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172 Flies Evade Looming Targets by Executing Rapid Visually Directed Banked Turns
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177 Ultrafast Switching to a Stable Hidden Quantum State in an Electronic Crystal
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A 35-femtosecond laser pulse causes the dichalcogenide \(1T\)-TaS\(_2\), to enter a stable phase not present in the equilibrium phase diagram.

180 Entangled States of More Than 40 Atoms in an Optical Fiber Cavity
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Network elastomers based on hydrogel structures show increased toughness through the incorporation of sacrificial bonds.
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Blocking two crucial repair factors prevents DNA repair during mitosis, saving the cell from catastrophic chromosome fusions.

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A Critical Period Defined by Axon-Targeting Mechanisms in the Murine Olfactory Bulb
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Mitochondria lacking a Parkinson’s disease–associated kinase harbor a functionally important phosphorylation defect.

208 Mapping the Cellular Response to Small Molecules Using Chemogenomic Fitness Signatures
A. Y. Lee et al.
Guilt by association helps identify the chemogenomic signatures of compounds targeting yeast genes.
Science 344 (6180), 125-215.