

SELECTED PAPERS

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- [1] Paulescu M, Paulescu E (2019) Short-term forecasting of solar irradiance. *Renewable Energy* 143, 985-994 (2019)
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- [3] Calinoiu D, Stefu N, Boata R, Blaga R, Pop N, Paulescu E, Sabadus A, Paulescu M (2018) Parametric modeling: A simple and versatile route to solar irradiance. *Energy Conversion and Management* 164, 175-187.
- [4] Blaga R, Paulescu M (2018) Quantifiers for the solar irradiance variability: A new perspective. *Solar Energy* 174, 606-616.
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- [6] Paulescu M, Stefu N, Calinoiu D, Paulescu E, Pop N, Boata R, Mares O (2016) Ångström – Prescott equation: Physical basis, empirical models and sensitivity analysis. *Renewable and Sustainable Energy Reviews* 62: 495-506.
- [7] Stefu N, Paulescu M, Blaga R, Calinoiu D, Pop N, Boata R, Paulescu E (2016) A theoretical framework for Ångström equation. Its virtues and liabilities in solar energy estimation. *Energy Conversion and Management*, 112, 236-245.
- [8] Paulescu E, Blaga R (2016) Regression models for hourly diffuse solar radiation. *Solar Energy* 125, 111-124.
- [9] Mares O, Paulescu M, Badescu V (2015) A simple but accurate procedure for solving the five-parameter model. *Energy Conversion and Management* 105, 139-148.
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- [12] Pop N, Pacurar A, Boata R, Gravila P, Paulescu M (2014) Assessment of beam solar irradiance using parametric modeling. *International Journal of Green Energy* 11, 876-885.

- [13] Calinoiu D, Paulescu M, Ionel I, Stefu N, Pop N, Boata R, Pacurar A, Gravila P, Paulescu E, Trif-Tordai G. Influence of aerosols pollution on the amount of collectable solar energy (2013) *Energy Conversion and Management* 70, 76-82.
- [14] Paulescu M, Tulcan-Paulescu E, Stefu N (2011) A temperature-based model for global solar irradiance and its application to estimate daily irradiation values. *International Journal of Energy Research* 35, 520-529.
- [15] Paulescu M, Stefu N, Tulcan-Paulescu E, Caliniu D, Neculae A, Gravila P (2010) UV solar irradiance from broadband radiation and other meteorological data. *Atmospheric Research* 96, 141-148.