

# David Gonzalez-Gomez

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

2,120

citations

27

h-index

43

g-index

106

ext. papers

2,419

ext. citations

3.3

avg, IF

5.18

L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 88 | An Online-Based Edu-Escape Room: A Comparison Study of a Multidimensional Domain of PSTs with Flipped Sustainability-STEM Contents. <i>Sustainability</i> , <b>2021</b> , 13, 1032   | 3.6  | 10        |
| 87 | A Molecularly Imprinted Polymer for Selective Extraction of Phenolic Acids from Human Urine. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1577  | 2.6  | 2         |
| 86 | Improving Climate Change Awareness of Preservice Teachers (PSTs) through a University Science Learning Environment. <i>Education Sciences</i> , <b>2021</b> , 11, 78   | 2.2  | 5         |
| 85 | Flipped-OCN Method in Mathematics Learning to Analyze the Attitudes of Pre-Service Teachers. <i>Mathematics</i> , <b>2021</b> , 9, 607   | 2.3  | 2         |
| 84 | A STEM Course Analysis During COVID-19: A Comparison Study in Performance and Affective Domain of PSTs Between F2F and F2S Flipped Classroom. <i>Frontiers in Psychology</i> , <b>2021</b> , 12, 669855                              | 3.4  | 4         |
| 83 | Disposable electrochemical sensor combined with molecularly imprinted solid-phase extraction for catabolites detection of flavan-3-ol in urine samples. <i>Talanta</i> , <b>2021</b> , 235, 122734                                   | 6.2  | 0         |
| 82 | Multi-Criteria Decision Analysis Methods for Sustainability Assessment of Renewable Energy Systems and Its Potential Application to Sustainable STEM Education. <i>Green Energy and Technology</i> , <b>2021</b> , 39-62             | 0.6  |           |
| 81 | Adapting to PSTs Pedagogical Changes in Sustainable Mathematics Education through Flipped E-Learning: Ranking Its Criteria with MCDA/F-DEMATEL. <i>Mathematics</i> , <b>2020</b> , 8, 858  | 2.3  | 11        |
| 80 | EXAMINING THE EFFECT OF AN ONLINE FORMATIVE ASSESSMENT TOOL (OFAT) OF STUDENTS MOTIVATION AND ACHIEVEMENT FOR A UNIVERSITY SCIENCE EDUCATION. <i>Journal of Baltic Science Education</i> , <b>2020</b> , 19, 401-414                 | 1    | 6         |
| 79 | The Flipped Learning Model in General Science: Effects on Students Learning Outcomes and Affective Dimensions <b>2020</b> , 541-549  |      | 1         |
| 78 | A web-based tool framing a collective method for optimizing the location of a renewable energy facility and its possible application to sustainable STEM education. <i>Journal of Cleaner Production</i> , <b>2020</b> , 251, 119747 | 10.3 | 13        |
| 77 | Assessment of sustainability science education criteria in online-learning through fuzzy-operational and multi-decision analysis and professional survey. <i>Heliyon</i> , <b>2020</b> , 6, e04706                                   | 3.6  | 8         |
| 76 | Exploring Pedagogical Content Knowledge (PCK) of Physics Teachers in a Colombian Secondary School. <i>Education Sciences</i> , <b>2020</b> , 10, 362   | 2.2  | 4         |
| 75 | Sustainable and Flipped STEM Education: Formative Assessment Online Interface for Observing Pre-Service Teachers Performance and Motivation. <i>Education Sciences</i> , <b>2020</b> , 10, 283                                       | 2.2  | 8         |
| 74 | Prioritizing Elements of Science Education for Sustainable Development with the MCDA-FDEMATEL Method Using the Flipped E-Learning Scheme. <i>Sustainability</i> , <b>2019</b> , 11, 3079   | 3.6  | 10        |
| 73 | EduSciFIT: A Computer-Based Blended and Scaffolding Toolbox to Support Numerical Concepts for Flipped Science Education. <i>Education Sciences</i> , <b>2019</b> , 9, 116  | 2.2  | 7         |
| 72 | Effects of active learning methodologies on the students emotions, self-efficacy beliefs and learning outcomes in a science distance learning course. <i>Journal of Technology and Science Education</i> , <b>2019</b> , 9, 217      | 1.4  | 23        |

