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Liang Chen | Account Manager, China



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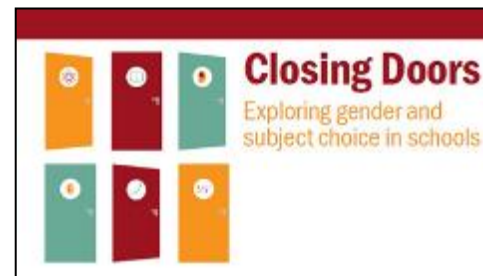
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- IOP 期刊数据库介绍及期刊推荐
- IOPscience 平台使用指南

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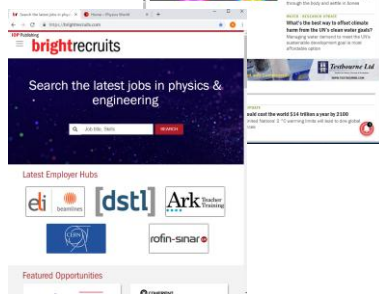
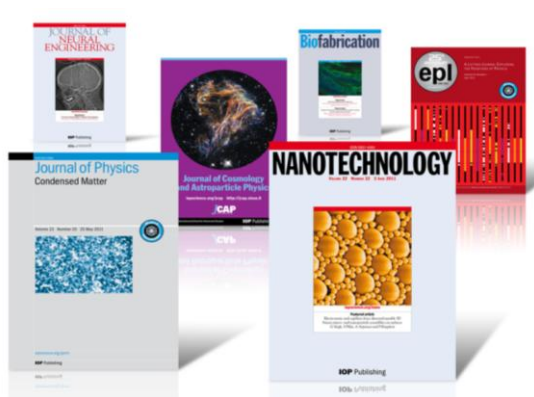
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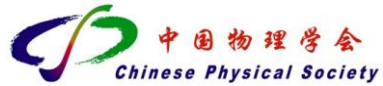
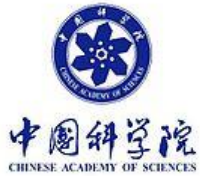


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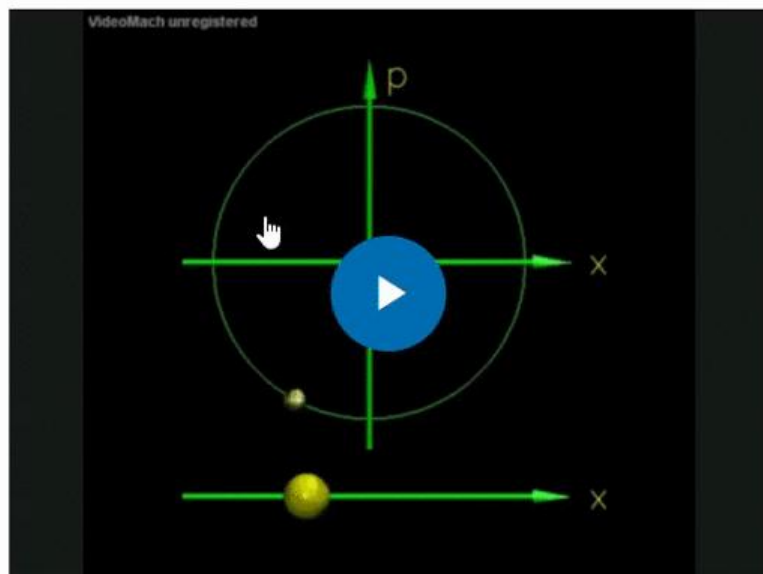
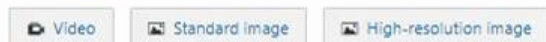


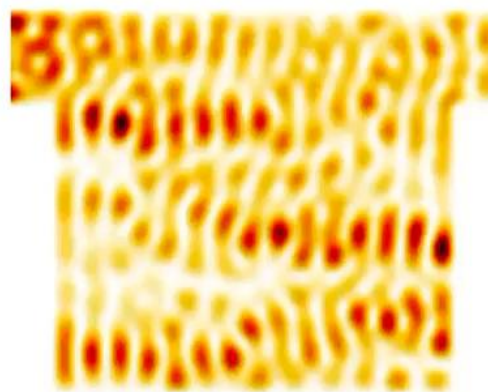
Figure 1.2. Trajectories in terms of the Lagrange and Hamiltonian formalisms. Animation available at <http://iopscience.iop.org/book/978-0-7503-1341-4>.

