

M. Rejmánek: James E. Lovelock (1919 – 2022) a půl století hypotézy Gaia

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Citovaná a další použitá literatura

Předchůdci

ARRHENIUS, S., 1908. Worlds in the Making: The Evolution of the Universe. Harper & Brothers, London, 230 stran.

BAILES, K.E., 1990. Science and Russian Culture in an Age of Revolutions. V.I. Vernadsky and His Scientific School, 1863 – 1945. Indiana University Press, 238 stran.

BERNER, R.A., 2012. Jaques-Joseph Ébelmen, the founder of earth system science. Comptes Rendus Geoscience 344, 544-548.

FERRY, L., 2008. Rozumět životu. Rybka Publishers, 271 stran.

CRAIG, G.I. & HULL J.H. (eds.) 1999. James Hutton – Present and Future. Geol. Soc., London, Spec. Publ. 150, 184 stran.

GALLENI, L. 1995. How does the Teilhardian vision of evolution compare with contemporary theories? Zygon 30, 25-45.

GHILAROV, A.M., 1995. Vernadsky's biosphere concept: a historical perspective. The Quarterly Review of Biology 70, 193-203.

HUTCHINSON, G.E., 1948. Circular causal systems in ecology. Annals of the New York Academy of Science 50, 221-246.

HUTCHINSON, G.E., 1954. The biogeochemistry of terrestrial atmosphere. In: G.P. Kuiper (ed.). The Solar System, Vol. 2. The Earth as a Planet. The University of Chicago Press. Kapitola 8, str. 371–433.

HUTTON, J. 1788. Theory of the Earth. Transactions of the Royal Society of Edinburgh 1, 209-304. <https://gutenberg.org/files/12861/12861-h/12861-h.htm>

HUTTON, J., 1795 (+ řada recentních přetisků). Theory of the Earth. Vol. 1 & 2. Geological Society, London, 263 stran. [“I consider the Earth to be a superorganism and its proper study should be physiology.”]

JANKO, J., 2011. Naturfilozof J. E. Purkyně. Živa 5/2011, 206-208.

KOVÁŘ, P., 2020. Byl J. E. Purkyně předchůdcem J. E. Lovelocka?. Živa 5/2020, 210-214.

KÜPPERS, B.-O., 1992. Natur als Organismus. Schellings fructe Naturphilosophie und ihre Bedeutung für modern Biologie. V. Klostermann, 138 stran.

LEVIT, G.S. a KRUMBEIN, W.E., 2000. The biosphere-theory of V.I. Vernadsky and the Gaia-theory of James Lovelock: a comparative analysis of the two theories and traditions. Журнал общей биологии 61 (2), 133–144.

LOTKA, A.J., 1925. Elements of Physical Biology. Williams & Wilkins Company, 495 stran. [Str. 16: „It is customary to discuss the ‘evolution of a species of organisms.’ As we proceed we shall see many reasons why we should constantly take in view the evolution, as a whole, of the system, organism plus environment. It may appear at first sight as if this should prove a more complicated problem than the consideration of the evolution of a part only of the system. But it will become apparent, as we proceed, that the physical laws governing evolution in all probability take on a simpler form when referred to the system as a whole than to any portion thereof. It is not so much the organism or the species that evolves, but the entire system, species and environment, the two are inseparable.”]

MCINTYRE, D.B., 1963. James Hutton and the philosophy of geology. In: C.C. Albritton (ed.) The Fabric of Geology. Addison-Wesley, 1-11.

PHILLIPS, J., 1935. Succession, Development, the Climax, and the Complex Organism: An Analysis of Concepts: Part III. Journal of Ecology 23, 488-508.

REDFIELD, A.C., 1958. The biological control of chemical factors in the environment. American Scientist 46, 205-221.

SALISBURY, F.B. (ed.) 2007. Geochemistry and the Biosphere: Essays by Vladimir I. Vernadsky. Synergetic Press, 427 stran.

UREY, H.C., 1952. The Planets: Their Origin and Development. Yale University Press, 245 stran.

VERNADSKY, V.I., 1926. Biosfera. Nauka, Leningrad, 146 stran.

VERNADSKY, V.I., 1945. The biosphere and the noösphere. American Scientist 33, 1-12.

VERNADSKY, V.I. (Вернадский, В.И.) 2013. Философские мысли натуралиста. Kirov, Konstanta, 412 stran.

VERNADSKY, V.I., 1998. The Biosphere. Copernicus/Springer-Verlag, 192 stran.

