

Image Credit: Pupa Gilbert, University of Wisconsin-Madison (2011)

Guia de uso 2016

Conteúdo

- ⊕ Astrofísica
- ⊕ Biofísica, bioengenharia e materiais biomédicos
- ⊕ Energia renovável
- ⊕ Partículas e campos elementares
- ⊕ Física nuclear
- ⊕ Física óptica
- ⊕ Física teórica e experimental
- ⊕ Engenharia
- ⊕ Física Atômica
- ⊕ Física Quântica
- ⊕ Geofísica
- ⊕ Óptica, optoeletrônica, fotônica e física do laser
- ⊕ Colisões e Interações
- ⊕ Processos moleculares
- ⊕ Física dos materiais
- ⊕ Superfícies
- ⊕ Supercondutores
- ⊕ Semicondutores
- ⊕ Raios cósmicos
- ⊕ Concepção e aceleradores de implementação
- ⊕ Polímeros
- ⊕ Semicondutores
- ⊕ Nanotecnologia
- ⊕ E mais...



Página Principal

<http://journals.aps.org/>


The screenshot shows the APS Journals website homepage. It features a blue header with the APS logo and navigation links. The main content area is divided into sections for featured articles and announcements. Numbered callouts (1-7) point to specific elements: 1. APS logo; 2. Search bar; 3. Log in button; 4. 'Our Journals' link; 5. 'Browse' link; 6. 'Search' link; 7. 'Announcements' section.

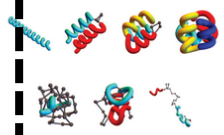
Opções de navegação e buscas:

1. Ver lista de journal e ir a página de cada um
2. Busca por Journal, vol., página, DOI, etc.
3. Log In para criação de conta pessoal
4. Navegar por Journals
5. Busca por Journal e volumes
6. Busca avançada
7. Algumas seções de journals:
 - ⊕ Capa
 - ⊕ Anúncios
 - ⊕ Editorial
 - ⊕ Comentários
 - ⊕ Oportunidades de emprego na APS

Navegar por Journals – Opção 1

APS JOURNALS
Physical Review Letters, Physical Review X, Physical Review, and Reviews of Modern Physics


[Our Journals](#) [Authors](#) [Referees](#) [Browse](#) [Search](#) 



PRL ON THE COVER
Stabilization of Helical Macromolecular Phases by Confined Bending
July 24, 2015
Stable structural phases found in simulations of helical bending-restrained semiflexible (all) and unrestrained flexible macromolecules (bottom row only).

Announcements
APS Continues as MathJax Supporter
July 1, 2015
APS continues to support the [MathJax project](#) as a MathJax Supporter. APS was one of first organizations to become a MathJax Supporter, and the support of organizations like APS over

APS JOURNALS
Physical Review Letters, Physical Review X, Physical Review, and Reviews of Modern Physics

[Our Journals](#) [Authors](#) [Referees](#) [Browse](#) [Search](#) 

Physical Review Letters
Moving physics forward
Physical Review Letters (PRL) is the premier APS journal for current research, providing rapid publication of short reports of important fundamental research in all fields of physics. PRL provides its diverse readership with weekly coverage of major advances in physics and cross-disciplinary developments.

[View Phys. Rev. Lett.](#)


Physical Review X
Committed to excellence
Physical Review X (PRX) is an online-only, fully open access, peer-reviewed journal that aims to publish, as timely as possible, exceptional original research papers from all areas of pure, applied, and interdisciplinary physics.

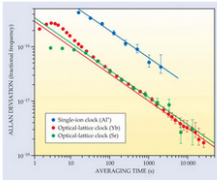
[View Phys. Rev. X](#)

Reviews of Modern Physics
Reviews of Modern Physics (RMP) brings the broad fundamental physics literature in established topical areas together and places it within the context of current trends in research and applications. Its in-depth review articles and shorter Colloquia serve students, engineers, and physics researchers in a range of fields.

[View Rev. Mod. Phys.](#)

REVIEWS OF MODERN PHYSICS

[Recent](#) [Accepted](#) [Authors](#) [Referees](#) [Search](#) [About](#) 



NEW ARTICLE
Optical atomic clocks
Since 1967 the primary time standard is the cesium atomic clock, based on a hyperfine transition in the microwave domain. The development of ultrastable laser sources now allows one to operate on electronic transitions in the optical domain, corresponding to a 5-order-of-magnitude increase in the clock frequency. This article reviews the spectacular accuracy and stability gains that can be obtained when working with laser cooled ions or neutral atoms. It also discusses some

Current Issue
Vol. 87, Iss. 2 — April - June 2015

[View Current Issue](#)

Previous Issues

Esta opção mostra uma breve descrição de cada journal, ao selecionar um deles, nos levará a página do mesmo.

