

## **Recent literature on hydrogen energy and its technologies (a selection)**

T.N.Veziroglu (Editor-in-Chief), International Journal of Hydrogen Energy, Official Journal of the International Association for Hydrogen Energy, 5783 SW 40 St. #303, Miami, FL 33155, USA, [www.elsevier.com](http://www.elsevier.com), [www.sciencedirect.com](http://www.sciencedirect.com)

Joseph J Romm, The Hydrogen HYPE, Island Press, 2004

L. Barreto et al., The hydrogen economy in the 21st century: a sustainable development scenario, Int.L J Hydrogen Energy 28 (2003) 267-284

N. Nakicenovic, Freeing energy from carbon, Daedalus 1996; 125 (3), 95-112

J. Ogden, Prospects for building a hydrogen energy infrastructure, Annu. Rev. Energy Environ 1999, 24, 227-79

A. Lovins, B. Williams, A strategy for the hydrogen transition, Paper pres. At the 10<sup>th</sup> US Annual Hydrogen Meeting, National Hydrogen Association, Vienna, Va, 1999

T. Hijikata, Research and development of international clean energy network using hydrogen energy (WE-NET), I J Hydrogen Energy, 27 (2002) 115-129

S. Dunn, Hydrogen futures: toward a sustainable energy system, I J Hydrogen Energy 27 (2002) 235-264

I. Dincer, Technical, environmental and exergetic aspects of hydrogen energy systems, I. J. Hydrogen Energy 27 (2002) 265-285

J. M. Ogden, Developing an infrastructure for hydrogen vehicles: a Southern California case study, I.J. Hydrogen Energy 24 (1999) 709-730

M. Steinberg, Fossil fuel decarbonization technology for mitigating global warming, I.J.Hydrogen Energy 24 (1999) 771-777

A. B. Lovins, B.D. Williams, A Strategy for the Hydrogen Transition, paper given at the 10<sup>th</sup> Annual Meeting, National Hydrogen Association, Vienna, Virginia, 7-9 April 1999

C.-J. Winter, J. Nitsch, Wasserstoff als Energieträger, Springer Verlag 1988

C.-J. Winter, forum hydrogenium 2003, A Dispute on Energy, Paper given at HYFORUM 2003, The International Hydrogen Energy Forum 2003, 21-24 October, 2003, Beijing, China, im Druck

C.-J. Winter, On the HYway - sustainable assets in Germany's energy state's portfolio, International J. Hydrogen Energy 28 (2003), 477-481, see also [www.sciencedirect.com](http://www.sciencedirect.com)

C.-J. Winter, Wasserstoff und Kohle - Castor und Pollux, Vortrag gehalten auf dem Deutschen Wasserstoff Energietag 2002, 12. – 14. November 2002 in Essen

C.-J. Winter, Wasserstoff aus Biomasse - Status quo und Perspektiven, Vortrag gehalten auf dem Fachkongress „Kraftstoffe der Zukunft“ der Bundesinitiative Bioenergie BBE, 04.-05. Dezember 2002 in Berlin

C.-J. Winter, Energy Sustainability - The Road is the Destination, Invited paper given at the Energy and Sustainability Forum of the Federal Institute of Technology, Lausanne, Switzerland, 28 March 2000

W. Vielstich, A. Lamm, H.A. Gasteiger (Eds.), Handbook of Fuel Cells, Fundamentals, Technology, Applications, 4 Vol., 2003, [www.wiley.com/hfc](http://www.wiley.com/hfc)

K.P.De Jong, H.M.H.v.Wechem, Carbon: Hydrogen Carrier or Disappearing Skeleton?, Int. J. Hydrogen Energy, Vol. 20, Nr. 6

G.A.Karim, Hydrogen as a spark ignition engine fuel, Int'l J. Hydrogen Energy 28 (2003) 569 – 577

W. Iwasaki, Magnetic refrigeration technology for an international clean energy network using hydrogen energy, Int'l J. Hydrogen Energy 28 (2003) 559 – 567

J. Martinez-Frias et al., A natural gas – assisted steam electrolyzer for high-efficiency production of hydrogen, Int'l J. Hydrogen Energy 28 (2003) 483 – 490

Amory B. Lovins, Twenty Hydrogen Myths, [www.rmi.org/sitepages/art7516.php](http://www.rmi.org/sitepages/art7516.php), 2003

Ulf Bossel, The Birth of the Fuel Cell 1835-1845, ISBN 3-905592-06-1, 2000

M.L.Neelis et al., Exergetic life cycle analysis of hydrogen production and storage systems for automotive applications, International J. Hydrogen Energy 29 (2004) 537 – 545

John Barclay, [www.cryofuelsystems.com](http://www.cryofuelsystems.com) (magnetic refrigeration)

A.E.Lutz et al., Thermodynamic comparison of fuel cells to the Carnot cycle, Int'l J. Hydrogen Energy 27, Nr.10 (2002) 1103-1111

