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《物理》这本期刊汇集了Physical Review系列期刊中的一些物理学领域的焦点和重大研究。用简单易懂的语言和插图阐述这些研究成果，并对某一个物理学领域新的发展趋势进行探讨研究。

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5	**Physical Review E: Statistical, Nonlinear, and Soft Matter Physics**	《物理学评论**E**辑：统计、非线性和软体物理学》	2.508	数学物理学 流体、等离子物理学 引用量分别排名第一
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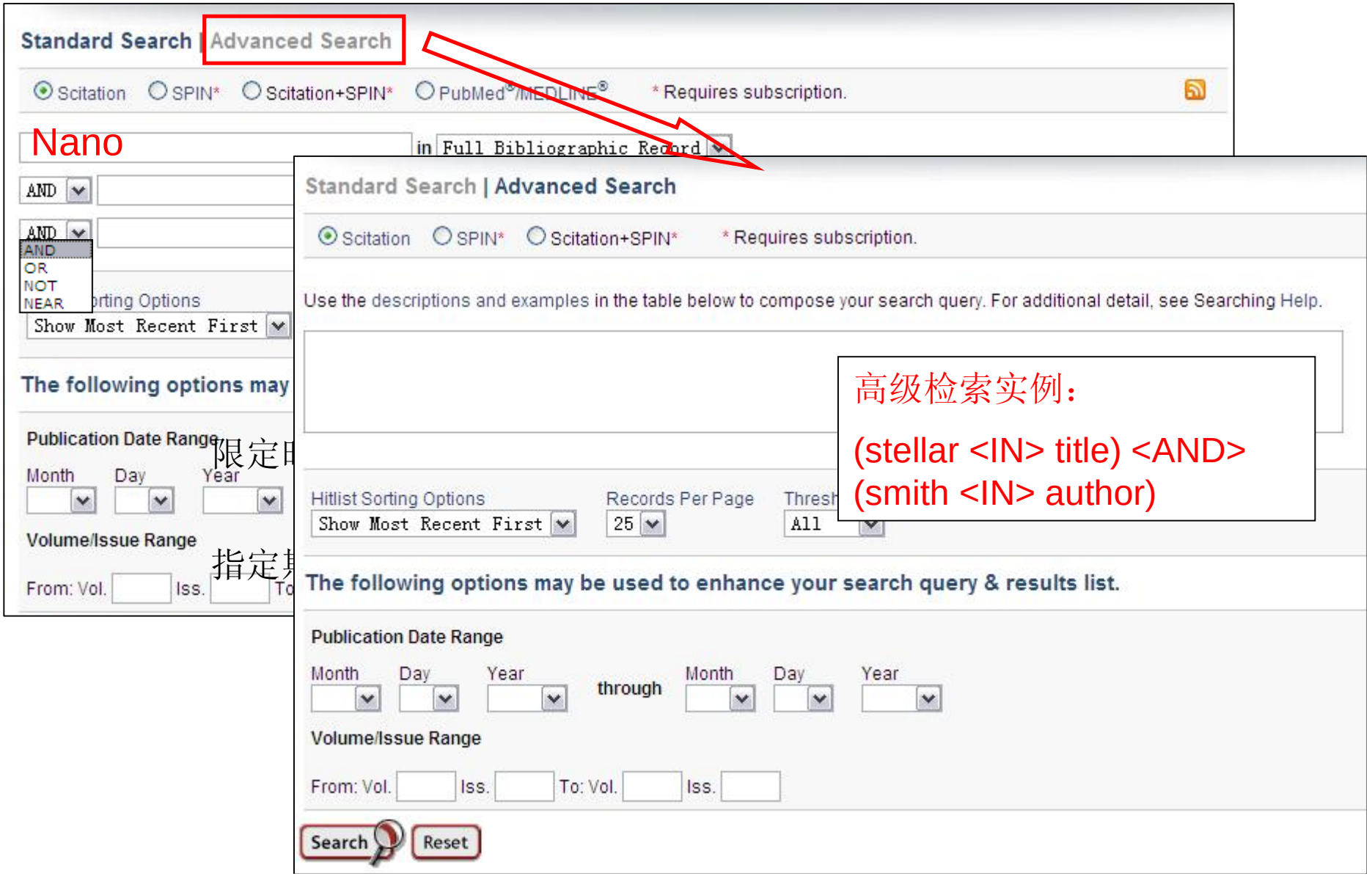

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4. Impact of Nanotechnology on Future Civil Engineering Practice and Its Reflection in Current Civil Engineering Education
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   Micro Nano Lett. **5**, 85 (2010) Full Text: [Download PDF (557 kB)] Purchase PDF

2. Rectennas performance based on substrates for bio-medical applications
   Hargsoon Yoon, Frances Williams, Kyo D. Song, Sang Y. Yang, Jae Hwan Kim, Kunsik Lee, and Sang H. Choi
   Proc. SPIE **7646**, 76460U (2010) Full Text: [Download PDF (1445 kB)] Purchase PDF

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   Proc. SPIE **7647**, 76471X (2010) Full Text: [Download PDF (1639 kB)] Purchase PDF

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   Gyu-Young Yun, Joo-Hyung Kim, Jaehwan Kim, and Chulho Yang
   Proc. SPIE **7644**, 76441S (2010) Full Text: [Download PDF (7560 kB)] Purchase PDF