[Bohatě komentovaný překlad inicializovaný Lin Margulisovou.]

WILSON, D.S. & SOBER, E., 1989. Reviving the superorganism. *J. Theor. Biol.* 136, 337-356.

Wulf, A., 2016. *The Invention of Nature. Alexander Humboldt's New World.* Vintage Books, 552 stran. [Str. 9: „Když Humboldt popsal Zemi jako přírodní celek oživený a pohybovaný vnitřními silami, předběhl Lovelockovy myšlenky o více než 150 letech. Humboldt nazval svoji knihu popisující tento nový pojem *Cosmos*. Poté, co iniciálně uvažoval o titulu *Gäa* (německý výraz pro Gaia). ”]

Příklady knih věnovaných částečně, nebo výhradně hypotéze Gaia (tituly českých překladů jsou vytiskeny tučně)

ALLABY, M., 1989. *Guide to Gaia.* Macdonald Optima, 181 stran.

BARLOW, C. (ed.) 1992. *From Gaia to Selfish Genes.* MIT Press, 273 stran.

BERNER, R.A., 2004. *The Phanerozoic Carbon Cycle.* Oxford University Press, 150 stran.

BILLINGHAM, J. (ed.) 1981. *Life in the Universe.* MIT Press, 461 stran.

BUDYKO, M.I., 1986. *The Evolution of the Biosphere.* D. Reidel/Kluwer, 423 stran.

BUNYARD, P., (ed.) 1996. *Gaia in Action: Science of the Living Earth.* Floris Books, 351 stran.

BUNYARD, P. & Goldsmith, E. (eds.) 1988. *Gaia the Thesis, the Mechanisms and the Implications : Proceedings of the First Annual Camelford Conference on the Implications of the Gaia Hypothesis.* Wadebridge Ecological Centre, Camelford, Cornwall, UK, 251 stran.

BUNYARD, P. & Goldsmith, E. (eds.) 1989. *Gaia and Evolution. Proceedings of the Second Annual Camelford Conference on the Implications of the Gaia Thesis.* Wadebridge Ecological Centre, Camelford, Cornwall, UK, 154 stran.

CAPRA, F. & LUISI, P.L., 2014. *The System View of Life. A Unifying Vision.* Cambridge University Press, 498 stran.

CATLING, D.C. & KASTING, J.F., 2017. *Atmospheric Evolution on Inhabited and Lifeless Worlds.* Cambridge University Press, 579 stran.

CLARKE, B., (ed.) 2015. *Earth, Life, and System: Evolution and Ecology on a Gaian Planet.* Fordham University Press, 347 stran.

- CLARKE, B., 2020. Gaian Systems, Lynn Margulis, Neocybernetics, and the End of the Anthropocene. University of Minnesota Press, 329 stran.
- CLARKE, B. & DUTREUIL, S. (eds.) 2022. Writing Gaia. The Scientific Correspondence of James Lovelock & Lynn Margulis. Cambridge University Press, 484 stran.
- CRIST, E. & RINKER, H.B., 2010. Gaia in Turmoil: Climate Change, Biodepletion, and Earth Ethics in Age of Crisis. MIT Press, 371 stran.
- DAWKINS, R., 1982, 1999. The Extended Phenotype: The Long Reach of the Gene. Oxford University Press, 468 stran.
- DICK, S.J. & STRICK, J.E., 2005. The Living Universe. NASA and the Development of Astrobiology. Rutgers University Press, 308 stran.
- DICKINSON, R.E. (ed.) 1987. The Geophysiology of Amazonia. Wiley, 526 stran.
- DÜTCH, H.U. (ed.) 1978. Influence of the Biosphere on the Atmosphere. Birkhauser, 582 stran.
- FIEDLER, D., 2014. Restoring the Soul of the World. Inner Traditions, 310 stran.
- FLEGR, J., 1994. Mechanismy mikroevoluce. Karolinum, 116 stran.
- FRANK, A., 2018. Light of the Stars. Alien Worlds and the Fate of the Earth. W.W. Norton & Co., 262 stran.
- FRIEDRICH, A. a kol., 2018. Ökologien der Erde: Zur Wissenschaftsgeschichte und Aktualität der Gaia-Hypothese. Peson Press, 151 stran.
- GHOSH, A., 2021. The Nutmeg's Curse. Parables for a Planet in Crisis. The University of Chicago Press, 339 stran.
- GOODWIN, B., 1994. How the Leopard Changed its Spots. The Evolution of Complexity. Charles Scriber's Sons, 252 stran.
- GRIBBIN, J., 2004. Deep Simplicity. Random House, 275 stran.
- GRIBBIN, J. & GRIBBIN, M., 2009. James Lovelock: In Search of Gaia. Princeton University Press, 272 stran.
- HARDING, S., 2006. Animate Earth: Science, Intuition and Gaia. Chelsea Green, 256 stran.
- HARMAN, O. & DIETRICH, M.R. (eds.) 2018. Dreamers, Visionaries, and Revolutionaries in the Life Sciences. Chicago University Press, 336 stran.
- HENSON, R., 2019. The Thinking Person's Guide to Climate Change. 2nd ed.,

American Meteorological Society, 550 stran.