Navegar por Journals – Opções 2

APS JOURNALS
Physical Review Letters, Physical Review X, Physical Review, and Reviews of Modern Physics

Our Journals Authors Referees **Browse** Search

PRL ON THE COVER
Stabilization of Helical Macromolecular Phases by Confined Bending
July 14, 2015
Stable structural phases found in simulations of helical bending-restrained semiflexible (all) and unrestrained flexible macromolecules (bottom row only).

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APS JOURNALS
Physical Review Letters, Physical Review, and Reviews of Modern Physics

Our Journals Authors Referees Browse Search

Browse

Physical Review Letters
Reviews of Modern Physics
Physical Review A
Physical Review B

PHYSICAL REVIEW LETTERS
moving physics forward

Highlights Recent Accepted Authors Referees Search About

Volumes & Issues

Volume 115 June - Present

- **Issue 1** 3 July 2015 (010401 — 019902)
- **Issue 2** 10 July 2015 (020401 — 029903)
- **Issue 3** 17 July 2015 (030401 — 039903)
- **Issue 4** 24 July 2015 (040401 — 049902)

Esta opção mostra a lista de Journals da APS, ao selecionar algum, se mostrará a relação do arquivo de volumes e edições do mesmo.

Busca simples

The screenshot shows the APS Journals website. At the top right, there is a search bar with a magnifying glass icon (1) and a dropdown arrow (2). Below the search bar, the website header includes 'APS JOURNALS' and navigation links like 'Our Journals', 'Authors', 'Referees', 'Browse', and 'Search'. A search modal window is open, showing a search dropdown (3) with 'Abstract/Title' selected, a search input field containing 'metamaterials', and a 'Search' button. Below this, there is an 'Article Lookup' section with a 'Paste a citation or DOI' input field (4) containing 'e.g. Phys. Rev. Lett. 111, 012345' and a 'Lookup' button. At the bottom of the modal, there is an 'Enter a citation' section with 'Journal:' dropdown (5) set to 'Phys. Rev. Lett.', and empty 'Volume:' and 'Article:' input fields, along with another 'Lookup' button.

1. Inserir um termo de busca, dar "click" no ícone da lupa, **ou**,
2. "clique" sobre a seta na caixa de busca, apareceram as seguintes opções:
3. Buscar um termo/palavra em:
 - Autor
 - Resumo
 - Título/resumo
 - Autor citado
 - Afiliação
 - Colaboração
4. Buscar DOI
5. Buscar por citação

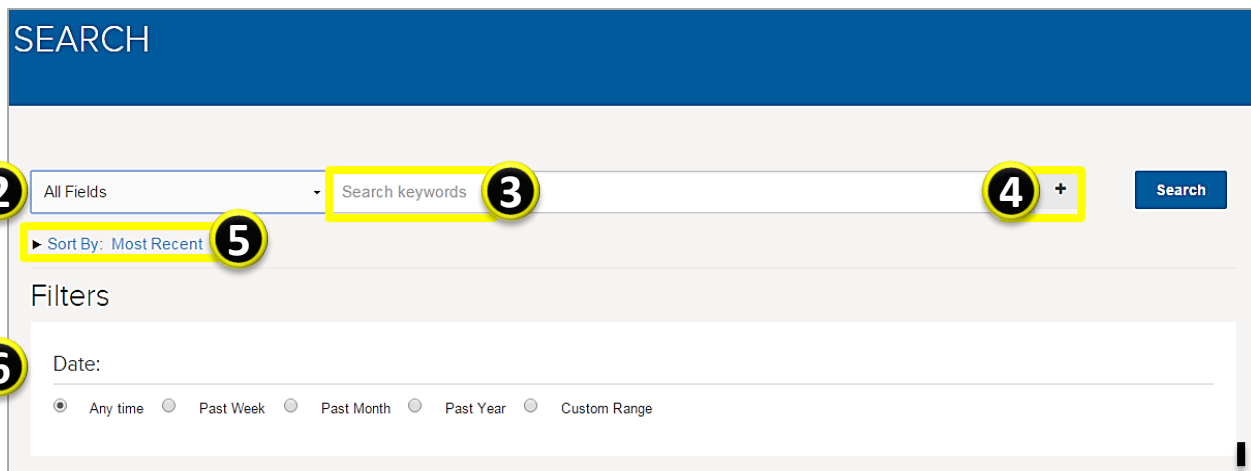
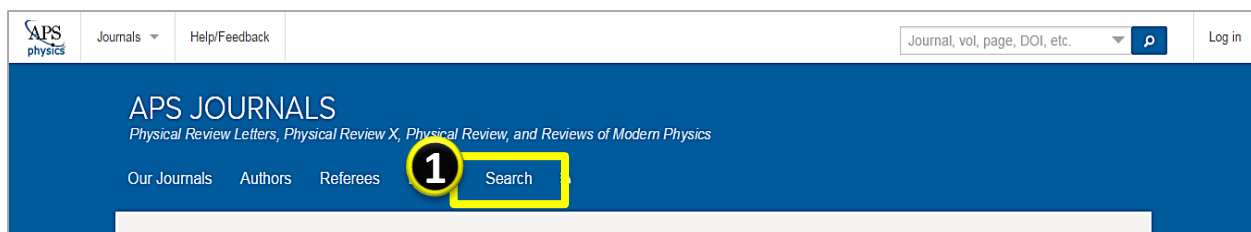
NOTA: Não é necessário preencher todos os critérios de busca mostrados