5. Comprehensive design and process flow configuration for micro and nano tech devices
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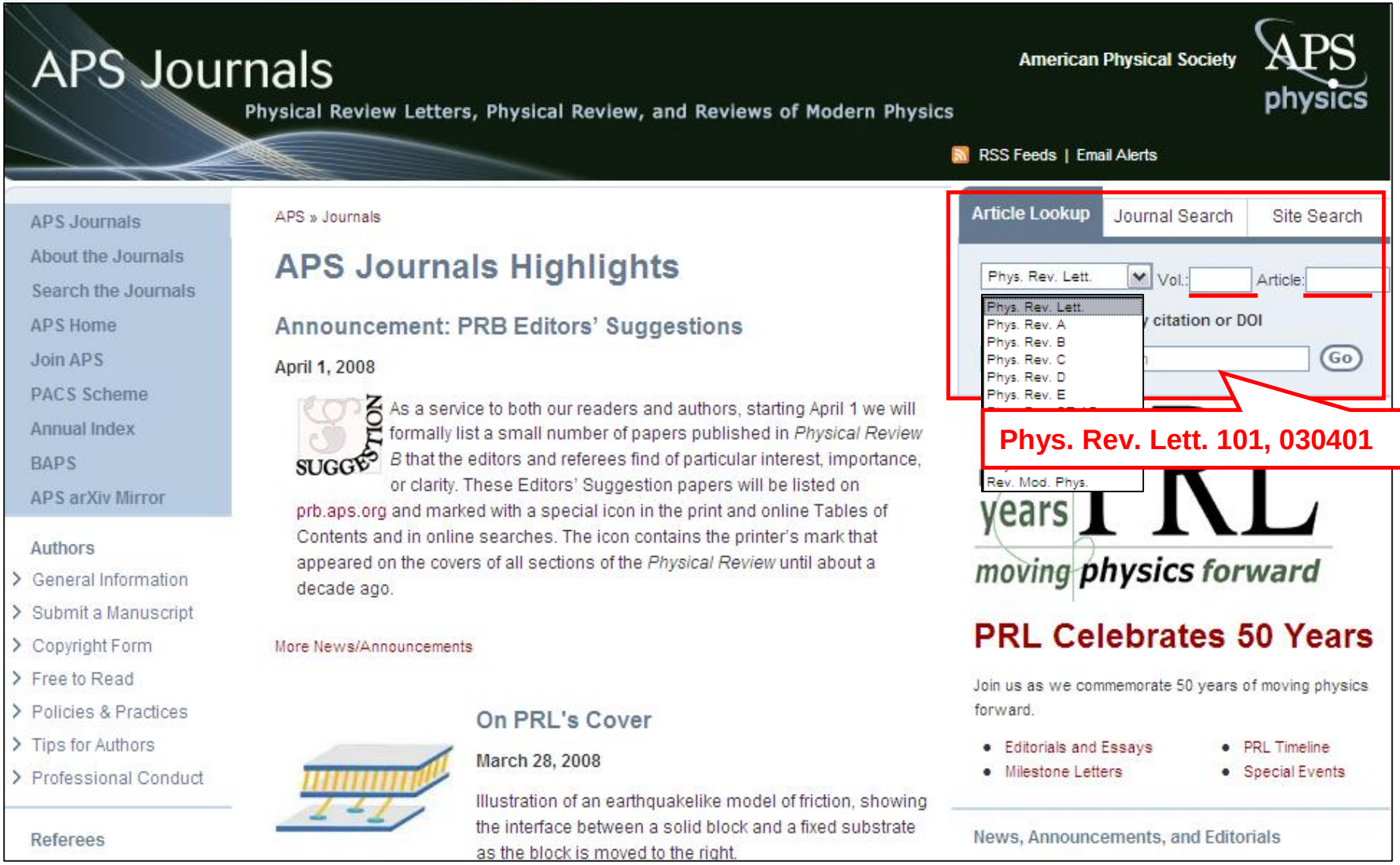

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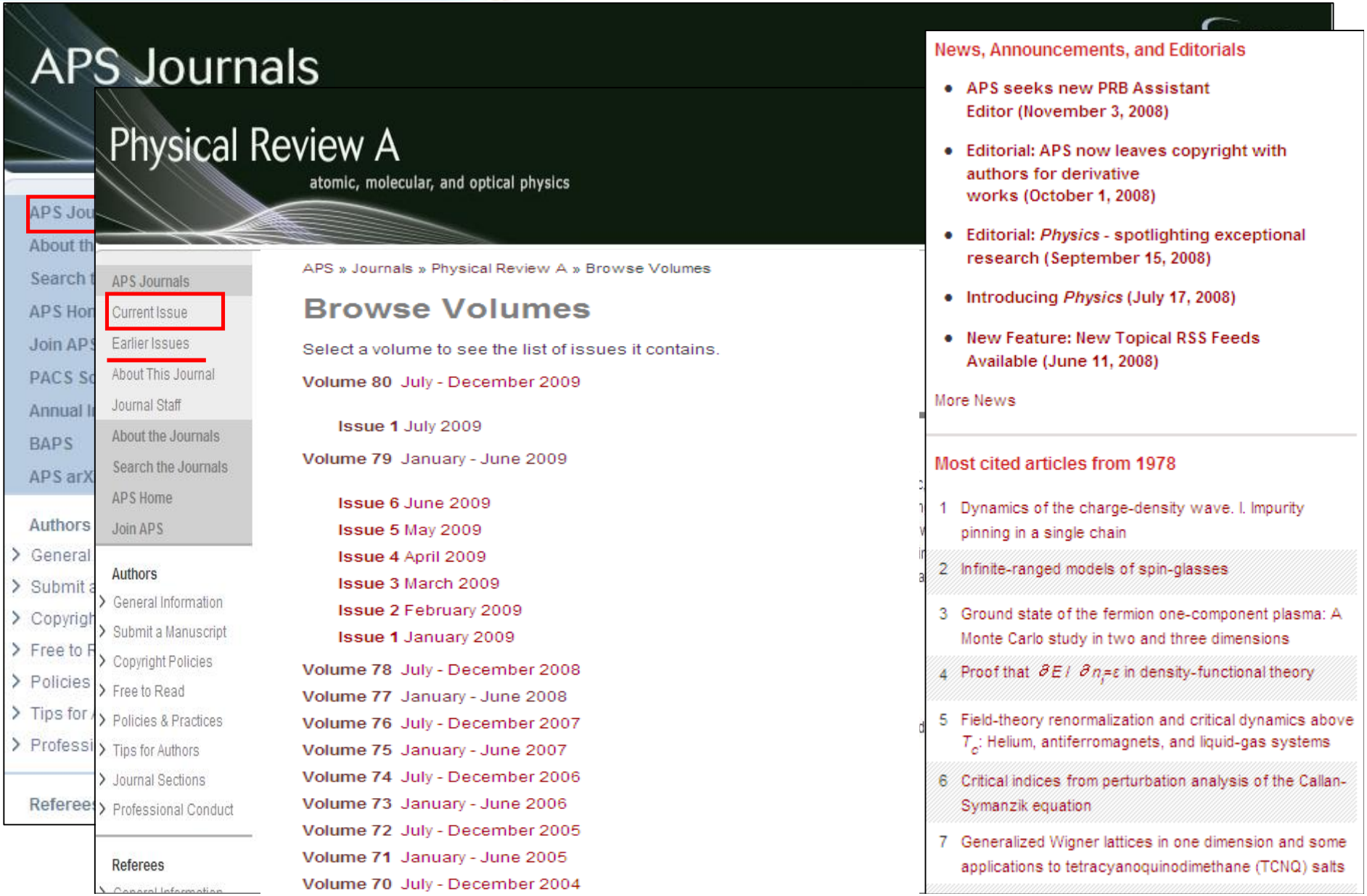

