

11. Lucia, U., "Statistical approach of the irreversible entropy variation," *Physica A*, 387(14), 3454-3460, 2008b. DOI: [10.1016/j.physa.2008.02.002](https://doi.org/10.1016/j.physa.2008.02.002).
12. Lucia, U., "Irreversibility, entropy and incomplete information," *Physica A*, 388, 4025-4033, 2009. DOI: [10.1016/j.physa.2009.06.027](https://doi.org/10.1016/j.physa.2009.06.027).
13. Lucia, U., "Maximum or minimum entropy generation for open systems?" *Physica A*, 391(12), 3392-3398, 2012a. DOI: [10.1016/j.physa.2012.01.055](https://doi.org/10.1016/j.physa.2012.01.055).
14. Lucia, U., "Irreversibility in biophysical and biochemical engineering," *Physica A*, 391, 5997-6007, 2012b. DOI: [10.1016/j.physa.2012.07.018](https://doi.org/10.1016/j.physa.2012.07.018).
15. Lucia, U., "Stationary open systems: a brief review on contemporary theories on irreversibility," *Physica A*, 392(5), 1051-1062, 2013a. DOI: [10.1016/j.physa.2012.11.027](https://doi.org/10.1016/j.physa.2012.11.027).
16. Lucia, U., "Irreversible human brain," *Medical Hypothesis*, 80(2), 114-116, 2013b. DOI: [10.1016/j.mehy.2012.11.001](https://doi.org/10.1016/j.mehy.2012.11.001).
17. Lucia, U., "Entropy and exergy in irreversible renewable energy systems," *Renewable & Sustainable Energy Reviews*, 20, 559-564, 2013d. DOI: [10.1016/j.rser.2012.12.017](https://doi.org/10.1016/j.rser.2012.12.017).
18. Lucia, U., "Thermodynamic paths and stochastic order in open systems," *Physica A*, 392, 3912-3919, 2013e. DOI: [10.1016/j.physa.2013.04.053](https://doi.org/10.1016/j.physa.2013.04.053).
19. Lucia, U., Sciubba, E., "From Lotka to the entropy generation approach," *Physica A*, 392, 3634-3639, 2013. DOI: [10.1016/j.physa.2013.04.025](https://doi.org/10.1016/j.physa.2013.04.025).
20. Lucia, U., Buzzi, P., "La generazione di entropia nella analisi del comportamento delle acque fluviali," In *Atti del Convegno L'alluvione del 5-6 novembre 1994 in Piemonte, Venti anni di attività nella previsione e prevenzione in ambito geo-idrologico*. Torino 28-29 ottobre 2014. GEAM, Associazione Georisorse e ambiente, 167-172.
21. Lovelock, J.E., "A physical basis for life detection experiments," *Nature*, 207, 568-570, 1965. DOI: [10.1038/207568a0](https://doi.org/10.1038/207568a0).
22. Annala, A., Kuismanen, E., "Natural hierarchy emerges from energy dispersal," *BioSystems*, 95, 227-233, 2009. DOI: [10.1016/j.biosystems.2008.10.008](https://doi.org/10.1016/j.biosystems.2008.10.008).
23. Kaila, V.R.I., Annala, A., "Natural selection for least action," *Proc. R. Soc. A*, 464, 3055-3070, 2008. DOI: [10.1098/rspa.2008.0178](https://doi.org/10.1098/rspa.2008.0178).
24. Hartonen, T., Annala, A., "Natural networks as thermodynamic systems," *Complexity*, 18, 53-62, 2012. DOI: [10.1002/cplx.21428](https://doi.org/10.1002/cplx.21428).
25. Mäkelä, T., Annala, A., "Natural patterns of energy dispersal," *Phys. Life Rev.*, 7, 477-498, 2010.
27. Würtz, P., Annala, A., "Ecological succession as an energy dispersal process," *BioSystems*, 100, 70-78, 2010. DOI: [10.1016/j.biosystems.2010.01.004](https://doi.org/10.1016/j.biosystems.2010.01.004).
28. Marchi, E., Rubatta, A., *Meccanica dei fluidi. Principi e applicazioni*, Torino, Utet, 1981.
26. Sharma, V., Annala, A., "Natural process – Natural selection," *Biophys. Chem.*, 127, 123-128, 2007. DOI: [10.1016/j.bpc.2007.01.005](https://doi.org/10.1016/j.bpc.2007.01.005).
29. Sciubba, E., Wall, G., "A brief commented history of exergy from the beginnings to 2004," *Int. J. Thermodynamics* 10(1), 1-26, 2007.
30. Bejan, A., *Advance Engineering Thermodynamics*, 3rd Ed., John Wiley, 2006.
31. Gouy, G., « Sur les transformation et l'équilibre en Thermodynamique, » *Comptes Rendus de l'Académie des Sciences Paris* 108(10), 507-509, 1889.
32. Gouy, G., « Sur l'énergie utilisable, » *Journal de Physique* 8, 501-518, 1889.
33. Stodola, A., *Steam Turbine*, Van Nostrand, New York, 1905. (translated by L.C. Loewenstein).
34. Barbero, S., Graziadei, M., Rabuffetti, D., Eventi alluvionali in Piemonte, 13-16 ottobre 2000, Torino: Agenzia Regionale per la Protezione Ambientale, <http://www.arpa.piemonte.it/approfondimenti/temi-ambientali/geologia-e-dissesto/publicazioni/immagini-e-files/evott2000/>
35. Wang, Q.A., "Maximum path information and the principle of least action for chaotic system," *Chaos, Solitons & Fractals*, 23, 1253, 2004. DOI: [10.1016/S0960-0779\(04\)00375-3](https://doi.org/10.1016/S0960-0779(04)00375-3).
36. Wang, Q.A., "Maximum entropy change and least action principle for nonequilibrium systems," *Astrophysics and Space Sciences*, 305, 273, 2006. DOI: [10.1007/s10509-006-9202-0](https://doi.org/10.1007/s10509-006-9202-0)
37. Wang, Q.A., "Probability distribution and entropy as a measure of uncertainty," *J. Physics A: Math. Theor.*, 41, 065004, 2008. DOI: [10.1088/1751-8113/41/6/065004](https://doi.org/10.1088/1751-8113/41/6/065004).
38. Lucia, U., "Bioengineering thermodynamics: an engineering science for thermodynamics of Biosystems," *Int. J. Thermodynamics*, 18, 254-265, 2015. DOI: [10.5541/ijot.5000131605](https://doi.org/10.5541/ijot.5000131605).
39. Lucia, U., "Bioengineering thermodynamics of biological cells," *Theor. Biol. Med. Model*, 12, 29, 2015. DOI: [10.1186/s12976-015-0024-z](https://doi.org/10.1186/s12976-015-0024-z).
40. Lucia, U., "The Gouy-Stodola theorem in bioenergetic analysis of living systems (Irreversibility in bioenergetics of living systems)," *Energies*, 7, 5717-5739, 2014. DOI: [10.3390/en7095717](https://doi.org/10.3390/en7095717).