HORNECK, G. & BAUMSTARK-KHAN, C., 2002. Astrobiology. The Quest for the Conditions of Life. Springer, 411 stran.

HUGGETT, R.J., 2006. Natural History of the Earth: Debating Long-term Change in the Geosphere and Biosphere. Routledge Studies in Physical Geography and Environment 7, 1-203.

CHAISSON, E.J., 2001. Cosmic Evolution. The Rise of complexity in Nature. Harvard University Press, 274 stran.

JACOBSEN, M. a kol. (eds.) 2000. Earth System Science – From Biogeochemical Cycles to Global Change. Academic Press, International Geophysics Series, vol. 72, 531 stran.

JOSEPH, L.E., 1990. Gaia: The Growth of an Idea. St. Martin's Press, 276 stran.

KASTING, J., 2010. How to Find a Habitable Planet. Princeton University Press, 332 stran.

KELLY, S., 2021. Becoming Gaia. On the Threshold of Planetary Initiation. Integral Imprint, 219 stran.

KUMP, L.R., KASTING, J.F., CRANE, R.G., 2010. The Earth System, Prentice Hall, 420 stran.

LATOUR, B., 2015. Face à Gaïa. Huit conférences sur le nouveau régime climatique. Éditions La Découverte, 400 stran.

LEAKEY, R. & LEWIN, R., 1995. The Sixth Extinction. Patterns of Life and the Future of Humankind. Random House, New York, 271 stran.

LENTON, T.M., 2016. Earth System Science: A Very Short Introduction. Oxford University Press, 153 stran.

LENTON, T.M. & WATSON, A., 2011. Revolutions That Made the Earth. Oxford University Press, 423 stran.

LINGAM, M. & LOEB, A., 2021. Life in Cosmos. From Biosignatures to Technosignatures. Harvard University Press, 1061 stran.

LORENZ, R.D., 2019. Exploring Planetary Climate. Cambridge University Press, 320 stran.

LOVELOCK, J.E., 1. Vydání - 1979, 6. Vydání - 1991. GAIA - A New Look at Life on Earth. Oxford University Press, 157 stran. [1993, 2001. **Gaia - Nový pohled na život**

na Zemi. Abies, 228 stran.]

LOVELOCK, J.E., 1988. The Ages of Gaia: A Biography of Our Leaving Earth. W.W. Norton, 252 stran. [1994. **Gaia: živoucí planeta.** Mladá fronta, 221 stran.]

LOVELOCK, J.E., 2000, 2019. Homage to Gaia. The Life of an Independent Scientist. Souvenir Press, 428 stran.

LOVELOCK, J.E., 1991, 2005. Gaia: Medicine for an Ailing Planet. Gaia Books, London, 192 stran. [Kniha vyšla v USA pod názvem Healing Gaia.]

LOVELOCK, J.E., 2006. The Revenge of Gaia. Basic Books, 177 stran. [2008. **Gaia vrací úder.** Academia, 196 stran.]

LOVELOCK, J.E., 2009. The Vanishing Face of Gaia – A Final Warning. Basic Books, 278 stran. [2012. **Mizející tvář Gaii – poslední varování.** Academia, 212 stran. Překvapivě nesoudný doslov k českému překladu napsal český hydropedolog profesor Miroslav Kutílek.]

LOVELOCK, J.E., 2015. A Rough Ride to the Future. Penguin Books, 208 stran.

LOVELOCK, J.E. (ed.) 2016. The Earth and I. Taschen GmbH, 163 stran.

LOVELOCK, J.E., 2019. Novacene. The MIT Press, 139. [2022. **Novacén.** Host, 151 stran.]

MAN, M.E., 2021. The New Climate War. Public Affairs, 368 stran. [2022. **Nová klimatická válka.** Host, 444 stran.]

MARGULIS, L., 1998. Symbiotic Planet: A New Look at Evolution. Basic Books, 167 stran. [2004. **Symbiotická planeta: Nový pohled na evoluci.** Academia, 150 stran.]