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RAPID **Entanglement detection beyond the computable cross-norm or realignment criterion**

Cheng-Jie Zhang, Yong-Sheng Zhang, Shun Zhang, and Guang-Can Guo

Published 2 June 2008 (*4 pages*)

论文摘要页面

Phys. Rev. A 81, 040301(R) (2010) [4 pages]

Tunable joint measurements in the dispersive regime of cavity QED

Kevin Lalumière[1,*], J. M. Gambetta[2], and Alexandre Blais[1]

[1]*Département de Physique, Université de Sherbrooke, Sherbrooke, Québec, Canada, J1K 2R1*

[2]*Institute for Quantum Computing and Department of Physics and Astronomy, University of Waterloo, Waterloo, Ontario, Canada, N2L 3G1*

RAPID Received 27 November 2009; published 1 April 2010

Joint measurements of multiple qubits open new possibilities for quantum information processing. Here we present an approach based on homodyne detection to realize such measurements in the dispersive regime of cavity or circuit QED. By changing details of the measurement, the readout can be tuned from extracting only single-qubit to extracting only multiqubit properties. We obtain a reduced stochastic master equation describing this measurement and its effect on the qubits. As an example, we present results showing parity measurements of two qubits. In this situation, measurement of an initially unentangled state can yield, with near unit probability, a state of significant concurrence.

URL: http://link.aps.org/doi/10.1103/PhysRevA.81.040301
DOI: 10.1103/PhysRevA.81.040301
PACS: 03.67.Lx, 03.65.Yz, 42.50.Lc, 42.50.Pq

PHYSICAL REVIEW A, **66**, 031402(R) (2002)

Double photoionization of doubly exited helium

Liang Feng and Hugo W. van der Hart

Department of Applied Mathematics and Theoretical Physics, Queen's University Belfast, Belfast BT7 1NN, United Kingdom

(Received 19 February 2002; published 23 September 2002)

The *R*-matrix-Floquet technique for atoms in strong laser fields is extended to describe double photoionization by combining it with *B*-spline basis sets. One advantage of this extended *R*-matrix-Floquet approach is that the effects of the intense laser field on double photoionization can be taken into account nonperturbatively. The results agree with existing experimental and theoretical results for double photoionization of the ground state of He within 5% above a photon energy of 4.2 a.u. We further apply this approach to study double photoionization of the autoionizing $2s^2\,{}^1S^e$ state of He to demonstrate its capability in dealing with autoionization of the initial state and photoionization simultaneously.

DOI: 10.1103/PhysRevA.66.031402 PACS number(s): 32.80.Wr, 31.15.Ar, 32.80.Gc

Double photoionization provides a sensitive probe of the correlated motion of the electrons inside an atom. Obviously, in the absence of electron-electron interaction, a single photon could not eject two electrons out of an atom simulta-

independent one by using the Floquet-Fourier ansatz. We divide configuration space into an inner and an outer region. In the inner region, the full Hamiltonian including all interactions between all electrons is employed to determine the in-

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Phys. Rev. A 80, 010101(R) (2009) [4 pages]

Equation of motion for the process matrix: Hamiltonian identification and dynamical control of open quantum systems

1. M. A. Nielsen and I. L. Chuang, *Quantum Computation and Quantum Information* (Cambridge University Press, Cambridge, England, 2000).
2. H. Rabitz et al., Science **288**, 824 (2000).
3. R. L. Kosut et al., e-print arXiv:quant-ph/0411093.
4. D. W. Leung, Ph.D. thesis, Stanford University, 2000
   G. M. D'Ariano and P. Lo Presti, Phys. Rev. Lett. **86**, 4195 (2001). [ISI]
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6. M. Mohseni and D. A. Lidar, Phys. Rev. A **75**, 062331 (2007). [ISI]
7. J. Emerson et al., Science **317**, 1893 (2007).
8. A. Bendersky et al., Phys. Rev. Lett. **100**, 190403 (2008).
9. M. Mohseni et al., Phys. Rev. A **77**, 032322 (2008).
10. M. Mohseni et al., Phys. Rev. A **77**, 042320 (2008).
11. H.-P. Breuer and F. Pertuccione, *The Theory of Open Quantum Systems* (Oxford University Press, New York, 2003).

