

David Luttrull Publications

1. Laser Resensitization of Medically Unresponsive Neovascular Age-Related Macular Degeneration: Efficacy and Implications. Jeffrey K. Luttrull, M.D., David B. Chang, Ph.D., Benjamin L. Margolis, Giorgio Dorin, BS, and David K. Luttrull, Ph.D., RETINA, The journal of retinal and vitreous diseases, 2014, Volume 0, Number 0.
2. Boric acid in PCBs: compliance with EU REACH regulations. Mullins, Michael J.; Luttrull, David K.; Schumacher, Hans. Circuit World, Vol. 37, No. 4, 2011.
3. Breathe delivery system and method. Landini, B.; Vrtis, J.; Druyor-Sanchez, R.; Bravard, S.; Luttrull, D.; McIntyre, J.; Cranley, P. Pub. No. WO/2009/058366; Publication Date: 5 July 2009; International Application No. PCT/US2008/0112377
4. Palm-sized enzyme-based electrochemical breath-acetone sensor. B. Landini, B. Sanchez, D. Luttrull, S. Bravard, J. McIntyre, P. Cranley, J. Vrtis (Kemeta, LLC) IMAPS International Conference and Exhibition on Device Packaging, March 19-22, 2007, Doubletree Paradise Valley Resort, Scottsdale, AZ USA
5. Development and screening of polymer collar WLP1 candidates for lead-free solder sphere technology to enhance reliability. Luttrull, D.; International Wafer Level Packaging Congress 2005, IWLPC Conference, San Jose, CA.
6. Associative return electron transfer. A bond-coupled electron transfer in the photo-reactions of cyclopropylamines. Yingsheng Wang, David K. Luttrull, Joseph P. Dinnocenzo, Joshua L. Goodman, Samir Farid, and Ian R. Gould. Photochemical & Photobiological Sciences (Royal Society of Chemistry), 2003, 2 (11), 1169-1176.
7. Styrene-maleic anhydride copolymer and epoxy resin blend cross-linked with multifunctional amine compounds. Inventor: Luttrull, David K.; Patent #: 6534181 March 18, 2003.
8. Circuit-board moisture sensitivity and staining at the oxide interface: a comparison of materials and discussion of possible mechanisms, Luttrull, D.; Burr, G.; Bauler, J. IPC Printed Circuits Expo. Proceedings of the Technical Conference, 2000, pp. S10da-e viii+550 page(s), 9 reference(s), Conference paper, Park Electrochemical. Corp., Tempe, AZ, USA, Copyright 2001, IEEE, IPC, Northbrook, IL, USA, 2-6 April 2000, Proceedings of IPC Printed Circuits Expo, San Diego, CA, USA.
9. A new, advanced-performance halogen-free resin system for high-speed applications and lead-free solder PCB processes. Luttrull, David; Hickman, Fred; Park Electrochemical Corporation, Lake Success, NY. Luttrull presented this paper at the Electronics Goes Green 2000 Conference and Proceedings, Berlin, Germany, on September 15, 2000; See also Future Circuits International, Issue 7, Technology Publishing Ltd in London, UK.
10. Developmental halogen-free high performance dielectric substrates: comparison with different resins/support materials for the PCB/HDI and high-frequency applications. Luttrull, David; Bauler, Joseph, Park Electrochemical Corporation, Inc., presentation at the IPC National Meeting and Proceedings, Anaheim, CA, March 27, 2001.
11. Photo-induced electron and energy transfer in molecular pentads, Gust, D.; Moore, T. A.; Moore, A. L.; Macpherson, A. N.; Lopez, A.; DeGraziano, J. M.; Gouni, L.; Bittersmann, E.; Seely, G. R.; Feng Gao; Nieman, R. A.; Ma, X. C.; Demanche, L. J.; Su-Chun Hung;

