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Jorge Pais is an Associate Professor of the Department of Civil Engineering at the University of Minho (UM) in Portugal. He received his Ph.D. degree from University of Minho in 1999 with a thesis on reflective cracking in flexible pavements. Before his current position, Dr. Pais worked as a research assistant with the pavement research group at the UM. He holds Bachelor (1990) and Master (1993) degrees in Civil Engineering from the University of Porto in Portugal. He was vice-head of the Department of Civil Engineering from 2005 to 2012 and head from 2012 to 2016.

Jorge Pais teaching areas include the Geometric Highway Design, Road Pavement Design, and Railways Design undergraduate and post-graduate courses at the UM. In this context, he has a pedagogical book for Geometric Highway Design.

Jorge Pais research areas include pavement materials design and characterization, advanced laboratory testing, field performance evaluation and maintenance and rehabilitation techniques. In the materials area, he has been involved in fatigue, reflective cracking, cracking propagation, asphalt rubber hot mixes characterization. Jorge Pais is currently the researcher and supervisor of several projects for public and private highways companies of road pavements. He successfully supervised 7 (concluded) + 2 (on going) PhD students and 31 MSc students.

Jorge Pais is author or co-author of more than 200 papers in international and national journals and conferences, some of them cited by the ISI. He has been invited to review manuscripts from some international journals in road pavements area. He has been involved in several national research projects and participated in the organization of scientific events, mainly in the scientific committee of 43 conferences.

Jorge Pais is the author of two computer software for road pavement design: i) JPav computer software allows the computation of the

stress/strain/displacements in road pavements for its design; ii) JPavBack computer software allows the back-calculation of road pavements based on the results of Falling Weight Deflectometer testing. Presently he is developing a computer program for the design of airport pavements (JPavAir).

Jorge Pais has an h-factor of 12 from 48 documents with 495 citations as stated by Scopus at:


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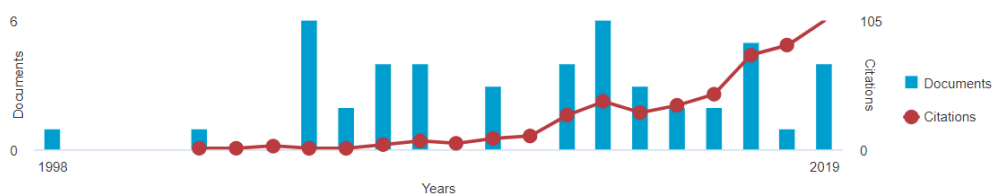
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Document and citation trends:



The most relevant publications include:

[RSS-31] **Pais, J.**, Lo Presti, D., Santos, C., Pereira, P., Thives, L. The effect of prolonged storage time on asphalt rubber binder properties, *Construction and Building Materials*, 210 (2019) 242–255. DOI: [10.1016/j.conbuildmat.2019.03.155](https://doi.org/10.1016/j.conbuildmat.2019.03.155)

[RSS-30] **Pais, J.**, Ferreira, A., Santos, C., Pereira, P., Lo Presti, D., Preliminary studies to use textile fibers obtained from recycled tires to reinforce asphalt mixtures. *Romanian Journal of Transport Infrastructure*, Vol.7, 2018, No.2. DOI: 10.2478/rjti-2018-0009

[RSS-29] Pérez, I., Pasandín, A., **Pais, J.**, Pereira, P. Use of lignin biopolymer from industrial waste as bitumen extender for asphalt mixtures. Journal of Cleaner Production. [Volume 220](#), 20 May 2019, Pages 87-98. <https://doi.org/10.1016/j.jclepro.2019.02.082>

[RSS-28] Pérez, I., Pasandín, A., **Pais, J.**, Pereira, P. Feasibility of Using a Lignin-Containing Waste in Asphalt Binders, Waste and Biomass Valorization (2019), <https://doi.org/10.1007/s12649-019-00590-4>.

[RSS-27] **Pais, J.**, Santos, C., Pereira, P., Kaloush. K. The adjustment of pavement deflections due to temperature variations, International Journal of Pavement Engineering (2018), DOI information: 10.1080/10298436.2018.1557334

[RSS-26] **Pais, J.**, Figueiras, H., Pereira, P., Kaloush, K. The pavements cost due to overloads, International Journal of Pavement Engineering (2018), DOI information: 10.1080/10298436.2018.1435876

[RSS-25] Fernandes, F., **Pais, J.**, Laboratory observation of cracks in road pavements with GPR. Construction and Building Materials, 154 (2017) 1130-1138. DOI information: <https://doi.org/10.1016/j.conbuildmat.2017.08.022>

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[RSS-24] Pereira, P., **Pais, J.**, Main flexible pavement and mix design methods in Europe and challenges for the development of an European method. Journal of Traffic and Transportation Engineering (English Edition), Volume 4, Issue 4, 2017, Pages 316-346. <http://dx.doi.org/10.1016/j.jtte.2017.06.001>

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[RSS-23] Fernandes, F., Fernandes, A., **Pais, J.**, Assessment of the density and

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[RSS-22] Brovelli, C., Crispino, M., **Pais, J.C.**, Pereira, P., Using polymers to improve the rutting resistance of asphalt concrete. Construction and Building Materials 77 (2015) 117-123. DOI information: <doi:10.1016/j.conbuildmat.2014.12.060>.

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[RSS-21] Amorim, S.I.R., **Pais, J.C.**, Vale, A.C., Minhoto, M.J.C., A model for equivalent axle load factors, International Journal of Pavement Engineering. 2014. Vol. 16, No. 10, pp. 881-893, DOI: <http://dx.doi.org/10.1080/10298436.2014.968570>. Published online on 13 October 2014.

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[RSS-20] Micaelo, R., **Pais, J.C.**, Discussion of Visco-elastic-plastic model of asphalt-roller interaction by F. Beainy, S. Commuri, M. Zaman and I. Syed October 2013, Vol. 13, No. 5, pp. 581-594, DOI: 10.1061/(ASCE)GM.1943-5622.0000240. International Journal of Geomechanics, Vol. 14, No 5 (October 2014), pp. 07014003-4. DOI: [http://dx.doi.org/10.1061/\(ASCE\)GM.1943-5622.0000425](http://dx.doi.org/10.1061/(ASCE)GM.1943-5622.0000425)

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[RSS-15] Cojocar, R., **Pais, J.C.**, Andrei, R., Budescu, M., Modeling of Airport Rigid Pavement Structure Made of RCC and Recycled Cement Concrete for Complex Configuration of Landing Gears. Advanced Materials Research, Vol. 649, (2013) pp 254-257, DOI information: 10.4028/www.scientific.net/AMR.649.254.

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pp. 557-565 DOI information: <http://dx.doi.org/10.1016/j.conbuildmat.2012.06.030>.

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[RSS-08] Neto, S.A.D., Farias, M.M., **Pais, J.C.**, Pereira, P.A.A., Influence of crumb rubber and digestion time on the asphalt rubber binders, Road Materials and Pavement Design. vol 7, nº 2, 2006, p. 131-148.

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