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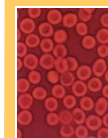


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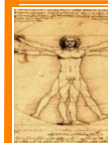
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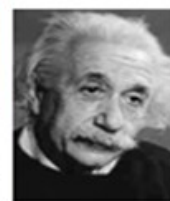
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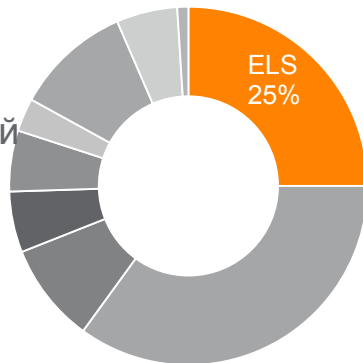
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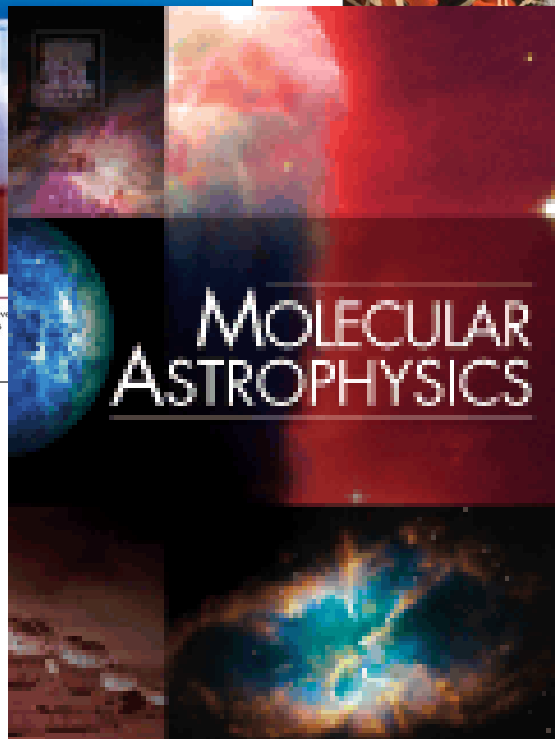
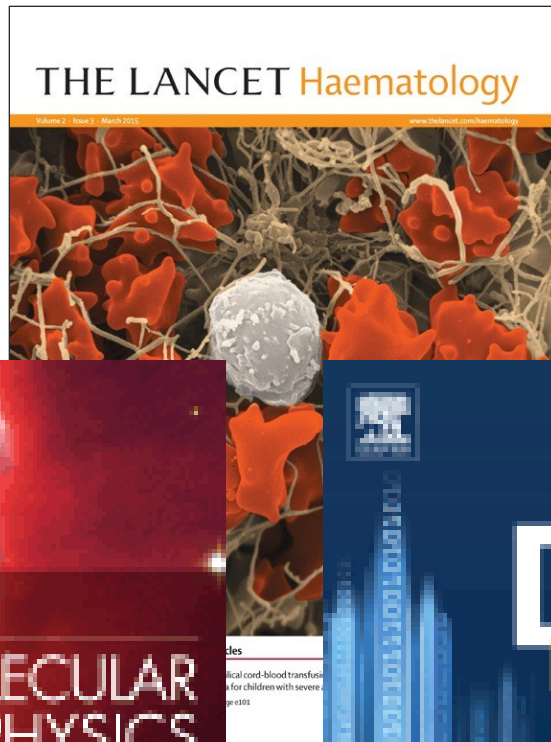
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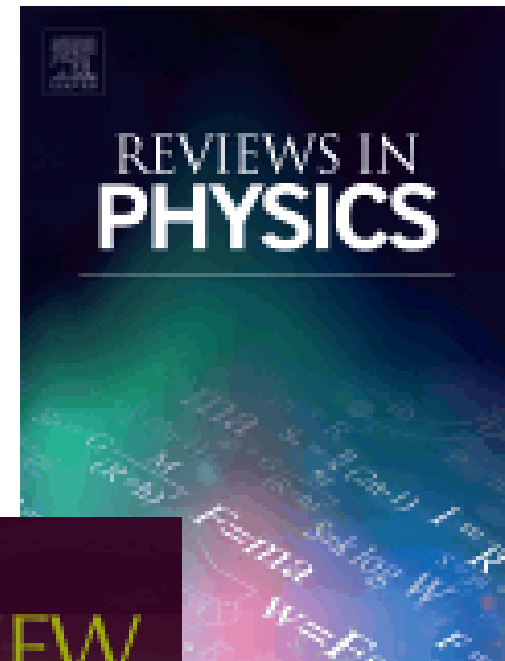
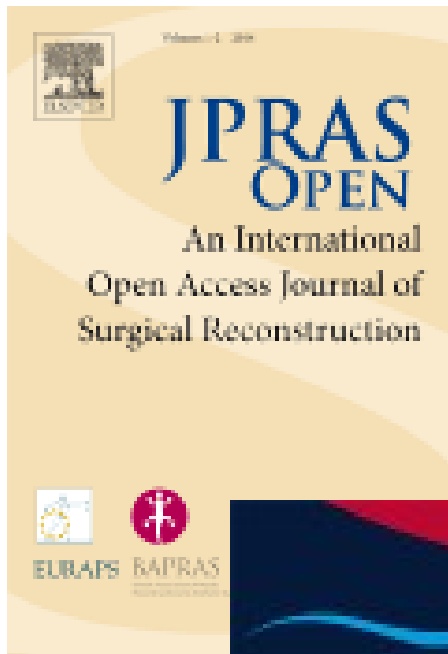
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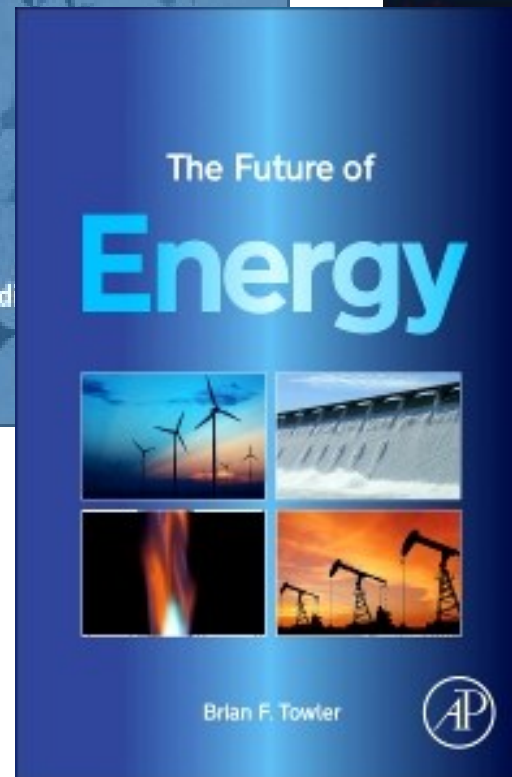
