui, Y., Toney, M. F.  
2012; 134 (14): 6337-6343
178. Densely aligned graphene nanoribbons at similar to 35 nm pitch NANORESEARCH  
Jiao, L., Xie, L., Dai, H.  
2012; 5 (4): 292-296
179. Covalent Hybrid of Spinel Manganese-Cobalt Oxide and Graphene as Advanced Oxygen Reduction Electrocatalysts JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Liang, Y., Wang, H., Zhou, J., Li, Y., Wang, J., Regier, T., Dai, H.  
2012; 134 (7): 3517-3523
180. Graphite-Coated Magnetic Nanoparticle Microarray for Few-Cells Enrichment and Detection ACS NANO  
Chen, Z., Hong, G., Wang, H., Welsher, K., Tabakman, S. M., Sherlock, S. P., Robinson, J. T., Liang, Y., Dai, H.  
2012; 6 (2): 1094-1101
181. Three-dimensional imaging of single nanotube molecule endocytosis on plasmonic substrates NATURE COMMUNICATIONS  
Hong, G., Wu, J. Z., Robinson, J. T., Wang, H., Zhang, B., Dai, H.

2012; 3

182. Spectroscopic understanding of ultra-high rate performance for LiMn<sub>0.75</sub>Fe<sub>0.25</sub>PO<sub>4</sub> nanorods-graphene hybrid in lithium ion battery PHYSICAL CHEMISTRY CHEMICAL PHYSICS  
Zhou, J., Wang, J., Zuin, L., Regier, T., Hu, Y., Wang, H., Liang, Y., Maley, J., Sammynaiken, R., Dai, H.  
2012; 14 (27): 9578-9581
183. In Vivo Fluorescence Imaging with Ag<sub>2</sub>S Quantum Dots in the Second Near-Infrared Region ANGEWANDTE CHEMIE-INTERNATIONAL EDITION Hong, G., Robinson, J. T., Zhang, Y., Diao, S., Antaris, A. L., Wang, Q., Dai, H.  
2012; 51 (39): 9818-9821
184. Controlled Chlorine Plasma Reaction for Noninvasive Graphene Doping JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Wu, J., Xie, L., Li, Y., Wang, H., Ouyang, Y., Guo, J., Dai, H.  
2011; 133 (49): 19668-19671
185. Multifunctional FeCo-graphitic carbon nanocrystals for combined imaging, drug delivery and tumor-specific photothermal therapy in mice NANO RESEARCH Sherlock, S. P., Dai, H.  
2011; 4 (12): 1248-1260
186. Co<sub>3</sub>O<sub>4</sub> nanocrystals on graphene as a synergistic catalyst for oxygen reduction reaction NATURE MATERIALS Liang, Y., Li, Y., Wang, H., Zhou, J., Wang, J., Regier, T., Dai, H.  
2011; 10 (10): 780-786
187. Graphene nanoribbons with smooth edges behave as quantum wires NATURE NANOTECHNOLOGY Wang, X., Ouyang, Y., Jiao, L., Wang, H., Xie, L., Wu, J., Guo, J., Dai, H.  
2011; 6 (9): 563-567
188. Plasmonic substrates for multiplexed protein microarrays with femtomolar sensitivity and broad dynamic range NATURE COMMUNICATIONS Tabakman, S. M., Lau, L., Robinson, J. T., Price, J., Sherlock, S. P., Wang, H., Zhang, B., Chen, Z., Tangsombatvisit, S., Jarrell, J. A., Utz, P. J., Dai, H.  
2011; 2
189. Advanced asymmetrical supercapacitors based on graphene hybrid materials NANORESEARCH Wang, H., Liang, Y., Mirfakhrai, T., Chen, Z., Casalongue, H. S., Dai, H.  
2011; 4 (8): 729-736
190. Spatially resolving edge states of chiral graphene nanoribbons NATURE PHYSICS Tao, C., Jiao, L., Yazeyev, O. V., Chen, Y., Feng, J., Zhang, X., Capaz, R. B., Tour, J. M., Zettl, A., Louie, S. G., Dai, H., Crommie, M. F.  
2011; 7 (8): 616-620
191. Graphene Nanoribbons from Unzipped Carbon Nanotubes: Atomic Structures, Raman Spectroscopy, and Electrical Properties JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Xie, L., Wang, H., Jin, C., Wang, X., Jiao, L., Suenaga, K., Dai, H.  
2011; 133 (27): 10394-10397
192. Graphene-Wrapped Sulfur Particles as a Rechargeable Lithium-Sulfur Battery Cathode Material with High Capacity and Cycling Stability NANO LETTERS Wang, H., Yang, Y., Liang, Y., Robinson, J. T., Li, Y., Jackson, A., Cui, Y., Dai, H.  
2011; 11 (7): 2644-2647
193. Carbon materials for drug delivery & cancer therapy MATERIALS TODAY Liu, Z., Robinson, J. T., Tabakman, S. M., Yang, K., Dai, H.  
2011; 14 (7-8): 316-323
194. Thermally Limited Current Carrying Ability of Graphene Nanoribbons PHYSICAL REVIEW LETTERS Liao, A. D., Wu, J. Z., Wang, X., Tahy, K., Jena, D., Dai, H., Pop, E.  
2011; 106 (25)
195. Deep-tissue anatomical imaging of mice using carbon nanotube fluorophores in the second near-infrared window PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Welsher, K., Sherlock, S. P., Dai, H.

2011; 108 (22): 8943-8948

196. MoS<sub>2</sub> Nanoparticles Grown on Graphene: An Advanced Catalyst for the Hydrogen Evolution Reaction JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Li, Y., Wang, H., Xie, L., Liang, Y., Hong, G., Dai, H.  
2011; 133 (19): 7296-7299
197. Ultrasmall Reduced Graphene Oxide with High Near-Infrared Absorbance for Photothermal Therapy JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Robinson, J. T., Tabakman, S. M., Liang, Y., Wang, H., Casalongue, H. S., Daniel Vinh, D., Dai, H.  
2011; 133 (17): 6825-6831
198. Hydrogen Spillover in Pt-Single-Walled Carbon Nanotube Composites: Formation of Stable C-H Bonds JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Bhowmick, R., Rajasekaran, S., Friebel, D., Beasley, C., Jiao, L., Ogasawara, H., Dai, H., Clemens, B., Nilsson, A.  
2011; 133 (14): 5580-5586
199. Solution-phase growth of plasmonic gold films for surface-enhanced Raman scattering and metal-enhanced fluorescence detection applications 241st National Meeting and Exposition of the American-Chemical-Society (ACS)  
Tabakman, S. M., Chen, Z., Wang, H., Robinson, J. T., Dai, H.  
AMER CHEMICAL SOC.2011
200. Graphene-based hybrid nanomaterials for energy storage applications 241st National Meeting and Exposition of the American-Chemical-Society (ACS)  
Wang, H., Liang, Y., Sanchez, H., Yang, Y., Cui, L., Cui, Y., Dai, H.  
AMER CHEMICAL SOC.2011
201. FeCo-Graphitic carbon nanocrystals as multifunctional imaging and therapeutic agents 241st National Meeting and Exposition of the American-Chemical-Society (ACS)  
Sherlock, S. P., Tabakman, S. M.,  
Dai, H.  
AMER CHEMICAL SOC.2011
202. Room-Temperature Edge Functionalization and Doping of Graphene by Mild Plasma SMALL  
Kato, T., Jiao, L., Wang, X., Wang, H., Li, X., Zhang, L., Hatakeyama, R., Dai, H.  
2011; 7 (5): 574-577
203. A New Approach to Solution-Phase Gold Seeding for SERS Substrates SMALL  
Tabakman, S. M., Chen, Z., Casalongue, H. S., Wang, H., Dai, H.  
2011; 7 (4): 499-505
204. Photothermally Enhanced Drug Delivery by Ultrasmall Multifunctional FeCo/Graphitic Shell Nanocrystals ACS NANO  
Sherlock, S. P., Tabakman, S. M., Xie, L., Dai, H.  
2011; 5 (2): 1505-1512
205. FeCo/Graphite Nanocrystals for Multi-Modality Imaging of Experimental Vascular Inflammation PLOS ONE  
Kosuge, H., Sherlock, S. P., Kitagawa, T., Terashima, M., Barral, J. K., Nishimura, D. G., Dai, H., McConnell, M. V.  
2011; 6(1)
206. LiMn<sub>1-x</sub>FexPO<sub>4</sub> Nanorods Grown on Graphene Sheets for Ultrahigh-Rate-Performance Lithium Ion Batteries ANGEWANDTE CHEMIE- INTERNATIONAL EDITION  
Wang, H., Yang, Y., Liang, Y., Cui, L., Casalongue, H. S., Li, Y., Hong, G., Cui, Y., Dai, H.  
2011; 50 (32): 7364-7368
207. Near-Infrared-Fluorescence-Enhanced Molecular Imaging of Live Cells on Gold Substrates ANGEWANDTE CHEMIE-INTERNATIONAL EDITION  
Hong, G., Tabakman, S. M., Welsher, K., Chen, Z., Robinson, J. T., Wang, H., Zhang, B., Dai, H.  
2011; 50 (20): 4644-4648
208. Co<sub>1-x</sub>S-Graphene Hybrid: A High-Performance Metal Chalcogenide Electrocatalyst for Oxygen Reduction ANGEWANDTE CHEMIE-INTERNATIONALEDITION  
Wang, H., Liang, Y., Li, Y., Dai, H.  
2011; 50 (46): 10969-10972