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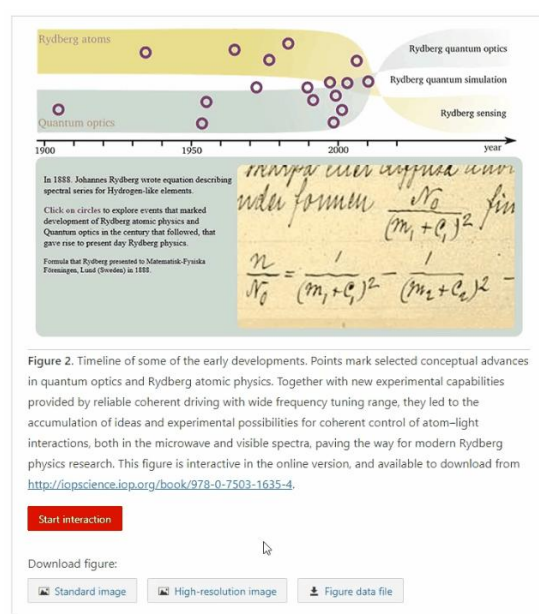
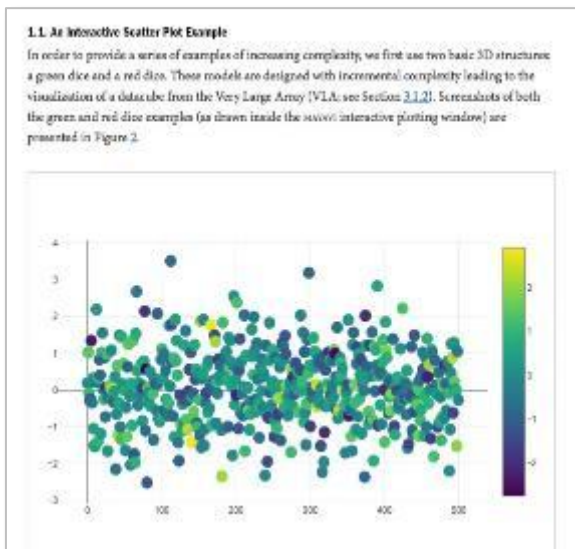


Pendulum Driven by $\tau = F\cos(\omega t)$

Phase Plot: $\dot{\theta}$ vs θ



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Lectures on General Relativity, Cosmology and Quantum Black Holes

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General relativity essentials

Badis Ydri
Published July 2017 • Copyright © IOP Publishing Ltd 2017
Pages 1-1 to 1-33



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1.6.1. Tidal gravitational forces

Let us first start by describing tidal gravitational forces in Newtonian physics. The force of gravity exerted by an object of mass M on a particle of mass m a distance r away is $\vec{F} = -\hat{r}GMm/r^2$, where \hat{r} is the unit vector pointing from M to m and r is the distance between the center of M and m . The corresponding acceleration is $\vec{a} = -\hat{r}GM/r^2 = -\nabla\phi$. We assume now that the mass m is spherical of radius Δr . The distance of M and the center of m is r . The force of gravity exerted by the mass M on a particle of mass m at a distance $r \pm \Delta r$ away on the line joining the centers of M and m is given by $\vec{F} = -\frac{GMm}{r^2}$. The corresponding acceleration is

$$\vec{a} = -\hat{r}GM \frac{1}{(r + \Delta r)^2} = -\hat{r}GM \frac{1}{r^2} \quad (1.99)$$

