# Maria Dolores Ugarte

List of Publications by Year
in descending order

| 109 papers | 2,061 citations | 279798 23 h-index | 330143 37 g-index |
|---|---|---|---|
| 125 all docs | 125 docs citations | 125 times ranked | 2281 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Alleviating confounding in spatio-temporal areal models with an application on crimes against women in India. Statistical Modelling, 2023, 23, 9-30. | 1.1 | 18 |
| 2 | Multivariate Bayesian spatio-temporal P-spline models to analyze crimes against women. Biostatistics, 2023, 24, 562-584. | 1.5 | 8 |
| 3 | Machine Learning Procedures for Daily Interpolation of Rainfall in Navarre (Spain). Studies in Systems, Decision and Control, 2023, , 399-413. | 1.0 | 3 |
| 4 | Identifying extreme COVID-19 mortality risks in English small areas: a disease cluster approach. Stochastic Environmental Research and Risk Assessment, 2022, 36, 2995-3010. | 4.0 | 5 |
| 5 | Space-time interactions in Bayesian disease mapping with recent tools: Making things easier for practitioners. Statistical Methods in Medical Research, 2022, 31, 1085-1103. | 1.5 | 1 |
| 6 | High temperature and water deficit cause epigenetic changes in somatic plants of Pinus radiata D. Don. Plant Cell, Tissue and Organ Culture, 2022, 151, 107-121. | 2.3 | 5 |
| 7 | Cytokinins are involved in drought tolerance of *Pinus radiata* plants originating from embryonal masses induced at high temperatures. Tree Physiology, 2021, 41, 912-926. | 3.1 | 18 |
| 8 | Dealing with risk discontinuities to estimate cancer mortality risks when the number of small areas is large. Statistical Methods in Medical Research, 2021, 30, 6-21. | 1.5 | 9 |
| 9 | Scalable Bayesian modelling for smoothing disease risks in large spatial data sets using INLA. Spatial Statistics, 2021, 41, 100496. | 1.9 | 13 |
| 10 | Steering the synthesis of $Fe_3O_4$ nanoparticles under sonication by using a fractional factorial design. Materials Chemistry and Physics, 2021, 270, 124760. | 4.0 | 4 |
| 11 | Hybrid Pine (Pinus attenuata Ã— Pinus radiata) Somatic Embryogenesis: What Do You Prefer, Mother or Nurse?. Forests, 2021, 12, 45. | 2.1 | 6 |
| 12 | Estimating LOCP cancer mortality rates in small domains in Spain using its relationship with lung cancer. Scientific Reports, 2021, 11, 22273. | 3.3 | 4 |
| 13 | Pinus spp. Somatic Embryo Conversion under High Temperature: Effect on the Morphological and Physiological Characteristics of Plantlets. Forests, 2020, 11, 1181. | 2.1 | 10 |
| 14 | Space-time analysis of ovarian cancer mortality rates by age groups in spanish provinces (1989â€"2015). BMC Public Health, 2020, 20, 1244. | 2.9 | 3 |
| 15 | Induction of Radiata Pine Somatic Embryogenesis at High Temperatures Provokes a Long-Term Decrease in DNA Methylation/Hydroxymethylation and Differential Expression of Stress-Related Genes. Plants, 2020, 9, 1762. | 3.5 | 19 |
| 16 | Bayesian inference in multivariate spatio-temporal areal models using INLA: analysis of gender-based violence in small areas. Stochastic Environmental Research and Risk Assessment, 2020, 34, 1421-1440. | 4.0 | 17 |
| 17 | Crime Against Women in India: Unveiling Spatial Patterns and Temporal Trends of Dowry Deaths in the Districts of Uttar Pradesh. Journal of the Royal Statistical Society Series A: Statistics in Society, 2020, 183, 655-679. | 1.1 | 22 |
| 18 | Using RGISTools to Estimate Water Levels in Reservoirs and Lakes. Remote Sensing, 2020, 12, 1934. | 4.0 | 7 |

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|---|---------|----|-----------|