209. A Dual Platform for Selective Analyte Enrichment and Ionization in Mass Spectrometry Using Aptamer-Conjugated Graphene Oxide JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Gulbakan, B., Yasun, E., Shukoor, M. I., Zhu, Z., You, M., Tan, X., Sanchez, H., Powell, D. H., Dai, H., Tan, W.  
2010; 132 (49): 17408-17410
210. Optical Properties of Single-Walled Carbon Nanotubes Separated in a Density Gradient: Length, Bundling, and Aromatic Stacking Effects JOURNAL OF PHYSICAL CHEMISTRY C  
Tabakman, S. M., Welsher, K., Hong, G., Dai, H.  
2010; 114 (46): 19569-19575
211. Metal-Enhanced Fluorescence of Carbon Nanotubes JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Hong, G., Tabakman, S. M., Welsher, K., Wang, H., Wang, X., Dai, H.  
2010; 132 (45): 15920-15923
212. High Performance In Vivo Near-IR (> 1 μm) Imaging and Photothermal Cancer Therapy with Carbon Nanotubes NANO RESEARCH  
Robinson, J. T., Welsher, K., Tabakman, S. M., Sherlock, S. P., Wang, H., Luong, R., Dai, H.  
2010; 3 (11): 779-793
213. Carbon Nanotubes Enable Noninvasive Optical Imaging of Macrophages in Mouse Atherosclerosis and Have Intrinsic Fluorescence for Near Infrared Imaging Scientific Sessions on Arteriosclerosis, Thrombosis and Vascular Biology  
Kitagawa, T., Kosuge, H., Sherlock, S., Bogyo, M., Dai, H., McConnell, M.  
LIPPINCOTT WILLIAMS & WILKINS.2010: E298-E298
214. Selective Etching of Graphene Edges by Hydrogen Plasma JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Xie, L., Jiao, L., Dai, H.  
2010; 132 (42): 14751-14753
215. Mn<sub>3</sub>O<sub>4</sub>-Graphene Hybrid as a High-Capacity Anode Material for Lithium Ion Batteries JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Wang, H., Cui, L., Yang, Y., Casalongue, H. S., Robinson, J. T., Liang, Y., Cui, Y., Dai, H.  
2010; 132 (40): 13978-13980
216. TiO<sub>2</sub> Nanocrystals Grown on Graphene as Advanced Photocatalytic Hybrid Materials NANORESEARCH  
Liang, Y., Wang, H., Casalongue, H. S., Chen, Z., Dai, H.  
2010; 3 (10): 701-705
217. Etching and narrowing of graphene from the edges NATURE CHEMISTRY  
Wang, X., Dai, H.  
2010; 2 (8): 661-665
218. Edge magnetotransport fingerprints in disordered graphene nanoribbons PHYSICAL REVIEW B  
Poumirol, J., Cresti, A., Roche, S., Escoffier, W., Goiran, M., Wang, X., Li, X., Dai, H., Raquet, B.  
2010; 82 (4)
219. Ni(OH)<sub>2</sub> Nanoplates Grown on Graphene as Advanced Electrochemical Pseudocapacitor Materials JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Wang, H., Casalongue, H. S., Liang, Y., Dai, H.  
2010; 132 (21): 7472-7477
220. Aligned graphene nanoribbons and crossbars from unzipped carbon nanotubes NANO RESEARCH  
Jiao, L., Zhang, L., Ding, L., Liu, J., Dai, H.  
2010; 3 (6): 387-394
221. Ultrahigh Sensitivity Carbon Nanotube Agents for Photoacoustic Molecular Imaging in Living Mice NANO LETTERS  
de la Zerda, A., Liu, Z., Bodapati, S., Teed, R., Vaithilingam, S., Khuri-Yakub, B. T., Chen, X., Dai, H., Gambhir, S. S.  
2010; 10 (6): 2168-2172
222. Facile synthesis of high-quality graphene nanoribbons NATURE NANOTECHNOLOGY  
Jiao, L., Wang, X., Diankov, G., Wang, H., Dai, H.  
2010; 5 (5): 321-325

223. Nanocrystal Growth on Graphene with Various Degrees of Oxidation JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Wang, H., Robinson, J. T., Diankov, G., Dai, H.  
2010; 132 (10): 3270-?
224. Multiplexed Five-Color Molecular Imaging of Cancer Cells and Tumor Tissues with Carbon Nanotube Raman Tags in the Near-Infrared NANORESEARCH  
Liu, Z., Tabakman, S., Sherlock, S., Li, X., Chen, Z., Jiang, K., Fan, S., Dai, H.  
2010; 3 (3): 222-233
225. Projected Performance Advantage of Multilayer Graphene Nanoribbons as a Transistor Channel Material NANORESEARCH  
Ouyang, Y., Dai, H., Guo, J.  
2010; 3 (1): 8-15
226. High Performance In Vivo Near-IR ( $>1 \mu\text{m}$ ) Imaging and Photothermal Cancer Therapy with Carbon Nanotubes. Nano research  
Robinson, J. T., Welsher, K. n., Tabakman, S. M., Sherlock, S. P., Wang, H. n., Luong, R. n., Dai, H. n.  
2010; 3 (11): 779-93
227. Optical Properties of Single-Walled Carbon Nanotubes Separated in a Density Gradient; Length, Bundling, and Aromatic Stacking Effects. The journal of physical chemistry. C, Nanomaterials and interfaces  
Tabakman, S. M., Welsher, K. n., Hong, G. n., Dai, H. n.  
2010; 114 (46): 19569-75
228. High-Contrast In Vivo Visualization of Microvessels Using Novel FeCo/GC Magnetic Nanocrystals MAGNETIC RESONANCE IN MEDICINE  
Lee, J. H., Sherlock, S. P., Terashima, M., Kosuge, H., Suzuki, Y., Goodwin, A., Robinson, J., Seo, W. S., Liu, Z., Luong, R., McConnell, M. V., Nishimura, D. G., Dai, et al  
2009; 62 (6): 1497-1509
229. Simultaneous Nitrogen Doping and Reduction of Graphene Oxide JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Li, X., Wang, H., Robinson, J. T., Sanchez, H., Diankov, G., Dai, H.  
2009; 131 (43): 15939-15944
230. Carbon Nanotubes Allow Fluorescence Imaging of Macrophages in Mouse Carotid Atherosclerosis 82nd National Conference and Exhibitions and Scientific Sessions of the American Heart Association  
Kosuge, H., Terashima, M., Sherlock, S., Kitagawa, T., Dai, H., McConnell, M. V.  
LIPPINCOTT WILLIAMS & WILKINS.2009: S1113-S1113
231. A route to brightly fluorescent carbon nanotubes for near-infrared imaging in mice NATURE NANOTECHNOLOGY  
Welsher, K., Liu, Z., Sherlock, S. P., Robinson, J. T., Chen, Z., Daranciang, D., Dai, H.  
2009; 4 (11): 773-780
232. Hierarchy of Electronic Properties of Chemically Derived and Pristine Graphene Probed by Microwave Imaging NANOLETTERS  
Kundhikanjana, W., Lai, K., Wang, H., Dai, H., Kelly, M. A., Shen, Z.  
2009; 9 (11): 3762-3765
233. COLL 346-Brightly fluorescent carbon nanotubes for near infrared imaging in mice Welsher, K., Liu, Z., Sherlock, S., Robinson, J., Chen, Z., Daranciang, D., Dai, H.  
AMER CHEMICAL SOC.2009
234. Chemically derived graphene nanoribbons and large-scale high quality graphene sheets: Synthesis, assembly, and devices Li, X., Wang, X., Wang, H., Dai, H.  
AMER CHEMICAL SOC.2009
235. Chemically derived graphene nanoribbons and large-scale high quality graphene sheets: Synthesis, assembly, and devices Li, X., Dai, H.  
AMER CHEMICAL SOC.2009: 25-25
236. ANYL 250-Carbon nanotube as Raman tag for biomolecule sensing Chen, Z., Tabakman, S., Dai, H.  
AMER CHEMICAL SOC.2009

