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Cryoelectron microscopy allows the rapid analysis of a yeast ribosome-initiator complex from a tiny data set.
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Iron(IV)hydroxide pK, and the Role of Thiolate Ligation in C–H Bond Activation by Cytochrome P450
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830 Room-Temperature Quantum Bit Storage Exceeding 39 Minutes Using Ionized Donors in Silicon-28
K. Saedi et al.
Isotopically purified silicon is used to extend the coherence time of qubits based on phosphorus impurities.

Layer-Resolved Graphene Transfer via Engineered Strain Layers
J. Kim et al.
A two-step exfoliation process allows multiple transfers of oriented monolayer graphene from a silicon carbide surface.

High-Performance Silicon Photoanodes Passivated with Ultrathin Nickel Films for Water Oxidation
M. J. Kenney et al.
A nickel coating renders silicon stable in alkaline lithium borate electrolyte for solar water-splitting applications.

836 Enantioselective Lewis Acid Catalysis of Intramolecular Ene [2+2] Photocycloaddition Reactions
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840 Abrupt Shifts in Horn of Africa Hydroclimate Since the Last Glacial Maximum
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The mid-Holocene African Humid Period ended abruptly, within centuries rather than millennia, in the Horn of Africa.

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860 ERF115 Controls Root Quiescent Center Cell Division and Stem Cell Replenishment
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863 Staphylococcus aureus Degrades Neutrophil Extracellular Traps to Promote Immune Cell Death
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866 Phosphoinositide 3-Kinase δ Gene Mutation Predisposes to Respiratory Infection and Airway Damage
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Complete Mitochondrial Genomes of Ancient Canids Suggest a European Origin of Domestic Dogs
O. Thalmann et al.
Ancient DNA suggests that dog domestication was complex and likely originated in Europe.
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