MARGULIS, L. & OLENDZENSKI, L. (eds.) 2000. Environmental Evolution. 2nd ed., MIT Press, 356 stran.

MARGULIS, L. & SAGAN, D. (eds.) 1997. Slanted Truths: Essays on Gaia, Symbiosis and Evolution. Copernicus Books, 368 stran.

MARGULIS, L. & SAGAN, D., 2000. What is Life? University of California Press, 207 stran.

MARKOŠ, A. 2003. Tajemství hladiny. Dokořán, 350 stran.

MIDGLEY, M., 2001. Gaia: The next Big Idea. Demos, 52 stran.

MIDGLEY, M. (ed.) 2007. Earthy Realism: The Meaning of Gaia. Societas Imprint Academic, 111 stran.

- MOLDAN, B., 2021. Životní prostředí v globální perspektivě. Nakladatelství Karolinum, 232 stran.
- NORTHCOTT, M.S., 2023. God and Gaia. Science, Religion and Ethics on a Living Planet. Routledge, 271 stran.
- ODLING-SMEE, F.J. a kol., 2003. Niche Construction. Princeton University Press, 472 stran. [Gaia je diskutována na stránkách 334 – 336.]
- PRIMAVESI, A. (2003) Gaia's Gift. Routledge, 149 stran.
- RAMBLER, M. a kol. (eds.) 1989. Global Ecology: Towards a Science of the Biosphere. Academic Press, 204 stran.
- RESTELLI, G. & ANGELETTI, G. (eds.) 1993. Dimethylsulphide – Oceans, Atmosphere and Climate. Kluwer, 399 stran.
- RUSE, M., 2013. The GAIA Hypothesis. The University of Chicago Press, 251 stran.
- SAGAN, D., 2012. Biospheres. Metamorphosis of Planet Earth. McGraw-Hill, 177 stran.
- SAHTOURIS, E., 1989. Gaia: The Human Journey from Chaos to Cosmos. Pocket Books, 252 stran.
- SAPP, J., 1994. Evolution by Association. A History of Symbiosis. Oxford University Press, 255 stran.
- SHAMSUDDUHA, M., 2017. An Analysis of James E. Lovelock's Gaia: A New Look at Life on Earth. Macat International/Routledge, 100 stran.
- SCHLESINGER, W.H. & BERNHARDT, E.S., 2022. Biogeochemistry – An Analysis of Global Change. 4th. ed., Academic Press, 745 stran.
- SCHNEIDER, S.H., 1984. The Coevolution of Climate and Life. Sierra Club Books, 563 stran.
- SCHNEIDER, S.H. & BOSTON, P.J., (eds.) 1991. Scientists on Gaia. The MIT Press, 433 stran.
- SCHNEIDER, S.H. a kol., (eds.) 2004. Scientists Debate Gaia. The Next Century. The MIT Press, 377 stran.
- SCHULZE-MAKUCH, D. & IRWIN, L.N., 2008. Life in the Universe: Expectations and Constraints. Springer, 251 stran.
- SCHWARTZMAN, D., 1999. Life, Temperature, and the Earth. The Self-organizing Biosphere. Columbia University Press, 241 stran.

- SMIL, V., 2003. The Earth's Biosphere. The MIT Press, 346 stran.
- SMOLIN, L., 1997. The Life of the Cosmos. Oxford University Press, 368 stran.
- SOUTHWICK, C.H., 1996. Global Ecology in Human Perspective. Oxford University Press, 392 stran.
- SUMMERHAYES, C.P. 2020. Paleoclimatology. From Snowball Earth to the Anthropocene. Wiley, 543 stran.
- THOMAS, L., 1976. The Lives of Cell. Futura, 170 stran. [1999. **Život buňky**. Macropulos, 159 stran.]
- TURNER, J.S., 2000. The Extended Organism. Harvard University Press, 256 stran,
- TURNEY, J., 2003. Lovelock and Gaia: Signs of Life. Columbia University Press, 168 stran.
- TYRRELL, T., 2013. On Gaia: A Critical Investigation of the Relationship between Life and Earth. Princeton University Press, 311 stran.
- VOLK, T., 1998. Gaia's Body: Toward a Physiology of the Earth. The MIT Press, 269 stran.
- WARD, A.J., 2009. The Medea hypothesis: Is Life on Earth Ultimately Self-Destructive? Princeton University Press, 180 stran.
- WARD, P.D. & BROWNLEE, D., 2000. Rare Earth. Why Complex Life Is Uncommon in the Universe. Copernicus/Springer, 333 stran.
- WESTBROEK, P., 1991. Life as a Geological Force. W.W. Norton, 240 stran. [2003. **Život jako geologická síla**. Dokořán, 207 stran.]
- WILKINSON, D., 2006. Fundamental Processes in Ecology: An Earth Systems Approach. Oxford University Press, 182 stran.
- WILSON, E.O., 2002. The Future of Life. Vintage Books, 229 stran.
- WILLIAMS, G.R., 1996. The Molecular Biology of Gaia. Columbia University Press, 256 stran.