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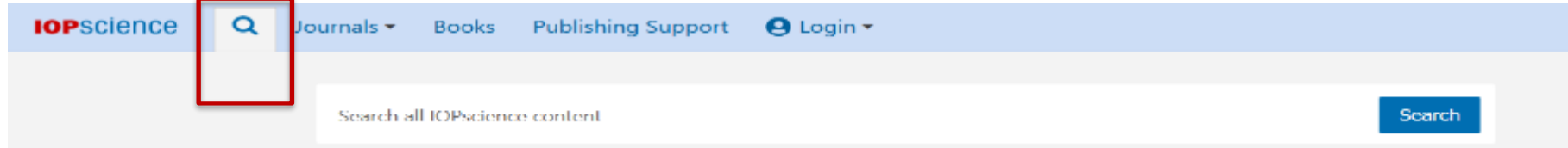
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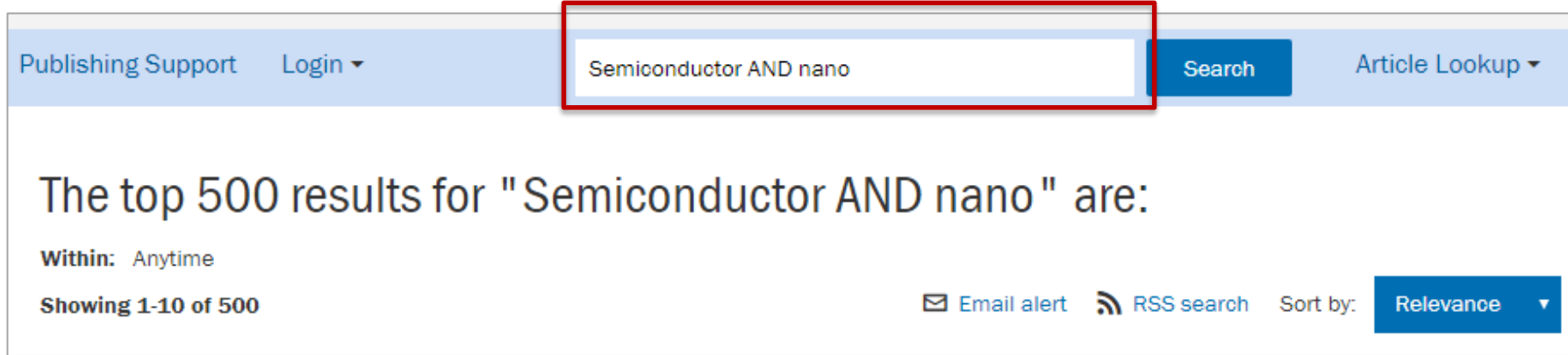
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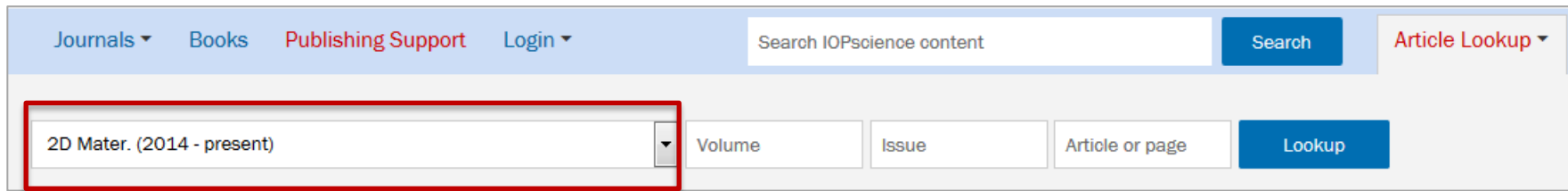
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O A Ageev, E G Zamburg, A S Kolomytsev, D O Suchkov, I A Shipulin and A V Shumov

2015 *J. Phys.: Conf. Ser.* **643** 012031 <https://doi.org/10.1088/1742-6596/643/1/012031>