237. Solvothermal Reduction of Chemically Exfoliated Graphene Sheets JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Wang, H., Robinson, J. T., Li, X., Dai, H.  
2009; 131 (29): 9910-?
238. N-Doping of Graphene Through Electrothermal Reactions with Ammonia SCIENCE  
Wang, X., Li, X., Zhang, L., Yoon, Y., Weber, P. K., Wang, H., Guo, J., Dai, H.  
2009; 324 (5928): 768-771
239. Narrow graphene nanoribbons from carbon nanotubes NATURE  
Jiao, L., Zhang, L., Wang, X., Diankov, G., Dai, H.  
2009; 458 (7240): 877-880
240. PEG Branched Polymer for Functionalization of Nanomaterials with Ultralong Blood Circulation JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Prencipe, G., Tabakman, S. M., Welsher, K., Liu, Z., Goodwin, A. P., Zhang, L., Henry, J., Dai, H.  
2009; 131 (13): 4783-4787
241. Chemical Self-Assembly of Graphene Sheets NANORESEARCH  
Wang, H., Wang, X., Li, X., Dai, H.  
2009; 2 (4): 336-342
242. Optical Characterizations and Electronic Devices of Nearly Pure (10,5) Single-Walled Carbon Nanotubes JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Zhang, L., Tu, X., Welsher, K., Wang, X., Zheng, M., Dai, H.  
2009; 131 (7): 2454-?
243. Carbon Nanotubes in Biology and Medicine: In vitro and in vivo Detection, Imaging and Drug Delivery NANORESEARCH  
Liu, Z., Tabakman, S., Welsher, K., Dai, H.  
2009; 2 (2): 85-120
244. Phospholipid-Dextran with a Single Coupling Point: A Useful Amphiphile for Functionalization of Nanomaterials JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Goodwin, A. P., Tabakman, S. M., Welsher, K., Sherlock, S. P., Prencipe, G., Dai, H.  
2009; 131 (1): 289-296
245. Preparation of carbon nanotube bioconjugates for biomedical applications NATURE PROTOCOLS  
Liu, Z., Tabakman, S. M., Chen, Z., Dai, H.  
2009; 4 (9): 1372-1382
246. Multilayer Graphene Nanoribbon for 3D Stacking of the Transistor Channel  
Ouyang, Y., Dai, H., Guo, J., IEEE  
IEEE.2009: 833-+
247. Carbon Nanotubes in Biology and Medicine: In vitro and in vivo Detection, Imaging and Drug Delivery. Nanoresearch  
Liu, Z. n., Tabakman, S. n., Welsher, K. n., Dai, H. n.  
2009; 2 (2): 85-120
248. Supramolecular Stacking of Doxorubicin on Carbon Nanotubes for In Vivo Cancer Therapy ANGEWANDTE CHEMIE-INTERNATIONAL EDITION  
Liu, Z., Fan, A. C., Rakhr, K., Sherlock, S., Goodwin, A., Chen, X., Yang, Q., Felsher, D. W., Dai, H.  
2009; 48 (41): 7668-7672
249. Separation of Nanoparticles in a Density Gradient: FeCo@C and Gold Nanocrystals ANGEWANDTE CHEMIE-INTERNATIONAL EDITION  
Sun, X., Tabakman, S. M., Seo, W., Zhang, L., Zhang, G., Sherlock, S., Bai, L., Dai, H.  
2009; 48 (5): 939-942
250. Photoacoustic Molecular Imaging using Single Walled Carbon Nanotubes in Living Mice Conference on Photons Plus Ultrasound - Imaging and Sensing 2009  
de la Zerda, A., Zavaleta, C., Keren, S., Vaithilingam, S., Bodapati, S., Teed, R., Liu, Z., Levi, J., Smith, B. R., Ma, T., Oralkan, O., Cheng, Z., Chen, et al  
SPIE-INT SOC OPTICAL ENGINEERING.2009
251. Enhanced Sensitivity Carbon Nanotubes as Targeted Photoacoustic Molecular Imaging Agents Conference on Photons Plus Ultrasound - Imaging and Sensing 2009

- de la Zerda, A., Liu, Z., Zavaleta, C., Bodapati, S., Teed, R., Vaithilingam, S., Ma, T., Oralkan, O., Chen, X., Khuri-Yakub, B. T., Dai, H., Gambhir, S. S. SPIE-INT SOC OPTICAL ENGINEERING.2009
252. Synthesis of Ultrasmall Ferromagnetic Face-Centered Tetragonal FePt-Graphite Core-Shell Nanocrystals SMALL  
Seo, W. S., Kim, S. M., Kim, Y., Sun, X., Dai, H.  
2008; 4 (11): 1968-1971
253. Protein microarrays with carbon nanotubes as multicolor Raman labels NATUREBIOTECHNOLOGY  
Chen, Z., Tabakman, S. M., Goodwin, A. P., Kattah, M. G., Daranciang, D., Wang, X., Zhang, G., Li, X., Liu, Z., Utz, P. J., Jiang, K., Fan, S., Dai, et al  
2008; 26 (11): 1285-1292
254. Multiplexed multicolor Raman imaging of live cells with isotopically modified single walled carbon nanotubes JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Liu, Z., Li, X., Tabakman, S. M., Jiang, K., Fan, S., Dai, H.  
2008; 130 (41): 13540-?
255. Converting Metallic Single-Walled Carbon Nanotubes into Semiconductors by Boron/Nitrogen Co-Doping ADVANCED MATERIALS  
Xu, Z., Lu, W., Wang, W., Gu, C., Liu, K., Bai, X., Wang, E., Dai, H.  
2008; 20 (19): 3615-?
256. Carbon nanotubes as photoacoustic molecular imaging agents in living mice NATURE NANOTECHNOLOGY  
de la Zerda, A., Zavaleta, C., Keren, S., Vaithilingam, S., Bodapati, S., Liu, Z., Levi, J., Smith, B. R., Ma, T., Oralkan, O., Cheng, Z., Chen, X., Dai, et al  
2008; 3 (9): 557-562
257. Noninvasive Raman spectroscopy in living mice for evaluation of tumor targeting with carbon nanotubes NANO LETTERS  
Zavaleta, C., de la Zerda, A., Liu, Z., Keren, S., Cheng, Z., Schipper, M., Chen, X., Dai, H., Gambhir, S. S.  
2008; 8 (9): 2800-2805
258. Nano-Graphene Oxide for Cellular Imaging and Drug Delivery NANORESEARCH  
Sun, X., Liu, Z., Welsher, K., Robinson, J. T., Goodwin, A., Zaric, S., Dai, H.  
2008; 1 (3): 203-212
259. Highly conducting graphene sheets and Langmuir-Blodgett films NATURE NANOTECHNOLOGY  
Li, X., Zhang, G., Bai, X., Sun, X., Wang, X., Wang, E., Dai, H.  
2008; 3 (9): 538-542
260. Targeted single-wall carbon nanotube-mediated Pt(IV) prodrug delivery using folate as a homing device JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Dhar, S., Liu, Z., Thomale, J., Dai, H., Lippard, S. J.  
2008; 130 (34): 11467-11476
261. PEGylated nanographene oxide for delivery of water-insoluble cancer drugs JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Liu, Z., Robinson, J. T., Sun, X., Dai, H.  
2008; 130 (33): 10876-?
262. Drug delivery with carbon nanotubes for in vivo cancer treatment CANCER RESEARCH  
Liu, Z., Chen, K., Davis, C., Sherlock, S., Cao, Q., Chen, X., Dai, H.  
2008; 68 (16): 6652-6660
263. Complement activation by PEGylated single-walled carbon nanotubes is independent of C1q and alternative pathway turnover MOLECULAR IMMUNOLOGY  
Hamad, I., Hunter, A. C., Rutt, K. J., Liu, Z., Dai, H., Moghimi, S. M.  
2008; 45 (14): 3797-3803
264. Atomic layer deposition of metal oxides on pristine and functionalized graphene JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Wang, X., Tabakman, S. M., Dai, H.  
2008; 130 (26): 8152-?
265. Carrier scattering in graphene nanoribbon field-effect transistors APPLIED PHYSICS LETTERS  
Ouyang, Y., Wang, X., Dai, H., Guo, J.  
2008; 92 (24)