Články v časopisech a kapitoly v editovaných svazcích

- ALCABES, O.D.N. a kol., 2020. Robustness of Gaian feedbacks to climate perturbations. MNRAS (Monthly Notices of the Royal Astronomical Society) 494, 2572-2577.

- ARTHUR, R. & NICHOLSON, A., 2022. Selection principles for Gaia. *Journal of Theoretical Biology* 533, 1110940.
- BARLOW, C. & VOLK, T., 1990. Open systems living in a closed biosphere: a new paradox for the Gaia debate. *BioSystems* 23, 371-384.
- BARLOW, C. & VOLK, T., 1992. Gaia and evolutionary biology. *BioScience* 42: 686-693.
- BEERLING, D.J. & BERNER, R.A., 2005. Feedbacks and coevolution of plants and atmospheric CO₂. *PNAS* 102: 1302-1305.
- BEERLING, D.J. a kol., 2012. Ecosystem CO₂ starvation and terrestrial silicate weathering: mechanisms and global-scale quantification during the late Miocene. *Journal of Ecology* 100, 31-41.
- BEERLING, D.J. a kol., 2020. Potential for large-scale CO₂ removal via enhanced rock weathering with croplands. *Nature* 583: 242-246.
- BELCHER, C.M. a kol., 2021. The rise of angiosperms strengthened fire feedbacks and improved the regulation of atmospheric oxygen. *Nature Communications* (2021)12:503
- BERNER, R.A., 1997. The rise of plants and their effect on weathering and atmospheric CO₂. *Science* 276, 544-546.
- BETTS, R.A., 1999. Self-beneficial effects of vegetation on climate in an ocean-atmosphere general circulation model. *Geophysical Research Letters* 26, 1457-1460.
- BUNYARD, P.P., 2022. James Lovelock: an appreciation. *Symbiosis*, doi.org/10.1007/s13199-022-00873-w
- BURKARTOVÁ, K., 2013. Jak mořský fytoplankton ovlivňuje podnebí? *Vesmír* 5/2013, 286-287.
- CATLING, D.C. & ZAHNLE, K.J., 2020. The Archean atmosphere. *Science Advances* 6, eaax1420.
- CÍLEK, V., 1994. Gáia po dvaceti letech. *Vesmír* 4/1974, 236.
- COCKELL, C.S. a kol., 2016. Habitability: A Review. *Astrobiology* 16, 89-117.
- COHEN, J.E. & RICH, A.D., 2000. Interspecific competition affects temperature stability in Daisyworld. *Tellus* 52B, 980-984.