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1. Theory of multiphoton single and double ionization of two-electron atomic systems driven by short-wavelength electric fields: An *ab initio* treatment
   Emmanuel Foumouo, Gérard Lagmago Kamta, Gaston Edah, and Bernard Piraux
   Physical Review A **74** 063409 (2006)
2. Single- and two-photon ionization of Sr
   Martin Madine, Hugo W van der Hart
   Journal of Physics B Atomic Molecular and Optical Physics **38** 1895 (2005)
3. Two- and three-photon ionization of He between 10 and 10 W cm
   Hugo W van der Hart, Peter Bingham
   Journal of Physics B Atomic Molecular and Optical Physics **38** 207 (2005)
4. Two-electron photoemission from polarized atoms
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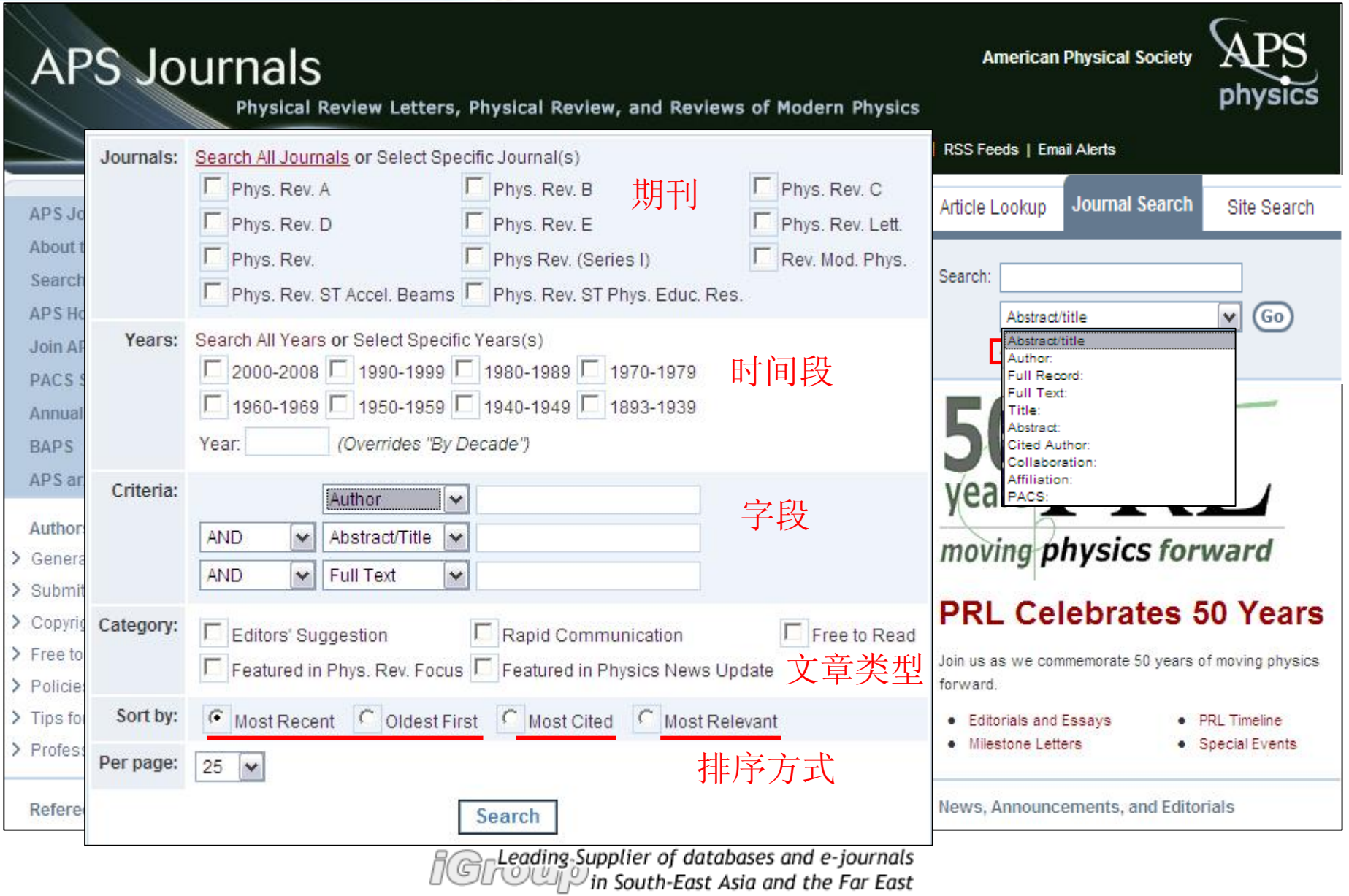

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3. Etch Patterns and Ferroelectric Domains in $BaTiO_3$ Single Crystals

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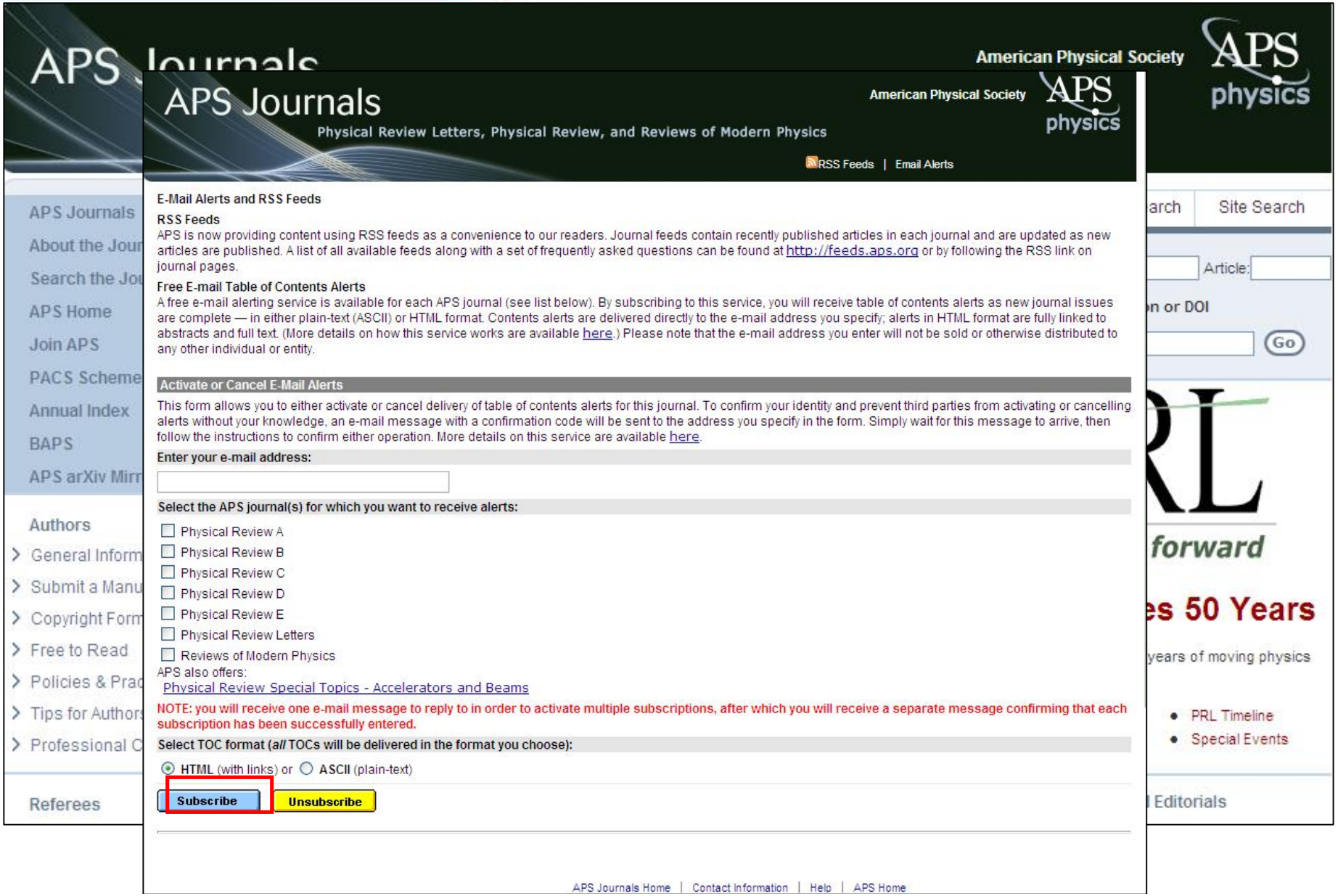