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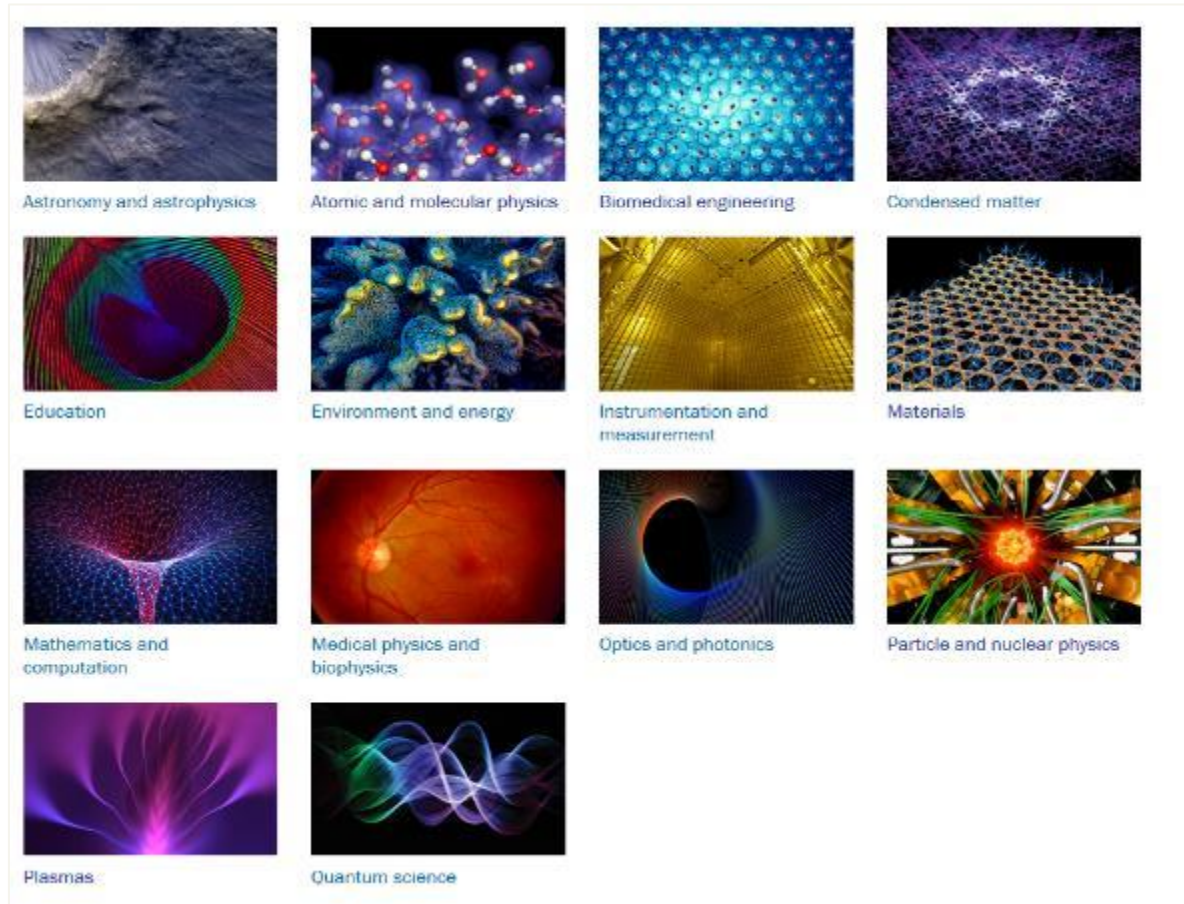
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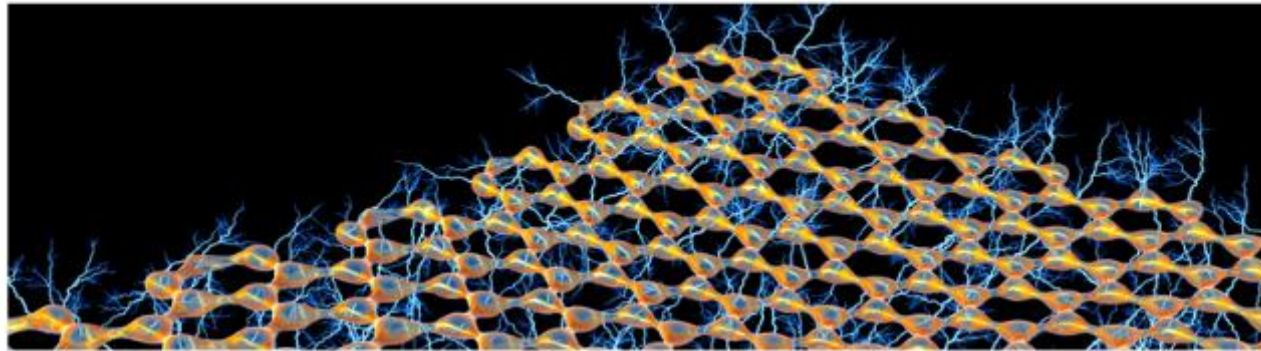