266. Room-temperature all-semiconducting sub-10-nm graphene nanoribbon field-effect transistors PHYSICAL REVIEW LETTERS  
Wang, X., Ouyang, Y., Li, X., Wang, H., Guo, J., Dai, H.  
2008; 100 (20)
267. Optical properties of ultrashort semiconducting single-walled carbon nanotube capsules down to sub-10 nm JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Sun, X., Zaric, S., Daranciang, D., Welsher, K., Lu, Y., Li, X., Dai, H.  
2008; 130 (20): 6551-6555
268. Peptide-coated nanotube-based biosensor for the detection of disease-specific autoantibodies in human serum BIOSENSORS & BIOELECTRONICS  
Drouvalakis, K. A., Bangsaruntip, S., Hueber, W., Kozar, L. G., Utz, P. J., Dai, H.  
2008; 23 (10): 1413-1421
269. Thermal properties of metal-coated vertically aligned single-wall nanotube arrays JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME  
Panzer, M. A., Zhang, G., Mann, D., Hu, X., Pop, E., Dai, H., Goodson, K. E.  
2008; 130 (5)
270. PHYS 711-Carbon nanotubes chemistry for potential cancer therapy 235th American-Chemical-Society National Meeting  
Liu, Z., Dai, H.  
AMER CHEMICAL SOC.2008
271. A pilot toxicology study of single-walled carbon nanotubes in a small sample of mice NATURE NANOTECHNOLOGY  
Schipper, M. L., Nakayama-Ratchford, N., Davis, C. R., Kam, N. W., Chu, P., Liu, Z., Sun, X., Dai, H., Gambhir, S. S.  
2008; 3 (4): 216-221
272. Chemically derived, ultrasmooth graphene nanoribbon semiconductors SCIENCE  
Li, X., Wang, X., Zhang, L., Lee, S., Dai, H.  
2008; 319 (5867): 1229-1232
273. Assessment of chemically separated carbon nanotubes for nanoelectronics JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Zhang, L., Zaric, S., Tu, X., Wang, X., Zhao, W., Dai, H.  
2008; 130 (8): 2686-2691
274. Circulation and long-term fate of functionalized, biocompatible single-walled carbon nanotubes in mice probed by Raman spectroscopy PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA  
Liu, Z., Davis, C., Cai, W., He, L., Chen, X., Dai, H.  
2008; 105 (5): 1410-1415
275. Selective probing and imaging of cells with single walled carbon nanotubes as near-infrared fluorescent molecules NANOLETTERS  
Welsher, K., Liu, Z., Daranciang, D., Dai, H.  
2008; 8 (2): 586-590
276. Hydrogen storage in carbon nanotubes through the formation of stable C-H bonds NANO LETTERS  
Nikitin, A., Li, X., Zhang, Z., Ogasawara, H., Dai, H., Nilsson, A.  
2008; 8 (1): 162-167
277. Nano-Graphene Oxide for Cellular Imaging and Drug Delivery. Nanoresearch  
Sun, X. n., Liu, Z. n., Welsher, K. n., Robinson, J. T., Goodwin, A. n., Zaric, S. n., Dai, H. n.  
2008; 1 (3): 203-12
278. Carbon nanotube synthesis and organization CARBON NANOTUBES  
Joselevich, E., Dai, H., Liu, J., Hata, K., Windle, A. H.  
2008; 111: 101-164
279. Selective synthesis combined with chemical separation of single-walled carbon nanotubes for chirality selection JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Li, X., Tu, X., Zaric, S., Welsher, K., Seo, W. S., Zhao, W., Dai, H.  
2007; 129 (51): 15770-?
280. Electrically driven light emission from hot single-walled carbon nanotubes at various temperatures and ambient pressures APPLIED PHYSICS LETTERS

- Wang, X., Zhang, L., Lu, Y., Dai, H., Kato, Y. K., Pop, E.  
2007; 91 (26)
281. Moment switching in nanotube magnetic force probes NANOTECHNOLOGY  
Kirtley, J. R., Deng, Z., Luan, L., Yenilmez, E., Dai, H., Moler, K. A.  
2007; 18 (46)
282. Theoretical investigations on thermal light emission from metallic carbon nanotubes IEEE TRANSACTIONS ONNANOTECHNOLOGY  
Ouyang, Y., Mann, D., Dai, H., Guo, J.  
2007; 6 (6): 682-687
283. Supramolecular chemistry on water-soluble carbon nanotubes for drug loading and delivery ACSNANO  
Liu, Z., Sun, X., Nakayama-Ratchford, N., Dai, H.  
2007; 1 (1): 50-56
284. Tomonaga-luttinger liquid features in ballistic single-walled carbon nanotubes: Conductance and shot noise PHYSICAL REVIEW LETTERS  
Kim, N. Y., Recher, P., Oliver, W. D., Yamamoto, Y., Kong, J., Dai, H.  
2007; 99 (3)
285. Soluble single-walled carbon nanotubes as longboat delivery systems for Platinum(IV) anticancer drug design JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Feazell, R. P., Nakayama-Ratchford, N., Dai, H., Lippard, S. J.  
2007; 129 (27): 8438-?
286. Measuring the capacitance of individual semiconductor nanowires for carrier mobility assessment NANOLETTERS  
Tu, R., Zhang, L., Nishi, Y., Dai, H.  
2007; 7 (6): 1561-1565
287. Electrical and thermal transport in metallic single-wall carbon nanotubes on insulating substrates JOURNAL OF APPLIEDPHYSICS  
Pop, E., Mann, D. A., Goodson, K. E., Dai, H.  
2007; 101 (9)
288. Langmuir-Blodgett assembly of densely aligned single-walled carbon nanotubes from bulk materials JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Li, X., Zhang, L., Wang, X., Shimoyama, I., Sun, X., Seo, W., Dai, H.  
2007; 129 (16): 4890-?
289. Noncovalent functionalization of carbon nanotubes by fluorescein-polyethylene glycol: Supramolecular conjugates with pH-dependent absorbance and fluorescence JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Nakayama-Ratchford, N., Bangsaruntip, S., Sun, X., Welsher, K., Dai, H.  
2007; 129 (9): 2448-?
290. siRNA delivery into human T cells and primary cells with carbon-nanotube transporters ANGEWANDTE CHEMIE-INTERNATIONALEDITION  
Liu, Z., Winters, M., Holodniy, M., Dai, H.  
2007; 46 (12): 2023-2027
291. In vivo biodistribution and highly efficient tumour targeting of carbon nanotubes in mice NATURENANOTECHNOLOGY  
Liu, Z., Cai, W., He, L., Nakayama, N., Chen, K., Sun, X., Chen, X., Dai, H.  
2007; 2 (1): 47-52
292. Electrically driven thermal light emission from individual single-walled carbon nanotubes NATURENANOTECHNOLOGY  
Mann, D., Kato, Y. K., Kinkhabwala, A., Pop, E., Cao, J., Wang, X., Zhang, L., Wang, Q., Guo, J., Dai, H.  
2007; 2 (1): 33-38
293. Parallel core-shell metal-dielectric-semiconductor germanium nanowires for high-current surround-gate field-effect transistors NANOLETTERS  
Zhang, L., Tu, R., Dai, H.  
2006; 6 (12): 2785-2789
294. FeCo/graphitic-shell nanocrystals as advanced magnetic-resonance-imaging and near-infrared agents NATURE MATERIALS  
Seo, W. S., Lee, J. H., Sun, X., Suzuki, Y., Mann, D., Liu, Z., Terashima, M., Yang, P. C., McConnell, M. V., Nishimura, D. G., Dai, H. 2006; 5 (12): 971-976