- CROPP, R. a kol., 2007. Dimethylsulphide, clouds, and phytoplankton: a simple plankton ecosystem feedback model. *Global Biogeochemical Cycles* 21, GB2024.
- DOOLITTLE, W.F., 1981. Is nature really motherly? *The Co-evolution Quarterly*, Spring 1981, 58-63.
- DOOLITTLE, W.F., 2019. Making evolutionary sense of Gaia. *Trends Ecol. Evol.* 34: 889-894.
- DOWNING, K. & ZVIRINSKY, P., 1999. The simulated evolution of biochemical guilds: Reconciling Gaia theory and natural selection. *Artificial Life* 5, 291-318.
- DYKE, J.G. & WEAVER, I.S., 2013. The emergence of environmental homeostasis in complex systems. *PLOS Computational Biology* 9: e1003050.
- FINLAY, R.D. a kol., 2020. Review and synthesis: Biological weathering and its consequences at different spatial levels – from nanoscale to global scale. *Biogeosciences* 17, 1507-1533.
- GOLDBLATT, C., 2018. Atmospheric Evolution. In: W. M. White (ed.), *Encyclopedia of Geochemistry*. Springer, str. 62-76.
- GOULD, S.J. 1988. Kropotkin was no crackpot. *Natural History* 97(7), 12-21. [„Gaia mně připadá jako metafora, ne jako mechanismus. Metafore mohou být osvobožující a poučné, ale nové vědecké teorie musí poskytnout nová tvrzení o kauzalitě. Zdá se mně, že Gaia pouze jinými slovy formuluje základní závěry, kterých již dávno bylo dosaženo klasicky redukcionistickými argumenty teorie biogeochemických cyklů.“]
- GREEN, T.K. & HATTON, A.D., 2014. The CLAW hypothesis: a new perspective on the role of biogenic sulphur in the regulation of global climate. *Oceanogr. Mar. Biol. Annu. Rev.*, 52, 315–336.
- GRIBBIN, J., 2022. James E. Lovelock (1991 – 2022). *Nature* 608, 261.
- GRINEVALD, J. (1992) L'hypothèse Gaïa: une géophysiologie de la biosphère. *Troisième Millénaire* 26, 35-39.
- HAMILTON, W.D. & LENTON, T.M., 1998. Spores and Gaia: how microbes fly with their clouds. *Ethology Ecology & Evolution* 10, 1-16.
- HITCHCOCK, D.R. & LOVELOCK, J.E., 1967. Life detection by atmospheric analysis. *Icarus* 7, 149-159.
- HÖNING, D., 2020. The impact of life on climate stabilization over different timescales. *Geochemistry, Geophysics, Geosystems* 21, e2020GC009105.
- HOUDÉK, F., 2019. Tvůrci nových obrazů života III: Lovelock. *Vesmír* 98, 2019/9.

- HUANG, J. a kol., 2022. Assessment of ammonia as a biosignature gas in exoplanet atmospheres. *Astrobiology* 22, 171-191.
- HÜBNER, K., 2019. Vom Elektroneneinfangdetektor zur Gaia-Theorie. *Chemie in Unserer Zeit* 53, 407-411.
- HUEBERT, B., 2007. Do I believe in CLAW? *Environmental Chemistry* 4, 375-376.
- CHARLSON, R.J., Lovelock, J.E., Andreae, M.O. & Warren, stran.G., 1987. Organic phytoplankton, atmospheric sulphur, cloud albedo and climate. *Nature* 326, 655-661. [Pravděpodobně nejcitovanější Lovelockova publikace: >3100 citací.]
- CHOPRA, A. & LINEWEAVER, C.H., 2016. The case for a Gaian bottleneck: The biology of habitability. *Astrobiology* 16, 7-22.
- JACKSON, R. & GABRIC, A., 2022. Climate change impacts on the marine cycling of biogenic sulfur: A review. *Microorganisms*, 2022, 10, 1581.
- KERR, R.A., 1988. No longer willful, Gaia becomes respectable. *Science* 240, 393-395.
- KIRCHNER, J.W., 1989. The Gaia hypothesis: Can it be tested? *Reviews in Geophysics* 27, 223-235.
- KLEIDON, A., 2002. Testing the effect of life on Earth's functioning: How Gaian is the Earth system? *Climate Change* 52: 383-389.
- KUMP, L.R. & LOVELOCK, J.E., 1995. The geophysiology of climate. In: A. Henderson-Sellers, ed., *Future Climates of the World: A Modeling Perspective*. Elsevier, str. 537-553.
- LAMMER, H. a kol., 2019. The role of N₂ as a geo-biosignature for detection and characterization of Earth-like habitats. *Astrobiology* 19, 927-950.
- LENTON, T.M., 2022. James Lovelock (1919 – 2022). *Science* 377, 927.
- LENTON, T.M. & LATOUR B., 2018. Gaia 2.0. Could humans add some level of self-awareness to Earth's self-regulation. *Science* 361, 1066-1068.
- LENTON, T.M. & LOVELOCK, J.E., 2001. Daisyworld revisited: quantifying biological effects on planetary self-regulation. *Tellus* 53B, 288-305.
- LENTON, T.M. a kol., 2021. Survival of the systems. *Trends in Ecology & Evolution* 36, 333-344.
- LENTON, T.M. a kol., 2022. A resilience sensing system for the biosphere. *Phil. Trans. R. Soc. B* 377: 20210883.
- LINEWEAVER, C.H. a kol., 2020. Evolution of habitability. Characteristics of

habitable planets. In: V.M. Kolb (ed.) *Handbook of Astrobiology*. CRC Press, str. 685-698.

LISS, P.S. & LOVELOCK, J.E., 2007. Climate change: the effect of DMS emissions. *Environmental Chemistry* 4, 377-378.