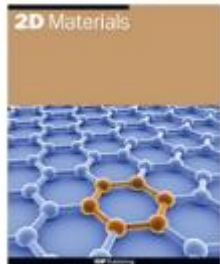
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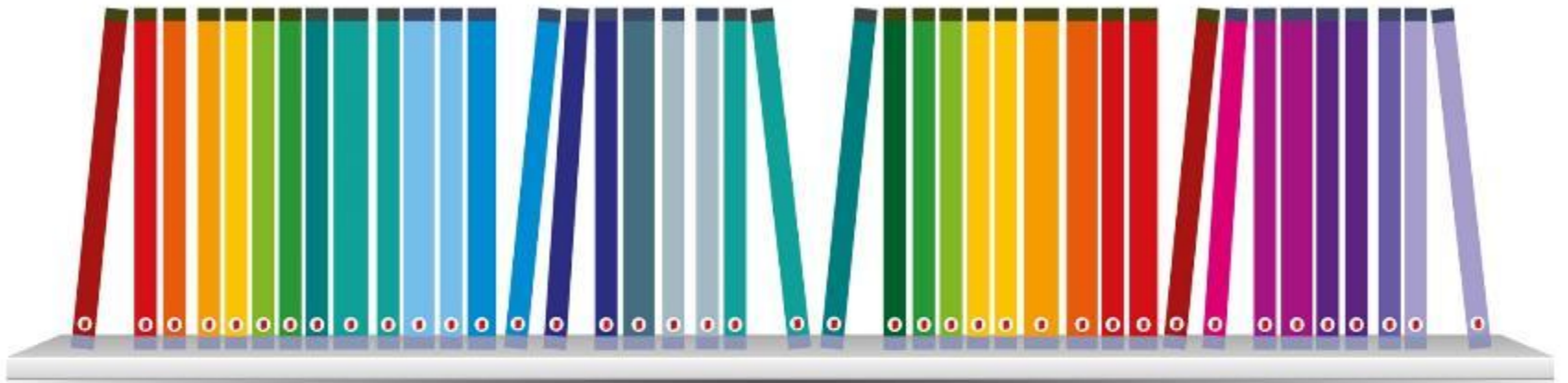
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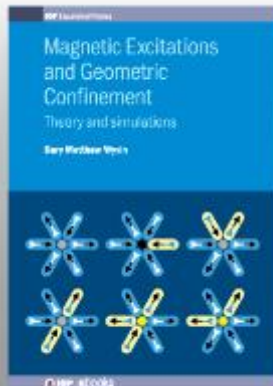
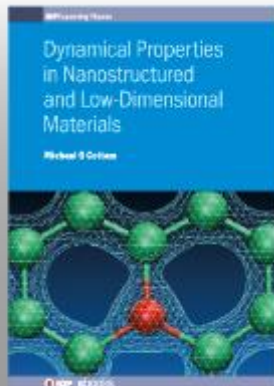
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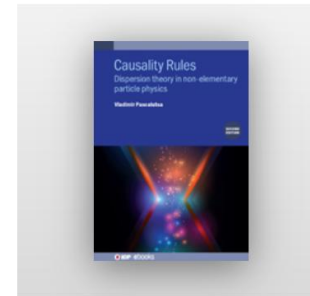
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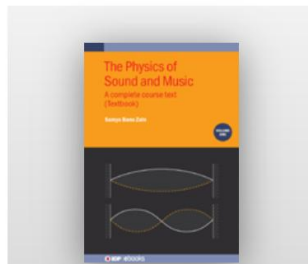
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Author
Jeff Greensite

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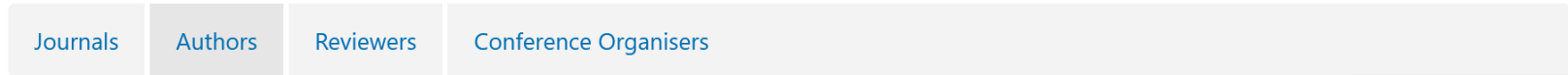
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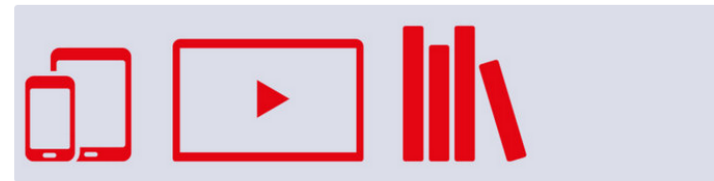
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