Página de resultados

The screenshot shows a search results page for 'Abstract/Title:metamaterials'. It features a sidebar on the left with filters for Highlights, Category, and Journals. The main content area lists three articles with their titles, authors, journal information, and citation counts. Each article has buttons for PDF, HTML, and Export Citation. Numbered callouts (1-9) point to specific elements: 1. Results count (1-25 of 808); 2. List of results; 3. Sort dropdown (Most Relevant); 4. Highlights section; 5. Category section; 6. Journals section; 7. Citation count; 8. PDF/HTML buttons; 9. Export Citation button.

1. Número de resultados
2. Lista de resultados
3. Ordenar por:
 - Relevância
 - Mais recente
 - Mais antigo
 - Mais citado
4. Selecionar Destaques
5. Selecionar Categoria
6. Selecionar Journal
7. Número de citações que recebeu o artigo
8. Mostrar leitura em PDF ou HTML
9. Exportar citações

Busca Avançada



1. Desde a página principal seleccione *SEARCH*, em seguida se mostrará um formato com os seguintes critérios de busca.
 2. Clique na seta ao lado de All Fields e seleccione um tipo busca a partir do menu que abrirá, com as opções : Autor, Abstract, Título, Filiação, Colaboração.
 3. Insira o termo de busca.
 4. Se necessário, pressione o símbolo + para agregar um termo de busca, utilizando os seguintes operadores booleanos predefinidos:
 - AND (Intersecção) = Reduz a busca (termo 1 AND termo 2)
 - OR = Amplia a busca, qualquer dos termos (termo 1 OR termo 2)
 - NOT = Exclusão do segundo termo (termo 1 NOT termo 2)
 5. Mostrar:
 - Mais recente
 - Mais relevante
 - Mais antigo
 - Mais citado
- Filtros por:
6. Intervalo de datas: Qualquer data, Semana passada, Mês passado, Ano passado, Série personalizada.

Continua

Busca Avançada 2

1 Journal: [Clear](#)

<input type="checkbox"/> Phys. Rev. Lett.	<input type="checkbox"/> Phys. Rev. X	<input type="checkbox"/> Rev. Mod. Phys.	<input type="checkbox"/> Phys. Rev. Applied
<input type="checkbox"/> Phys. Rev. A	<input type="checkbox"/> Phys. Rev. B	<input type="checkbox"/> Phys. Rev. C	<input type="checkbox"/> Phys. Rev. D
<input type="checkbox"/> Phys. Rev. E	<input type="checkbox"/> Phys. Rev. ST Accel. Beams	<input type="checkbox"/> Phys. Rev. ST Phys. Educ. Res.	<input type="checkbox"/> Phys. Rev.
<input type="checkbox"/> Phys. Rev. (Series I)	<input type="checkbox"/> Physics	<input type="checkbox"/> Phys. Rev. Focus	

2 Category: [Clear](#)

<input type="checkbox"/> Featured in Physics	<input type="checkbox"/> Editors' Suggestion	<input type="checkbox"/> Open Access	<input type="checkbox"/> Rapid Communication	<input type="checkbox"/> PRL Milestone
--	--	--------------------------------------	--	--