295. Selective etching of metallic carbon nanotubes by gas-phase reaction SCIENCE  
Zhang, G., Qi, P., Wang, X., Lu, Y., Li, X., Tu, R., Bangsaruntip, S., Mann, D., Zhang, L., Dai, H.  
2006; 314 (5801): 974-977
296. Single walled carbon nanotubes for transport and delivery of biological cargos 20th International Winterschool/Euroconference on Electronic Properties of Novel Materials  
Kam, N. W., Dai, H.  
WILEY-V C H VERLAG GMBH.2006: 3561-66
297. Germanium nanowires: from synthesis, surface chemistry, and assembly to devices APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING  
Wang, D., Dai, H.  
2006; 85 (3): 217-225
298. Neural stimulation with a carbon nanotube microelectrode array NANO LETTERS  
Wang, K., Fishman, H. A., Dai, H., Harris, J. S.  
2006; 6 (9): 2043-2048
299. FUEL 239-Hydrogen storage enhancement of HiPCO SWNTs by palladium catalyst doping  
Lee, Y., Bhowmick, R., Dai, H., Clemens, B. M.  
AMER CHEMICAL SOC.2006
300. Electrical transport properties and field effect transistors of carbon nanotubes NANO  
Dai, H., Javey, A., Pop, E., Mann, D., Kim, W., Lu, Y.  
2006; 1 (1): 1-13
301. Hydrogenation and hydrocarbonation and etching of single-walled carbon nanotubes JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Zhang, G., Qi, P., Wang, X., Lu, Y., Mann, D., Li, X., Dai, H.  
2006; 128 (18): 6026-6027
302. DNA functionalization of carbon nanotubes for ultrathin atomic layer deposition of high kappa dielectrics for nanotube transistors with 60 mV/decade switching JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Lu, Y. R., Bangsaruntip, S., Wang, X. R., Zhang, L., Nishi, Y., Dai, H. J.  
2006; 128 (11): 3518-3519
303. Nanotube manipulation with focused ion beam APPLIED PHYSICS LETTERS  
Deng, Z. F., Yenilmez, E., Reilein, A., Leu, J., DAI, H. J., Moler, K. A.  
2006; 88 (2)
304. Carbon nanotubes as intracellular transporters for proteins and DNA: An investigation of the uptake mechanism and pathway ANGEWANDTE CHEMIE- INTERNATIONAL EDITION  
Kam, N. W., Liu, Z. A., Dai, H. J.  
2006; 45 (4): 577-581
305. Electro-thermal transport in silicon and carbon nanotube devices 14th International Conference on Nonequilibrium Carrier Dynamics in Semiconductors  
Pop, E., Mann, D., ROWLETTE, J., Goodson, K., Dai, H.  
SPRINGER-VERLAG BERLIN.2006: 195-199
306. Thermal properties of metal-coated vertically-aligned single wall nanotube films 10th Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems  
Panzer, M., Zhang, G., Mann, D., Hu, X., Pop, E., Dai, H., Goodson, K. E.  
IEEE.2006: 1306-1313
307. Carbon nanotubes: From growth, placement and assembly control to 60mV/decade and sub-60 mV/decade tunnel transistors IEEE International Electron Devices Meeting  
Zhang, G., Wang, X., Li, X., Lu, Y., Javey, A., Dai, H.  
IEEE.2006: 160-163
308. Thermal conductance of an individual single-wall carbon nanotube above room temperature NANO LETTERS  
Pop, E., Mann, D., Wang, Q., Goodson, K. E., Dai, H. J.  
2006; 6 (1): 96-100

309. Hydrogenation of single-walled carbon nanotubes PHYSICAL REVIEW LETTERS  
Nikitin, A., Ogasawara, H., Mann, D., Denecke, R., Zhang, Z., Dai, H., Cho, K., Nilsson, A.  
2005; 95 (22)
310. Ultra-high-yield growth of vertical single-walled carbon nanotubes: Hidden roles of hydrogen and oxygen PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA  
Zhang, G. Y., Mann, D., Zhang, L., Javey, A., Li, Y. M., Yenilmez, E., Wang, Q., McVittie, J. P., Nishi, Y., Gibbons, J., Dai, H. J.  
2005; 102 (45): 16141-16145
311. Electrical contacts to carbon nanotubes down to 1 nm in diameter APPLIED PHYSICS LETTERS  
Kim, W., Javey, A., Tu, R., Cao, J., Wang, Q., Dai, H. J.  
2005; 87 (17)
312. Negative differential conductance and hot phonons in suspended nanotube molecular wires PHYSICAL REVIEW LETTERS  
Pop, E., Mann, D., Cao, J., Wang, Q., Goodson, K. E., Dai, H. J.  
2005; 95 (15)
313. Electron transport in very clean, as-grown suspended carbon nanotubes NATURE MATERIALS  
Cao, J., Wang, Q., Dai, H.  
2005; 4 (10): 745-749
314. Functionalization of carbon nanotubes via cleavable disulfide bonds for efficient intracellular delivery of siRNA and potent gene silencing JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Kam, N. W., Liu, Z., Dai, H. J.  
2005; 127 (36): 12492-12493
315. Regular arrays of 2 nm metal nanoparticles for deterministic synthesis of nanomaterials JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Javey, A., Dai, H. J.  
2005; 127 (34): 11942-11943
316. Oxidation resistant germanium nanowires: Bulk synthesis, long chain alkanethiol functionalization, and Langmuir-Blodgett assembly JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Wang, D. W., Chang, Y. L., Liu, Z., Dai, H. J.  
2005; 127 (33): 11871-11875
317. Carbon nanotubes as multifunctional biological transporters and near-infrared agents for selective cancer cell destruction PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA  
Kam, N. W., O'Connell, M., Wisdom, J. A., Dai, H. J.  
2005; 102 (33): 11600-11605
318. Carbon nanotubes as intracellular protein transporters: Generality and biological functionality JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Kam, N. W., Dai, H. J.  
2005; 127 (16): 6021-6026
319. Carbon nanotubes: Synthesis, properties and new directions (tutorial). 229th National Meeting of the American-Chemical-Society (ACS)  
Dai, H. J.  
AMER CHEMICAL SOC.2005: U910-U910
320. Robustness, scalability, and integration of a wound-response gene expression signature in predicting breast cancer survival PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA  
Chang, H. Y., Nuyten, D. S., Sneddon, J. B., Hastie, T., Tibshirani, R., Sorlie, T., Dai, H. Y., He, Y. D., Van't Veer, L. J., Bartelink, H., van de Rijn, M., Brown, P. O., van de Vijver, et al  
2005; 102 (10): 3738-3743
321. Piezoresistance of carbon nanotubes on deformable thin-film membranes APPLIED PHYSICS LETTERS  
Grow, R. J., Wang, Q., Cao, J., Wang, D. W., Dai, H. J.  
2005; 86 (9)
322. Resonances in  $J/\psi \rightarrow \phi \pi^+(\pi^-)$  and  $\phi K^+K^-$  PHYSICS LETTERS B  
Ablikim, M., Bai, J. Z., Ban, Y., Bian, J. G., Bugg, D., Cai, X., Chang, J. F., Chen, H. F., Chen, H. S., Chen, H. X., Chen, J. C., Chen, J., Chen, et al

2005; 607 (3-4): 243-253

323. Measurement of ionizing radiation using carbon nanotube field effect transistor PHYSICS IN MEDICINE AND BIOLOGY Tang, X. W., Yang, Y., Kim, W., Wang, Q., Qi, P. F., Dai, H. J., Xing, L. 2005; 50 (3): N23-N31
324. High performance n-type carbon nanotube field-effect transistors with chemically doped contacts NANOLETTERS Javey, A., Tu, R., Farmer, D. B., Guo, J., Gordon, R. G., Dai, H. J. 2005; 5 (2): 345-348
325. 2,4-dinitrobenzenesulfonyl fluoresceins as fluorescent alternatives to Ellman's reagent in thiol-quantification enzyme assays ANGEWANDTE CHEMIE- INTERNATIONAL EDITION Maeda, H., Matsuno, H., Ushida, M., Katayama, K., Saeki, K., Itoh, N. 2005; 44 (19): 2922-2925
326. Carbon nanotube electronics 19TH INTERNATIONAL CONFERENCE ON VLSI DESIGN, PROCEEDINGS Javey, A., DAI, H. J. 2005: 453-458
327. Electro-thermal transport in metallic single-wall carbon nanotubes for interconnect applications IEEE International Electron Devices Meeting Pop, E., Mann, D., Reifenberg, J., Goodson, K., Dai, H. J. IEEE.2005: 261-264
328. Fabrication of a carbon nanotube protruding electrode array for a retinal prosthesis Conference on Microfluidics, BioMEMS, and Medical Microsystems III Wang, K., Dai, H., Fishman, H. A., Harris, J. S. SPIE-INT SOC OPTICAL ENGINEERING.2005: 22-29
329. Deterministic one-to-one synthesis of germanium nanowires and individual gold nanoseed patterning for aligned arrays ANGEWANDTE CHEMIE- INTERNATIONAL EDITION Wang, D. W., Tu, R., Zhang, L., Dai, H. J. 2005; 44 (19): 2925-2929
330. Self-aligned 40 nm channel carbon nanotube field-effect transistors with subthreshold swings down to 70mV/decade Conference on Quantum Sensing and Nanophotonic Devices II Javey, A., Farmer, D., Gordon, R., DAI, H. J. SPIE-INT SOC OPTICAL ENGINEERING.2005: 14-18
331. Suspended carbon nanotube quantum wires with two gates SMALL Cao, H., Wang, Q., Wang, D. W., Dai, H. J. 2005; 1 (1): 138-141
332. Study of J/psi -> omega K+K- PHYSICS LETTERSB Ablikim, M., Bai, J. Z., Ban, Y., Bian, J. G., Bugg, D. V., Cai, X., Chang, J. F., Chen, H. F., Chen, H. S., Chen, H. X., Chen, J. C., Chen, J., Chen, et al 2004; 603 (3-4): 138-145
333. Aharonov-bohm interference and beating in single-walled carbon-nanotube interferometers PHYSICAL REVIEW LETTERS Cao, J., Wang, Q., Rolandi, M., Dai, H. J. 2004; 93 (21)
334. Electric-field-directed growth of carbon nanotubes in two dimensions 48th International Conference on Electron, Ion and Photon Beam Technology and Nanofabrication Nojeh, A., Ural, A., Pease, R. F., DAI, H. J. A V S AMER INST PHYSICS.2004: 3421-25
335. Electron beam stimulated field-emission from single-walled carbon nanotubes 48th International Conference on Electron, Ion and Photon Beam Technology and Nanofabrication Nojeh, A., Wong, W. K., Yieh, E., Pease, R. F., DAI, H. J. A V S AMER INST PHYSICS.2004: 3124-27
336. Miniature organic transistors with carbon nanotubes as quasi-one-dimensional electrodes JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Qi, P. F., Javey, A., Rolandi, M., Wang, Q., Yenilmez, E., Dai, H. J.