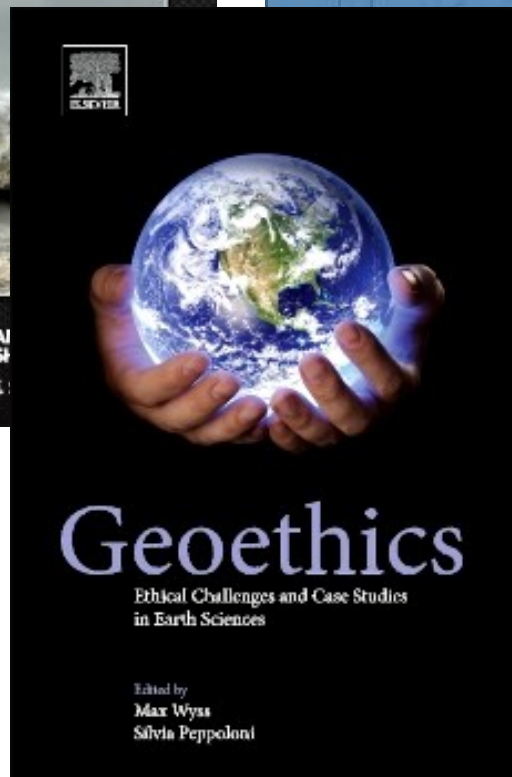
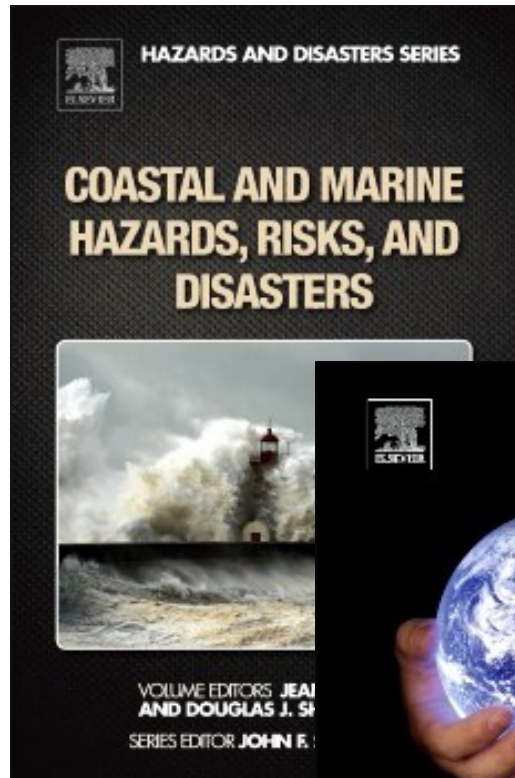
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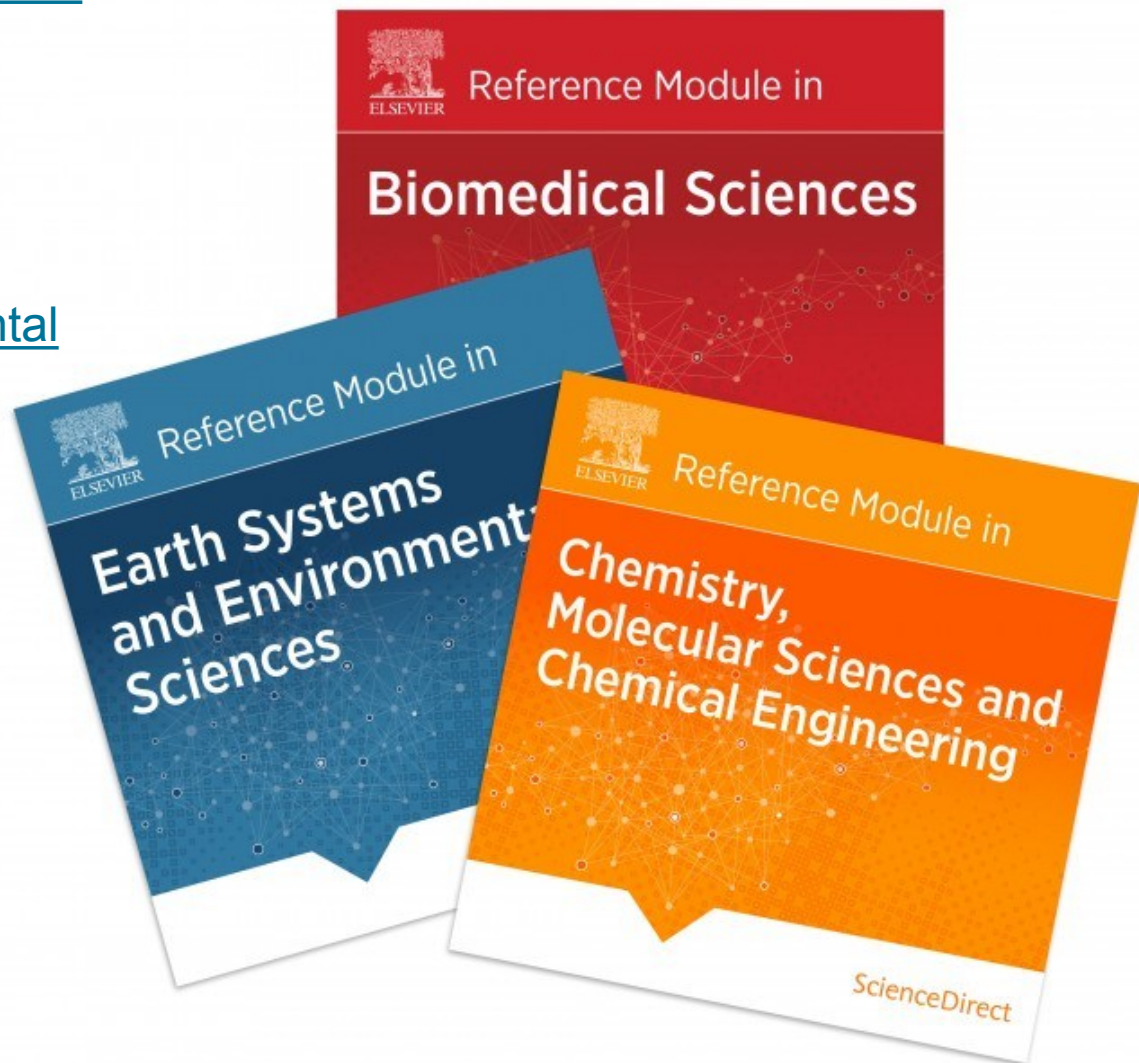
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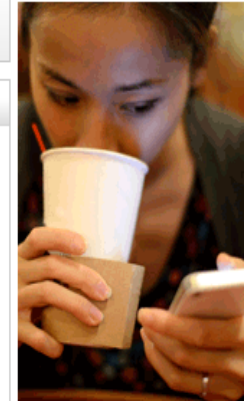
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Table 2



