

Literatura

- [1] BP Solar Sees Proven Performance Over 25 Years Using Silicone Encapsulant from Dow Corning. Case Study, BP Solar 2010.
- [2] Daliento, S., Lancellotti, L., *3D Analysis of the performance degradation caused by series resistance in concentrator solar cells*. Solar Energy, 2010, 84, 44–50.
- [3] Ketola, B.M., McIntosh, K.R., Norris, A., Tomalia, M.K., *Silicones for photovoltaic encapsulation*. In: 23rd European Photovoltaic Solar Energy Conference, 1–5 September 2008, Valencia, Spain, 2969–2973.
- [4] Paretta, A., Bombace, M., Graditi, G., Schioppo, R., *Optical degradation of long-term, field-aged c-Si photovoltaic modules*. Solar Energy Materials & Solar Cells, 2005, 86, 349–364.
- [5] Persic, I.S., Strebkov, D.S., Cechunina, G.S., Potapov, V.N., *The Solar Photovoltaic Panel Design*. Russia Patent 2.284.075, 2005.
- [6] Persic, I.S., Strebkov, D.S., Cechunina, G.S., Cirkov, A.V., Poulek, V., *The Solar Photovoltaic Panel Design*. Russia Patent 2.431.786, 2010.
- [7] Reda, S.M., *Stability and photodegradation of phthalocyanines and hematoporphyrin doped PMMA as solar concentrators*. Solar Energy, 2007, 81, 755–760.
- [8] Sobolevski, M.V. et al., *Properties and areas of exploitation of silicone organic products*. Chemistry, 1975, 296.
- [9] Wohlgemuth, J.H., *Long Term Photovoltaic Module Reliability*. NCPV and Solar Program Review Meeting, NREL/CD-520-33586, 2003.
- [10] Poulek, V., Strebkov, D.S., Persic, I.S., Libra, M., *Towards 50 years lifetime of PV panels laminated with silicone gel technology*. Solar Energy, 2012, 86, 10, 3103–3108.
- [11] Mezinárodní norma IEC 61215.
- [12] Libra, M., Poulek, V., *Životnostní zkoušky pohyblivého, fotovoltaického, solárního systému nové konstrukce*. Jemná mechanika a optika, 1999, 44, 4, 119–120.

[13] Libra, M., Poulek, V., *Bifacial PV Modules in Solar Trackers and Concentrators, a New Approach to Supplying Power in Agriculture*. Chapter in the book "Physical Methods in Agriculture, Approach to Precision and Quality". New York: Kluwer Academic/Plenum Publishers, 2002, 83-104.

[14] White, F. M., *Fluid Mechanics*. Mc. Graw-Hill, inc., 1994.

[15] Stachy, R.W., McCormick, P.G., *Effect of Concentration on the Performance of Flat Plate Photovoltaic Modules*. Solar Energy, 1984, 33, 6, 565-569.

[16] Nann, S., *Potentials for tracking photovoltaic systems and V-troughs in moderate climates*. Solar Energy, 1991, 45, 385-393.

[17] Poulek, V., Libra, M., *A New Low Cost Tracking Ridge Concentrator*. Solar Energy Materials and Solar Cells, 2000, 61, 2, 199-202.

[18] Kalogirou, S. A., Tripanagnostopoulos, Y., *Hybrid PV/T solar systems for domestic hot water and electricity production*. Energy Conversion and Management, 2006, 47, 18-19, 3368-3382.

[19] Tripanagnostopoulos, Y., et al., *Hybrid photovoltaic/thermal solar systems*. Solar Energy, 2002, 72, 3, 217-234.

[20] Jirka, V. at al., *Skleněné rastry pro stavebnictví a architekturu – využití v modulárním skleníku v Třeboni*. ČVUT v Praze, 2009, 1. vydání, 304 stran, ISBN 978-80-01-04288-5.

[21] Leutz Ralf, Suzuki Akio, *Nonimaging Fresnel Lenses : Design and Performance of Solar Concentrators*. Berlin : Springer-Verlag Berlin Heidelberg New York, 2001, 272 stran, ISBN 3540418415.

[22] Šourek, B., Korečko, J., Jirka, V., Červený, J., Řehor, E., *Application of Linear Fresnel Glass Lenses and Reflecting Optical Raster Made of Glass - Model and Real Building Comparison*. In: Eurosun 2006. Glasgow: International Solar Energy Society, 2006, 55-64, ISBN 0-904963-73-1.

[23] Korečko, J., Jirka, V., Šourek, B., Červený, J., *Module greenhouse with high efficiency of transformation of solar energy, utilizing active and passive glass optical rasters*. Solar Energy, 2010, 84, 10, 1794-1808.

[24] Libra, M., Poulek, V., *Fotovoltaika*. Praha : ILSA, 2010. ISBN 978-80-904311-5-7.