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| 71 | How does a flipped classroom course affect the affective domain toward science course?.<br><i>Interactive Learning Environments</i> , <b>2019</b> , 1-13  | 3.1 | 22 |
| 70 | Optimization of enzyme-assisted aqueous method for the extraction of oil from walnuts using response surface methodology. <i>Journal of Food Processing and Preservation</i> , <b>2019</b> , 43, e14218                                 | 2.1 | 4  |
| 69 | EXAMINATION OF STUDENTS' ENGAGEMENT WITH R-SPQ-2F OF LEARNING APPROACH IN FLIPPED SUSTAINABLE SCIENCE COURSE. <i>Journal of Baltic Science Education</i> , <b>2019</b> , 18, 880-891  | 1   | 12 |
| 68 | Enhancing science self-efficacy and attitudes of Pre-Service Teachers (PST) through a flipped classroom learning environment. <i>Interactive Learning Environments</i> , <b>2019</b> , 1-12   | 3.1 | 14 |
| 67 | Influencia de la metodolog a flipped en las emociones sentidas por estudiantes del Grado de Educaci n Primaria en clases de ciencias dependiendo del bachillerato cursado <b>2018</b> , 29, 77  |     | 5  |
| 66 | The influence of teaching methodologies in the assimilation of density concept in primary teacher trainees. <i>Heliyon</i> , <b>2018</b> , 4, e00963  | 3.6 | 1  |
| 65 | The Study of Flipped-Classroom for Pre-Service Science Teachers. <i>Education Sciences</i> , <b>2018</b> , 8, 163   | 2.2 | 23 |
| 64 | Quantification and bioaccessibility of intact glucosinolates in broccoli 'Barthenon' and Savoy cabbage 'Dama'. <i>Journal of Food Composition and Analysis</i> , <b>2017</b> , 61, 40-46  | 4.1 | 11 |
| 63 | Effect of modified atmosphere on postharvest quality of 'Sweetheart' cherries. <i>Acta Horticulturae</i> , <b>2017</b> , 653-660  | 0.3 |    |
| 62 | Optimization of osmotic dehydration of cherry by response surface methodology. <i>Acta Horticulturae</i> , <b>2017</b> , 661-666  | 0.3 | 0  |
| 61 | Bioactive compounds in sweet cherries: identification, quantification and distribution in different cherry cultivars. <i>Acta Horticulturae</i> , <b>2017</b> , 483-490   | 0.3 | 1  |
| 60 | Application of microbial antagonists in combination with sodium bicarbonate to control postharvest diseases of sweet cherries. <i>Acta Horticulturae</i> , <b>2017</b> , 529-534  | 0.3 |    |
| 59 | Evaluation of different postharvest conditions to preserve the amount of bioactive compounds, physicochemical quality parameters and sensory attributes of 'Sweetheart' cherries. <i>Acta Horticulturae</i> , <b>2017</b> , 581-586     | 0.3 | 3  |
| 58 | Influence of calcium and gibberellic acid preharvest treatments in sweet cherries ('Prunus avium L. Burlat', 'Sunburst', 'Ambrunes' and 'Sweetheart') quality and sensory parameters. <i>Acta Horticulturae</i> , <b>2017</b> , 603-606 | 0.3 |    |
| 57 | Feasibility of the determination of three flavan-3-ols metabolites in urine samples via parallel factor analysis of fluorescence emission matrices. <i>Journal of Functional Foods</i> , <b>2017</b> , 37, 303-309                      | 5.1 | 3  |
| 56 | A web-based scaffolding-learning tool for design students' sustainable spatial planning. <i>Architectural Engineering and Design Management</i> , <b>2017</b> , 13, 262-277   | 1.2 | 5  |
| 55 | Teaching science contents through a 'Flipped' model: An instruction example for Primary Education bachelor students. <i>Ensenanza De Las Ciencias</i> , <b>2017</b> , 35, 71  | 1.6 | 5  |
| 54 | Behaviour of fresh cut broccoli under different modified atmosphere conditions. <i>Emirates Journal of Food and Agriculture</i> , <b>2017</b> , 29, 188   | 1   | 2  |

