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[Toward a Theory of Self-Organized Criticality in the Brain ...](#)

Self-organized criticality also holds promise as a unifying theoretical framework. According to the neurophysiologist Dante Chialvo , most of the current models in neuroscience apply only to single experiments; to replicate the results from other experiments, scientists must change the parameters tune the system or use a different model entirely.

[Self-organized criticality - Wikipedia](#)

In physics, self-organized criticality (SOC) is a property of dynamical systems that have a critical point as an attractor. Their macroscopic behaviour thus displays the spatial and/or temporal scale-invariance characteristic of the critical point of a phase transition, but without the need to tune control parameters to a precise value, because [Self-organized criticality - mit.edu](#)

The discovery of the self-organized criticality (SOC) is one of ground-breaking achievements of statistical physics in the last couple of decades. Self-organized criticality is a very rich phenomenon as it combines self-organization and criticality to describe complexity. This concept was first introduced by P. Bak and the collaborators in the seminal paper in 1987[1]. SOC is a property of

[Evidence of enhanced self-organized criticality \(SOC ...](#)

Self-organized criticality (SOC) dynamics have been investigated in non-local transport regimes induced by the supersonic molecular beam injection in the HL-2A tokamak. Experimental evidence shows that the SOC or avalanche behaviors, such as the Hurst

[25 Years of Self-Organized Criticality: Solar and Astrophysics](#)

Shortly after the seminal paper [Self-Organized Criticality:](#)

An explanation of 1/f noise by Bak et al. (1987), the idea has been applied to solar phy

[Self-organized criticality](#)

Self-organized criticality In physics, self-organized criticality (SOC) is a property of (classes of) dynamical systems that have a critical point as an attractor. Their macroscopic behaviour thus

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Self-organized criticality. Quite the same Wikipedia. Just better.

Self-organized criticality control - Wikipedia

In applied physics, the concept of controlling self-organized criticality refers to the control of processes by which a self-organized system dissipates energy. The objective of the control is to reduce the probability of occurrence of and size of energy dissipation bursts, often called avalanches, of self-organized systems. Dissipation of energy in a self-organized critical system into a **Self-organized criticality - Green Tea Press**

Bak has made a similar argument that self-organized criticality is a general model for a broad category of systems. According to Wikipedia, "SOC is typically observed in slowly-driven non-equilibrium systems with extended degrees of freedom and a high level of nonlinearity."

25 Years of Self-organized Criticality: Concepts and ...

Abstract. Introduced by the late Per Bak and his colleagues, self-organized criticality (SOC) has been one of the most stimulating concepts to come out of statistical mechanics and condensed matter theory in the last few decades, and has played a significant role in the development of complexity science.

astrophysical nuclear reactions: Topics by Science.gov

A detailed understanding of the critical reaction chain $4\text{He}(\alpha, \gamma)^{12}\text{C}(\alpha, \gamma)^{16}\text{O}(\alpha, \gamma)^{20}\text{Ne}$ is necessary both because it is the primary energy source and because it determines the ratio of ^{12}C to ^{16}O produced, which in turn significantly effects subsequent nucleosynthesis.

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(10.1) Microwave background radiation.29 (Astrophysics) 3 In Exercise 7.15, we studied the the microwave background radiation. This radiation was emitted about 380 000 years after the Big Bang, when the electrically charged electrons and protons combined into neutral atoms and hence almost completely stopped scattering the photons [143]. We saw there that the spectrum is almost perfectly a

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