2004; 126 (38): 11774-11775

337. Surface chemistry and electrical properties of germanium nanowires JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Wang, D. W., Chang, Y. L., Wang, Q., Cao, J., Farmer, D. B., Gordon, R. G., Dai, H. J.  
2004; 126 (37): 11602-11611
338. Ten- to 50-nm-long quasi-ballistic carbon nanotube devices obtained without complex lithography PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA  
Javey, A., Qi, P. F., Wang, Q., Dai, H. J.  
2004; 101 (37): 13408-13410
339. Scanning electron microscopy of field-emitting individual single-walled carbon nanotubes APPLIED PHYSICS LETTERS  
Nojeh, A., Wong, W. K., Baum, A. W., Pease, R. F., Dai, H.  
2004; 85 (1): 112-114
340. Self-aligned ballistic molecular transistors and electrically parallel nanotube arrays NANOLETTERS  
Javey, A., Guo, J., Farmer, D. B., Wang, Q., Yenilmez, E., Gordon, R. G., Lundstrom, M., Dai, H. J.  
2004; 4 (7): 1319-1322
341. Nanotube molecular transporters: Internalization of carbon nanotube-protein conjugates into mammalian cells JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Kam, N. W., Jessop, T. C., Wender, P. A., Dai, H. J.  
2004; 126 (22): 6850-6851
342. Measurement of ionizing radiation using carbon nanotube field effect transistor 46th Annual Meeting of the American-Association-of-Physicists-in-Medicine  
Tang, X., Yang, Y., Kim, W., Wang, Q., Xing, L., Dai, H.  
AMER ASSOC PHYSICISTS MEDICINE AMER INST PHYSICS.2004: 1839-39
343. Dendrimer monolayers as negative and positive tone resists for scanning probe lithography NANOLETTERS  
Rolandi, M., Suez, I., Dai, H. J., Frechet, J. M.  
2004; 4 (5): 889-893
344. Ab initio study of CNT NO<sub>2</sub> gas sensor CHEMICAL PHYSICS LETTERS  
Peng, S., Cho, K. J., Qi, P. F., DAI, H. J.  
2004; 387 (4-6): 271-276
345. Carbon nanotubes: Continued innovations and challenges MRS BULLETIN  
Dresselhaus, M. S., Dai, H.  
2004; 29 (4): 237-239
346. Recent advances in methods of forming carbon nanotubes MRS BULLETIN  
Liu, J., Fan, S. S., Dai, H. J.  
2004; 29 (4): 244-250
347. Fabrication and characterization of a carbon nanotube microelectrode array for retinal prostheses Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology  
Wang, K., Dai, H., Leng, T., Mehenti, N. Z., Harris, J. S., Fishman, H.  
A. ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2004:  
U379-U379
348. Electron transport in short macromolecular carbon nanotubes. 227th National Meeting of the American-Chemical Society  
Javey, A., DAI, H. J.  
AMER CHEMICAL SOC.2004: U260-U260
349. Phospholipids-functionalized carbon nanotubes for chemical, biological and electronic applications. 227th National Meeting of the American-Chemical Society  
Kam, N. W., Kim, W., DAI, H. J.  
AMER CHEMICAL SOC.2004: U508-U508
350. Semiconducting versus metallic nanotubes: Preferential synthesis or separation. 227th National Meeting of the American-Chemical Society  
Kim, W., Li, Y. M., DAI, H. J.  
AMER CHEMICAL SOC.2004: U1277-U1277

351. High-field quasiballistic transport in short carbon nanotubes PHYSICAL REVIEW LETTERS  
Javey, A., Guo, J., Paulsson, M., Wang, Q., Mann, D., Lundstrom, M., Dai, H. J.  
2004; 92 (10)
352. Carbon nanotube field-effect transistors with integrated ohmic contacts and high-k gate dielectrics NANOLETTERS  
Javey, A., Guo, J., Farmer, D. B., Wang, Q., Wang, D. W., Gordon, R. G., Lundstrom, M., Dai, H. J.  
2004; 4 (3): 447-450
353. An investigation of the mechanisms of electronic sensing of protein adsorption on carbon nanotube devices JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Chen, R. J., Choi, H. C., Bangsaruntip, S., Yenilmez, E., Tang, X. W., Wang, Q., Chang, Y. L., Dai, H. J.  
2004; 126 (5): 1563-1568
354. Preferential growth of semiconducting single-walled carbon nanotubes by a plasma enhanced CVD method NANO LETTERS  
Li, Y. M., Mann, D., Rolandi, M., Kim, W., Ural, A., Hung, S., Javey, A., Cao, J., Wang, D. W., Yenilmez, E., Wang, Q., Gibbons, J. F., Nishi, et al  
2004; 4 (2): 317-321
355. Dispatching operation schemes of the three gorges project in cofferdam impoundment period 9th International Symposium on River Sedimentation  
Dai, H. C., He, W. S.  
TSINGHUA UNIVERSITY PRESS.2004: 292-298
356. Monolithic integration of carbon nanotube devices with silicon MOS technology NANOLETTERS  
Tseng, Y. C., Xuan, P. Q., Javey, A., Malloy, R., Wang, Q., Bokor, J., DAI, H. J.  
2004; 4 (1): 123-127
357. Germanium nanowire field-effect transistors with SiO<sub>2</sub> and high-kappa HfO<sub>2</sub> gate dielectrics APPLIED PHYSICS LETTERS  
Wang, D. W., Wang, Q., Javey, A., Tu, R., Dai, H. J., Kim, H., McIntyre, P. C., Krishnamohan, T., Saraswat, K. C.  
2003; 83 (12): 2432-2434
358. Ballistic carbon nanotube field-effect transistors NATURE  
Javey, A., Guo, J., Wang, Q., Lundstrom, M., Dai, H. J.  
2003; 424 (6949): 654-657
359. Noncovalent functionalization of carbon nanotubes for highly specific electronic biosensors PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA  
Chen, R. J., Bangsaruntip, S., Drouvalakis, K. A., Kam, N. W., Shim, M., Li, Y. M., Kim, W., Utz, P. J., DAI, H. J.  
2003; 100 (9): 4984-4989
360. Electromechanical properties of metallic, quasimetallic, and semiconducting carbon nanotubes under stretching PHYSICAL REVIEW LETTERS  
Cao, J., Wang, Q., Dai, H. J.  
2003; 90 (15)
361. Toward large arrays of multiplex functionalized carbon nanotube sensors for highly sensitive and selective molecular detection NANOLETTERS  
Pengfei, Q. F., Vermesh, O., Grecu, M., Javey, A., Wang, O., Dai, H. J., Peng, S., Cho, K. J.  
2003; 3 (3): 347-351
362. Spontaneous and selective formation of quantum dots on single-walled carbon nanotube surfaces 225th National Meeting of the American-Chemical-Society  
Choi, H. C., DAI, H. J.  
AMER CHEMICAL SOC.2003: U16-U16
363. Controlled polymerization methods for the synthesis of novel polymer architectures and materials. 225th National Meeting of the American-Chemical-Society  
Waymouth, R. M., Bowden, N. B., Willets, K. A., Gomez, F. J., Chen, R., Gavranovic, G., Fuller, G. G., DAI, H. J., HEDRICK, J. L., Hawker, C. J. AMER CHEMICAL SOC.2003: U589-U589
364. Ring opening metathesis polymerization on non-covalently functionalized single-walled carbon nanotubes CHEMICAL COMMUNICATIONS  
Gomez, F. J., Chen, R. J., Wang, D. W., Waymouth, R. M., Dai, H. J.  
2003: 190-191
365. Advancements in complementary carbon nanotube field-effect transistors IEEE International Electron Devices Meeting