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| 53 | Fruit chemistry, nutritional benefits and social aspects of cherries. <b>2017</b> , 420-441  |     | 8   |
| 52 | Development of an HPLC-MS method for the determination of natural pteridines in tomato samples. <i>Analytical Methods</i> , <b>2016</b> , 8, 6404-6414   | 3.2 | 2   |
| 51 | Students' Perceptions and Emotions Toward Learning in a Flipped General Science Classroom. <i>Journal of Science Education and Technology</i> , <b>2016</b> , 25, 747-758  | 2.8 | 56  |
| 50 | Performance and Perception in the Flipped Learning Model: An Initial Approach to Evaluate the Effectiveness of a New Teaching Methodology in a General Science Classroom. <i>Journal of Science Education and Technology</i> , <b>2016</b> , 25, 450-459   | 2.8 | 105 |
| 49 | Optimization of broccoli microencapsulation process by complex coacervation using response surface methodology. <i>Innovative Food Science and Emerging Technologies</i> , <b>2016</b> , 34, 243-249   | 6.8 | 19  |
| 48 | Impact of decreasing staple food production capacity on food self-sufficiency in poor rural communities in Mexico. <i>Economía Agraria Y Recursos Naturales</i> , <b>2016</b> , 16, 33-67  | 0.9 | 1   |
| 47 | Rapid ultrasensitive chemometrics-fluorescence methodology to quantify fluoroquinolones antibiotics residues in surface water. <i>Journal of Water Chemistry and Technology</i> , <b>2016</b> , 38, 280-286  | 0.4 | 3   |
| 46 | CONCENTRATIONS OF INTACT GLUCOSINOLATES IN 'PARTHENON' BROCCOLI FLORETS STORED IN MODIFIED ATMOSPHERE PACKAGING AND AIR. <i>Acta Horticulturae</i> , <b>2015</b> , 583-588   | 0.3 |     |
| 45 | A Comprehensive Application To Assist in Acid-Base Titration Self-Learning: An Approach for High School and Undergraduate Students. <i>Journal of Chemical Education</i> , <b>2015</b> , 92, 855-863   | 2.4 | 16  |
| 44 | Application of experimental design and response surface methodology to optimize the procedure to obtain a bactericide and highly antioxidant aqueous extract from orange peels. <i>Food Control</i> , <b>2014</b> , 35, 252-259  | 6.2 | 9   |
| 43 | A Jerte valley cherry product provides beneficial effects on sleep quality. Influence on aging. <i>Journal of Nutrition, Health and Aging</i> , <b>2013</b> , 17, 553-60   | 5.2 | 31  |
| 42 | Different postharvest strategies to preserve broccoli quality during storage and shelf life: controlled atmosphere and 1-MCP. <i>Food Chemistry</i> , <b>2013</b> , 138, 564-73  | 8.5 | 51  |
| 41 | Comparative study of the nutritional and bioactive compounds content of four walnut ( <i>Juglans regia</i> L.) cultivars. <i>Journal of Food Composition and Analysis</i> , <b>2013</b> , 31, 232-237  | 4.1 | 79  |
| 40 | Tempranillo-derived grape seed extract induces apoptotic cell death and cell growth arrest in human promyelocytic leukemia HL-60 cells. <i>Food and Function</i> , <b>2013</b> , 4, 1759-66  | 6.1 | 9   |
| 39 | Retention of quality and functional values of broccoli 'Parthenon' stored in modified atmosphere packaging. <i>Food Control</i> , <b>2013</b> , 31, 302-313  | 6.2 | 55  |
| 38 | Automatic Web-Based Grading System: Application in an Advanced Instrumental Analysis Chemistry Laboratory. <i>Journal of Chemical Education</i> , <b>2013</b> , 90, 308-314  | 2.4 | 4   |
| 37 | Altered commercial controlled atmosphere storage conditions for 'Parthenon' broccoli plants ( <i>Brassica oleracea</i> L. var. <i>italica</i> ). Influence on the outer quality parameters and on the health-promoting compounds. <i>LWT - Food Science and Technology</i> , <b>2013</b> , 50, 665-672 | 5.4 | 38  |
| 36 | Influence of the industrial processing and the floral origin into the volatile constituents of honeybee-collected pollen. <i>Food Science and Technology International</i> , <b>2013</b> , 19, 167-76  | 2.6 |     |