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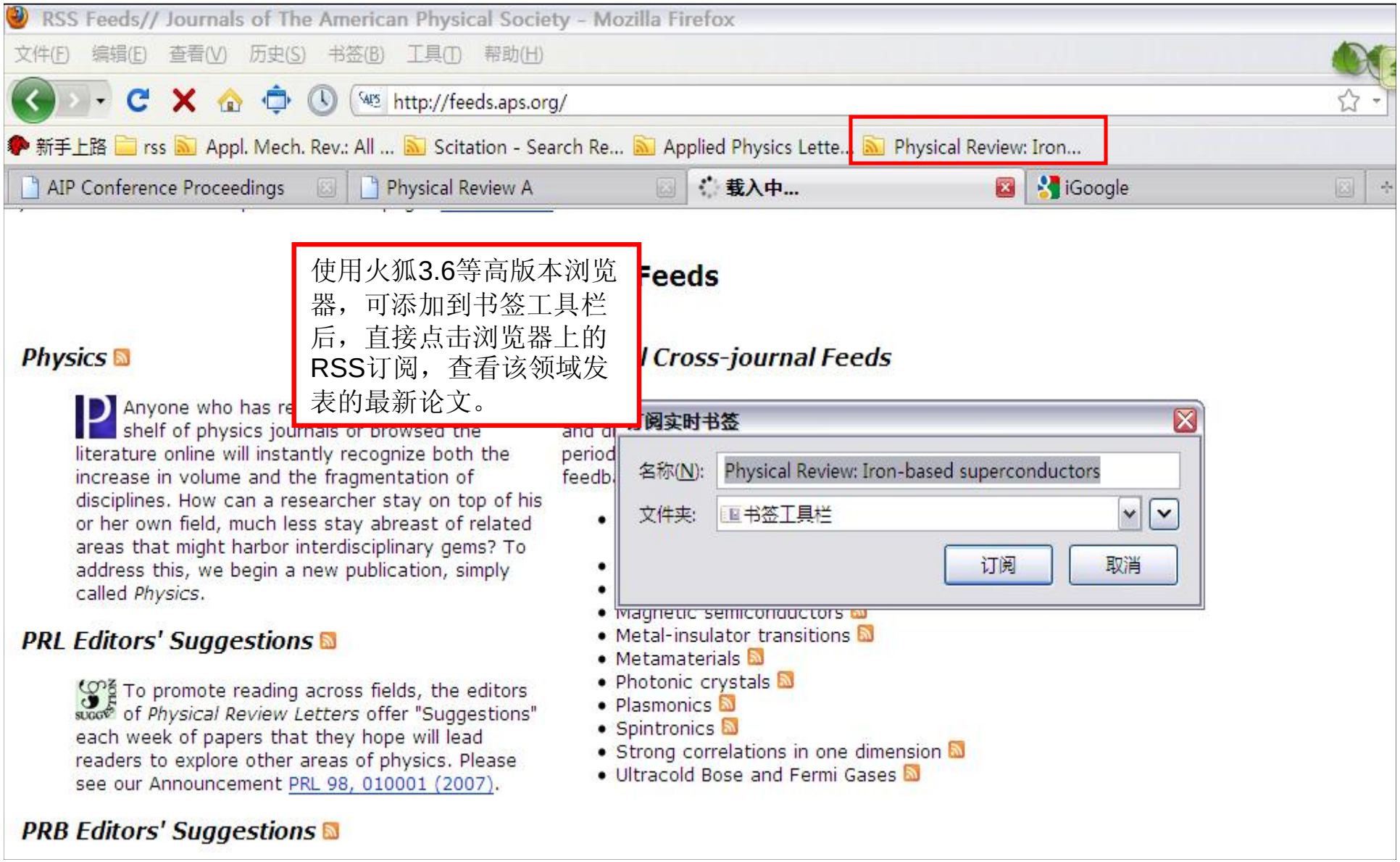