- Luttrull, D. K.; Seung-Joo Lee; Kerrigan, P. K. *Journal of the American Chemical Society*, Vol. 115, No. 24, 1 Dec. 1993, PP. 11141-52, 28 reference(s).
12. Tetra-arylporphyrins in mixed Langmuir-Blodgett films. Steady-state and time-resolved fluorescence studies. Gust, Devens; Moore, Thomas A.; Moore, Ana L.; Luttrull, David K.; DeGraziano, Janice M.; Boldt, Nancy J.; Van der Auweraer, Mark; De Schryver, Frans C. *Langmuir* Vol. 7., No. 7 Jul 1991 pp. 1483-1490, 1991.
 13. Long-lived photoinitiated charge separation in carotene-diporphyrin triad molecules. Gust, D.; Moore, T. A.; Moore, A. L.; Gao, F.; Luttrull, D.; DeGraziano, J. M.; Ma, X. C.; Makings, L. R.; Seung-Joo Lee; Trier, T. T.; Bittersmann, E.; Seely, G. R.; Woodward, S.; Bensasson, R. V.; Rougee, M.; De Schryver, F. C.; Van der Auweraer, M. *Journal of the American Chemical Society*, Vol. 113, No. 10, 8 May 1991, pp. 3638-49, 53 reference(s).
 14. Photophysics and scanning tunneling microscopy of Porphyrin-based molecular devices. Luttrull, David Keith, *Dissertation Abstracts*, Vol. 52-04B, 1991, pp. 2039, 219 page(s), Arizona State University, Tempe, AZ.
 15. Imaging porphyrin-based molecules on a gold substrate in ambient conditions. Luttrull, D. K.; Graham, J.; DeRose, J. A.; Gust, D.; Moore, T. A.; Lindsay, S. M., *Langmuir*, Vol. 8, No. 3, 1992(-03) pp. 765-768.
 16. Multi-step photo-initiated charge separation in a molecular pentad. Moore, Thomas A.; Gust, Devens; Moore, Ana L.; Lee, Seung-Joo; Bittersmann, Edith; Luttrull, David K.; DeGraziano, Janice M.; Ma, Xiaochun C.; Gao, Feng, *Biomedical Engineering Perspectives: Health Care Technologies for the 1990's and Beyond Proceedings of the Annual Conference on Engineering in Medicine and Biology pt 4*. Published by IEEE, IEEE Service Center, Piscataway, NJ, USA (IEEE cat n 90CH2936-3). Pp. 1737-1738, 1990, Conference Paper, *Proceedings of the Annual Conference on Engineering in Medicine and Biology*, Arizona State University, Tempe, AZ, USA, 19901101-19901104, and *Proceedings of the 12th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Philadelphia, PA, USA
 17. Efficient multi-step photo-initiated electron transfer in a molecular pentad. Gust, D.; Moore, T. A.; Moore, A. L.; Lee, Seung-Joo; Bittersmann, E.; Luttrull, D. K.; Rehms, A. A.; DeGraziano, J. M.; Xiaochun C. Ma; Feng Gao; Belford, R. E.; Trier, T. T., *Science* (Washington, D.C.), Vol. 248, No. 4952, 1990-04-13, pp. 199
 18. Photophysical properties of 2-nitro-5,10,15,20-tetra-p-tolyl-porphyrins. Gust, D.; Moore, T. A.; Luttrull, D. K.; Seely, G. R.; Bittersmann, E., (Arizona State Univ., Tempe (United States)); Bensasson, R. V.; Rougee, M., (Lab. de Biophysique, Paris (France)); Land, E. J., (Holt Radium Inst., Manchester (United Kingdom)); Schryver, F. C. De; Auweraer, M. Van Der, (Katholieke Univ. Leuven (Belgium)) *Photochemistry and Photobiology* (United Kingdom), Vol. 51, No. 4, 1990, pp. 419-426 Arizona State Univ., Tempe (United States); Lab. de Biophysique, Paris (France); Holt Radium Inst., Manchester (United Kingdom); Katholieke Univ. Leuven (Belgium)
 19. Multistep photo-initiated electron transfer in molecular pentads and tetrads Gust, D.; Moore, T. A.; Moore, A. L.; Lee, Seungjoo; Bittersmann, E.; Luttrull, D. K.; DeGraziano, J.; Xiaochun C. Ma; Gao, Feng, (Arizona State Univ., Tempe (USA)) pp. 214 - 271 page(s), *Proceedings of the Fourteenth DOE solar photochemistry research conference*, Arizona State Univ., Tempe (USA), Brookhaven National Lab., Upton, NY (United

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21. Rose Bengal aggregation in rationally synthesized dimer systems, Luttrull, David K.; Valdes-Aguilera, Oscar; Linden, Shwn Meei; Paczkowski, Jerzy; Neckers, D. C., Photochemistry and Photobiology (UK), 1988, Vol.47, Issue. No. 4, pp.551-557, Bowling Green State University. Center for Photochemical Sciences, Bowling Green, OH 43403, USA.
22. Effect of N-Bromosuccinimide (NBS) and other N-Bromating Agents on the bromination of alpha, beta- unsaturated ketones in methanol, Heasley, Victor L.; Louie, Timothy J.; Luttrull, David K.; Millar, Mark D.; Moore, Hal B.; Nogales, Danny F.; Sauerbery, Andreas M.; Shevel, Amy B.; Shibuya, Terry Y.; et al. J. Organic Chemistry, 1988, Vol.53, Issue #10, pp. 2199-2204.