- Javey, A., Wang, Q., Kim, W., Dai, H. J.  
IEEE.2003: 741–744
366. Delivery of catalytic metal species onto surfaces with dendrimer carriers for the synthesis of carbon nanotubes with narrow diameter distribution JOURNAL OF PHYSICAL CHEMISTRY B  
Choi, H. C., Kim, W., Wang, D. W., Dai, H. J.  
2002; 106 (48): 12361-12365
367. High-kappa dielectrics for advanced carbon-nanotube transistors and logic gates NATURE MATERIALS  
Javey, A., Kim, H., Brink, M., Wang, Q., Ural, A., Guo, J., McIntyre, P., McEuen, P., Lundstrom, M., DAI, H. J.  
2002; 1 (4): 241-246
368. Carbon nanotubes: Synthesis, integration, and properties ACCOUNTS OF CHEMICAL RESEARCH  
DAI, H. J.  
2002; 35 (12): 1035-1044
369. Electric-field-aligned growth of single-walled carbon nanotubes on surfaces APPLIED PHYSICS LETTERS  
Ural, A., Li, Y. M., Dai, H. J.  
2002; 81 (18): 3464-3466
370. Carbon nanotube transistor arrays for multistage complementary logic and ring oscillators NANOLETTERS  
Javey, A., Wang, Q., Ural, A., Li, Y. M., Dai, H. J.  
2002; 2 (9): 929-932
371. Ordered nanomaterial architectures: Carbon nanotubes.  
Dai, H.  
AMER CHEMICAL SOC.2002: U318–U318
372. Nanoparticles and carbon nanotubes synthesis.  
Dai, H. J.  
AMER CHEMICAL SOC.2002: U308–U308
373. Spontaneous reduction of metal ions on the sidewalls of carbon nanotubes JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Choi, H. C., Shim, M., Bangsaruntip, S., Dai, H. J.  
2002; 124 (31): 9058-9059
374. Integration of suspended carbon nanotube arrays into electronic devices and electromechanical systems APPLIED PHYSICS LETTERS  
Franklin, N. R., Wang, Q., Tombler, T. W., Javey, A., Shim, M., Dai, H. J.  
2002; 81 (5): 913-915
375. Synthesis of ultralong and high percentage of semiconducting single-walled carbon nanotubes NANO LETTERS  
Kim, W., Choi, H. C., Shim, M., Li, Y. M., Wang, D. W., Dai, H. J.  
2002; 2 (7): 703-708
376. Carbon nanotube as a model system for nanoscale science.  
Dai, H. J.  
AMER CHEMICAL SOC.2002: C46–C46
377. Functionalization of carbon nanotubes for biocompatibility and biomolecular recognition NANOLETTERS  
Shim, M., Kam, N. W., Chen, R. J., Li, Y. M., Dai, H. J.  
2002; 2 (4): 285-288
378. Wafer scale production of carbon nanotube scanning probe tips for atomic force microscopy APPLIED PHYSICS LETTERS  
Yenilmez, E., Wang, Q., Chen, R. J., Wang, D. W., Dai, H. J.  
2002; 80 (12): 2225-2227
379. Carbon nanotubes: opportunities and challenges SURFACE SCIENCE  
Dai, H. J.  
2002; 500 (1-3): 218-241

380. Imaging as-grown single-walled carbon nanotubes originated from isolated catalytic nanoparticles APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING  
Zhang, Y., Li, Y., Kim, W., Wang, D., Dai, H.  
2002; 74 (3): 325-328
381. Electrical properties and devices of large-diameter single-walled carbon nanotubes APPLIED PHYSICS LETTERS  
Javey, A., Shim, M., Dai, H. J.  
2002; 80 (6): 1064-1066
382. A new scanning probe lithography scheme with a novel metal resist ADVANCED MATERIALS  
Rolandi, M., Quate, C. F., Dai, H. J.  
2002; 14 (3): 191-?
383. Chemical profiling of single nanotubes: Intramolecular p-n-p junctions and on-tube single-electron transistors APPLIED PHYSICS LETTERS  
Kong, J., Cao, J., Dai, H. J., Anderson, E.  
2002; 80 (1): 73-75
384. Low-temperature synthesis of single-crystal germaniumnanowires by chemical vapor deposition ANGEWANDTE CHEMIE-INTERNATIONALEDITION  
Wang, D. W., DAI, H. J.  
2002; 41 (24): 4783-4786
385. Patterned growth of single-walled carbon nanotubes on full 4-inch wafers APPLIED PHYSICS LETTERS  
Franklin, N. R., Li, Y. M., Chen, R. J., Javey, A., Dai, H. J.  
2001; 79 (27): 4571-4573
386. Polymer functionalization for air-stable n-type carbon nanotube field-effect transistors JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Shim, M., Javey, A., Kam, N. W., DAI, H. J.  
2001; 123 (46): 11512-11513
387. Molecular photodesorption from single-walled carbon nanotubes APPLIED PHYSICS LETTERS  
Chen, R. J., Franklin, N. R., Kong, J., Cao, J., Tombler, T. W., Zhang, Y. G., Dai, H. J.  
2001; 79 (14): 2258-2260
388. Functionalized carbon nanotubes for molecular hydrogen sensors ADVANCED MATERIALS  
Kong, J., Chapline, M. G., DAI, H. J.  
2001; 13 (18): 1384-1386
389. Quantum interference and ballistic transmission in nanotube electron waveguides PHYSICAL REVIEW LETTERS  
Kong, J., Yenilmez, E., Tombler, T. W., Kim, W., DAI, H. J., Laughlin, R. B., Liu, L., Jayanthi, C. S., Wu, S. Y.  
2001; 87 (10)
390. Noncovalent sidewall functionalization of single-walled carbon nanotubes for protein immobilization JOURNAL OF THE AMERICAN CHEMICAL SOCIETY  
Chen, R. J., Zhang, Y. G., Wang, D. W., DAI, H. J.  
2001; 123 (16): 3838-3839
391. Integrated nanotubes for chemical sensors.  
Dai, H. J.  
AMER CHEMICAL SOC.2001: U380-U381
392. Nanotube growth and characterization CARBON NANOTUBES  
Dai, H. J.  
2001; 80: 29-53
393. Modulated chemical doping of individual carbon nanotubes SCIENCE  
Zhou, C. W., Kong, J., Yenilmez, E., DAI, H. J.  
2000; 290 (5496): 1552-1555
394. Metal coating on suspended carbon nanotubes and its implication to metal-tube interaction CHEMICAL PHYSICS LETTERS  
Zhang, Y., Franklin, N. W., Chen, R. J., Dai, H. J.