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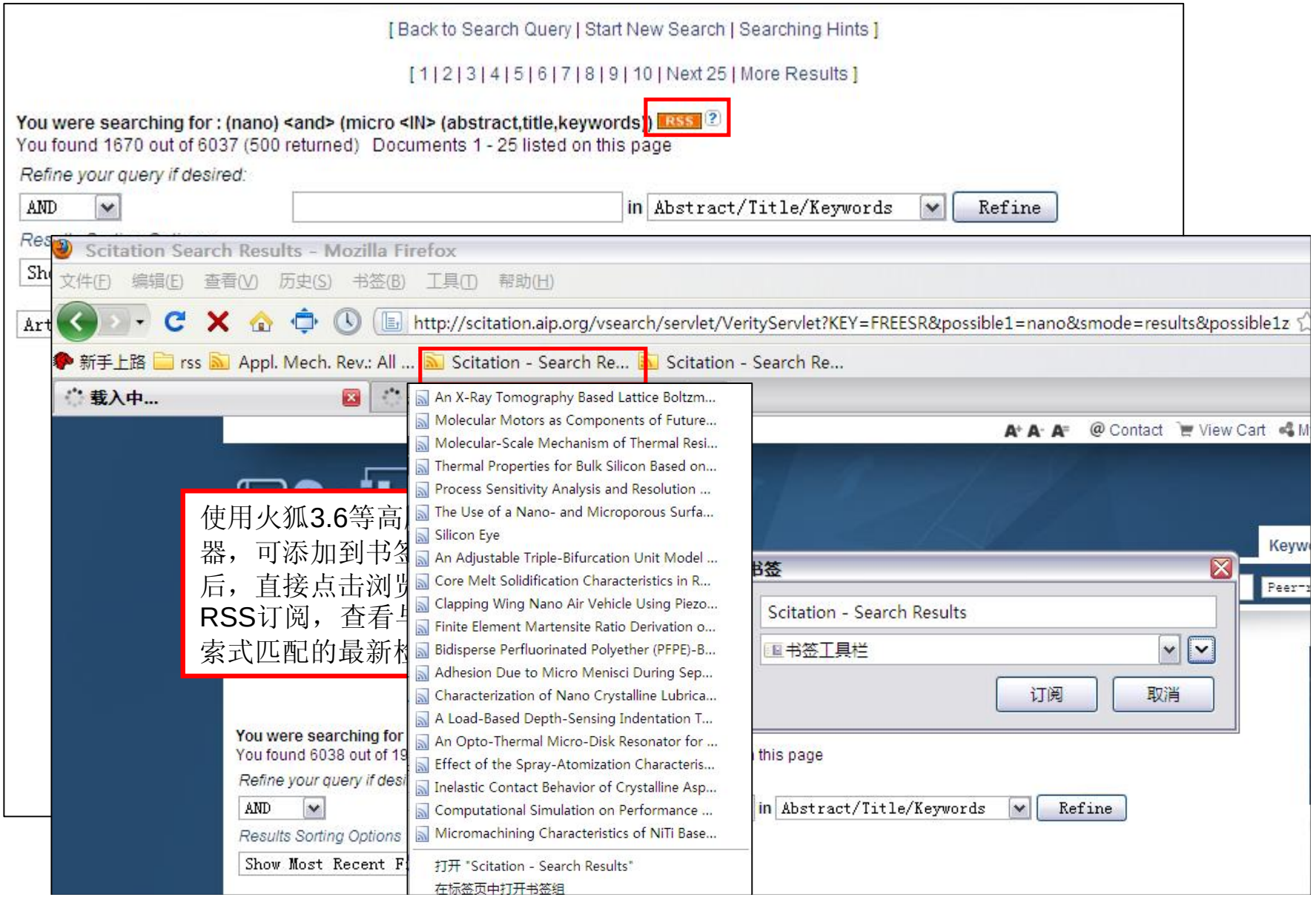

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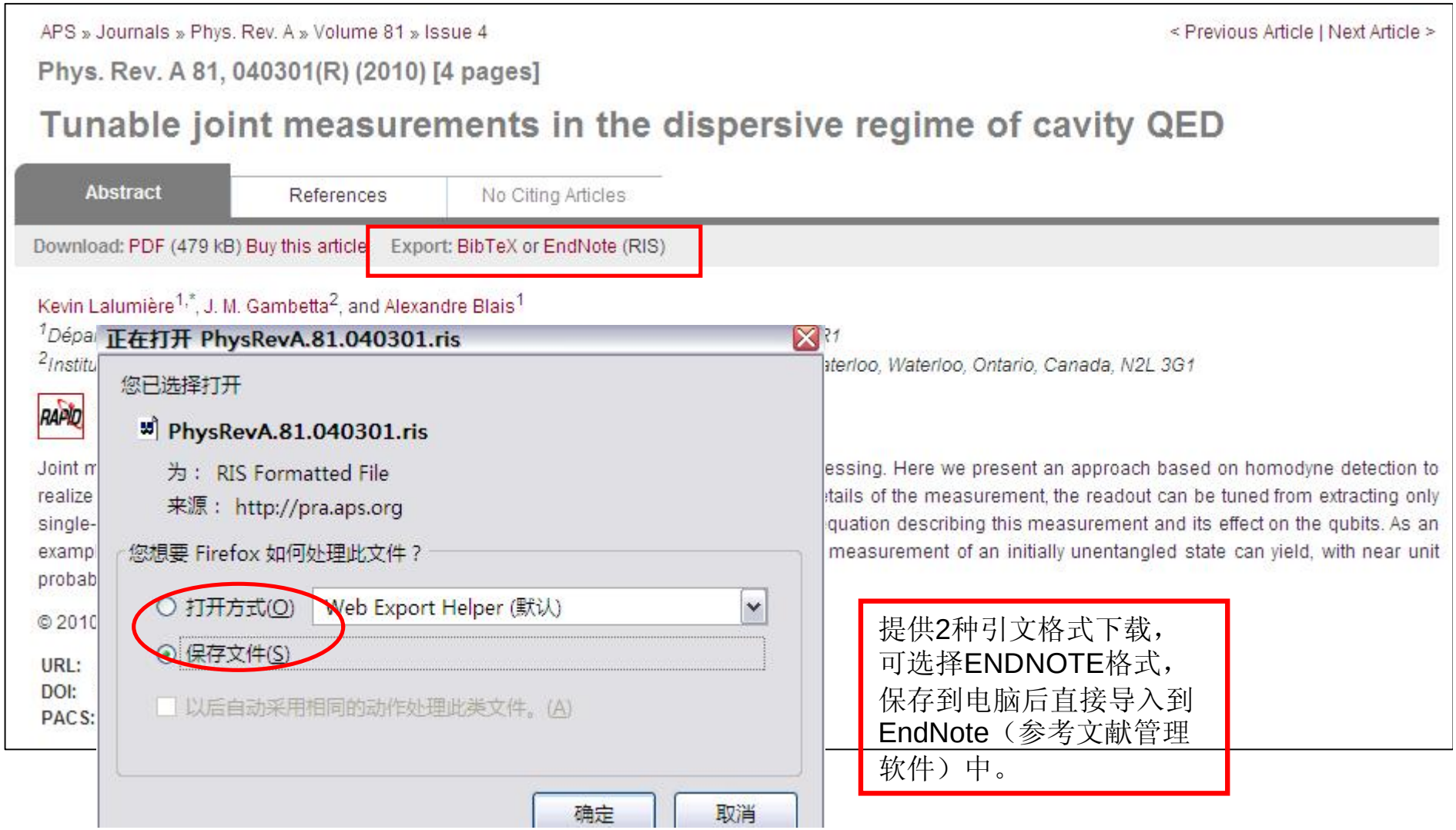