| 19 | On the Performances of Trend and Change-Point Detection Methods for Remote Sensing Data. Remote Sensing, 2020, 12, 1008. | 4.0 | 50 |
| 20 | Bayesian Modeling Approach in Big Data Contexts: an Application in Spatial Epidemiology. , 2020, , . | | 0 |
| 21 | Filling missing data and smoothing altered data in satellite imagery with a spatial functional procedure. Stochastic Environmental Research and Risk Assessment, 2019, 33, 1737-1750. | 4.0 | 8 |
| 22 | Interpolation of the Mean Anomalies for Cloud Filling in Land Surface Temperature and Normalized Difference Vegetation Index. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6068-6078. | 6.3 | 17 |
| 23 | Online relative risks/rates estimation in spatial and spatio-temporal disease mapping. Computer Methods and Programs in Biomedicine, 2019, 172, 103-116. | 4.7 | 10 |
| 24 | Flexible Bayesian P-splines for smoothing age-specific spatio-temporal mortality patterns. Statistical Methods in Medical Research, 2019, 28, 384-403. | 1.5 | 10 |
| 25 | A two-stage approach to estimate spatial and spatio-temporal disease risks in the presence of local discontinuities and clusters. Statistical Methods in Medical Research, 2019, 28, 2595-2613. | 1.5 | 21 |
| 26 | Detecting Change-Points in the Time Series of Surfaces Occupied by Pre-defined NDVI Categories in Continental Spain from 1981 to 2015. Studies in Systems, Decision and Control, 2018, , 295-307. | 1.0 | 5 |
| 27 | In spatio-temporal disease mapping models, identifiability constraints affect PQL and INLA results. Stochastic Environmental Research and Risk Assessment, 2018, 32, 749-770. | 4.0 | 45 |
| 28 | Temperature and Water Availability During Maturation Affect the Cytokinins and Auxins Profile of Radiata Pine Somatic Embryos. Frontiers in Plant Science, 2018, 9, 1898. | 3.6 | 22 |
| 29 | Two-level resolution of relative risk of dengue disease in a hyperendemic city of Colombia. PLoS ONE, 2018, 13, e0203382. | 2.5 | 12 |
| 30 | An Introduction to the Spatio-Temporal Analysis of Satellite Remote Sensing Data for Geostatisticians. , 2018, , 239-253. | | 4 |
| 31 | Improving the Quality of Satellite Imagery Based on Ground-Truth Data from Rain Gauge Stations. Remote Sensing, 2018, 10, 398. | 4.0 | 3 |
| 32 | Joint modelling of brain cancer incidence and mortality using Bayesian age- and gender-specific shared component models. Stochastic Environmental Research and Risk Assessment, 2018, 32, 2951-2969. | 4.0 | 9 |
| 33 | Tailoring the structural and magnetic properties of Co-Zn nanosized ferrites for hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2018, 465, 211-219. | 2.3 | 37 |
| 34 | Effect of Thermal Stress on Tissue Ultrastructure and Metabolite Profiles During Initiation of Radiata Pine Somatic Embryogenesis. Frontiers in Plant Science, 2018, 9, 2004. | 3.6 | 34 |
| 35 | Short communication: The effect of changing temperature and agar concentration at proliferation stage in the final success of Aleppo pine somatic embryogenesis. Forest Systems, 2018, 26, eSC05. | 0.3 | 8 |
| 36 | Smoothing and high risk areas detection in space-time disease mapping: a comparison of P-splines, autoregressive, and moving average models. Stochastic Environmental Research and Risk Assessment, 2017, 31, 403-415. | 4.0 | 19 |

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|---|---------|-----|-----------|
| 37 | One-dimensional, two-dimensional, and three dimensional B-splines to specify space –time interactions in Bayesian disease mapping: Model fitting and model identifiability. Spatial Statistics, 2017, 22, 451-468. | 1.9 | 22 |
