1. J. Castro, H. Gao, and T. C. Killian, "Using sheet fluorescence to probe ion dynamics in an ultracold neutral plasma", ***Plasma Phys. Control. Fusion*** 50, 124011 (2008).
2. S. Laha, P. Gupta, C. E. Simien, H. Gao, J. Castro, T. Pohl, and T. C. Killian, "Experimental Realization of an Exact Solution to the Vlasov Equations for an Expanding Plasma", ***Phys. Rev. Lett.*** 99, 155001 (2007).
3. P. Gupta, S. Laha, C. E. Simien, H. Gao, J. Castro, T. C. Killian, and T. Pohl, "Electron Temperature Evolution in Expanding Ultracold Neutral Plasmas", ***Phys. Rev. Lett.*** 99, 075005 (2007).
4. S. Laha, J. Castro, H. Gao, P. Gupta, C.E. Simien, and T.C. Killian, "Optical probes of ultracold neutral plasmas", ***AIP Conference Proceedings*** 926, 69 (2007).
5. M. White, H. Gao, M. Pasienski, and B. DeMarco, "Bose-Einstein condensates in rf-dressed adiabatic potentials", ***Phys. Rev. A*** 74, 023616 (2006).
6. Hong Gao, Mark Rosenberry, Jin Wang, and Herman Batelaan, "Experimental studies of light propagation and storage in warm atomic gases", ***J. Phys. B: At. Mol. Opt. Phys.*** 38, 1857 (2005).
7. Steve Friedman, Hong Gao, and Herman Batelaan, "Resonant atomic diffraction: real versus imaginary potentials", ***J. Mod. Opt.*** 52, 2475 (2005).
8. Hong Gao, Mark Rosenberry, and Herman Batelaan, "Light storage with light of arbitrary polarization", ***Phys. Rev. A*** 67, 053807 (2003).
9. Hong Gao, Glen Gronniger, Daniel Freimund, Alex Cronin, and Herman Batelaan, "Phase and absorption grating for electrons", ***The Expanding Frontier of Atomic Physics***, World Scientific Press, 2003, edited by H.R. Sadeghpour, E.J. Heller, and D.E. Pritchard, page 133.
10. Hong Gao, Jiasen Zhang, Shin Yoshikada, and Tadashi Aruga, "Photorefrective low-pass temporal filter", ***Opt. Commun.*** 203, 363 (2002).
11. N. Yugami, T. Higashiguchi, H. Gao, S. Sakai, K. Takahashi, H. Ito, Y. Nishida, and T. Katsouleas, "Experimental observation of radiation from Cherenkov wake in magnetized plasma", ***Phys. Rev. Lett.*** 89, 065003 (2002).
12. N. Yugami, T. Niiyama, T.Higashiguchi, H. Gao, S. Sasaki, H. Ito, and Y. Nishida, "Experimental observation of short pulse upshifted frequency microwave from laser created overdense plasma", ***Phys. Rev. E*** 65, 036505 (2002).

13. Hong Gao, Takeshi Higashiguchi, Noboru Yugami, Toshihiko Niiyama, Shigeo Sasaki, Hiroaki Ito, and Yasushi Nishida, "Further Frequency Upshift in DC to AC Radiation Converter by Perpendicular DC Magnetic Field", ***Jpn. J. Appl. Phys.*** 39(8A), L812 (2000).
14. T. Higashiguchi, N. Yugami, H. Gao, T. Niiyama, S. Sasaki, E. Takahashi, H. Ito, and Y. Nishida, "Experimental observation of further frequency upshift from DC to AC radiation converter with perpendicular DC magnetic field", ***Phys. Rev. Lett.*** 85, 4542 (2000).
15. T. Higashiguchi, N. Yugami, H. Gao, K. Takahashi, H. Ito, and Y. Nishida, "Enlarged frequency upshift from DC to AC radiation converter using boundary effect of plasma filled waveguide", ***Jpn. J. Appl. Phys.*** 39, 6578 (2000).
16. Hong Gao and Shenggang Liu, "Dispersion relation of a magnetized plasma-filled backward wave oscillator", ***Chinese Phys.*** 9, 274 (2000).
17. Shenggang Liu, Robert J. Barker, Hong Gao, Yang Yan, and Dajun Zhu, "A new hybrid ion-channel maser instability", ***IEEE Trans. Plasma Sci.*** 28, 1016 (2000).
18. Shenggang Liu, R.J. Barker, Dajun Zhu, Yang Yan, and Hong Gao, "Basic theoretical formulations of plasma microwave electronics – Part I: A fluid model analysis of electron beam – wave interactions", ***IEEE Trans. Plasma Sci.*** 28, 2135 (2000).
19. Hong Gao and Shenggang Liu, "Overview of laser-plasma accelerators", ***High Power Laser & Particle Beams*** 11, 499 (1999).
20. Hong Gao, Shuo-xing Dou, Ming-jun Chi, Hong-wei Song, Yong Zhu, and Peixian Ye, "Influence of beam polarization on the performance of a mutually pumped phase conjugator", ***Acta Physica Sinica*** *(Overseas Edition)* 7, 126 (1998).
21. Hongwei Song, S.X. Dou, Mingjun Chi, Hong Gao, Yong Zhu, and Peixian Ye, "Studies of shallow levels in undoped and rhodium-doped barium titanate", ***J. Opt. Soc. Am. B*** 15, 1329 (1998).
22. Hongwei Song, S.X. Dou, Mingjun Chi, Hong Gao, Yong Zhu, and Peixian Ye, "Light-induced absorption and properties of shallow impurity levels in undoped and Ce-doped BaTiO3", ***J. Opt. Soc. Am. B*** 15, 1850 (1998).
23. Jiasen Zhang, Hong Gao, and Peixian Ye, "Light-induced absorption spectra and properties of impurity levels in doped photorefractive BaTiO3", ***J. Appl. Phys.*** 82, 5295 (1997).