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Application of bioethanol/RME/diesel blend in a Euro5 automotive diesel engine: Potentiality of closed loop combustion control technology

Chiara Guido^{a,*}, Carlo Beatrice^a, Pierpaolo Napolitano^{a,b}
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Abstract

Require the use of biofuels by at least 10% as energy source in transport by means of the use of different renewable fuels; bioethanol (BE) is one production cost and availability. BE usually replaces gasoline in petrol low concentrations to feed diesel engines.

Experimental activity aimed to study the impact of a BE/biodiesel/mineral emissions in a last generation automotive diesel engine are presented.

Results are presented in eight partial load engine conditions and at 2500 rpm in full load.

Two fuel blends have been compared: the Rapeseed Methyl Ester (RME)/diesel with 10% of biodiesel by volume (B10), and the BE/RME/diesel with 20% of BE and 10% of biodiesel by volume (E20B10).

The experimental campaign was carried out on a 2.0 L diesel engine compliant with Euro5 regulation. The engine features the closed loop combustion control technology. The experimental results show that the engine features the closed loop combustion control technology. The experimental results show that the engine features the closed loop combustion control technology.

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Fig. 5. HC (on the left) and CO (on the right) emissions, in all test points, for B10 and E20B10 blends.

Fig. 6. Cylinder pressure and energizing current (on the left), rate of heat release and heat release (on the right), for B10 and E20B10, at 1500 rpm and 2 bar of BMEP.

4.2. Indicated curves analysis

In this second part of the paragraph the evolution of in-cylinder pressure and of heat release versus crank angle (c.a.) are analyzed. For brevity, only some test points are reported; in particular Figs. 6 and 7 refer respectively to 1500 × 2 and 2000 × 2, chosen to analyze by

the fuelling rate (increment of the main injection fuel quantity) to obtain the same Indicated Mean Effective Pressure (IMEP) and the same torque level of the reference blend. The authors want to stress that the variation of the injection timing and of the injected fuel quantity are automatically actuated by the CLCC system and are not the results of a manual setting of calibration. For other details on the CLCC benefits burning alternative fuel or blends, refer to [20].

In the right diagrams of Figs. 6 and 7 the rate of heat release (ROHR) and the heat release (HR) curves are reported. In both test points it is evident a reduced effect of pilot injection combustion for E20B10. Various factors are behind this behavior: the first one is the low cetane number of the E20B10 blend, of course, that delays the pilot ignition timing. This effect, in turns, requires an earlier injection timing (see energizing current traces), promoting the fuel overmixing of the pilot injection. As a consequence, a lower combustion efficiency of the pilot injection occurs. Additionally, the CLCC system is designed to correct only the fuel quantity of

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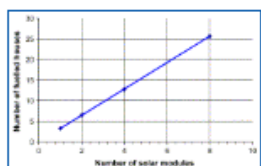
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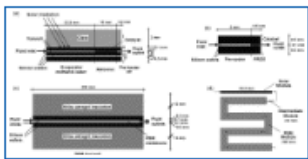
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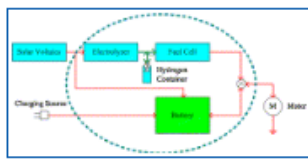
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(a) Schematic of solar module: the thickness of all layers is enlarged by the factor of 5 for better illustration. The...

