

**BlackLight Power, Inc. Publications:
Journals, Proceedings and Book**

1. R. L. Mills, P. Ray, B. Dhandapani, "Excessive Balmer α Line Broadening of Water-Vapor Capacitively-Coupled RF Discharge Plasmas," International Journal of Hydrogen Energy, Vol. 33, (2008), 802–815.
2. R. L. Mills, J. He, M. Nansteel, B. Dhandapani, "Catalysis of Atomic Hydrogen to New Hydrides as a New Power Source," International Journal of Global Energy Issues (IJGEI). Special Edition in Energy Systems, Vol. 28, issue 2–3, (2007), 304–324.
3. R.L. Mills, H. Zea, J. He, B. Dhandapani, "Water Bath Calorimetry on a Catalytic Reaction of Atomic Hydrogen," Int. J. Hydrogen Energy, Vol. 32, (2007), 4258–4266.
4. J. Phillips, C. K. Chen, R. L. Mills, "Evidence of Catalytic Production of Hot Hydrogen in RF-Generated Hydrogen/Argon Plasmas," Int. J. Hydrogen Energy, Vol. 32(14), (2007), 3010–3025.
5. R. L. Mills, J. He, Y. Lu, Z, M. Nansteel, Chang, B. Dhandapani, "Comprehensive Identification and Potential Applications of New States of Hydrogen," Int. J. Hydrogen Energy, Vol. 32(14), (2007), 2988–3009.
6. R. L. Mills, J. He, Z, Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrogen Species $H(1/4)$ and $H_2(1/4)$ as a New Power Source," Int. J. Hydrogen Energy, Vol. 32(13), (2007), pp. 2573–2584.
7. R. L. Mills, "Maxwell's Equations and QED: Which is Fact and Which is Fiction," Physics Essays, Vol. 19, (2006), 225–262.
8. R. L. Mills, P. Ray, B. Dhandapani, Evidence of an energy transfer reaction between atomic hydrogen and argon II or helium II as the source of excessively hot H atoms in radio-frequency plasmas, J. Plasma Physics, Vol. 72, No. 4, (2006), 469–484.
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10. R. L. Mills, P. C. Ray, R. M. Mayo, M. Nansteel, B. Dhandapani, J. Phillips, "Spectroscopic Study of Unique Line Broadening and Inversion in Low Pressure Microwave Generated Water Plasmas," J. Plasma Physics, Vol. 71, No 6, (2005), 877–888.
11. R. L. Mills, "The Fallacy of Feynman's Argument on the Stability of the Hydrogen Atom According to Quantum Mechanics," Ann. Fund. Louis de Broglie, Vol. 30, No. 2, (2005), pp. 129–151.
12. R. L. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride from a Helium Plasma Reaction," Materials Chemistry and Physics, 94/2–3, (2005), 298–307.

13. R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani, "Catalysis of Atomic Hydrogen to Novel Hydrides as a New Power Source," Prepr. Pap.—Am. Chem. Soc. Conf., Div. Fuel Chem., Vol. 50, No. 2, (2005).
14. R. L. Mills, J. Sankar, A. Voigt, J. He, P. Ray, B. Dhandapani, "Role of Atomic Hydrogen Density and Energy in Low Power CVD Synthesis of Diamond Films," *Thin Solid Films*, 478, (2005) 77–90.
15. R. L. Mills, "The Nature of the Chemical Bond Revisited and an Alternative Maxwellian Approach," *Physics Essays*, Vol. 17, (2004), 342–389.
16. R. L. Mills, P. Ray, "Stationary Inverted Lyman Population and a Very Stable Novel Hydride Formed by a Catalytic Reaction of Atomic Hydrogen and Certain Catalysts," *J. Opt. Mat.*, 27, (2004), 181–186.
17. R. L. Mills, P. Ray, B. Dhandapani, W. Good, P. Jansson, M. Nansteel, J. He, A. Voigt, "Spectroscopic and NMR Identification of Novel Hydride Ions in Fractional Quantum Energy States Formed by an Exothermic Reaction of Atomic Hydrogen with Certain Catalysts," *European Physical Journal: Applied Physics*, 28, (2004), 83–104.
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19. R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, W. Good, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Advances in Hydrogen Energy, Prepr. Pap.—Am. Chem. Soc. Conf., Vol. 49, No. 2, (2004).
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