| 38 | Are we able to modulate the response of somatic embryos of pines to drought stress?. Acta Horticulturae, 2017, , 77-84. | 0.2 | 7 |
| 39 | Stochastic Spatio-Temporal Models for Analysing NDVI Distribution of GIMMS NDVI3g Images. Remote Sensing, 2017, 9, 76. | 4.0 | 19 |
| 40 | Spatial gender-age-period-cohort analysis of pancreatic cancer mortality in Spain (1990–2013). PLoS ONE, 2017, 12, e0169751. | 2.5 | 18 |
| 41 | Age-space-time CAR models in Bayesian disease mapping. Statistics in Medicine, 2016, 35, 2391-2405. | 1.6 | 18 |
| 42 | A statistical algorithm showing coenzyme Q10 and citrate synthase as biomarkers for mitochondrial respiratory chain enzyme activities. Scientific Reports, 2016, 6, 15. | 3.3 | 34 |
| 43 | Sustainability of traditional pastoral fires in highlands under global change: Effects on soil function and nutrient cycling. Agriculture, Ecosystems and Environment, 2016, 235, 155-163. | 5.3 | 48 |
| 44 | <i>Pinus halepensis</i> somatic embryogenesis is affected by the physical and chemical conditions at the initial stages of the process. Journal of Forest Research, 2016, 21, 143-150. | 1.4 | 21 |
| 45 | Two-level spatially structured models in spatio-temporal disease mapping. Statistical Methods in Medical Research, 2016, 25, 1080-1100. | 1.5 | 15 |
| 46 | Environmental conditions at the initial stages of Pinus radiata somatic embryogenesis affect the production of somatic embryos. Trees - Structure and Function, 2016, 30, 949-958. | 1.9 | 35 |
| 47 | Checking unimodality using isotonic regression: an application to breast cancer mortality rates. Stochastic Environmental Research and Risk Assessment, 2016, 30, 1277-1288. | 4.0 | 3 |
| 48 | Temporal evolution of brain cancer incidence in the municipalities of Navarre and the Basque Country, Spain. BMC Public Health, 2015, 15, 1018. | 2.9 | 8 |
| 49 | Deriving Small Area Estimates from Information Technology Business Surveys. Journal of the Royal Statistical Society Series A: Statistics in Society, 2015, 178, 1051-1067. | 1.1 | 10 |
| 50 | Analyzing the evolution of young people's brain cancer mortality in Spanish provinces. Cancer Epidemiology, 2015, 39, 480-485. | 1.9 | 9 |
| 51 | Cold storage of initial plant material affects positively somatic embryogenesis in Pinus radiata. New Forests, 2015, 46, 309-317. | 1.7 | 35 |
| 52 | Interpolation of daily rainfall using spatiotemporal models and clustering. International Journal of Climatology, 2015, 35, 1453-1464. | 3.5 | 15 |
| 53 | On fitting spatio-temporal disease mapping models using approximate Bayesian inference. Statistical Methods in Medical Research, 2014, 23, 507-530. | 1.5 | 78 |
| 54 | More on functional data analysis and other aspects in OODA. Biometrical Journal, 2014, 56, 786-789. | 1.0 | 0 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 55 | Comments on: â€œSingle and two-stage cross-sectional and time series benchmarking procedures for small area estimationâ€. Test, 2014, 23, 680-685. | 1.1 | 0 |
| 56 | Age- and sex-specific spatio-temporal patterns of colorectal cancer mortality in Spain (1975-2008). Population Health Metrics, 2014, 12, 17. | 2.7 | 6 |
| 57 | GEOMED 2013 Editorial. Statistical Methods in Medical Research, 2014, 23, 487-487. | 1.5 | 0 |
| 58 | New trends on the permutability equation. Aequationes Mathematicae, 2014, 88, 211-232. | 0.8 | 8 |
| 59 | Functional time series analysis of spatioâ€"temporal epidemiological data. Stochastic Environmental Research and Risk Assessment, 2014, 28, 943-954. | 4.0 | 20 |