24. M.J. Chi, S.X. Dou, H. Gao, H.W. Song, Y. Zhu, and P.X. Ye, "Enhanced photorefractive properties of a Rh-doped BaTiO3 crystal at elevated temperature", ***Chin. Phys. Lett.*** 14, 838 (1997).
25. Hong Gao, S.X. Dou, Jiasen Zhang, Yong Zhu, and Peixian Ye, "Power and beam-width dependence of a BaTiO3:Ce self-pumped phase conjugator", ***Appl. Phys. B–Lasers & Optics*** 62, 153 (1996).
26. Hong Gao, S.X. Dou, Jiasen Zhang, Peixian Ye, Xuesong Wang, Baowen Zhang, Guangqian He, and Yi Cao, "A new photorefractive polymer with fast response", ***Chin. Phys. Lett.*** 13, 837 (1996).
27. Jiasen Zhang, Hong Gao, Yong Zhu, and Peixian Ye, "Reduction of fanning influence in two-wave-mixing coefficient measurements in thick crystal", ***Appl. Phys. Lett.*** 68, 2174 (1996).
28. Jiasen Zhang, Hong Gao, Shuoxing Dou, Yong Zhu, and Peixian Ye, "Studies of optical interconnection in photorefractive crystal", ***Acta Optica Sinica*** 16, 1501 (1996).
29. Jiasen Zhang, S.X. Dou, Hong Gao, Yong Zhu, and P.X. Ye, "Theory of plate-formed phase conjugator", ***Opt. Commun.*** 131, 95 (1996).
30. Jiasen Zhang, Hong Gao, Yong Zhu, and Peixian Ye, "Very-high-gain two beam coupling in Rh-doped BaTiO3 using a special pumping arrangement", ***Proc. SPIE*** 2896, 54 (1996).
31. S.X. Dou, H. Gao, J.S. Zhang, P.X. Ye, X.S. Wang, B.W. Zhang, G.Q. He, Y. Cao, H.P. Hong, Z.M. Feng, and C. Ye, "Four-wave mixing and photoconductivity properties of two photorefractive polymers", ***Proc. SPIE*** 2896, 1 (1996).
32. Jiasen Zhang, S.X. Dou, Hong Gao, Xing Wu, and Peixian Ye, "Decay of light-induced absorption in barium titanate", ***Proc. SPIE*** 2896, 32 (1996).
33. Jiasen Zhang, S.X. Dou, Hong Gao, Xing Wu, and P.X. Ye, "Temporal characteristics of decay of light-induced absorption in photorefractive BaTiO3 crystal", ***Acta Physica Sinica*** *(Overseas Edition)* 5, 833 (1996).
34. S.X. Dou, Hong Gao, Jiasen Zhang, Yong Zhu, and Peixian Ye, "Study on formation mechanism of self-pumped phase conjugation of BaTiO3:Ce at wavelengths from 570 to 680nm", ***J. Opt. Soc. Am. B*** 12, 1048 (1995).
35. Jiasen Zhang, S.X. Dou, Hong Gao, Yong Zhu, and P.X. Ye, "Wavelength dependence of two-beam coupling gain coefficients of BaTiO3:Ce crystal", ***Appl. Phys. Lett.*** 67, 458 (1995).

36. Jiasen Zhang, S.X. Dou, Hong Gao, Yong Zhu, and P.X. Ye, “Plate-formed mutually-pumped phase conjugator”, ***Opt. Lett.*** 20, 985 (1995).
37. S.X. Dou, Y.W. Lian, H. Gao, Y. Zhu, X. Wu, C.X. Yang, and P.X. Ye, “Self-pumped phase-conjugation properties of cerium-doped BaTiO3 crystals in the near-infrared”, ***Appl. Opt.*** 34, 2024 (1995).
38. S.X. Dou, Jiasen Zhang, Maogang Wang, Hong Gao, Yong Zhu, and Peixian Ye, “Theoretical studies on effects of stimulated photorefractive backscattering in self-pumped phase conjugators”, ***J. Opt. Soc. Am. B*** 12, 1056 (1995).
39. Y. Lian, H. Gao, S.X. Dou, H. Wang, P. Ye, Q. Guan, and J. Wang, “Mechanism transition of self-pumped phase conjugation in KTa1-xNbxO3 crystals”, ***Appl. Phys. B–Lasers & Optics*** 59, 655 (1994).
40. Y.W. Lian, S.X. Dou, H. Gao, Y. Zhu, X. Wu, C.X. Yang, and P.X. Ye, “Mechanism transformation with wavelength of self-pumped phase-conjugation in BaTiO3:Ce”, ***Opt. Lett.*** 19, 610 (1994).
41. Y.W. Lian, S.X. Dou, J. Zhang, H. Gao, Y. Zhu, X. Wu, C.X. Yang, and P.X. Ye, “Variation of mechanism transition wavelength of self-pumped phase-conjugation with Ce-content in BaTiO3:Ce crystals”, ***Opt. Commun.*** 110, 192 (1994).
42. Yingwu Lian, Hong Gao, Peixian Ye, Qincai Guan, and Jiyang Wang, “Self-pumped phase conjugation with a new mechanism in KTa1-xNbxO3 crystals”, ***Appl. Phys. Lett.*** 63, 1745 (1993).