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45 An Integral View of Fast Shocks Around Supernova 1006
S. Nikolić et al.
Spatially resolved spectroscopy of a supernova remnant reveals its high-speed shocks in great detail.

48 A Tissue-Like Printed Material
G. Villar et al.
A tissue-like printed material with communicating microcompartments employs membrane proteins and can be programmed to fold.

52 Broadband 2D Electronic Spectroscopy Reveals a Carotenoid Dark State in Purple Bacteria
E. E. Ostromov et al.
A sophisticated spectroscopic technique pinpoints an intermediate electronic state in light-harvesting pigments.

57 Evidence for a Symmetrical Fluoronium Ion in Solution
M. D. Struble et al.
Fluoride appears to form a dicoordinate carbon-bridging intermediate previously seen only for the heavier halogens.

60 Photochemical Route for Accessing Amorphous Metal Oxide Materials for Water Oxidation Catalysis
R. D. L. Smith et al.
Amorphous oxides of earth-abundant metals catalyze water oxidation with performance approaching that of noble metal catalysts.

63 Europe-Wide Dampening of Population Cycles in Keystone Herbivores
T. Cornulier et al.
Synchronicity in vole population fluctuation across Europe suggests a common climatic driver.

66 Detection and Learning of Floral Electric Fields by Bumblebees
D. Clarke et al.
Flower-specific electric fields are used by bumblebees to enhance discrimination and memory of floral rewards.

69 Recovery of an Isolated Coral Reef System Following Severe Disturbance
J. P. Gilmour et al.
Isolated reefs with thriving herbivorous fish populations can recover rapidly after major bleaching events.

71 Mechanism-Based Covalent Neuraminidase Inhibitors with Broad-Spectrum Influenza Antiviral Activity
J.-H. Kim et al.
Looking deeply into the mechanism of enzyme inhibition provides a clue for the development of new drugs to fight flu.

75 Decameric SeA•tRNA<i>Sec</i> Ring Structure Reveals Mechanism of Bacterial Selenocysteine Formation
Y. Ish et al.
Structural and biochemical data reveal how selenocysteine is produced from serine on transfer RNA.

78 Drosophila H1 Regulates the Genetic Activity of Heterochromatin by Recruitment of Su(var)3-9
X. Lu et al.
The “fifth” histone, H1, acts to recruit a histone-methylating enzyme to silence specific regions of the genome.

82 Translational Repression and eIF4A2 Activity Are Critical for MicroRNA-Mediated Gene Regulation
H. A. Meijer et al.
MicroRNAs repress target messenger RNAs with structured 5’ ends through a protein translation initiation factor.

85 Archaeal (Per)Chlorate Reduction at High Temperature: An Interplay of Biotic and Abiotic Reactions
M. G. Liebert et al.
Reduction of perchlorate by a hyperthermophilic archaeon suggests early evolution of enzymes using chlorine oxynions.

87 Influence of HLA-C Expression Level on HIV Control
R. Apps et al.
Increased levels of human leukocyte antigen C are associated with control of HIV infection but increased susceptibility to Crohn’s disease.

91 Transposition-Driven Genomic Heterogeneity in the Drosophila Brain
P. N. Perrat et al.
Transposon movement in memory-relevant neurons in fruit flies increases neuronal diversity within and between animals.

95 Rats and Humans Can Optimally Accumulate Evidence for Decision-Making
B. W. Brunton et al.
A model of decision-making that is based on the accumulative processing of noisy information is described.