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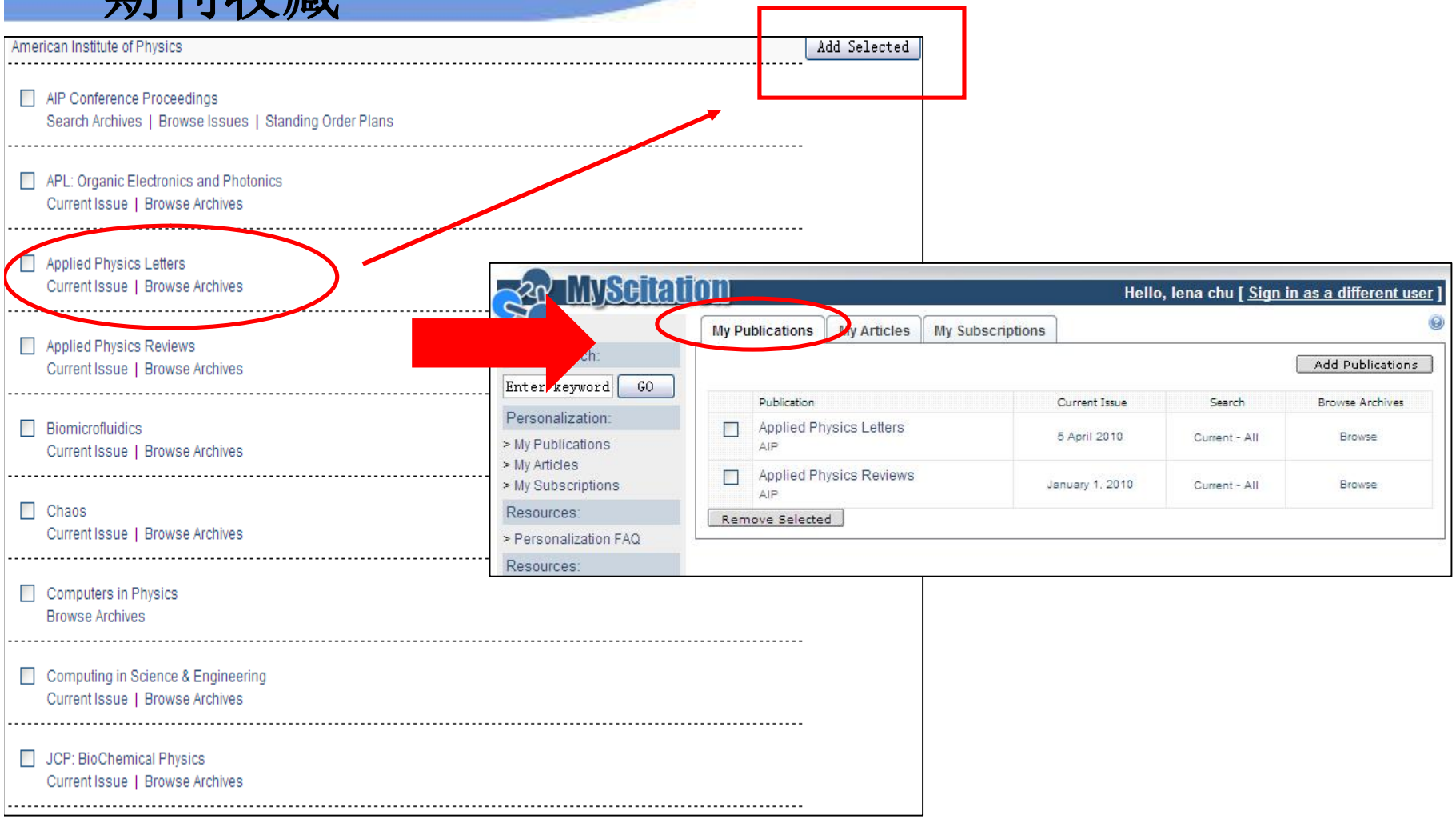