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| 35 | FORCED-AIR PRECOOLING EFFECT ON QUALITY OF DELAYED COLD STORED STONE FRUIT. <i>Acta Horticulturae</i> , <b>2013</b> , 491-495  | 0.3 |     |
| 34 | UHPLC as a suitable methodology for the analysis of carotenoids in food matrix. <i>European Food Research and Technology</i> , <b>2012</b> , 235, 1055-1061  | 3.4 | 19  |
| 33 | In vitro assays of the antibacterial and antioxidant activity of aqueous leaf extracts from different <i>Prunus salicina</i> Lindl. cultivars. <i>Food and Chemical Toxicology</i> , <b>2012</b> , 50, 2481-6  | 4.7 | 23  |
| 32 | In vitro estimation of the antibacterial activity and antioxidant capacity of aqueous extracts from grape-seeds ( <i>Vitis vinifera</i> L.). <i>Food Control</i> , <b>2012</b> , 24, 136-141   | 6.2 | 114 |
| 31 | Influence of the microencapsulation on the quality parameters and shelf-life of extra-virgin olive oil encapsulated in the presence of BHT and different capsule wall components. <i>Food Research International</i> , <b>2012</b> , 45, 256-261                                       | 7   | 53  |
| 30 | In-vitro evaluation of the availability of $\omega$ -3 and $\omega$ -6 fatty acids and tocopherols from microencapsulated walnut oil. <i>Food Research International</i> , <b>2012</b> , 48, 316-321   | 7   | 36  |
| 29 | Identification, quantification and comparison of the principal bioactive compounds and external quality parameters of two broccoli cultivars. <i>Journal of Functional Foods</i> , <b>2012</b> , 4, 465-473  | 5.1 | 35  |
| 28 | PLS calibration to resolve overlapping peaks of lutein and zeaxanthin in vegetable samples by LC. <i>Czech Journal of Food Sciences</i> , <b>2012</b> , 30, 358-363  | 1.3 | 7   |
| 27 | ANTIOXIDANT PHYTOCHEMICALS IN SAVOY CABBAGE ( <i>BRASSICA OLERACEA</i> L. VAR. <i>SABAUDA</i> L.). <i>Acta Horticulturae</i> , <b>2012</b> , 295-300   | 0.3 | 2   |
| 26 | Micro-encapsulation of refined olive oil: influence of capsule wall components and the addition of antioxidant additives on the shelf life and chemical alteration. <i>Journal of the Science of Food and Agriculture</i> , <b>2012</b> , 92, 2689-95                                  | 4.3 | 10  |
| 25 | The consumption of a Jerte Valley cherry product in humans enhances mood, and increases 5-hydroxyindoleacetic acid but reduces cortisol levels in urine. <i>Experimental Gerontology</i> , <b>2012</b> , 47, 573-80  | 4.5 | 20  |
| 24 | Physicochemical and bioactive properties evolution during ripening of Ambrun sweet cherry cultivar. <i>LWT - Food Science and Technology</i> , <b>2011</b> , 44, 199-205   | 5.4 | 53  |
| 23 | Influence of the commercial processing and floral origin on bioactive and nutritional properties of honeybee-collected pollen. <i>International Journal of Food Science and Technology</i> , <b>2011</b> , 46, 2204-2211   | 3.8 | 33  |
| 22 | Effects of microcapsule constitution on the quality of microencapsulated walnut oil. <i>European Journal of Lipid Science and Technology</i> , <b>2011</b> , 113, 1273-1280  | 3   | 55  |
| 21 | Characterization of traditional tomato varieties grown in organic conditions. <i>Spanish Journal of Agricultural Research</i> , <b>2011</b> , 9, 444   | 1.1 | 22  |
| 20 | Microencapsulation of extra-virgin olive oil by spray-drying: Influence of wall material and olive quality. <i>European Journal of Lipid Science and Technology</i> , <b>2010</b> , 112, 852-858   | 3   | 84  |
| 19 | Sweet cherry phytochemicals: Identification and characterization by HPLC-DAD/ESI-MS in six sweet-cherry cultivars grown in Valle del Jerte (Spain). <i>Journal of Food Composition and Analysis</i> , <b>2010</b> , 23, 533-539  | 4.1 | 88  |
| 18 | Fast and accurate alternative UV-chemometric method for the determination of chlorophyll A and B in broccoli ( <i>Brassica oleracea Italica</i> ) and cabbage ( <i>Brassica oleracea Sabauda</i> ) plants. <i>Journal of Food Composition and Analysis</i> , <b>2010</b> , 23, 809-813 | 4.1 | 17  |

