Engel, G. S., Calhoun, T. R., Read, E. L., et al. (2007). Evidence for wavelike energy transfer through quantum coherence in photosynthetic systems. Nature, 446, 782-786. This landmark study demonstrated long-lived quantum coherence in the FMO complex of green sulfur bacteria using two-dimensional electronic spectroscopy. Ritz, T., Adem, S., & Schulten, K. (2000). A model for photoreceptor-based magnetoreception in birds. Biophysical Journal, 78(2), 707-718. This paper introduced the radical-pair mechanism, hypothesizing that entangled electron pairs in cryptochrome proteins mediate avian magnetoreception. Turin, L. (1996). A spectroscopic mechanism for primary olfactory reception. Chemical Senses, 21(6), 773-791. Proposes a vibrational theory of smell involving inelastic electron tunneling sensitive to molecular vibrational frequencies. Scully, M. O. (2010). Quantum photocell: Using quantum coherence to reduce radiative recombination and increase efficiency. Physical Review Letters, 104(20), 207701. Offers insight into how coherence might enhance energy conversion in biological analogs of quantum heat engines. Huelga, S. F., & Plenio, M. B. (2013). Vibrations, quanta and biology. Contemporary Physics, 54(4), 181-207. Reviews evidence for quantum effects in biological systems, emphasizing coherence and environmental interactions. Tegmark, M. (2000). Importance of quantum decoherence in brain processes. Physical Review E, 61(4), 4194-4206. Argues that decoherence timescales in the brain are too short to support functional quantum computation. Penrose, R., & Hameroff, S. R. (1996). Orchestrated reduction of quantum coherence in brain microtubules: A model for consciousness. Journal of Consciousness Studies, 3(1), 36-53. Proposes that consciousness arises from quantum computations in neuronal microtubules. Vinjanampathy, S., & Anders, J. (2016). Quantum thermodynamics. Contemporary Physics, 57(4), 545-579. Provides foundational insights into how quantum coherence and entropy influence energy exchange in open quantum systems. Lambert, N., Chen, Y. N., Cheng, Y. C., et al. (2013). Quantum biology. Nature Physics, 9(1), 10-18. Reviews experimental and theoretical studies that support functional quantum effects in biology. Modi, K., Brodutch, A., Cable, H., Paterek, T., & Vedral, V. (2012). The classical-quantum boundary for correlations: Discord and related measures. Reviews of Modern Physics, 84(4), 1655-1707. Discusses quantitative tools for measuring quantum correlations and complexity in open systems.