2000; 331 (1): 35-41

395. An enhanced CVD approach to extensive nanotube networks with directionality ADVANCED MATERIALS Franklin, N. R., DAI, H. J.  
2000; 12 (12): 890-894
396. Controlling nanotube growth PHYSICS WORLD DAI, H. J.  
2000; 13 (6): 43-47
397. Superconducting proximity effect in single-wall carbon nanotubes 22nd International Conference on Low Temperature Physics Morpurgo, A. F., Kong, J., Marcus, C. M., Dai, H.  
ELSEVIER SCIENCE BV.2000: 382-83
398. Electrical measurements of individual semiconducting single-walled carbon nanotubes of various diameters APPLIED PHYSICS LETTERS Zhou, C. W., Kong, J., Dai, H. J.  
2000; 76 (12): 1597-1599
399. Nanotube molecular wires as chemical sensors SCIENCE Kong, J., Franklin, N. R., Zhou, C. W., Chapline, M. G., Peng, S., Cho, K. J., DAI, H. J.  
2000; 287 (5453): 622-625
400. Intrinsic electrical properties of individual single-walled carbon nanotubes with small band gaps Physical review letters Zhou, C. n., Kong, J. n., Dai, H. n.  
2000; 84 (24): 5604-7
401. Reversible electromechanical characteristics of carbon nanotubes under local-probe manipulation Nature Tombler, T. W., Zhou, C. n., Alexseyev, L. n., Kong, J. n., Dai, H. n., Liu, L. n., Jayanthi, C. S., Tang, M. n., Wu, S. Y.  
2000; 405 (6788): 769-72
402. Nanotube molecular wires as chemical sensors Science (New York,N.Y.) Kong, J. n., Franklin, N. R., Zhou, C. n., Chapline, M. G., Peng, S. n., Cho, K. n., Dai, H. n.  
2000; 287 (5453): 622-25
403. Terabit-per-square-inch data storage with the atomic force microscope APPLIED PHYSICS LETTERS Cooper, E. B., Manalis, S. R., Fang, H., Dai, H., Matsumoto, K., Minne, S. C., Hunt, T., Quate, C. F.  
1999; 75 (22): 3566-3568
404. Gate-controlled superconducting proximity effect in carbon nanotubes SCIENCE Morpurgo, A. F., Kong, J., Marcus, C. M., Dai, H.  
1999; 286 (5438): 263-265
405. Directed growth of free-standing single-walled carbon nanotubes JOURNAL OF THE AMERICAN CHEMICAL SOCIETY Cassell, A. M., Franklin, N. R., Tombler, T. W., Chan, E. M., Han, J., DAI, H. J.  
1999; 121 (34): 7975-7976
406. Synthesis, integration, and electrical properties of individual single-walled carbon nanotubes APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING Kong, J., Zhou, C., Morpurgo, A., Soh, H. T., Quate, C. F., Marcus, C., Dai, H.  
1999; 69 (3): 305-308
407. Integrated nanotube circuits: Controlled growth and ohmic contacting of single-walled carbon nanotubes APPLIED PHYSICS LETTERS Soh, H. T., Quate, C. F., Morpurgo, A. F., Marcus, C. M., Kong, J., Dai, H. J.  
1999; 75 (5): 627-629
408. Carbon nanotubes as AFM tips: Measuring DNA molecules at the liquid/solid interface Asia-Pacific Surface and Interface Analysis Conference 1998 (APSIAC 98)  
Li, J., Cassell, A. M., DAI, H. J.  
WILEY-BLACKWELL.1999: 8-11
409. Self-oriented regular arrays of carbon nanotubes and their field emission properties SCIENCE

- Fan, S. S., Chapline, M. G., Franklin, N. R., Tombler, T. W., Cassell, A. M., DAI, H. J.  
1999; 283 (5401): 512-514
410. Self-oriented regular arrays of carbon nanotubes and their field emission properties Science (New York, N.Y.)  
Fan, S. n., Chapline, M. G., Franklin, N. R., Tombler, T. W., Cassell, A. M., Dai, H. n.  
1999; 283 (5401): 512-14
411. Gate-Controlled Superconducting Proximity Effect in Carbon Nanotubes. Science (New York, N.Y.)  
Morpurgo, A. F., Kong, J. n., Marcus, C. M., Dai, H. n.  
1999; 286 (5438): 263-65
412. Synthesis of individual single-walled carbon nanotubes on patterned silicon wafers NATURE  
Kong, J., Soh, H. T., Cassell, A. M., Quate, C. F., Dai, H. J.  
1998; 395 (6705): 878-881
413. Exploiting the properties of carbon nanotubes for nanolithography APPLIED PHYSICS LETTERS  
Dai, H. J., Franklin, N., Han, J.  
1998; 73 (11): 1508-1510
414. Chemical vapor deposition of methane for single-walled carbon nanotubes CHEMICAL PHYSICS LETTERS  
Kong, J., Cassell, A. M., Dai, H. J.  
1998; 292 (4-6): 567-574
415. Cellulose acetate hollow fiber performance for ultra-low pressure reverse osmosis International Congress on Membranes and Membrane Processes  
Hao, J. H., Dai, H. P., Yang, P. C., Wei, J. M., Wang, Z.  
ELSEVIER SCIENCE BV.1996: 217-21
416. Atmospheric studies using the High-Resolution Fly's Eye xenon flasher array Conference on Ultraviolet Atmospheric and Space Remote Sensing - Methods and Instrumentation  
Wiencke, L. R., Bird, D. J., Chen, G. F., Clay, R. W., Dai, H. Y., Dawson, B. R., Huang, M. A., Jui, C. C., Kidd, M. J., Kieda, D. B., Ko, S., Larsen, C. G., Loh, et al  
SPIE - INT SOC OPTICAL ENGINEERING.1996: 241-251
417. An analysis of criteria for the evaluation of learning performance 1996 Australian/New-Zealand Conference on Intelligent Information Systems (ANZIIS 96)  
Dai, H. H., Liu, J., Ciesielski, V.  
IE E E.1996: 84-87
418. Actively controlled forced-steering bogie and its H-infinity controller 5th Mini Conference on Vehicle System Dynamics, Identification and Anomalies (VSDIA 96)  
Dai, H. Y., SHEN, Z. Y.  
BUDAPEST UNIV TECHNOLOGY ECONOMICS.1996: 133-140
419. Component observations of 10(17) eV EAS with the CASA-MIA and HiRes detectors 24th International Cosmic Ray Conference (XXIV ICRC)  
Bird, D. J., Borione, A., Boyer, J., Catanese, M., Chen, G. F., Clay, R. W., Covault, C. E., Cronin, J. W., Dai, H. Y., Dawson, B. R., Elbert, J. W., Fick, B. E., Fortson, et al  
ARGALIA EDITORE DELLE ARTI GRAFICHE EDITORIALI SRL.1995: 760-763
420. Atmospheric monitoring for fluorescence detector experiments 24th International Cosmic Ray Conference (XXIVICRC)  
Bird, D. J., Boyer, J., Chen, G. F., Dai, H. Y., Dawson, B. R., Elbert, J. W., Ho, Y., Huang, M. A., Jui, C. C., Kidd, M. J., Kieda, D. B., Ko, S., Larsen, et al  
ARGALIA EDITORE DELLE ARTI GRAFICHE EDITORIALI SRL.1995: 560-563
421. The HiRes2 prototype and coincident measurement with HiRes1 24th International Cosmic Ray Conference (XXIVICRC)  
Bird, D. J., Boyer, J., Chen, G. F., Clay, R. W., Dai, H. Y., Dawson, B. R., Ho, Y., Huang, A., Jui, C. C., Kidd, M. J., Kieda, D. B., Knapp, B. C., Ko, et al  
ARGALIA EDITORE DELLE ARTI GRAFICHE EDITORIALI SRL.1995: 548-551
422. The use of GPS clocks for high relative timing accuracy between HiRes sites 24th International Cosmic Ray Conference (XXIVICRC)  
Bird, D. J., Boyer, J., Chen, G. F., Clay, R. W., Dai, H. Y., Dawson, B. R., Elbert, J. W., Ho, Y., Huang, M. A., Jui, C. C., Kidd, M. J., Kieda, D. B., Ko, et al  
ARGALIA EDITORE DELLE ARTI GRAFICHE EDITORIALI SRL.1995: 746-749
423. Preliminary analysis of monocular HiRes prototype data 24th International Cosmic Ray Conference (XXIVICRC)  
Bird, D. J., Boyer, J., Chen, G. F., Dai, H. Y., Dawson, B. R., Elbert, J. W., Ho, Y., Huang, M. A., Jui, C. C., Kidd, M. J., Kieda, D. B., Ko, S., Larsen, et al

---

ARGALIA EDITORE DELLE ARTI GRAFICHE EDITORIALI SRL 1995: 500–503

424. The High Resolution Fly's Eye Project 24th International Cosmic Ray Conference (XXIVICRC)  
Bird, D. J., Boyer, J., Chen, G. F., Clay, R. W., Dai, H. Y., Dawson, B. R., Elbert, J. W., Ho, Y., Huang, A., Jui, C. C., Kidd, M. J., Kieda, D. B., Knapp, et al  
ARGALIA EDITORE DELLE ARTI GRAFICHE EDITORIALI SRL 1995: 504–507
425. Re-examination on primary cosmic ray composition above 10(17) eV 24th International Cosmic Ray Conference (XXIVICRC)  
Dai, H. Y., Ding, L. K., Jing, C. L., Jing, G. R., Loh, E. C., Ren, J. L., Zhu, Q. Q.  
ARGALIA EDITORE DELLE ARTI GRAFICHE EDITORIALI SRL 1995: 672–675