

Scientific papers

1. Robert Blaga, Andreea Sabadus, **Nicoleta Stefu**, Ciprian Dughir, Marius Paulescu, Viorel Badescu, *A current perspective on the accuracy of incoming solar energy forecasting*, **Progress in Energy and Combustion Science** 70 (2019) 119–144 (ISI=25.242 in 2017, AIS = 7.139)
2. D. Calinoiu, **Nicoleta Stefu***, R. Boata, R. Blaga, N. Pop, E. Paulescu, A. Sabadus, M. Paulescu, *Parametric modeling: A simple and versatile route to solar irradiance*, **Energy Conversion and Management** Volume 164, 15 May 2018, Pages 175–187 (2018)
3. M. Lungu, **N. Stefu**, *Study on particulate matter dispersion by correlating direct measurements with numerical simulations. Case study: Timisoara urban area*, **International Journal of Environmental Science and Technology**, (2018), Volume 15, Issue 7, pp 1441–1452
4. Paulescu, E ; Iman, V ; Dughir, C ; **Stefu, N** ; Paulescu, M, *A Simplified but Accurate UV Index Model*, Conference: 17th Physics Conference Location: Timisoara, ROMANIA Date: MAY 25-27, 2017 TIM17 PHYSICS CONFERENCE Book Series: **AIP Conference Proceedings** Volume: 1916 Article Number: UNSP 040010 (2017)
5. Lungu, M ; Lungu, A ; **Stefu, N**; Neculae, A; Strambeanu, N, *Analysis of Airborne Particulate Matter Pollution in Timisoara City Urban Area and Correlations Between Measurements and Meteorological Data*, TIM15-16 PHYSICS CONFERENCE Book Series: **AIP Conference Proceedings** Volume: 1796 Article Number: UNSP 040011 (2017)
6. M. Paulescu, **N.Stefu***, D.Calinoiu, E.Paulescu, N.Pop, R.Boata, O.Mares, “*Ångström–Prescott equation: Physical basis, empirical models and sensitivity analysis*”, **Renewable and Sustainable Energy Reviews** 62 (2016) 495–506
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8. **Nicoleta Stefu**, Marius Paulescu, Robert Blaga, Delia Calinoiu, Nicolina Pop, Remus Boata, Eugenia Paulescu, „*A theoretical framework for Ångström equation. Its virtues and liabilities in solar energy estimation*”, **Energy Conversion and Management** 112 (2016) 236–245
9. M. Paulescu , **N.Stefu**, D.Calinoiu, E.Paulescu, N.Pop, R.Boata, O.Mares, *Ångström–Prescott equation: Physical basis, empirical models and sensitivity analysis*, **Renewable and Sustainable Energy Reviews** 62 (2016) 495–506
10. Delia-Gabriela Calinoiu, **Nicoleta Stefu**, Marius Paulescu, Gavrilă Trif-Tordai, Oana Mares, Eugenia Paulescu, Remus Boata, Nicolina Pop, Angel Pacurar, *"Evaluation of errors made in solar irradiance estimation due to averaging the Angstrom turbidity coefficient"* , **Atmospheric Research**, Vol. 150, Pages: 69-78, Published: DEC 2014
11. Marius Paulescu, Oana Mares, Eugenia Paulescu, **Nicoleta Stefu** , Angel Pacurar, Delia Calinoiu, Paul Gravila, Nicolina Pop, Remus Boata, *"Nowcasting solar irradiance using the sunshine number"* , **Energy Conversion and Management** , Vol. 79 Pages: 690-697 Published: MAR 2014
12. Angel Pacurar, **Nicoleta Stefu**, Oana Mares, Eugenia Paulescu, Delia Calinoiu, Nicolina Pop, Remus Boata, Paul Gravila, Marius Paulescu, *"Forecasting hourly global solar irradiation using simple non-*

seasonal models" , **Journal of Renewable and Sustainable Energy**, Vol.5, Issue 6, Article Number: 063140, DOI: 10.1063/1.4858617, Published: NOV 2013

13. Delia Calinoiu, Marius Paulescu, Ioana Ionel, **Nicoleta Stefu**, Nicolina Pop, Remus Boata, Angel Pacurar, Paul Gravila, Eugenia Paulescu, Gavrilă Trif-Tordai, *"Influence of aerosols pollution on the amount of collectable solar energy"* , **Energy Conversion and Management** , Vol.70, Pg 76-82, DOI: 10.1016/j.enconman.2013.02.012, Published: JUN 2013
14. Marius Paulescu, **Nicoleta Stefu**, Paul Gravila, Eugenia Paulescu, Nicolina Pop, Delia Calinoiu, Remus Boata, Angel Pacurar, Oana Mares, *"Atmospheric Transmittance Model for Photosynthetically Active Radiation"* , TIM 2012 PHYSICS CONFERENCE Book Series: AIP Conference Proceedings, Vol. 1564, Pg. 188-193, Published: 2013,
15. Eugenia Paulescu, **Nicoleta Stefu**, Paul Gravila, Remus Stefan Boata, Nicolina Pop, Marius Paulescu, *"Procedure of embedding biological action functions into the atmospheric transmittance"*, **Theor. Appl. Climatol.**, Volume109, Issue 3-4, Pages 323-332, Published: AUG 2012, DOI 10.1007/s00704-011-0581-y
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17. P. C. Fannin, C. N. Marin, I. Malaescu, **N. Stefu** , P. Vlazan, S. Novaconi, S. Popescu, C. Couper, *"Effect of the concentration of precursors on the microwave absorbent properties of Zn-Fe oxide powders obtained by the hydrothermal method"* , **J. Nanopart. Res** (2011) 13:311–319
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22. V. A. Serban, I. Malaescu, A. Ercuta, C. N. Marin, **N. Stefu** , C. Opris, C. Codrean and D. Utu, *"Magnetic Properties of the WC-Co Cermet Powders"* , Proceedings of the Physics Conference; **AIP Conf. Proceedings** , August 4, Volume 1262, (2010) pp. 113-117
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- N. Stefu** , C. N. Marin, "Fizica Pamantului si a atmosferei", Ed. Eurobit Timisoara, 2008, ISBN 978-973-620-415-9
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