LOVELOCK, J.E., 1945. Wax pencils for writing on cold wet glassware. *Nature* 155, 581.

LOVELOCK, J.E., 1965. A physical basis for life detection experiments. *Nature* 207, 568-570.

LOVELOCK, J.E., 1969. Planetary atmospheres: Compositional and other changes associated with the presence of life. *Advances in Astronautical Sciences* 25, 179-193.

LOVELOCK, J.E., 1972. Gaia as seen through the atmosphere. *Atmospheric Environment* 6, 579-580.

LOVELOCK, J.E. a kol., 1972. Atmospheric dimethyl sulfide and natural sulfur cycle. *Nature* 237, 452-453.

LOVELOCK, J.E., 1975. Thermodynamics and the recognition of alien biospheres. *Proc. R. Soc. Lond. B.* 189, 167-181.

LOVELOCK, J.E., 1983. Daisy world – A cybernetic proof of the Gaia hypothesis. *The Co-evolution Quarterly*, Summer 1983, 66-72.

LOVELOCK, J.E., 1988. The earth as a living organism. In: E.O. Wilson (ed.) *Biodiversity*. National Academy Press, 486-489.

LOVELOCK, J.E., 1995. New statements on the Gaia theory. *Microbiología SEM* (Sociedad Española de Microbiología) 11, 295-304.

LOVELOCK, J.E., 2001. A way of life for agnostics? *Skeptical Inquirer*, September/October 2001, 40-42.

LOVELOCK, J.E., 2003. The living planet. *Nature* 426, 769-770.

LOVELOCK, J.E., 2003. Gaia and emergence. *Climatic Change* 57, 1-3.

LOVELOCK, J.E. & GRIFFIN, C.E., 1969. Planetary atmospheres: compositional and other changes associated with the presence of life. *Advances in the Astronautical Sciences* 25, 179-193.

LOVELOCK, J.E. & KUMP, L.R., 1994. Failure of climate regulation in a geophysiological model. *Nature* 369, 732-734.

- LOVELOCK, J.E. & MARGULIS, L., 1974a. Atmospheric homeostasis by and for the biosphere: the Gaia hypothesis. *Tellus* 26, 1-9.
- LOVELOCK, J.E. & MARGULIS, L., 1974b. Homeostatic tendencies of the Earth's atmosphere. *Origins of Life* 5, 93 – 103.
- LOVELOCK, J.E. & RAPLEY, C.G., 2007. Ocean pipes could help the Earth to cure itself. *Nature* 449, 403.
- LOVELOCK, J.E. & WATSON, A.J., 1982. The regulation of carbon dioxide and climate: Gaia or geochemistry. *Planet. Space Sci.* 30, 795-802.
- LOVELOCK, J.E. & WHIRFIELD, A.J., 1982. Life span of the biosphere. *Nature* 296, 561-563.
- MARGULIS, L. & LOVELOCK, J.E., 1978. The biota and modern modulation of the Earth atmosphere. *Pageoph (Pure and Applied Geophysics)*, 116, 239-243.
- MARKOŠ, A. 1995. The ontogeny of Gaia: The role of microorganisms in planetary information network. *J. Theor. Biol.* 176, 175-180.
- MARKOŠ, A. 2006. Za trvale udržitelný ústup: odkaz velikého vizionáře. *Vesmír* 4/2006, 239.
- MAYNARD-SMITH, J., 1988. Evolutionary progress and levels of selection. In: M.H. Nitecki (ed.) *Evolutionary Progress*, The University of Chicago Press, str. 219-230. [Str. 229: Žádný darwinista by nemohl přijmout hypotézu „Gaia“, podle níž je Země analogická živému organismu, protože Země není entitou s rozmnožováním, variabilitou a dědičností. Neměli bychom však touto myšlenkou, logicky chybnou, příliš pohrdat, dokud nebudeme schopni podat lepší objasnění dlouhodobé stability biosféry, než je v současnosti možné.]
- McDONALD-GIBSON, J. A kol., 2007. Environmental regulation can arise under minimal assumptions. *Journal of Theoretical Biology* 251: 653-666.
- MIDGLEY, M., 2000. Individualism and the concept of Gaia. *Review of International Studies* 26, 29-44.
- MOODY, D.E., 2012. Seven misconceptions regarding the Gaia hypothesis. *Climate Change* 113: 277-284.
- MUNOZ, E. & CARNEIRO, J., 2022. Plant-microbe symbiosis widens the habitability range of the Daisyworld. *Journal of Theoretical Biology* 554, 111275.
- NICHOLSON, A.E. a kol., 2018a. Alternative mechanisms for Gaia. *Journal Theoretical Biology* 457, 249-257.