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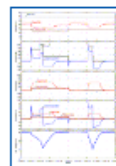
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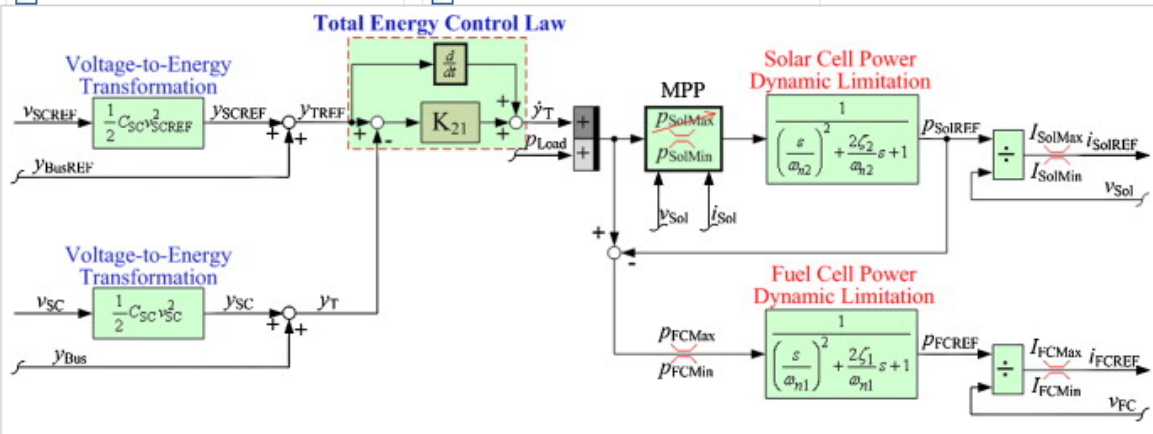
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Total Energy Control Law

The diagram shows a control system with two parallel voltage-to-energy transformation blocks. The top block takes v_{SCREF} and v_{BusREF} as input and outputs y_{TREF} . The bottom block takes v_{SC} and v_{Bus} as input and outputs y_T . Both y_{TREF} and y_T are summed and fed into a dynamic block K_{21} with a derivative operator $\frac{d}{dt}$. The output of K_{21} is summed with p_{Load} and fed into an MPP (Maximum Power Point) block. The MPP block outputs i_{Sol} and v_{Sol} . The i_{Sol} signal is processed by a Solar Cell Power Dynamic Limitation block, which outputs i_{SolREF} . The v_{Sol} signal is processed by a Fuel Cell Power Dynamic Limitation block, which outputs v_{FC} . The i_{FCREF} signal is processed by a Fuel Cell Power Dynamic Limitation block, which outputs v_{FC} .

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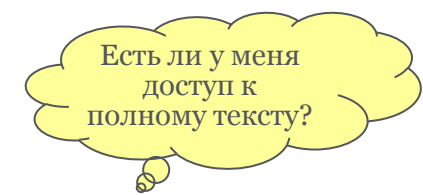
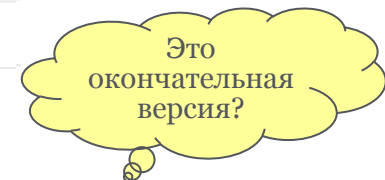
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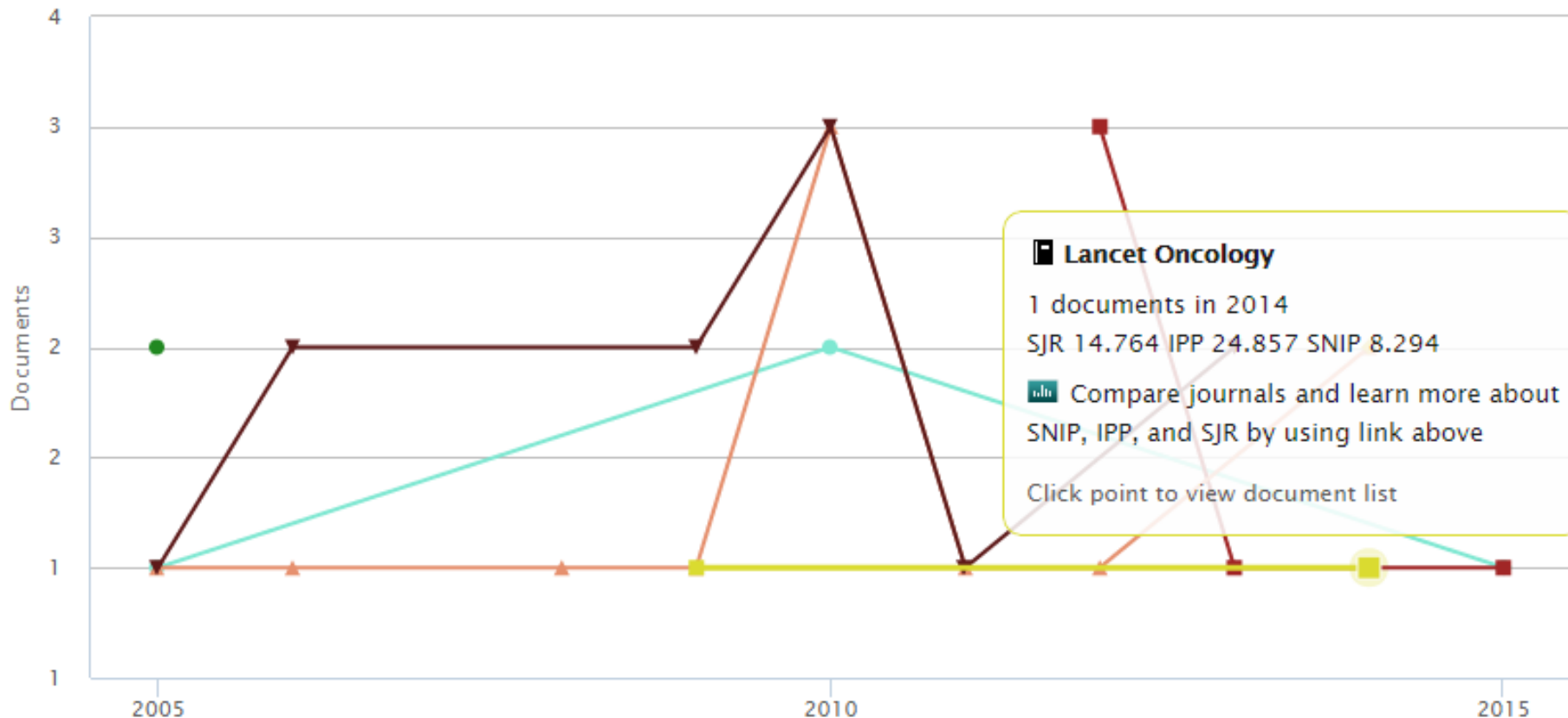