Literatura

- [25] Poulek, V., Libra, M., Jirka V., Persic, I.S., *Polysiloxane Gel Lamination Technology for Solar Panels and Rastered Glazing*. Praha : ILSA, 2013, 93 stran, ISBN 978-80-904311-8-8.
- [26] Poulek, V., Libra, M., *New solar tracker*. Solar Energy Materials and Solar Cells, 1998, 51, 113–120.
- [27] Poulek, V., Khudysh, A., Libra, M., *Self powered solar tracker for Low Concentration PV (LCPV) systems*. Solar Energy, 2016, 127, 109-112.
- [28] Poulek, V., Khudysh, A., Libra, M., *Innovative low concentration PV systems with bifacial solar panels*. Solar Energy, 2015, 120, 113-116.
- [29] Matuska, T., Sourek, B., Jirka, V., Pokorný, N., *Glazed PVT collector with polysiloxane encapsulation of PV cells: performance and economic analysis*. International Journal of Photoenergy, 2015, Article ID 718316.
- [30] Kaplani, E., *Detection of Degradation Effects in Field-Aged c-Si Solar Cells through IR Thermography and Digital Image Processing*. International Journal of Photoenergy, 2012, Article ID 396792.
- [31] Kittel, Ch., *Úvod do fyziky pevných látek*. Praha : Academia, 1985.
- [32] Eckertová L. a kol., *Fyzikální elektronika pevných látek*. Praha : Karolinum, 1992, ISBN 80-7066-535-1.
- [33] Frank, H., V. Šnejdar, V. *Principy a vlastnosti polovodičových součástek*. Praha : SNTL, 1976.
- [34] Strebkov, D.S., *Матричные солнечные элементы*, Moscow : ВИЭСХ, 2010.
- [35] Libra, M., Poulek, V., *Fyzikální podstata fotovoltaické přeměny solární energie*. Světlo, 8, 1, 2005, 32-36.
- [36] Libra, M., Poulek, V., Kouřím, P., *Temperature changes of I-V characteristics of photovoltaic cells as a consequence of the Fermi energy level shift*. Research in Agricultural Engineering, 2017, 63, 1, 10-15.
- [37] Poulek, V., Libra, M., *Konstrukce a výroba fotovoltaických článků a panelů*, Elektro, 2010, 20, 3, 6-9.
- [38] Liu, Z., Peters, M., Shanmugam, V., Khoo, Y.S., Guo, S., Stangl, R., Aberle, A.G., Wong, J., *Luminescence imaging analysis of light harvesting from inactive areas in crystalline silicon PV modules*. Solar Energy Materials & Solar Cells, 2016, 144, 523–531.

- [39] Kasemann, M. et.al., *Luminescence Imaging for the Detection of Shunts on Silicon Solar Cells*. Progress in Photovoltaics: Research and Applications, 2008, 16, 297–305.
- [40] Olšan, T., Libra, M., Poulek, V., Chalupa, B., Sedláček, J., *Combination of Three Methods of Photovoltaic Panels Damage Evaluation*. Scientia Agriculturae Bohemica, 2017, 48, 2, 98–101.
- [41] Zhu, L., Shao, Z., Sun, Y., Soebarto, V., Gao, F., Zillante, G., Zuo, J., *Indoor daylight distribution in a room with integrated dynamic solarconcentrating facade*. Energy and Buildings, 2018, 158, 1-13.
- [42] Kříž, R., Suzuki Akio, *Nanímáging Fresnel Lenses: Design and Performance*. Journal of Optics, Moscow: BINUS, 2011.
- [43] Libra, M., Poulek, V., *Fyzikální podstata fotovoltaické přeměny solární energie*. Systém & 1, 2007, 32-36.
- [44] Souček, B., Kurečka, J., Jirka, V., Červeny, J., Rehor, J., *Linear Fresnel Glass Lenses and Reflective Optical Rectifier Modules and their Application in the Laboratory*. Journal of Optics, Moscow: BINUS, 2011.
- [45] Libra, M., Poulek, V., Kříž, R., *Temperature changes of I-V characteristics of photovoltaic cells in a consequence of the point contact level shift*. Research in Agricultural Engineering, 2017, 63, 1, 10-15.
- [46] Kříž, R., Libra, M., Souček, B., Červeny, J., Rehor, J., *Linear Fresnel Glass Lenses and Reflective Optical Rectifier Modules and their Application in the Laboratory*. Journal of Optics, Moscow: BINUS, 2011.
- [47] Poulek, V., Libra, M., Kříž, R., *Konstrukce a výroba fotovoltaického článku s plovoucí vrstvou*. Elektrik, 2016, 10, 3, 6-9.
- [48] Liu, Z., Peter, M., Shannugam, V., Khoo, Y.S., Guo, S., Stangl, R., Abdel-Aziz, A.G., Wong, J., *Luminescence imaging method of light harvesting from junction areas in crystalline silicon PV modules*. Solar Energy Materials & Solar Cells, 2016, 144, 523-531.