R.S.Cherry, A hydrogen utopia?, Int'l J. Hydrogen Energy 29 (2004) 125-129

R.A.Hefner III, The age of Energy gases, Int'l J. Hydrogen Energy 27 (2002) 1-9

A.E.Lutz et al., Thermodynamic analysis of hydrogen production by steam reforming, Int'l J. Hydrogen Energy 28 (2003) 159-167

C.-J. Winter, The hydrogen energy economy: an address to the World Economic Forum 2004, Int'l J. Hydrogen Energy 29 (2004) 1095-1097

S. Prince-Richard et al., A techno-economic analysis of decentralized electrolytic hydrogen production for fuel cell vehicles, Int'l J. Hydrogen Energy 30 (2005) 1159-1179

- St. Consonni et al., Decarbonized hydrogen and electricity from natural Gas, Int'l J. Hydrogen Energy 30 (2005) 701-718
- P. Chiesa et al., Co-production of hydrogen and CO<sub>2</sub> from coal with commercially ready technology. Part A: Performance and emissions, Int'l J. Hydrogen Energy 30 (2005) 747-767
- Th. Kreutz et al., Co-production ... see above. Part B: Economic analysis, Int'l J. Hydrogen Energy 30 (2005) 769-784
- B.C.R. Ewan et al., A figure of merit assessment of the routes to hydrogen, Int'l J. Hydrogen Energy 30 (2005) 809-819
- C.-J. Winter, Electricity, hydrogen - competitors, partners?, Int'l J Hydrogen Energy 30 (2005) 1371 – 1374
- S.J.Gould and N.Eldredge, Punctuated equilibrium comes of age, Nature 366, 1993, 223-27
- Energy's future beyond carbon, Scientific American, September 2006
- S.M.Aceves et al., Vehicular storage of hydrogen in insulated pressure vessels, Int'l J Hydrogen Energy 31 (2006) 2274-2283
- B. Sørensen, Hydrogen & Fuel Cells, 2007, [www.amazon.com](http://www.amazon.com)
- D.S. Scott, Smelling Land, The Hydrogen Defence against Climate Catastrophe, 2007, [www.H2.ca](http://www.H2.ca)
- M. Ball et al., Integration of a hydrogen economy into the German energy system : an optimising modelling approach, Int'l J Hydrogen Energy 32 (2007) 1355-1368
- M.A.Rosen, D.S.Scott, Entropy Production and Exergy Destruction: Part I, Hierarchy of Earth's major Constituencies; Part II, Illustrative Technologies, Int'l J Hydrogen Energy 28 (2003) 1307-1313 and 1315-1323
- J.W.Sheffield, C.Sheffield (Eds.), Assessment of Hydrogen Energy for Sustainable Development, Springer, [www.springer.com](http://www.springer.com), ISBN 978-1-4020-6442-5 (e-book)
- T. Bose, P. Malbrunot, Hydrogen, Facing the energy challenges of the 21<sup>st</sup> century, John Libbey Eurotext, [www.jle.com](http://www.jle.com)
- A.P.Simpson et al., Exergy analysis of hydrogen production via steam methane reforming, Int'l J Hydrogen Energy 32 (2007), 4811-4820
- M.P.de Wit, et al., Impact of hydrogen onboardstorage technologies in the performance of hydrogen fuelled vehicles. A techno-economic well-to-wheel assessment. Int'l J Hydrogen Energy 32 (2007), 4859-4870
- L. Barreto et al., The hydrogen economy in the 21st century: a sustainable development scenario, Int'l J Hydrogen Energy 28 (2003) 267-284

E.H.Seymour et al., Indicators of European public research in hydrogen and fuel cells - An input-output analysis, Int'l J Hydrogen Energy 32 (2007). 3212-3222

K. Verfondern (Ed.), Nuclear Energy for Hydrogen Production, Forschungszentrum Jülich, Energy Technology, Vol. 58, 2007, ISBN 978-3-89336-468-8

B. van Ruijven et al., The potential role of hydrogen in energy systems with and without climate policy, Int'l J Hydrogen Energy 32 (2007) 1655-1672

Y. Haseli et al., Comparative assessment of greenhouse gas mitigation of hydrogen passenger trains, Int'l J Hydrogen Energy 33 (2008) 1788-1796

Carl-Jochen Winter, Energieversorgung - Optionen für die Zukunft, in Technologien für das 21. Jahrhundert, F. A. Brockhaus Mensch, Natur, Technik 2000, ISBN 3-7653-7945-X

Nazim Z. Muradov, T. Nejat Veziroglu, Carbon-Neutral Fuels and Energy Systems, CRC Press, Taylor & Francis Group, Boca Raton London, New York; 6000 Broken Sound Parkway NW, Suite 300, Boca Raton, Fl. 33487-2742, 2012; ISBN 978-1-4398-1857-2

Carl-J. Winter, Hydrogen Energy - Abundant, Efficient, Clean - A debate over the Energy-System-of-Change, in Nazim Z. Murado, T. Nejat Veziroglu, Carbon-Neutral Fuels and Energy Carriers, CRC Press, Taylor & Francis Group, Boca Raton, London, New York, ISBN 978-1-4398-1857-2