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| 17 | Detection and quantification of melatonin and serotonin in eight Sweet Cherry cultivars ( <i>Prunus avium</i> L.). <i>European Food Research and Technology</i> , <b>2009</b> , 229, 223-229  | 3.4 | 87 |
| 16 | Determination of danofloxacin in milk combining second-order calibration and standard addition method using excitation-emission fluorescence data. <i>Food Chemistry</i> , <b>2009</b> , 113, 1260-1265   | 8.5 | 22 |
| 15 | A nutraceutical product based on Jerte Valley cherries improves sleep and augments the antioxidant status in humans. <i>European E-journal of Clinical Nutrition and Metabolism</i> , <b>2009</b> , 4, e321-e323  |     | 24 |
| 14 | Improvement in protein separation in Barrett's esophagus samples using two-dimensional capillary electrophoresis analysis in presence of cyclodextrins as buffer additives. <i>Talanta</i> , <b>2009</b> , 78, 193-8  | 6.2 | 14 |
| 13 | Chemical cytometry: the chemical analysis of single cells. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 390, 223-6   | 4.4 | 14 |
| 12 | Instrumentation for medium-throughput two-dimensional capillary electrophoresis with laser-induced fluorescence detection. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 765-8  | 7.8 | 36 |
| 11 | HPLC determination of ciprofloxacin, cloxacillin, and ibuprofen drugs in human urine samples. <i>Journal of Separation Science</i> , <b>2006</b> , 29, 1969-76  | 3.4 | 25 |
| 10 | Reproducible two-dimensional capillary electrophoresis analysis of Barrett's esophagus tissues. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 5977-86   | 7.8 | 69 |
| 9  | Solid-liquid extraction fluorescence line narrowing spectroscopy of fluoroquinolones in aqueous samples. <i>Applied Spectroscopy</i> , <b>2006</b> , 60, 1174-80  | 3.1 | 3  |
| 8  | Determination of fluoroquinolones in urine and serum by using high performance liquid chromatography and multiemission scan fluorimetric detection. <i>Talanta</i> , <b>2006</b> , 68, 1215-21  | 6.2 | 47 |
| 7  | Strategies for solving matrix effects in the analysis of sulfathiazole in honey samples using three-way photochemically induced fluorescence data. <i>Talanta</i> , <b>2005</b> , 65, 806-13  | 6.2 | 27 |
| 6  | HPLC determination of enoxacin, ciprofloxacin, norfloxacin and ofloxacin with photoinduced fluorimetric (PIF) detection and multiemission scanning: application to urine and serum. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2005</b> , 822, 185-93 | 3.2 | 79 |
| 5  | Determinations of fluoroquinolones and nonsteroidal anti-inflammatory drugs in urine by extractive spectrophotometry and photoinduced spectrofluorimetry using multivariate calibration. <i>Analytical Biochemistry</i> , <b>2005</b> , 347, 275-86   | 3.1 | 36 |
| 4  | Photoinduced spectrofluorimetric determination of fluoroquinolones in human urine by using three- and two-way spectroscopic data and multivariate calibration. <i>Analytica Chimica Acta</i> , <b>2005</b> , 531, 257-266   | 6.6 | 42 |
| 3  | Determination of carbamazepine in serum and pharmaceutical preparations using immobilization on a nylon support and fluorescence detection. <i>Analytica Chimica Acta</i> , <b>2004</b> , 506, 161-170  | 6.6 | 72 |
| 2  | Partial least squares multicomponent fluorimetric determination of fluoroquinolones in human urine samples. <i>Talanta</i> , <b>2004</b> , 62, 853-60   | 6.2 | 48 |
| 1  | Interference-free analysis using three-way fluorescence data and the parallel factor model. Determination of fluoroquinolone antibiotics in human serum. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 2640-6   | 7.8 | 88 |