3 [Search](#)

Filtros (continuação)

1. Journals: Selecione os Journals onde deseja aplicar sua busca.
2. Categoria:
 - Destaque na Revista Physics
 - Sugestões do editor
 - Open Access
 - Comunicação rápida
 - Destaque na seção PRL Milestone
3. Efetuar busca

NOTA: Não é necessário preencher todos os critérios de pesquisa mostrado

Visualização de um artigo em HTML

1 PHYSICAL REVIEW B
condensed matter and materials physics

2 Highlights Recent Accepted Authors Referees Search About

3 Topological phases in gated bilayer graphene: Effects of Rashba spin-orbit coupling and exchange field

Zhenhua Qiao, Xiao Li, Wang-Kong Tse, Hua Jiang, Yugui Yao, and Qian Niu
Phys. Rev. B **87**, 125405 – Published 7 March 2013

4 9

Twitter Facebook More

5 Article References Citing Articles (8) PDF HTML Export Citation

6 ABSTRACT

We present a systematic study on the influence of Rashba spin-orbit coupling, interlayer potential difference, and exchange field on the topological properties of bilayer graphene. In the presence of only Rashba spin-orbit coupling and interlayer potential difference, the band gap opening due to broken out-of-plane inversion symmetry offers new possibilities of realizing tunable topological phase transitions by varying an external gate voltage. We find a two-dimensional Z_2 topological insulator phase and a quantum valley Hall phase in AB-stacked bilayer graphene and obtain their effective low-energy Hamiltonians near the Dirac points. For AA stacking, we do not find any topological insulator phase in the presence of large Rashba spin-orbit coupling. When the exchange field is also turned on, the bilayer system exhibits a rich variety of topological phases including a quantum anomalous Hall phase, and we obtain the phase diagram as a function of the Rashba spin-orbit coupling, interlayer potential difference, and exchange field.

7 Issue
Vol. 87, Iss. 12 — 15 March 2013








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1. Título do journal.
2. Opções de navegação dentro do journal
3. Referência.
4. Métrica. (ao clicar no ícone se mostram as redes sociais e outros espaços da web onde se foi compartilhado o artigo).
5. Opções para ir:
 - ↳ Corpo do artigo
 - ↳ Referências
 - ↳ Artigos que o citaram
 - ↳ Texto completo em PDF e HTML
 - ↳ Exportar citação para gerenciadores de referências
6. Resumo
7. Edição onde se encontra o artigo

Continua

Visualização de um artigo selecionado (Continuação)

1       

10 More
Received 16 November 2012

2 DOI:

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3 < >

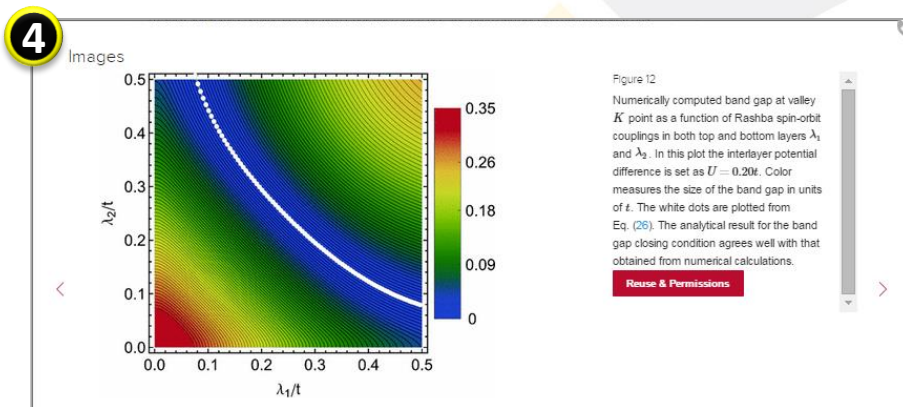
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³School of Physics, Beijing Institute of Technology, Beijing 100081, China

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The *Physical Review Journals* Celebrate the International Year of Light
The editors of the *Physical Review* journals revisit papers that represent important breakthroughs in the field of optics. The articles covered are free to read throughout 2015. [Read more.](#)



1. Imagens dentro do artigo. Para ver maior, selecione alguma delas (No. 4), encontrará a descrição da imagem e das permissões de uso.
2. DOI (Digital Object Identifier)
3. Clicar nas setas que aparecem ao longo do artigo, à esquerda e direita, para passar de um artigo para outro dentro do mesmo journal.

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