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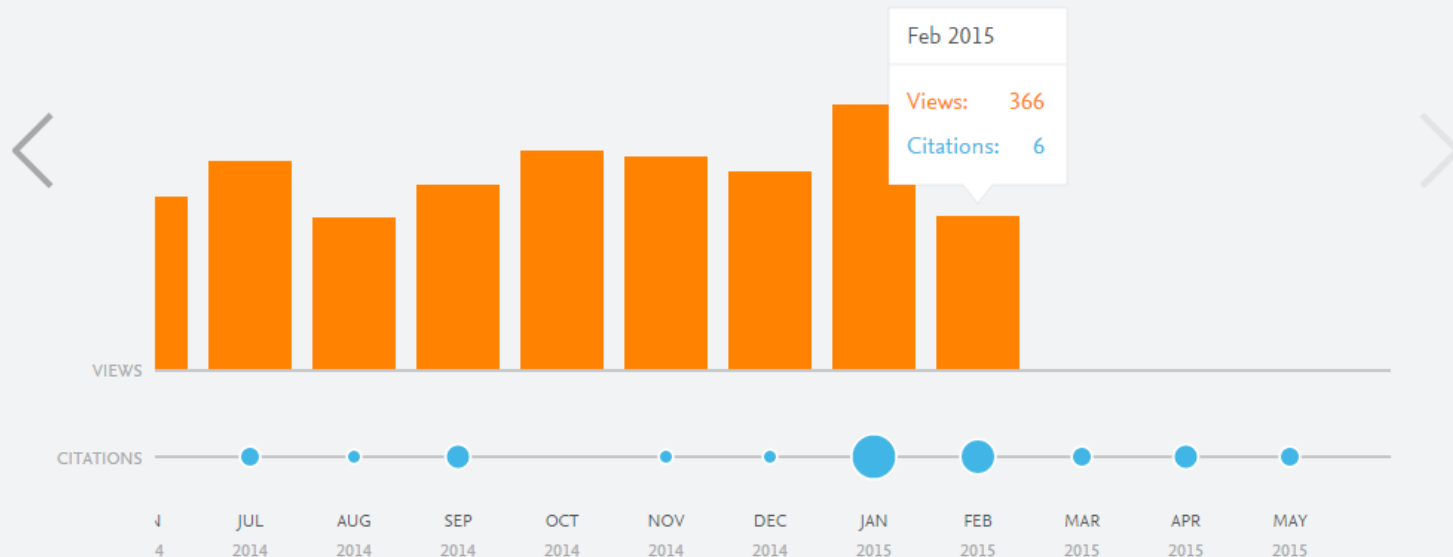


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