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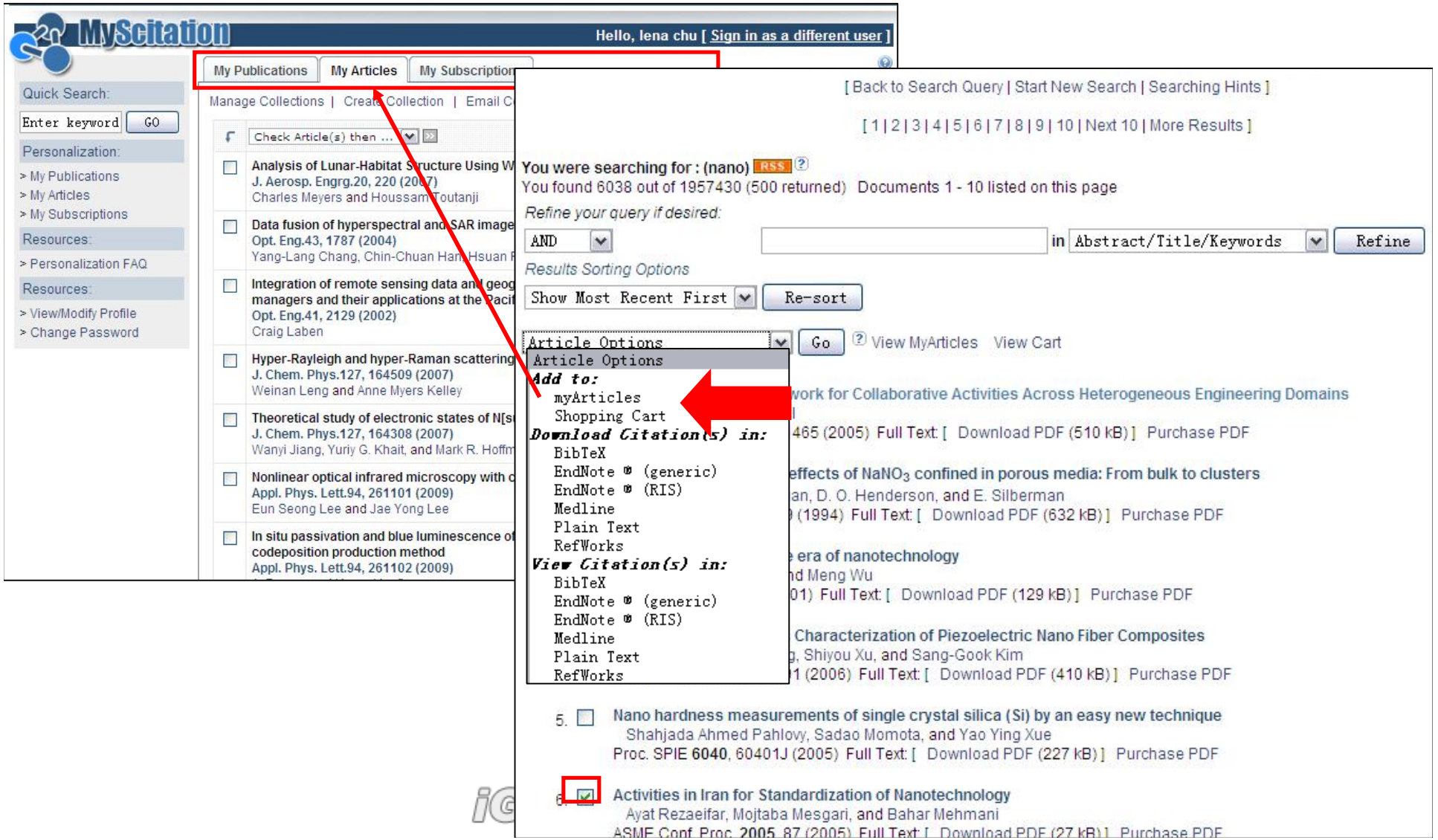

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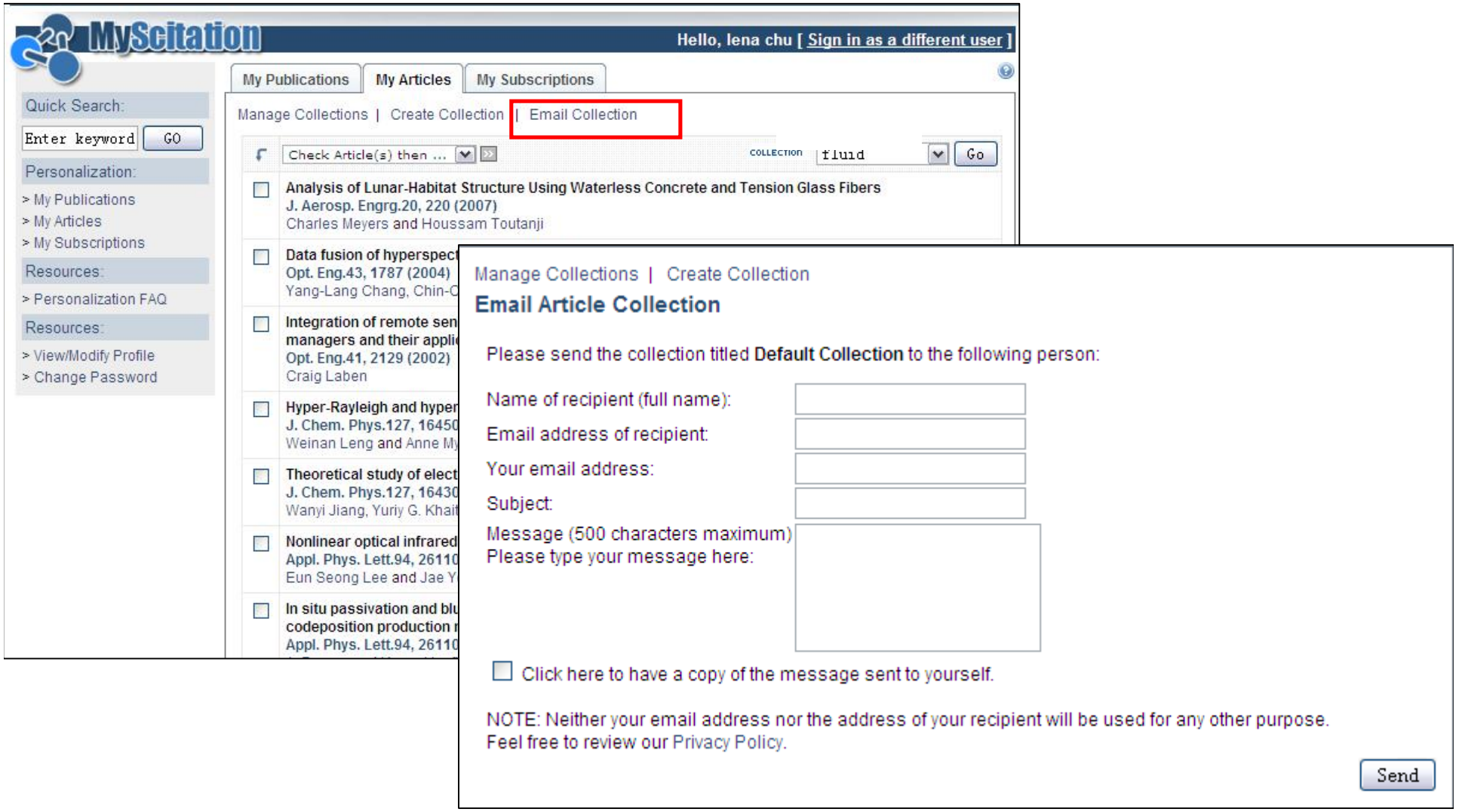

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