- NICHOLSON, A.E. a kol., 2018b. Gaian bottlenecks and planetary habitability maintained by evolving model biospheres: the ExoGaia model. *MNRAS (Monthly Notices of the Royal Astronomical Society)* 477, 727-740.
- NUNES-NETO, N.F. a kol., 2009. Uma conexão entre algas e nuvens: fundamentos teóricos da hipótese claw e suas implicações para as mudanças climáticas. *Oecologia Brasiliensis* 13, 596-608.
- ODUM, E.P., 1992. Great ideas in ecology for the 1990s. *BioScience* 42, 542-545.
- PAUSAS, J.G. & BOND, W.J., 2022. Feedbacks in ecology and evolution. *Trends in Ecology & Evolution* 37, 637-644.
- PAWLICK, L. a kol., 2020. Impact of trees and forests on Devonian landscape and weathering processes with implications to the global Earth's system properties – A critical review. *Earth-Science Reviews* 205 (2020):103200.
- Quirk, J. a kol., 2012. Evolution of trees and mycorrhizal fungi intensifies silicate mineral weathering. *Biology Letters* 8, 1006-1011. [Preferential hyphal colonization of the calcium silicate-bearing rock, basalt, progressively increased with advancement from arbuscular mycorrhizal (AM) to later, independently evolved ectomycorrhizal (EM) fungi, and from gymnosperm to angiosperm hosts with both fungal groups. This led to 'trenching' of silicate mineral surfaces by AM and EM fungi, with EM gymnosperms and angiosperms releasing calcium from basalt at twice the rate of AM gymnosperms.]
- REJMÁNEK, M., 2020. Globální oteplování, změny krajin a ztráty biodiverzity. *Živa* 5/2020, 210-214.
- REJMÁNEK, M., 2021. Můžeme se vyhnout klimatické katastrofě? *Vesmír* 100, 512-513, 2021/7.
- RESNIK, D.B., 1992. Gaia: From fanciful notion to research program. *Perspectives in Biology and Medicine* 35, 572-582.
- REVELL, L.E. a kol. 2021. Atmosphere-ocean feedback from wind-driven sea spray aerosol production. *Geophysical Research Letters* 48, e202GL091900.
- RUBIN, S. & CRUCIFIX, M., 2022. Taking the Gaia hypothesis at face value. *Ecological Complexity* 49 (2022) 100981.
- SAGAN, C. a kol., 1993. A search for life on Earth from the Galileo spacecraft. *Nature* 365, 715-721.
- SHAW, G.E., 1987. Aerosols as climate regulators: A climate-biosphere linkage? *Atmospheric Environment* 21, 985-986.

- SHAW, G.E., 2007. Do biologically produced aerosols really modulate climate? Environmental Chemistry 4, 382-383.
- SCHWARTZMAN, D.W., 2017. Life's critical role in the long-term carbon cycle: the biotic enhancement of weathering. AIMS Geosciences 3, 216-238.
- SCHWARTZMAN, D.W. & VOLK, T., 1989. Biotic enhancement of weathering and the habitability of Earth. Nature 340, 457-460.
- SPROSS, L. a kol., 2021. Life as the only reason for existence of N₂-O₂-dominated atmospheres. Astronomy Reports 65, 275-296.
- TYRRELL, T., 2020. Chance played a role in determining whether Earth stayed habitable. Communications Earth & Environment 1, 61.
- VICCA, S. a kol., 2022. Is the climate change mitigation effect of enhanced silicate weathering governed by biological processes? Global Change Biology 28, 711-726.
- WALKER, J.C.G. a kol., 1981. A negative feedback mechanism for the long-term stabilization of Earth's surface temperature. Journal of Geophysical Research 86, 9776-9782.
- WATSON, A.J., 1999. Coevolution of the Earth's environment and life: Goldilocks, Gaia and the anthropic principle. In: Craig, G.I. & Hull J.H. (eds.): James Hutton – Present and Future. Geol. Soc., London, Spec. Publ. 150, 75-88.
- WATSON, A.J. & LOVELOCK, J.E., 1983. Biological homeostasis of the global environment: the parable of Daisyworld. Tellus 35B, 284-289.
- WILLIAMS, G.C., 1992. Gaia, nature worship and biocentric fallacies. The Quarterly Review of Biology 67, 479-486.
- WOOD, A.J. a kol., 2008. Daisyworld: A review. Reviews of Geophysics 46, RG1001