| 60 | Evaluating spaceâ€time models for shortâ€term cancer mortality risk predictions in small areas. Biometrical Journal, 2014, 56, 383-402. | 1.0 | 9 |
| 61 | Spatio-temporal trends in gastric cancer mortality in Spain: 1975â€"2008. Cancer Epidemiology, 2013, 37, 360-369. | 1.9 | 28 |
| 62 | Mapping GPS positional errors using spatial linear mixed models. Journal of Geodesy, 2013, 87, 675-685. | 3.6 | 5 |
| 63 | Projections of cancer mortality risks using spatio-temporal P-spline models. Statistical Methods in Medical Research, 2012, 21, 545-560. | 1.5 | 20 |
| 64 | Comparing CAR and P-spline models in spatial disease mapping. Environmental and Ecological Statistics, 2012, 19, 573-599. | 3.5 | 20 |
| 65 | Gender-specific spatio-temporal patterns of colorectal cancer incidence in Navarre, Spain (1990â€"2005). Cancer Epidemiology, 2012, 36, 254-262. | 1.9 | 12 |
| 66 | A P-spline ANOVA type model in space-time disease mapping. Stochastic Environmental Research and Risk Assessment, 2012, 26, 835-845. | 4.0 | 21 |
| 67 | Estimating the percentage of food expenditure in small areas using bias-corrected -spline based estimators. Computational Statistics and Data Analysis, 2012, 56, 2934-2948. | 1.2 | 8 |
| 68 | Testing for spaceâ€"time interaction in conditional autoregressive models. Environmetrics, 2012, 23, 3-11. | 1.4 | 5 |
| 69 | Modelling aboveground tree biomass while achieving the additivity property. Environmental and Ecological Statistics, 2011, 18, 367-384. | 3.5 | 15 |
| 70 | Spatioâ€temporal modeling of mortality risks using penalized splines. Environmetrics, 2010, 21, 270-289. | 1.4 | 57 |
| 71 | Relation between Temperature and Mortality in Thirteen Spanish Cities. International Journal of Environmental Research and Public Health, 2010, 7, 3196-3210. | 2.6 | 72 |
| 72 | Age-Specific Spatio-Temporal Patterns of Female Breast Cancer Mortality in Spain (1975â€"2005). Annals of Epidemiology, 2010, 20, 906-916. | 1.9 | 16 |

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| 73 | Evaluating the performance of spatio–temporal Bayesian models in disease mapping. Environmetrics, 2009, 20, 647-665. | 1.4 | 32 |
| 74 | Benchmarked estimates in small areas using linear mixed models with restrictions. Test, 2009, 18, 342-364. | 1.1 | 20 |
| 75 | Comments on: Missing data methods in longitudinal studies: a review. Test, 2009, 18, 44-46. | 1.1 | 2 |
| 76 | Empirical Bayes and Fully Bayes procedures to detect high-risk areas in disease mapping. Computational Statistics and Data Analysis, 2009, 53, 2938-2949. | 1.2 | 25 |
| 77 | Spline smoothing in small area trend estimation and forecasting. Computational Statistics and Data Analysis, 2009, 53, 3616-3629. | 1.2 | 36 |
| 78 | Longitudinal analysis of spatially correlated data. Stochastic Environmental Research and Risk Assessment, 2008, 22, 49-57. | 4.0 | 10 |
| 79 | Prediction error estimators in Empirical Bayes disease mapping. Environmetrics, 2008, 19, 287-300. | 1.4 | 21 |
| 80 | Adjusting economic estimates in business surveys. Journal of Applied Statistics, 2008, 35, 1253-1265. | 1.3 | 2 |
| 81 | A taxometric analysis of schizophrenia symptoms. Psychiatry Research, 2007, 150, 245-253. | 3.3 | 41 |
| 82 | A BLUP Synthetic Versus an EBLUP Estimator: An Empirical Study of a Small Area Estimation Problem. Journal of Applied Statistics, 2007, 34, 153-165. | 1.3 | 11 |
| 83 | Combining sampling and model weights in agriculture small area estimation. Environmetrics, 2007, 18, 87-99. | 1.4 | 4 |
| 84 | Using small area models to estimate the total area occupied by olive trees. Journal of Agricultural, Biological, and Environmental Statistics, 2006, 11, 450-461. | 1.4 | 11 |
| 85 | Statistical Modelling in GLIM4, 2nd edn by M. Aitkin, B. Francis and J. Hinde. Journal of the Royal Statistical Society Series A: Statistics in Society, 2006, 169, 652-652. | 1.1 | 0 |
| 86 | Outliers detection in multivariate spatial linear models. Journal of Statistical Planning and Inference, 2006, 136, 125-146. | 0.6 | 17 |
| 87 | Goals and Personality in Adolescents. School Psychology International, 2006, 27, 370-381. | 1.9 | 4 |
| 88 | Modelling risks in disease mapping. Statistical Methods in Medical Research, 2006, 15, 21-35. | 1.5 | 20 |
| 89 | A cohort study to estimate occupational mortality risks in Navarra. European Journal of Public Health, 2005, 15, 305-312. | 0.3 | 0 |
| 90 | Detection of spatial variation in risk when using CAR models for smoothing relative risks. Stochastic Environmental Research and Risk Assessment, 2005, 19, 33-40. | 4.0 | 13 |

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| 91 | Alternative Models for Describing Spatial Dependence among Dwelling Selling Prices. Journal of Real Estate Finance and Economics, 2004, 29, 193-209. | 1.5 | 66 |
| 92 | A longitudinal study of antioxidant status in phenylketonuric patients. Clinical Biochemistry, 2004, 37, 198-203. | 1.9 | 57 |
| 93 | Penalized quasi-likelihood with spatially correlated data. Computational Statistics and Data Analysis, 2004, 45, 235-248. | 1.2 | 27 |
| 94 | Testing for Poisson Zero Inflation in Disease Mapping. Biometrical Journal, 2004, 46, 526-539. | 1.0 | 16 |
| 95 | Robust trend parameters in a multivariate spatial linear model. Test, 2003, 12, 445-457. | 1.1 | 5 |
| 96 | Immediate and long-term effects of a cognitive intervention on intelligence, self-regulation, and academic achievement. European Journal of Psychology of Education, 2003, 18, 59-74. | 2.6 | 21 |
| 97 | Confidence Intervals for Relative Risks in Disease Mapping. Biometrical Journal, 2003, 45, 410-425. | 1.0 | 5 |
| 98 | Gender, age, socio-demographic and lifestyle factors associated with major dietary patterns in the Spanish Project SUN (Seguimiento Universidad de Navarra). European Journal of Clinical Nutrition, 2003, 57, 285-292. | 2.9 | 164 |
| 99 | Enhancement of self-regulation, assertiveness, and empathy. Learning and Instruction, 2003, 13, 423-439. | 3.2 | 31 |
| 100 | Assessing the covariance function in geostatistics. Statistics and Probability Letters, 2001, 52, 199-206. | 0.7 | 13 |
| 101 | The use of mixture models for identifying high risks in disease mapping. Statistics in Medicine, 2001, 20, 2035-2049. | 1.6 | 37 |
| 102 | Detecting Interaction Between Random Region and Fixed Age Effects in Disease Mapping. Biometrics, 2001, 57, 197-202. | 1.4 | 58 |
| 103 | The use of mixture models for identifying high risks in disease mapping. Statistics in Medicine, 2001, 20, 2035-2049. | 1.6 | 1 |
| 104 | Robust Predictions of Rainfall in Navarre, Spain. Quantitative Geology and Geostatistics, 2001, , 79-90. | 0.1 | 5 |
| 105 | Analyzing Censored Spatial Data. Mathematical Geosciences, 1999, 31, 551-561. | 0.9 | 18 |
| 106 | A gm estimation of the location parameters in a spatial linear model. Communications in Statistics - Theory and Methods, 1997, 26, 1701-1725. | 1.0 | 9 |
| 107 | SEARCHING FOR HOUSING SUBMARKETS USING MIXTURES OF LINEAR MODELS. Advances in Econometrics, 0, , 259-276. | 0.3 | 11 |
| 108 | Locally adaptive change-point detection (LACPD) with applications to environmental changes. Stochastic Environmental Research and Risk Assessment, 0, , 1. | 4.0 | 1 |